

CAVICORNIA.

BOVINA.

(Plates 73 and 74; plate 78, figs. 1-4, and 7; plate 81, fig. 1; plate 83, fig. 1; plate 85; text-fig. 490.)

Bos namadicus Falconer & Cautley (*Bos macroceros* Duerst) or the Asiatic form of the urus (*Bos primigenius* Bojanus).

The remains of this bovid are also not very complete, but next to those of the sheep and the fox they are certainly the best of the bone fragments. They at least answer the requirements for the exact determination of the species present and are sufficient for the reconstruction of the skeletons. Among the 68 fragments of parts of the skull, trunk and extremity bones, the most remarkable pieces are two proximal ends of the radius with the corresponding olecranon of the ulna, Nos. 13 to 18. Both bones show old fractures, about 10 cm. below the articulations, and the ulna, No. 13, has distinct traces of gnawing, probably by human teeth. The dimensions of these bone fragments compared with the homogeneous bones of other animals are given (in millimeters) in the following table of dimensions:

	Radius.				Ulna.		
	Width of proximal end.	Diameter of proximal end.	Width of middle.	Diameter of middle.	Length of olecranon.	Least width of olecranon.	Height of sigmoid fossa.
North Kurgan, Anau { - 24 feet....	101	48	51	33	...	..	..
{ - 20 feet....	96	49	52	33	140?	64	45
<i>Bos primigenius</i> { after David*....	99	..	..	..	146	77	50
{ after Rütimeyer..	103	..	..	..	152	84	53
Egyptian Apis, Paris Mus.....	89	30	48	20	...	..	..
<i>Bubalus arnee</i> , No. 6707, Paris Mus...	78	28	40	22	...	..	..
<i>Equus caballus</i> (Clydesdale)....	92	..	43	..	130	..	..

	Metacarpus.			
	Width of distal end.	Diameter of distal end.	Width of middle.	Diameter of middle.
North Kurgan, Anau, - 20 feet.....	70	36	37	26
<i>Bos primigenius</i> , after Tscherski.....	76.5	37	51	35
Egyptian Apis, Paris Mus.....	70	37	38	27
<i>Bubalus arnee</i> , No. 6707, Paris Mus...	67	34	35	23
<i>Bos taurus</i> , Paris Mus.....	68	42	46	32
<i>Bubalus bairdii</i> , Ambolisatra.....	92	45	62	36

* David, A., Beiträge zur Kenntnis der Abstammung des Hausrinds. Landw. Jahrbuch der Schweiz, Bern, 1897, p. 134.

It is easy to observe that the dimensions of the subfossil bones from Anau greatly exceed those of the corresponding bones of one of the greatest modern horses and closely approach the bones of *Bos primigenius* of the ancient European culture-strata. It is not probable, considering the remains we find in the later periods of the kurgan, that the first inhabitants of Anau hunted a gigantic wild horse or had a horse of the size of a Clydesdale or a Percheron; and there can be no doubt that the bones mentioned belonged to a large bovine animal. Another extremity bone, a metacarpus medius, No. 121, confirms this conclusion. Marked