

# CATALOGUE OF HUMAN CRANIA IN THE UNITED STATES NATIONAL MUSEUM COLLECTIONS

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This part has been prepared for the press since the end of 1924.

It brings data on six important groups of the North American Indians. The total number of skulls comprised is 1,350, subdivided as follows: The Algonkin and related Iroquois, 563 crania; the Siouan tribes, 285 crania; the Caddoes, 15 crania; the Salish and Sahaptin, 15 crania; the Shoshonean, 69 crania; and the Californians, 403 crania.

In the preparation of the part the author has been assisted by his aides, Dr. Paul Van Natta and Mr. Dale Stewart.

To make the data as serviceable as possible, which is the main object of the laborious and rather thankless task, the author's records on crania preserved in other institutions have also been included.

Some wishes have been voiced that additional measurements be given, on the face, palate, etc. These wishes have received earnest consideration, and it is hoped that they may to some extent at least be complied with in the future. To do so now is a physical impossibility.

It may be well to say here again that the object for publishing these detailed data and the justification of the expense involved in their publication is to make available to students in all lands reliable essentials on the rich collections of the United States National Museum, supplemented with such records on material in other institutions as the author has in the course of years been able to gather. Such data can not but be of substantial use in anthropological studies of every nature, above all in those on human variation.

The series are arranged throughout in ascending scale by the cephalic index. They give the size and shape of the vault, face, nose, and orbits, which comprises the first and indispensable information the student needs about every skull. Other measurements on the

<sup>1</sup> See also first section of this catalogue on the Mongolians, Eskimo, Aleuts, and Alaska Indians in the Proceedings of the U. S. National Museum, vol. 63, art. 12, published on March 14, 1924.

vault, face, and lower jaw are surely of value and might be of the utmost use to a given worker at a given time; these must receive attention as time and circumstances will permit.

Much of such additional data is already on hand and will be gladly furnished to workers who may need them, on application. Besides this, well-qualified students are earnestly invited to make all needed further use of the national collections in this line. They will be given all possible facilities and assistance.

ALEŠ HRDLIČKA.

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#### ABBREVIATIONS

- A. M. N. H.=American Museum of Natural History, New York.
- A. N. S. P.=Academy of Natural Sciences, Philadelphia.
- B. S. N. H.=Buffalo Society of Natural History.
- C. I. P.=Carnegie Institute, Pittsburgh.
- D. A. S.=Davenport Academy of Sciences, Iowa.
- F. M. N. H.=Field Museum of Natural History, Chicago.
- P. A.=Phillips Academy, Andover, Mass.
- P. M. C.=Peabody Museum, Cambridge, Mass.
- U. of C.=Museum of the University of California, San Francisco.
- U. S. N. M.=United States National Museum.
- V. M.=Valentine Museum, Richmond, Va.
- Wist. Inst.=Wistar Institute of Anatomy and Biology, Philadelphia.



## ALGONKINS AND IROQUOIS

*Huron Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxin. (glabella ad maximum)	Diam. lateral maxin.	Basion-Bregma height	Cranial Index
274, 245	U. S. N. M.	Rice Lake, Ontario, Canada.	24		19.5	13.2	14	67.7
274, 241	do.	Clearville, Kent County, Ontario, Canada.	45		19.2	13.2	13.7	68.7
239, 111	do.	Southeast Ontario, Canada.	40		19.3	13.8	14.7	71.5
228, 900	do.	do.	60		19.7	14.2	13.6	72.1
239, 105	do.	do.	75		18.6	13.5	13.8	72.6
239, 110	do.	do.	80		18.6	13.6	13.4	73.1
272, 246	do.	do.	28		18.8	13.9	13.5	73.9
272, 242	do.	do.	24		18.3	13.6	13.6	74.3
239, 107	do.	do.	50		18.8	14	13.6	74.5
239, 112	do.	do.	55		18.3	13.7	14.1	74.9
239, 109	do.	do.	60		18.9	14.2	13.8	75.1
239, 108	do.	do.	60		18.8	14.2	13.5	75.5
239, 113	do.	do.	65		18.6	14.2	13.6	76.3
239, 106	do.	do.	35		18.4	14.2	13	77.2
239, 104	do.	do.	60		18.2	14.6	14.3	80.2
Totals					(15)	(15)	(15)	(15)
Averages					18.2	208.10	206.20	73.8
Minima					18.20	13.2	13	67.7
Maxima					19.70	14.6	14.7	80.2

