

**Table 1.** The effect of Honamli goat GH1 genotypes on live weights ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=29)	AB (n=121)	BB (n=0)	
LW <sup>90</sup>	23.7±0.47	24.1±0.24	-	0.442
LW <sup>120</sup>	28.2±0.54	28.2±0.27	-	0.981
LW <sup>180</sup>	38.9±0.82	38.3±0.41	-	0.531
LW <sup>365</sup>	41.5±1.20	41.2±0.58	-	0.829

LW: live weight

**Table 2.** The effect of Hair goat GH1 genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=22)	AB (n=128)	BB (n=0)	
LW <sup>90</sup>	18.4±0.45	18.2±0.24	-	0.673
LW <sup>120</sup>	20.5±0.43	20.6±0.23	-	0.896
LW <sup>180</sup>	26.4±0.65	26.7±0.35	-	0.653
LW <sup>365</sup>	27.2±0.87	27.4±0.46	-	0.872

LW: live weight

**Table 3.** The effect of Honamli and Hair goats GH1 genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=51)	AB (n=249)	BB (n=0)	
LW <sup>90</sup>	20.9±0.32	21.1±0.17	-	0.505
LW <sup>120</sup>	24.1±0.35	24.3±0.18	-	0.553
LW <sup>180</sup>	32.2±0.53	32.4±0.27	-	0.691
LW <sup>365</sup>	33.5±0.80	34.2±0.40	-	0.424

LW: live weight

**Table 4.** The effect of Honamli goat GH1 genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=29)	AB (n=121)	BB (n=0)	
BL <sup>90</sup>	63.0±0.52	63.5±0.26	-	0.442
HW <sup>90</sup>	62.6±0.42	62.9±0.21	-	0.442
HR <sup>90</sup>	62.4±0.44	62.7±0.22	-	0.442
CC <sup>90</sup>	63.1±0.40	63.5±0.20	-	0.442
BL <sup>120</sup>	65.6±0.59	65.9±0.30	-	0.635
HW <sup>120</sup>	64.4±0.48	64.9±0.24	-	0.325
HR <sup>120</sup>	64.7±0.54	65.3±0.27	-	0.359
CC <sup>120</sup>	66.7±0.46	67.1±0.23	-	0.379
BL <sup>180</sup>	75.5±0.77	75.0±0.39	-	0.531
HW <sup>180</sup>	72.0±0.56	71.6±0.28	-	0.531
HR <sup>180</sup>	73.5±0.61	73.1±0.31	-	0.531
CC <sup>180</sup>	76.3±0.56	75.9±0.28	-	0.531
BL <sup>365</sup>	78.5±1.01	78.3±0.49	-	0.829
HW <sup>365</sup>	76.4±0.80	76.2±0.38	-	0.829
HR <sup>365</sup>	77.5±0.83	77.3±0.40	-	0.829
CC <sup>365</sup>	79.4±0.83	79.2±0.40	-	0.829

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 5.** The effect of Hair goat GH1 genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=22)	AB (n=128)	BB (n=0)	
BL <sup>90</sup>	57.2±0.49	57.0±0.26	-	0.673
HW <sup>90</sup>	57.8±0.40	57.6±0.21	-	0.673
HR <sup>90</sup>	57.4±0.42	57.2±0.22	-	0.673
CC <sup>90</sup>	58.7±0.38	58.5±0.20	-	0.673
BL <sup>120</sup>	58.9±0.52	58.8±0.28	-	0.828
HW <sup>120</sup>	59.5±0.45	59.1±0.24	-	0.375
HR <sup>120</sup>	59.6±0.46	59.1±0.25	-	0.341
CC <sup>120</sup>	61.7±0.42	61.6±0.22	-	0.812
BL <sup>180</sup>	63.8±0.61	64.1±0.33	-	0.653
HW <sup>180</sup>	63.4±0.44	63.6±0.24	-	0.653
HR <sup>180</sup>	64.3±0.48	64.5±0.26	-	0.653
CC <sup>180</sup>	67.9±0.44	68.1±0.23	-	0.653
BL <sup>365</sup>	66.6±0.73	66.7±0.38	-	0.872
HW <sup>365</sup>	66.9±0.58	67.0±0.30	-	0.872
HR <sup>365</sup>	67.7±0.60	67.8±0.31	-	0.872
CC <sup>365</sup>	69.6±0.60	69.7±0.32	-	0.872

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 6.** The effect of Honamli and Hair goats GH1 genotypes on linear body measurements\*  
 $(\bar{x} \pm S_{\bar{x}})$

