

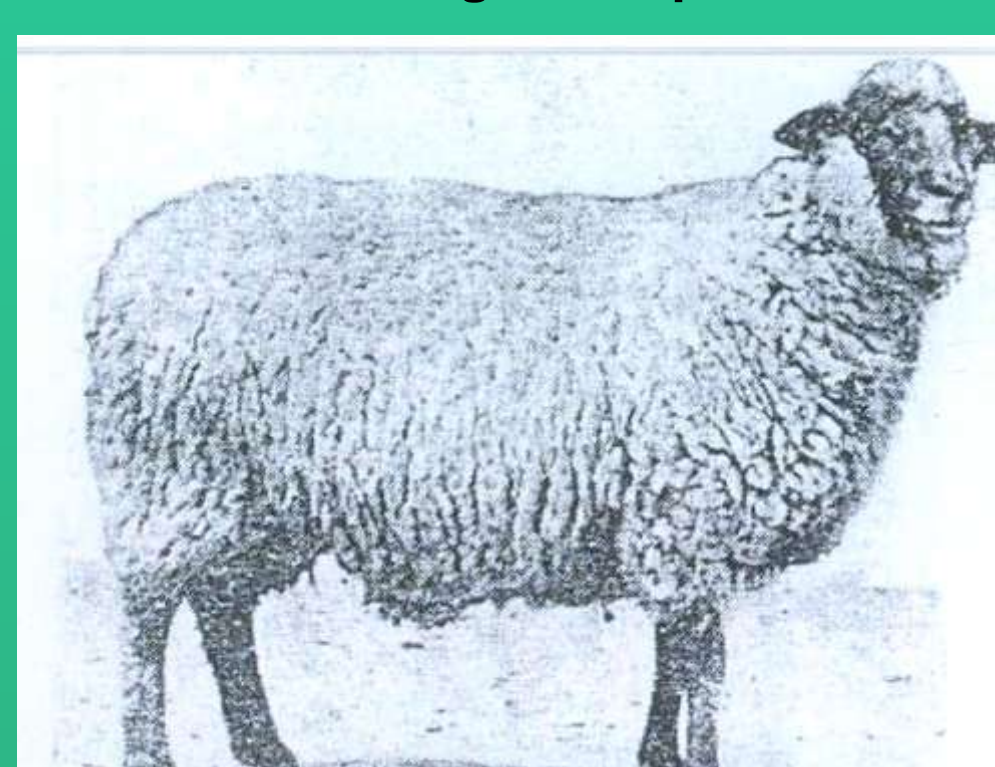
INVESTIGATIONS CONCERNING THE MORPHOLOGICAL TRAITS OF THE KARABASH SHEEP COMPARED TO TSIGAI SHEEP

Calea Bucuresti nr.1, 077015 Balotesti, Ilfov, Romania, e-mail: secretariat@ibna.ro