## FEMALE

239, 103	U. S. N. M.	Huron County, Ontario, Canada.	Adult		17.5	13.0	12.5	74.3
305, 792	do.	Simcoe County, Ontario.	do		18.4	13.8	13.9	75.5
2, 141	A. N. S. P.	County unknown.	do.		18.2	13.7	13.8	75.3
305, 789	U. S. N. M.	Simcoe County, Ontario.	do.		17.3	13.3	13.0	76.9
305, 791	do.	do.	do.		17.8	13.7	13.6	77
305, 790	do.	do.	do.		17.6	13.7	13.4	77.8
239, 102	do.	do.	do.		17.3	13.5	13.9	78
1, 218	A. N. S. P.	do.	do.		17.3	13.6	13.8	78.6
272, 243	U. S. N. M.	Simcoe County, Ontario	do.		17.4	13.7	12.4	78.7
Totals					(9)	(9)	(9)	(9)
Averages					17.64	13.55	13.36	77

## ALGONKINS AND IROQUOIS

## Huron Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.6	15.56	-----	-----	7.2	13.5	-----	53.3	3.65	4.15	87.9	5.4	2.5	46.3
84.6	15.36	-----	-----	8	14.9	-----	53.7	3.55	4.1	86.6	5.7	2.7	47.4
88.8	15.93	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
80.2	15.83	-----	-----	8	14	-----	57.1	3.35	3.9	85.9	5.8	2.1	48.3
86	15.30	-----	-----	-----	14.4	-----	-----	3.23	4.1	78.7	5.1	2.8	54.9
83.2	15.20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
82.6	15.40	-----	-----	7.7	13.5	-----	57	3.55	4	88.7	5.2	2.5	48.1
85.3	15.16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
82.9	15.46	-----	-----	-----	13.8	-----	-----	3.5	3.75	93.3	-----	-----	-----
88.1	15.36	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
83.4	15.63	-----	-----	8.4	14.9	-----	56.4	3.52	3.82	92.2	5.9	2.8	47.5
81.8	15.50	-----	-----	7.4	13.9	-----	53.2	3.52	4.07	86.5	5.35	2.65	49.5
82.9	15.46	-----	-----	-----	-----	-----	-----	3.6	3.9	92.3	-----	-----	-----
79.3	15.20	-----	-----	7	14.3	-----	49	3.57	4	89.4	5.2	2.7	51.9
87.2	15.70	-----	-----	8.3	-----	-----	-----	3.45	3.85	89.6	6.1	2.9	47.5
(15)	(15)	-----	-----	(8)	(9)	-----	(7)	(11)	(11)	(11)	(9)	(9)	(9)
-----	232.05	-----	-----	62	127.20	-----	-----	33.49	43.64	-----	49.75	23.65	-----
84.1	15.47	-----	-----	7.75	14.13	-----	54.2	3.5	3.97	88.2	5.53	2.63	47.5
79.3	15.16	-----	-----	7	13.5	-----	49	3.23	3.75	78.7	5.1	2.1	46.3
88.3	15.93	-----	-----	8.4	14.9	-----	57.1	3.65	4.15	93.3	6.1	2.9	54.9