Trait	Genotype (Mean±SE)			p-value
	AA (n=51)	AB (n=249)	BB (n=0)	
BL <sup>90</sup>	60.0±0.35	60.2±0.18	-	0.505
HW <sup>90</sup>	60.1±0.29	60.3±0.15	-	0.505
HR <sup>90</sup>	59.8±0.30	60.0±0.15	-	0.505
CC <sup>90</sup>	60.8±0.27	61.0±0.14	-	0.505
BL <sup>120</sup>	62.1±0.39	62.3±0.20	-	0.725
HW <sup>120</sup>	61.8±0.33	62.0±0.17	-	0.553
HR <sup>120</sup>	62.0±0.36	62.2±0.18	-	0.534
CC <sup>120</sup>	64.0±0.31	64.3±0.16	-	0.325
BL <sup>180</sup>	69.2±0.49	69.4±0.26	-	0.691
HW <sup>180</sup>	67.4±0.36	67.5±0.19	-	0.691
HR <sup>180</sup>	68.6±0.39	68.8±0.20	-	0.691
CC <sup>180</sup>	71.8±0.36	71.9±0.18	-	0.691
BL <sup>365</sup>	71.9±0.67	72.4±0.33	-	0.424
HW <sup>365</sup>	71.1±0.53	71.6±0.26	-	0.424
HR <sup>365</sup>	72.0±0.55	72.5±0.27	-	0.424
CC <sup>365</sup>	73.9±0.56	74.4±0.28	-	0.424

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 7.** The effect of Honamli goat POU1F1 genotypes on live weights \* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	CC (n=0)	TC (n=11)	TT (n=139)	
LW <sup>90</sup>	-	23.9±0.73	24.0±0.23	0.889
LW <sup>120</sup>	-	27.4±0.84	28.2±0.26	0.308
LW <sup>180</sup>	-	36.6±1.27	38.6±0.40	0.141
LW <sup>365</sup>		38.5±1.75	41.5±0.56	0.106

LW: live weight

**Table 8.** The effect of Hair goat POU1F1 genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	CC (n=0)	TC (n=14)	TT (n=136)	
LW <sup>90</sup>	-	18.4±0.57	18.2±0.23	0.750
LW <sup>120</sup>	-	20.9±0.55	20.6±0.22	0.599
LW <sup>180</sup>	-	27.1±0.82	26.6±0.34	0.594
LW <sup>365</sup>	-	27.1±1.09	27.4±0.44	0.827

LW: live weight

**Table 9.** The effect of Honamli and Hair goats POU1F1 genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	CC (n=0)	TC (n=25)	TT (n=275)	
LW <sup>90</sup>	-	21.3±0.45	21.1±0.16	0.546
LW <sup>120</sup>	-	24.3±0.49	24.3±0.17	0.957
LW <sup>180</sup>	-	32.0±0.74	32.4±0.26	0.606
LW <sup>365</sup>	-	32.6±1.08	34.2±0.38	0.156

LW: live weight

**Table 10.** The effect of Honamli goat POU1F1 genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	CC (n=0)	TC (n=11)	TT (n=139)	
BL <sup>90</sup>	-	63.3±0.80	63.4±0.25	0.889
HW <sup>90</sup>	-	62.8±0.66	62.9±0.21	0.889
HR <sup>90</sup>	-	62.6±0.69	62.7±0.22	0.889
CC <sup>90</sup>	-	63.3±0.62	63.4±0.19	0.889
BL <sup>120</sup>	-	65.6±0.92	65.8±0.29	0.822
HW <sup>120</sup>	-	64.8±0.74	64.8±0.23	0.967
HR <sup>120</sup>	-	65.1±0.84	65.2±0.26	0.968
CC <sup>120</sup>	-	66.8±0.71	67.1±0.22	0.665
BL <sup>180</sup>	-	73.4±1.19	75.2±0.37	0.141
HW <sup>180</sup>	-	70.4±0.86	71.7±0.27	0.141
HR <sup>180</sup>	-	71.9±0.94	73.3±0.30	0.141
CC <sup>180</sup>	-	74.8±0.86	76.1±0.27	0.141
BL <sup>365</sup>	-	76.1±1.47	78.5±0.47	0.106
HW <sup>365</sup>	-	74.4±1.16	76.4±0.37	0.106
HR <sup>365</sup>	-	75.5±1.20	77.5±0.38	0.106
CC <sup>365</sup>	-	77.4±1.21	79.4±0.39	0.106

