J. Dairy Sci. 105:7861–7862
https://doi.org/10.3168/jds.2022-105-9-7861

Corrigendum to "Effects of increasing air temperature on physiological and productive responses of dairy cows at different relative humidity and air velocity levels" (J. Dairy Sci. 105:1710–1716)

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Water intake values were shown incorrectly in the "Productive Responses to Treatments" section and in Table 6. The corrected sentence reads as follows: "At the beginning of the research periods (the first 2 d), the basal DMI for cows in different treatments varied between 17.9 to 21.1 kg/d and the water intake varied between 56.7 to 69.9 kg/d."

The corrected Table 6 is shown below. Data in the water intake row were updated.

The authors regret the error.

REFERENCES

Zhou, M., A. J. A. Aarnink, T. T. T. Huynh, I. D. E. van Dixhoorn, and P. W. G. Groot Koerkamp. 2022. Effects of increasing air temperature on physiological and productive responses of dairy cows at different relative humidity and air velocity levels. J. Dairy Sci. 105(2):1701–1716. https://doi.org/10.3168/jds.2021-21164.

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Table 6. Linear regression between DMI (kg/d), water intake (kg/d), milk yield (kg/milking), protein yield (kg/milking), fat yield (kg/milking), and ambient temperature (means ± SEM)

			Treatment[2]				
Dependent variable	Milking time	Item[1]	I (RH_l-AV_l) n = 4	II (RH_m-AV_l) n = 4	III (RH_h-AV_l) n = 4	IV (RH_m-AV_m) n = 3	V (RH_m-AV_h) n = 4
DMI		Baseline	17.9 ± 0.53	20.5 ± 0.37	18.8 ± 0.29	21.1 ± 0.64	18.3 ± 0.39
		Slope	−0.003 ± 0.065	−0.14 ± 0.076	−0.14 ± 0.045	−0.10 ± 0.072	−0.023 ± 0.065
		Slope *P*-value	NS[3]	0.079	<0.01	NS	NS
Water intake		Baseline	56.9 ± 3.29	69.9 ± 3.32	56.7 ± 2.45	65.4 ± 4.97	63.8 ± 7.31
		Slope	0.38 ± 0.58	1.61 ± 0.71	0.63 ± 0.26	2.24 ± 1.04	1.25 ± 0.31
		Slope *P*-value	NS	<0.05	<0.05	<0.05	<0.001
Milk yield	am	Baseline	11.6 ± 0.48	15.1 ± 0.75	12.8 ± 0.26	14.2 ± 0.21	13.1 ± 0.35
		Slope	0.018 ± 0.046	0.041 ± 0.053	0.039 ± 0.049	−0.008 ± 0.040	0.076 ± 0.039
		Slope *P*-value	NS	NS	NS	NS	0.058
	pm	Baseline	9.3 ± 0.46	12.3 ± 0.62	10.4 ± 0.19	11.2 ± 0.16	10.7 ± 0.38
		Slope	0.021 ± 0.063	−0.016 ± 0.060	−0.020 ± 0.038	0.025 ± 0.035	−0.004 ± 0.037
		Slope *P*-value	NS	NS	NS	NS	NS
Protein yield	am	Baseline	0.45 ± 0.015	0.52 ± 0.019	0.50 ± 0.009	0.52 ± 0.007	0.48 ± 0.009
		Slope	−0.001 ± 0.002	−0.001 ± 0.002	−0.001 ± 0.002	−0.002 ± 0.001	0.001 ± 0.001
		Slope *P*-value	NS	NS	NS	NS	NS
	pm	Baseline	0.35 ± 0.015	0.42 ± 0.016	0.39 ± 0.006	0.40 ± 0.006	0.37 ± 0.011
		Slope	−0.000 ± 0.002	−0.003 ± 0.002	−0.003 ± 0.001	−0.001 ± 0.001	−0.002 ± 0.001
		Slope *P*-value	NS	NS	<0.05	NS	NS
Fat yield	am	Baseline	0.60 ± 0.013	0.70 ± 0.030	0.68 ± 0.025	0.75 ± 0.010	0.62 ± 0.030
		Slope	−0.003 ± 0.003	−0.004 ± 0.005	−0.003 ± 0.004	−0.004 ± 0.001	0.001 ± 0.003
		Slope *P*-value	NS	NS	NS	<0.05	NS
	pm	Baseline	0.54 ± 0.018	0.65 ± 0.034	0.62 ± 0.026	0.65 ± 0.011	0.57 ± 0.024
		Slope	−0.002 ± 0.003	−0.005 ± 0.004	−0.006 ± 0.003	−0.003 ± 0.002	−0.005 ± 0.002
		Slope *P*-value	NS	NS	<0.05	0.055	0.066

[1]Baseline represents the values calculated from first 2 research days; slope represents the regression coefficient for different variables with relationship of ambient temperature; slope *P*-value shows the significance level that the slope differs from zero.

[2]Treatment levels: RH_l: 30%; RH_m: 45%; RH_h: 60%; AV_l: 0.1 m/s; AV_m: 1.0 m/s; AV_h: 1.5 m/s. RH = relative humidity; AV = air velocity; l = low; m = medium; h = high.

[3]NS: $P \geq 0.10$.