## FEMALE

81.9	14.33	1,340	-----	6.5	12.1	-----	53.7	3.18	3.78	84.1	4.6	2.45	53.3
86.3	15.37	-----	-----	7.4	14.2	-----	52.1	3.6	3.97	90.7	5.5	2.8	50.9
86.5	15.23	-----	-----	6.7	12.7	-----	52.8	3.4	3.75	90.1	5.0	2.95	59
85	14.53	1,260	-----	-----	-----	-----	-----	3.4	3.8	89.5	4.9	2.5	51.0
86.4	15.03	1,410	-----	7.6	-----	-----	-----	3.58	3.98	89.9	5.5	2.9	52.7
85.6	14.90	1,380	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
90.3	14.90	1,280	-----	7.2	-----	-----	-----	-----	-----	-----	5.4	2.75	50.9
89.3	14.90	-----	-----	7.1	12.8	-----	55.5	3.55	3.72	95.4	5.2	2.5	48.1
79.7	14.50	1,425	-----	6.3	12.7	-----	49.6	3.37	3.72	90.6	4.8	2.7	56.2
(9)	(9)	(6)	-----	(7)	(5)	-----	(5)	(7)	(7)	(7)	(8)	(9)	(8)
-----	133.69	8,095	-----	48.8	64.5	-----	-----	24.08	26.72	-----	40.9	24.25	-----
85.7	14.85	1,349	-----	6.97	12.9	-----	52.7	3.44	3.81	90.1	5.11	2.69	52.7

## Maine Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
14, 173	P. M. C.	Deer Island, Me.	Adult		19.5	13.6	14.0	69.7
58, 590	do.	North Haven, Me.	do.		20.0	14.2	14.2	71
47, 942	do.	Kennebeck River, Me.	do.		18.6	13.5	13.8	72.6
29, 526	do.	Fort Island, Me.	do.		18.5	13.6	12.7	73.5
12, 349	do.	Great Deer Island, Me.	do.		19.0	14.2	13.9	74.7
57, 962	do.	West Goldsborough, Me.	do.		18.8	14.1	13.6	75
Totals					(6) 114.4	(2) 83.2	(6) 82.2	(6) 72.7
Averages					19.07	13.87	13.70	72.7

## FEMALE

15, 309	P. M. C.	Damariscotta, Me.	Adult		18.4	13.5		73.4
33, 714	do.	do.	do.		18.2	13.5	12.7	74.2
57, 961	do.	do.	do.		18.2	13.6	13.3	74.7
26, 243	do.	Fort Island, Me.	do.		18.4	13.8	13.6	75
12, 350	do.	Great Deer Island, Me.	do.		17.9	13.5	12.6	75.4
89	A. N. S. P.	"Penobscot," Me.	do.		17.4	13.2	13.9	75.9
Totals					(6) 108.5	(6) 81.10	(5) 66.1	(6) 74.8
Averages					18.08	13.52	13.22	74.8

<sup>1</sup> Right.

## Massachusetts (State) Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
10, 249	P. M. C.	Salem, Mass.	Adult		19.7	<sup>1</sup> 13.6	<sup>1</sup> 14.0	69
38, 897	P. A.	Lawrence, Mass.	do.		19.1	13.4	14.2	70.2
11, 249	P. M. C.	West Andover, Mass.	do.		19.0	13.4	13.6	70.5
227, 472	U. S. N. M.	Roxbury, Mass.	do.		18.4	13.0	14.0	70.7
32, 563	P. M. C.	Connecticut River, Mass.	do.		19.1	13.7		71.7
59, 488	do.	Martha Vineyard, Mass.	do.		18.9	13.7	14.2	72.5
227, 473	U. S. N. M.	Roxbury, Mass.	do.		19.0	13.9	14.2	73.2
43	P. M. C.	Newburyport, Mass.	do.		19.8	14.5	14.2	73.2
10, 230	do.	Saugus, Mass.	do.		18.7	13.7	13.2	73.3
25, 299	do.	Revere, Mass.	do.		19.2	14.1	14.2	73.4
33, 434	do.	Marion, Mass.	do.		18.6	13.8	14.5	74.2
57, 353	do.	Quincy, Mass.	do.		18.4	13.8		75
1/1931	A. M. N. H.	Medford, Mass.	do.		18.1	13.7	12.6	75.7
110	A. N. S. P.	Nantucket, Mass.	do.		19.0	14.6	14.4	76.8
Totals					(14) 265	(14) 192.9	(12) 167.3	(14) 72.8
Averages					18.93	13.78	13.94	72.8
Minima					18.1	13	12.6	69
Maxima					19.8	14.6	14.5	76.8

<sup>1</sup> Near.