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 11.** The effect of Hair goat POU1F1 genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	CC (n=0)	TC (n=14)	TT (n=136)	
BL <sup>90</sup>	-	57.2±0.62	57.0±0.25	0.750
HW <sup>90</sup>	-	57.8±0.51	57.7±0.21	0.750
HR <sup>90</sup>	-	57.4±0.53	57.2±0.22	0.750
CC <sup>90</sup>	-	58.7±0.48	58.5±0.20	0.750
BL <sup>120</sup>	-	59.2±0.66	58.7±0.27	0.506
HW <sup>120</sup>	-	60.2±0.57	59.0±0.23	0.056
HR <sup>120</sup>	-	60.0±0.58	59.1±0.24	0.131
CC <sup>120</sup>	-	61.5±0.53	61.6±0.22	0.849
BL <sup>180</sup>	-	64.4±0.77	64.0±0.32	0.594
HW <sup>180</sup>	-	63.9±0.56	63.6±0.23	0.594
HR <sup>180</sup>	-	64.8±0.61	64.4±0.25	0.594
CC <sup>180</sup>	-	68.3±0.56	68.0±0.23	0.594
BL <sup>365</sup>	-	66.5±0.92	66.7±0.37	0.827
HW <sup>365</sup>	-	66.9±0.72	67.0±0.29	0.827
HR <sup>365</sup>	-	67.6±0.75	67.8±0.30	0.827
CC <sup>365</sup>	-	69.5±0.76	69.7±0.31	0.827

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 12.** The effect of Honamli and Hair goats POU1F1 genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	CC (n=0)	TC (n=25)	TT (n=275)	
BL <sup>90</sup>	-	60.5±0.49	60.2±0.17	0.546
HW <sup>90</sup>	-	60.5±0.40	60.2±0.14	0.546
HR <sup>90</sup>	-	60.2±0.42	59.9±0.15	0.546
CC <sup>90</sup>	-	61.2±0.38	60.9±0.13	0.546
BL <sup>120</sup>	-	62.7±0.55	62.2±0.19	0.426
HW <sup>120</sup>	-	62.6±0.46	61.9±0.16	0.127
HR <sup>120</sup>	-	62.6±0.50	62.1±0.18	0.287
CC <sup>120</sup>	-	64.4±0.43	64.2±0.15	0.727
BL <sup>180</sup>	-	69.1±0.69	69.4±0.25	0.606
HW <sup>180</sup>	-	67.3±0.51	67.5±0.18	0.606
HR <sup>180</sup>	-	68.5±0.55	68.7±0.19	0.606
CC <sup>180</sup>	-	71.7±0.50	71.9±0.18	0.606
BL <sup>365</sup>	-	71.1±0.91	72.5±0.32	0.156
HW <sup>365</sup>	-	70.5±0.72	71.6±0.25	0.156
HR <sup>365</sup>	-	71.4±0.74	72.5±0.26	0.156
CC <sup>365</sup>	-	73.3±0.75	74.4±0.27	0.156

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 13.** The effect of Honamli goat MSTN genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=49)	AB (n=70)	BB (n=31)	
LW <sup>90</sup>	24.2±0.36	24.0±0.30	23.8±0.46	0.819
LW <sup>120</sup>	28.3±0.41	28.0±0.35	28.4±0.53	0.708
LW <sup>180</sup>	38.5±0.62	38.1±0.52	39.4±0.80	0.340
LW <sup>365</sup>	41.9±0.88	40.4±0.73	42.4±1.13	0.214

LW: live weight

**Table 14.** The effect of Hair goat MSTN genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=73)	AB (n=68)	BB (n=9)	
LW <sup>90</sup>	18.4±0.29	18.1±0.28	18.4±0.69	0.577
LW <sup>120</sup>	20.7±0.28	20.4±0.27	20.8±0.66	0.647
LW <sup>180</sup>	26.9±0.42	26.4±0.40	26.9±1.00	0.603
LW <sup>365</sup>	27.6±0.55	27.0±0.53	28.2±1.25	0.517

LW: live weight

**Table 15.** The effect of Honamli and Hair goats MSTN genotypes on live weights\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=122)	AB (n=138)	BB (n=40)	
LW <sup>90</sup>	21.3±0.22	21.0±0.20	21.0±0.38	0.573
LW <sup>120</sup>	24.4±0.24	24.1±0.22	24.6±0.41	0.455
LW <sup>180</sup>	32.5±0.36	32.1±0.33	33.2±0.62	0.221
LW <sup>365</sup>	34.5±0.53	33.5±0.49	35.1±0.91	0.185

