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MEASUREMENT OF THE FORMOSAN BUFFALO.

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臺灣水牛の體則に就て

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臺灣恒春種畜牧場

During my extended travels through the Philippine Islands in 1912 and 1913, I saw a great many carabaos or water buffaloes there, especially in the islands of Mindanao and Luzon. Except the Mindoro timarau, which I had no chance to see, most of the native buffaloes seemed to be identical with our Formosan breed, that is *Bubalus buffelus* var. *sondaica* Müller et Schlegel¹⁾. In size, however, they were generally larger than ours. The measurement was done after the method of Werner.²⁾

1) Werner's Rinderzucht. II. Aufl. S. 6.

2) J. c. S. 144.

Name	BUFFALO-COWS OF FORMOSA					Total	Average
	Tsune-izumi	Singetsu	Tsune-aki	Koshun	Koshun VI		
	13	8	12	6	6		
Years old	July 20, 1914	July 20, 1914	July 20, 1914	July 20, 1914	July 20, 1914		
Date of measurement	120.5	120.0	120.5	122.0	123.8	606.8	121.4
Height at withers	122.5	121.4	123.7	119.5	125.0	612.1	122.4
Height at chine	126.0	123.4	123.2	124.0	126.3	622.9	124.6
Height at croup	121.5	115.7	116.4	113.6	115.0	582.2	116.4
Height at setting of tail	70.0	71.0	72.5	65.0	70.0	348.5	69.7
Depth of chest	31.0	28.0	31.5	32.0	33.0	155.5	31.1
Height at knee	46.0	44.0	45.0	42.5	45.0	222.5	44.5
Height at hock	64.3	64.5	63.5	68.0	68.0	328.3	65.7
Height at elbow	101.4	96.5	99.0	101.2	103.5	501.6	100.3
Height at thigh-joint	165.4	166.0	179.5	169.2	173.0	853.1	170.6
Length from poll to tail	139.0	134.3	135.5	124.0	137.0	669.8	134.0
Length from shoulder joint to pin bone....	47.5	44.4	46.0	45.0	47.0	229.9	46.0
Length of shoulder	44.0	38.5	47.0	45.5	46.5	221.5	44.3
Length of pelvis	31.5	30.0	29.5	28.5	30.5	150.0	30.0
Length of loin	48.0	42.0	40.0	41.0	42.0	213.0	42.6
Breadth of forchest	45.0	39.0	43.0	43.0	46.0	216.0	43.2
Breach of hindchest	179.0	183.0	183.0	182.0	183.0	910.0	182.0
Girth of hindchest	44.0	44.5	48.2	50.0	46.0	232.7	46.5
Breadth of pelvis	55.2	53.5	54.0	54.0	59.0	275.7	55.1
Breadth between hips	26.5	28.0	25.0	28.0	27.0	134.5	26.9
Breadth between pin bones	21.0	21.5	20.5	23.0	21.0	107.0	21.4
Girth of shank	46.0	47.0	49.0	48.0	49.0	239.0	47.8
Length of head	20.0	21.0	22.0	21.5	21.0	105.5	21.1
Length of forehead	19.0	17.0	19.0	18.5	20.0	93.5	18.7
Breadth of upper forehead	20.0	20.0	21.0	21.0	21.0	103.0	20.6
Breadth of lower forehead	18.0	17.0	19.0	18.0	17.0	89.0	17.8
Narrowest breadth of forehead	51.0	51.0	41.0	47.0	51.0	241.0	48.2
Length of horn	67.0	65.0	69.5	63.0	69.0	333.5	66.7
Length of neck	451.5	415.5	445.9	407.6	437.5	2158.0	431.6
Live weight in kilogramms							