## Maine Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.6	15.70	-----	13.0	7.9	-----	-----	-----	3.6	3.9	91	5.6	2.4	42.9
83	16.13	-----	-----	-----	-----	-----	-----	13.2	14.1	78	4.6	2.4	52.2
86	15.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
79.1	14.93	-----	-----	7.2	13.5	-----	53.3	3.3	3.92	84.2	5.2	2.1	40.4
83.7	15.70	-----	-----	7.1	13.4	-----	53	3.4	3.68	92.4	4.9	2.35	48
82.7	15.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(6)	(6)	-----	-----	(3)	(2)	-----	(2)	(4)	(4)	(4)	(4)	(4)	(4)
83.2	93.26	-----	-----	22.2	26.9	-----	-----	13.5	15.6	-----	20.3	9.25	-----
83.2	15.54	-----	-----	7.4	13.45	-----	55	3.37	3.90	86.4	6.07	2.31	45.6

## FEMALE

77.7	14.80	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
83.6	15.03	-----	11.8	7.2	13.3	88.7	54.1	3.2	3.9	82.1	5.2	2.5	48.1
84.5	15.26	-----	11.7	6.9	13.0	90	53.1	3.4	3.82	89	4.8	2.5	52.1
80.2	14.66	-----	11.4	6.6	12.6	90.5	52.4	3.2	3.6	88.9	4.9	2.45	50
90.8	14.83	-----	-----	6.6	12.9	-----	51.2	3.32	3.9	85.1	4.7	2.35	50
(5)	(5)	-----	(3)	(4)	(4)	(3)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
83.7	74.58	-----	34.9	27.3	51.8	-----	-----	13.12	15.22	-----	19.6	9.8	-----
83.7	14.93	-----	11.63	6.82	12.96	89.8	52.7	3.28	3.80	86.5	4.9	2.46	50

## Massachusetts (State) Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.1	15.77	-----	-----	7.5	-----	-----	-----	3.4	4.0	85	5.1	2.55	50
87.4	15.57	-----	-----	-----	-----	-----	-----	3.47	4.0	86.7	5.3	2.5	47.2
84	15.33	-----	-----	7.6	14	-----	54.5	3.47	4.0	86.7	5.3	2.5	47.2
89.2	15.13	1,415	-----	7.4	13.9	-----	53.2	3.25	4.1	79.3	5.25	2.6	49.5
87.1	15.60	-----	-----	-----	13.8	-----	-----	3.23	3.95	81.8	5.0	2.3	46
86.3	15.70	1,600	-----	-----	-----	-----	-----	3.5	4.0	87.5	5.1	2.4	47.1
82.8	16.17	-----	-----	-----	-----	-----	-----	3.5	4.0	87.5	5.1	2.4	47.1
81.5	15.20	-----	-----	7.1	-----	-----	-----	3.5	4.15	84.3	5.0	2.5	50
85.3	15.85	-----	11.9	7.3	13.9	85.6	52.5	3.4	3.8	89.5	5.2	2.8	53.8
89.5	15.63	-----	12.7	7.5	13.0	97.7	57.7	3.48	3.75	92.8	5.2	2.9	55.8
76.8	14.80	-----	-----	6.8	12.9	-----	52.7	3.2	3.7	86.5	5.0	2.5	50
85.7	16.00	-----	13.6	8.0	14.5	93.8	55.2	3.77	4.2	89.8	5.6	2.65	47.3
(12)	(12)	(2)	(3)	(8)	(7)	(3)	(6)	(10)	(10)	(10)	(10)	(10)	(10)
85.3	186.75	3,015	38.2	59.2	96	-----	-----	34.2	39.65	-----	51.75	25.7	-----
85.3	15.56	1,507	12.73	7.4	13.71	92.8	54	34.2	3.96	86.4	6.17	2.67	49.7
76.8	14.80	-----	11.9	6.8	12.9	85.6	52.5	3.2	3.7	79.3	5	2.3	46
89.5	16.17	-----	16.6	8	14.5	97.7	57.7	3.77	4.2	92.8	5.6	2.9	55.8