LW: live weight

**Table 16.** The effect of Honamli goat MSTN genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=49)	AB (n=70)	BB (n=31)	
BL <sup>90</sup>	63.5±0.39	63.4±0.33	63.2±0.50	0.819
HW <sup>90</sup>	63.0±0.32	62.8±0.27	62.7±0.41	0.819
HR <sup>90</sup>	62.8±0.33	62.7±0.28	62.5±0.43	0.819
CC <sup>90</sup>	63.5±0.30	63.4±0.25	63.2±0.39	0.819
BL <sup>120</sup>	65.9±0.45	65.8±0.38	65.7±0.58	0.963
HW <sup>120</sup>	65.1±0.36	64.6±0.30	64.7±0.46	0.528
HR <sup>120</sup>	65.5±0.41	64.9±0.34	65.2±0.53	0.536
CC <sup>120</sup>	67.2±0.34	67.0±0.29	66.9±0.44	0.780
BL <sup>180</sup>	75.1±0.58	74.7±0.49	76.0±0.75	0.340
HW <sup>180</sup>	71.7±0.42	71.4±0.36	72.3±0.54	0.340
HR <sup>180</sup>	73.3±0.46	72.9±0.39	73.9±0.59	0.340
CC <sup>180</sup>	76.1±0.42	75.8±0.35	76.7±0.54	0.340
BL <sup>365</sup>	78.9±0.74	77.6±0.61	79.3±0.95	0.214
HW <sup>365</sup>	76.6±0.59	75.7±0.49	77.0±0.75	0.214
HR <sup>365</sup>	77.8±0.61	76.7±0.50	78.1±0.78	0.214
CC <sup>365</sup>	79.7±0.61	78.7±0.51	80.1±0.78	0.214

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 17.** The effect of Hair goat MSTN genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=73)	AB (n=68)	BB (n=9)	
BL <sup>90</sup>	57.3±0.31	56.9±0.30	57.2±0.76	0.577
HW <sup>90</sup>	57.8±0.26	57.5±0.25	57.8±0.62	0.577
HR <sup>90</sup>	57.4±0.27	57.1±0.26	57.4±0.65	0.577
CC <sup>90</sup>	58.7±0.24	58.4±0.23	58.7±0.58	0.577
BL <sup>120</sup>	58.8±0.33	58.7±0.32	59.1±0.80	0.877
HW <sup>120</sup>	59.2±0.29	59.0±0.28	59.8±0.70	0.534
HR <sup>120</sup>	59.3±0.30	59.1±0.29	59.8±0.71	0.505
CC <sup>120</sup>	61.6±0.27	61.5±0.26	61.8±0.65	0.798
BL <sup>180</sup>	64.2±0.39	63.8±0.38	64.3±0.94	0.603
HW <sup>180</sup>	63.8±0.28	63.4±0.28	63.8±0.68	0.603
HR <sup>180</sup>	64.6±0.31	64.3±0.30	64.7±0.74	0.603
CC <sup>180</sup>	68.2±0.28	67.9±0.27	68.2±0.68	0.603
BL <sup>365</sup>	66.9±0.46	66.5±0.44	67.4±1.04	0.517
HW <sup>365</sup>	67.2±0.37	66.8±0.35	67.6±0.83	0.517
HR <sup>365</sup>	68.0±0.38	67.6±0.36	68.4±0.86	0.517
CC <sup>365</sup>	69.8±0.38	69.4±0.37	70.3±0.87	0.517

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference

**Table 18.** The effect of Honamli and Hair goats MSTN genotypes on linear body measurements\* ( $\bar{x} \pm S_{\bar{x}}$ )

Trait	Genotype (Mean±SE)			p-value
	AA (n=122)	AB (n=138)	BB (n=40)	
BL <sup>90</sup>	60.4±0.24	60.1±0.22	60.1±0.41	0.573
HW <sup>90</sup>	60.4±0.20	60.1±0.18	60.1±0.34	0.573
HR <sup>90</sup>	60.1±0.21	59.8±0.19	59.8±0.35	0.573
CC <sup>90</sup>	61.1±0.18	60.8±0.17	60.8±0.32	0.573
BL <sup>120</sup>	62.3±0.27	62.2±0.25	62.3±0.46	0.969
HW <sup>120</sup>	62.1±0.22	61.8±0.21	62.1±0.38	0.470
HR <sup>120</sup>	62.4±0.24	61.9±0.22	62.3±0.42	0.304
CC <sup>120</sup>	64.3±0.21	64.2±0.19	64.2±0.36	0.820
BL <sup>180</sup>	69.6±0.34	69.1±0.31	70.1±0.58	0.221
HW <sup>180</sup>	67.6±0.25	67.3±0.23	68.1±0.42	0.221
HR <sup>180</sup>	68.8±0.27	68.5±0.25	69.3±0.46	0.221
CC <sup>180</sup>	72.0±0.24	71.7±0.22	72.5±0.42	0.221
BL <sup>365</sup>	72.7±0.44	71.9±0.41	73.2±0.76	0.185
HW <sup>365</sup>	71.7±0.35	71.1±0.33	72.1±0.60	0.185
HR <sup>365</sup>	72.7±0.36	72.0±0.34	73.1±0.62	0.185
CC <sup>365</sup>	74.6±0.37	73.9±0.34	75.0±0.63	0.185

BL: body length, HW: height at withers, HR: height at rump, CC: chest circumference