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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 Schlegel ¹⁾. 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	Avera- ge
	Tsune-izumi	Singe-tsu	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			
Height at withers	120.5	120.0	120.5	122.0	123.8	606.8	121.4	
Height at chine	122.5	121.4	123.7	119.5	125.0	612.1	122.4	
Height at croup	126.0	123.4	123.2	124.0	126.3	622.9	124.6	
Height at setting of tail	121.5	115.7	116.4	113.6	115.0	582.2	116.4	
Depth of chest	70.0	71.0	72.5	65.0	70.0	348.5	69.7	
Height at knee	31.0	28.0	31.5	32.0	33.0	155.5	31.1	
Height at hock	46.0	44.0	45.0	42.5	45.0	222.5	44.5	
Height at elbow	64.3	64.5	63.5	68.0	68.0	328.3	65.7	
Height at thigh-joint	101.4	96.5	99.0	101.2	103.5	501.6	100.3	
Length from poll to tail	165.4	166.0	179.5	169.2	173.0	853.1	170.6	
Length from shoulder joint to pin bone....	139.0	134.3	135.5	124.0	137.0	669.8	134.0	
Length of shoulder	47.5	44.4	46.0	45.0	47.0	229.9	46.0	
Length of pelvis	44.0	38.5	47.0	45.5	46.5	221.5	44.3	
Length of loin	31.5	30.0	29.5	28.5	30.5	150.0	30.0	
Breadth of forchest	48.0	42.0	40.0	41.0	42.0	213.0	42.6	
Breachth of hindchest	45.0	39.0	43.0	43.0	46.0	216.0	43.2	
Girth of hindchest	179.0	183.0	183.0	182.0	183.0	910.0	182.0	
Breadth of pelvis	44.0	44.5	48.2	50.0	46.0	232.7	46.5	
Breadth between hips	55.2	53.5	54.0	54.0	59.0	275.7	55.1	
Breadth between pin bones	26.5	28.0	25.0	28.0	27.0	134.5	26.9	
Girth of shank	21.0	21.5	20.5	23.0	21.0	107.0	21.4	
Length of head	46.0	47.0	49.0	48.0	49.0	239.0	47.8	
Length of forehead	20.0	21.0	22.0	21.5	21.0	105.5	21.1	
Breadth of upper forehead	19.0	17.0	19.0	18.5	20.0	93.5	18.7	
Breadth of lower forehead	20.0	20.0	21.0	21.0	21.0	103.0	20.6	
Narrowest breadth of forehead	18.0	17.0	19.0	18.0	17.0	89.0	17.8	
Length of horn	51.0	51.0	41.0	47.0	51.0	241.0	48.2	
Length of neck	67.0	65.0	69.5	63.0	69.0	333.5	66.7	
Live weight in kilogramms	451.5	415.5	445.9	407.6	437.5	2158.0	431.6	

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- bi (a)	Munsoo I (b)	Taihan- roku I(c)	Tamah (d)	Gonteh (e)					
			11	12	9	9	7					
			July 18, 1914	July 18, 1914	July 18, 1914	July 18, 1914	July 19, 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.