a) Ox, Castrated before 1908. b) Ox, Castrated in March

			BUFFALO-OXEN AND BULL OF FORMOSA									
Percent- age	Maxim.	Min.						Total.	Aver- age	Percent- age	Max.	Min.
			Garan-	Munsoo	Taihan-	Tamah	Gonteh					
			bi (a)	I (b	roku I(c	(d	(e					
			11	12	9	9	7					
			July 18,	July 18,	July 18,	July 18,	July 19,					
			1914	1914	1914	1914	1914					
100.0	123.8	120.0	123.5	134.2	127.0	127.5	124.5	636.7	127.3	100.0	134.2	123.5
100.8	125.0	119.5	128.8	132.5	125.8	130.0	124.5	641.6	128.3	100.8	132.5	124.5
102.6	126.3	123.2	126.2	132.5	126.5	128.0	125.0	638.2	127.6	100.2	132.5	125.0
95.9	121.5	113.6	124.5	121.0	122.0	121.0	113.5	602.0	120.4	94.6	124.5	113.5
57.4	72.5	65.0	76.5	81.0	71.0	75.0	72.0	375.5	75.1	59.0	81.0	71.0
25.6	33.0	28.0	34.0	37.0	34.0	34.5	31.0	170.5	34.1	26.8	37.0	31.9
36.7	46.0	42.5	47.0	46.8	49.0	48.5	47.0	238.3	47.7	37.5	49.0	46.8
54.1	68.0	63.5	70.0	73.1	70.0	68.0	66.0	347.1	69.4	54.5	73.1	66.0
82.6	103.5	96.5	102.7	106.3	102.5	103.0	105.7	520.2	104.0	81.7	106.3	102.5
140.5	179.5	165.4	178.5	195.5	175.3	186.3	178.0	913.6	182.7	143.5	195.5	175.3
110.4	139.0	124.0	140.0	150.0	143.5	143.5	138.7	715.7	143.1	112.4	150.0	138.7
37.9	47.5	44.4	51.0	54.5	48.5	51.0	51.0	256.0	51.2	40.2	54.5	48.5
36.5	47.0	38.5	50.0	46.0	45.0	47.0	50.0	238.0	47.6	37.4	50.0	45.0
24.7	31.5	28.5	29.2	30.0	34.0	35.0	29.5	157.7	31.5	24.7	35.0	29.2
35.1	48.0	40.0	45.2	49.0	37.0	44.0	45.0	220.2	44.0	34.6	49.0	37.0
35.6	46.0	39.0	46.5	54.0	39.0	48.0	43.5	231.0	46.2	36.3	54.0	39.0
149.9	183.0	179.0	188.0	201.0	179.0	194.0	185.0	947.0	189.4	148.8	201.0	179.0
38.3	50.0	44.0	47.5	46.5	44.0	48.0	44.5	230.5	46.1	36.2	48.0	44.0
45.4	59.0	53.5	55.2	61.0	52.0	56.5	53.0	277.7	55.5	43.6	61.0	52.0
22.2	28.0	25.0	25.0	28.0	26.5	27.0	27.0	133.5	26.7	21.0	28.0	25.0
17.6	23.0	20.5	22.0	23.5	21.5	23.0	21.5	111.5	22.3	17.5	23.5	21.5
39.4	49.0	46.0	49.0	53.0	49.0	48.5	50.0	249.5	49.9	39.2	53.0	48.5
17.4	22.0	20.0	21.0	23.0	23.0	21.0	21.0	109.0	21.8	17.1	23.0	21.0
15.4	20.0	17.0	19.0	18.0	21.0	17.5	20.0	95.5	19.1	15.0	21.0	17.5
17.0	21.0	20.0	23.3	24.0	22.0	22.5	22.5	114.3	22.9	18.0	24.0	22.0
14.7	19.0	17.0	19.0	17.5	19.0	18.5	18.5	92.5	18.5	14.5	19.0	17.5
39.7	51.0	41.0	61.0	61.0	55.5	62.0	57.0	296.5	59.3	46.6	62.0	55.5
54.9	69.5	63.0	69.0	81.0	71.0	76.0	74.0	371.0	74.2	58.3	81.0	69.0
	451.5	407.6	481.1	527.3	388.1	495.0	—	1891.5	472.9		527.3	388.1

1906. c) Ox, Castrated in March 1908. d) Ox, Castrated in March 1908. e) Bull.