Results and discussion

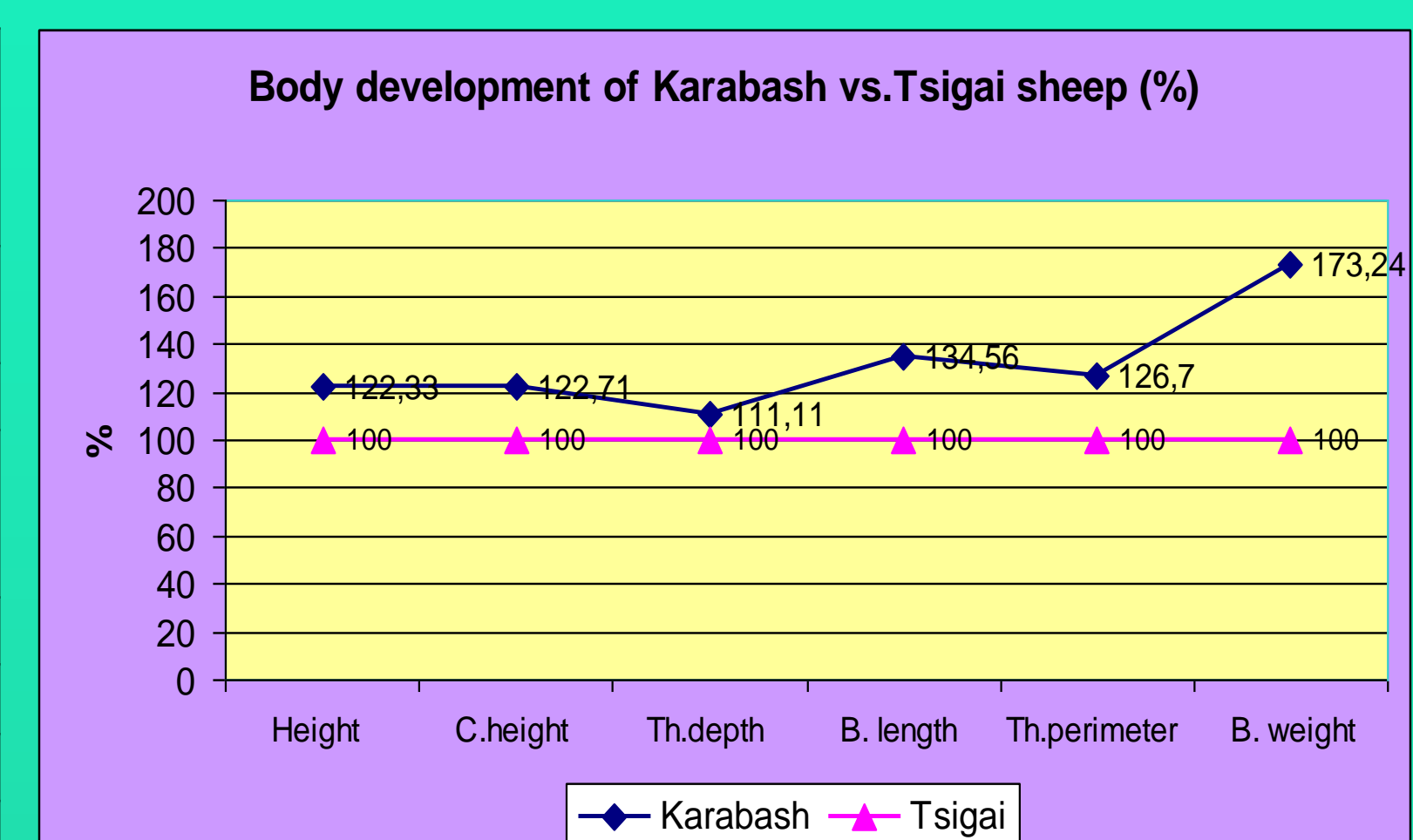
Material and Methods

A black and white photograph of a sheep standing in a field. The sheep has a thick, light-colored woolly coat and a dark face. It is standing on a dark, possibly muddy or grassy ground. In the background, there is a line of trees and a fence.

