

Supplement of Arch. Anim. Breed., 64, 1–6, 2021
<https://doi.org/10.5194/aab-64-1-2021-supplement>
© Author(s) 2021. This work is distributed under
the Creative Commons Attribution 4.0 License.



Supplement of

The effects of plastic slatted floor and a deep-litter system on the growth performance of hybrid Pekin ducks

Sabri Arda Eratalar

Correspondence to: Sabri Arda Eratalar (ardaeratalar@ibu.edu.tr)

The copyright of individual parts of the supplement might differ from the CC BY 4.0 License.

Tables

Table 1. The nutritive and chemical values of the feed used in the experiment.

	Starter 0-14 days	Grower 15 days- Slaughter
Metabolic energy kcal kg ⁻¹	2,900.00	3,100.00
Crude protein, g kg ⁻¹	200.00	172.00
Crude cellulose, g kg ⁻¹	40.00	40.50
Crude fat, g kg ⁻¹	40.13	58.10
Crude ash, g kg ⁻¹	60.33	63.30
Lysine, g kg ⁻¹	10.00	8.00
Methionine, g kg ⁻¹	5.50	4.00
Calcium, g kg ⁻¹	100.00	90.00
Phosphorus, g kg ⁻¹	7.20	6.50
Sodium, g kg ⁻¹	1.60	1.70
Vitamin A, g kg ⁻¹	1.271	1.271
Vitamin D3, g kg ⁻¹	0.53	0.53
Manganese, mg kg ⁻¹	120.00	120.00
Zinc, mg kg ⁻¹	110.00	110.00
Copper, mg kg ⁻¹	16.00	16.00
Iodine, mg kg ⁻¹	1.50	1.50
Selenium, mg kg ⁻¹	0.30	0.30
NaCl, mg kg ⁻¹	0,44	0,42

Formula 1. The FCR calculation formula (Anonymous, 2012).

$$\text{Feed conversion ratio (FCR)} = \frac{\text{Feed consumed in kg (FC)}}{\text{Live weight in kg (LW)}}$$

Table 2. The effects of PSF and WS on the field performance of Pekin ducks (Mean \pm SEM).

	Litter Material		
	Wood Shavings	P. Slatted Floor	p-values
Live Weight, g/duckling/compartment			
Start*	54.50	54.50	
2 nd Week	769 \pm 13	734 \pm 19	0.120
4 th Week	1,584 \pm 81	1,564 \pm 85	0.866
6 th Week	3,314 \pm 46	3,450 \pm 69	0.104
Total Live Weight Gain, g/day			
2. Week	51 \pm 1	49 \pm 1	0.120
4. Week	55 \pm 3	54 \pm 3	0.866
6. Week	78 \pm 1	81 \pm 2	0.104
Total Live Weight, kg/m²			
	9.94 \pm 0.07	10.35 \pm 0.17	0.069

* Ducklings were weighed en masse at start.

Table 3. The effects of PSF and WS on feed consumption and FCR of Pekin ducks (Mean \pm SEM).

	Litter Material		p-values
	Wood Shavings	P. Slatted Floor	
Total Feed Consumption, g/duckling			
2. Week*	1167	1167	
4. Week	2,924 \pm 69	2,807 \pm 51	0.220
6. Week	6,160 \pm 83	6,039 \pm 92	0.369
Feed Conversion Ratio (FCR)			
2. Week	1.519 \pm 0.032	1.596 \pm 0.058	0.291
4. Week	1.847 \pm 0.037	1.813 \pm 0.093	0.739
6. Week	1.859 \pm 0.020 ^a	1.751 \pm 0.022 ^b	0.011

^{ab} The different superscript letters on the same line indicate statistical significance ($p < 0.05$).

* The feed consumption for the first week was collected en masse.

Table 4. The effects of PSF and WS on water consumption water/feed consumption ratio (Mean \pm SEM).

	Litter Material		p-values
	Wood Shavings	P. Slatted Floor	
Water Consumption, ml/duckling			
2. Week	156 \pm 3	152 \pm 10	0.477
4. Week	297 \pm 4	297 \pm 21	0.950
6. Week	441 \pm 8	469 \pm 12	0.099
Water / Feed Consumption Ratio			
2. Week	1.875 \pm 0.034	1.821 \pm 0.062	0.477
4. Week	2.849 \pm 0.084	2.952 \pm 0.057	0.351
6. Week	3.010 \pm 0.088 ^a	3.259 \pm 0.042 ^b	0.041

^{ab} The different superscript letters on the same line indicate statistical significance ($p < 0.05$).