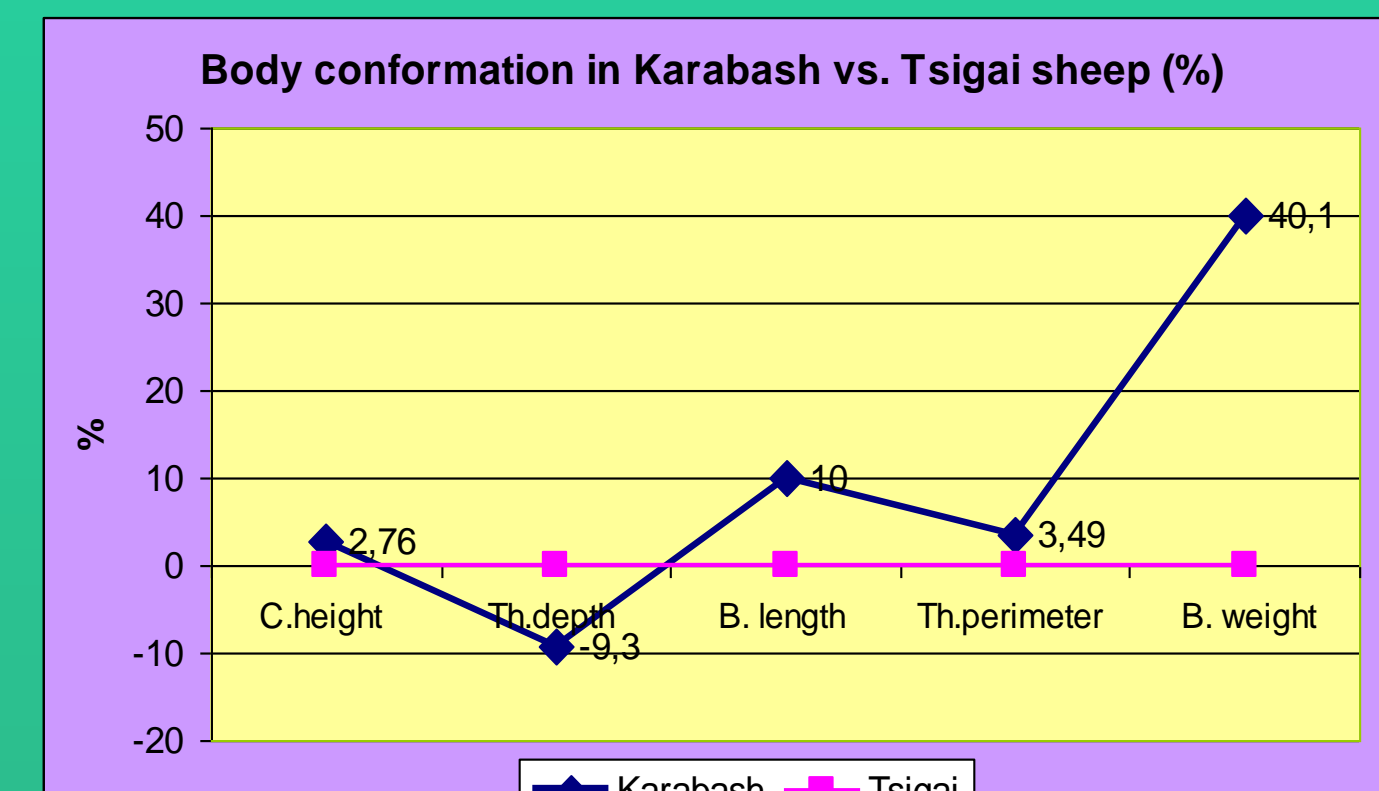


	Măldăieni			INCDBNA			Călinești					
	n = 98		n = 22		n = 44		n = 58					
	$\bar{X} \pm S_{\bar{X}}$	cv%	$\bar{X} \pm S_{\bar{X}}$	cv%	$\bar{X} \pm S_{\bar{X}}$	cv%	$\bar{X} \pm S_{\bar{X}}$	cv%				
Body weight (kg)	78.77	0.67	8.47	76.31	1.39	8.54	58.01	1.33	15.32	79.29	1.41	13.61
Withers height (cm)	76.58	0.38	5.02	74.31	0.91	5.74	71.22	0.42	3.93	75.74	0.30	3.03
Croup height (cm)	77.35	0.38	4.91	76.81	0.54	3.35	71.88	0.43	4.02	76.70	0.28	2.81
Oblique body length (cm)	86.11	0.39	4.55	86.81	0.77	4.18	73.65	0.50	4.50	88.39	0.73	6.29
Thorax depth (cm)	38.07	0.25	6.52	37.59	0.43	5.48	32.93	0.22	4.54	36.06	0.35	7.39
Thorax width (cm)	21.41	0.16	7.55	25.40	0.57	10.63	19.54	0.28	9.46	22.24	0.24	8.30
Croup length (cm)	25.40	0.17	6.91	27.40	0.47	8.17	24.17	0.15	4.30	25.67	0.23	7.01
Croup width (cm)	23.81	0.21	8.74	25.77	0.47	8.62	19.12	0.23	8.13	21.29	0.26	9.47
Thorax perimeter (cm)	107.89	0.61	5.67	109.68	1.08	4.65	89.59	0.88	6.52	98.08	0.76	5.97
Foot perimeter (cm)	9.73	0.06	6.84	9.68	0.19	9.23	9.11	0.09	6.88	10.82	0.13	9.65
Head length (cm)	25.95	0.13	5.09	29.27	0.51	8.31	23.37	0.20	5.78	26.58	0.16	4.83
Ear length (cm)	13.79	0.12	9.24	16.86	0.35	9.90	15.57	0.16	6.88	19.32	0.17	6.81

Breed	Height (cm)	Croup height (cm)	Thorax depth (cm)	Oblique body length (cm)	Thorax perimeter (cm)	Body weight (kg)
Karabash Mavrodin	76.3	77.7	32.7	87.9	101.4	61
Tsigai, Trestia	62.37	63.32	29.43	65.32	80.03	35.2
Difference Karabash/Tsigai (%)	122.33	122.71	111.11	134.56	126.7	173.24
Tsigai, Palas	62.40	63.60	30.00	67.2	91.70	50.0
Tsigai, R. Sàrat	59.52	61.13	29.6	72.53	84.39	39.41
Tsigai, Slobozia	66.0	-	30	68.4	85.40	42.20
Tsigai, Rușetu	66.75	67.75	31.17	70.20	88.10	43.5



Breed	Height	Croup height (cm)	Thorax depth (cm)	Oblique body length(cm)	Thorax perimeter (cm)	Body weight(kg)
Karabash. Mavrodin	100	101.8	42.8	115.2	132.8	78.6
Tsigaï. Trestia	100	101.52	47.18	104.72	128.31	56.11
Difference Karabash/ Tsigaï (%)	-	+ 2.76	- 9.3	+ 10.0	+ 3.49	+ 40.1
Tsigaï. Palas	100	101.92	48.07	108.32	149.53	-
Tsigaï. R. Sârat	100	102.7	49.7	121.85	141.78	-
Tsigaï. Slobozia	100	-	45.60	103.63	129.39	-
Tsigaï. Rușetu	100	101.54	46.71	105.21	132.04	65.19



Karabash lambs

Conclusions

- Development and body conformation are important breed traits and indicators of the meat production. Our investigations aimed to determine the type of conformation and development of Karabash sheep vs. Tsigai sheep.
- Karabash sheep are larger than Tsigai sheep in all surveyed traits, which shows that they are hypermetric, while Tsigai sheep are eumetric.
- The differences in development are not the same or close in all body dimensions, which suggests that conformation differences exist between the two breeds. There was a large variability of body size between the Karabash herds under investigation, which can be accounted by the lack of centralised management and selection methodology. Karabash sheep are taller standing, are taller at croup height and have larger thorax perimeter than Tsigai sheep.
- All this suggests that Karabash sheep have dolicomorph conformation, while Tsigai sheep have mesomorph conformation.