## Massachusetts (State) Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
660	P. M. C.	Beverley, Mass.	Adult		18.8	13.0	13.0	69.1
24,851	do	Salem, Mass.	do		18.3	12.8	12.4	70.0
56,350	P. A.	Lawrence, Mass.	do		18.0	12.7	13.5	70.6
18,225	P. M. C.	Swampscott, Mass.	do		18.1	12.8		70.7
18,881	do	Beverley, Mass.	do		18.3	13.0	13.1	71.0
10,229	do	Saugus, Mass.	do		18.1	12.9	13.3	71.3
15,378	do	Revere, Mass.	do		18.0	13.0	13.5	72.2
2	do	Hingham, Mass.	do		17.4	12.7	13.0	73.0
"X"	do	Mendon, Mass.	do		17.7	13.0	13.7	73.4
567	A. N. S. P.	"Naumkeag," Mass.	do		17.8	13.2	13.2	74.2
45,648	P. M. C.	Winthrop, Mass.	do		18.2	13.5		74.2
302,779	U. S. N. M.	Quincy, Mass.	do		18.0	13.4	13.4	74.4
204,875	do	New Bedford, Mass.	do		16.9	12.6	12.4	74.6
1,595	P. M. C.	Wellesley, Mass.	do		18.4	13.8	13.4	75
48,019	do	Chelsea, Mass.	do		17.1	12.9	14.4	75.4
37,924	do	Long Meadow, Mass.	do		17.1	13.0	12.4	76
1,371	A. M. N. H.	Massachusetts	do		17.1	13.0	13.2	76
10,231	P. M. C.	Saugus, Mass.	do		17.3	13.2	13.0	76.3
479	do	"Chickopee," Mass.	do		17.8	13.7		76.8
103	A. N. S. P.	"Na Fick," Mass.	do		17.2	13.4	14.4	77.9
10,246	P. M. C.	Marblehead, Mass.	do		18.1	14.1	13.2	77.9
33,435	do	Marion, Mass.	do		17.4	13.6	14.0	78.2
56,669	do	Winthrop, Mass.	do		17.1	13.4	13.9	78.4
248,326	U. S. N. M.	Marthas Vineyard, Mass.	do		17.6	13.8	13.2	78.4
47,948	P. M. C.	West Newton, Mass.	do		17.0	13.4	13.7	78.8
104	A. N. S. P.	"Natick," Mass.	do		17.4	13.9	13.2	79.9
Totals					(26)	(26)	(23)	(26)
Averages					460.2	343.8	306.5	
Minima					17.70	13.22	13.33	74.7
Maxima					16.9	12.6	12.4	69.1
					18.8	14.1	14.4	79.9

<sup>1</sup> Near.

## Rhode Island Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
41,763	P. A.	Rhode Island	Adult		18.8	12.9	13.6	68.6
951	A. N. S. P.	"Narraganset," R. I.	do		18.6	13.3	12.7	71.6
950	do	do	do		18.5	13.5	13.1	73
952	do	do	do		18.6	13.8	14.3	74.2
957	do	do	do		18.2	14.0	14.2	76.9
956	do	do	do		17.9	14.0	14.0	78.2
Totals					(6)	(6)	(6)	(6)
Averages					110.6	81.5	81.9	
					18.43	13.68	13.65	73.7

<sup>1</sup> Near.



## Massachusetts (State) Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
81.1 79.8 83	14.93 14.50 14.73			7.2				23.35	23.75	89.3	5.2	2.15	41.4
83.7 85.3 87.1 86.4 89.2 85.2	14.80 14.76 14.83 14.36 14.60 14.73		11.4	7.0 6.5 7.0 7.3 6.1 7.2	12.8	89.1	54.7	3.48 3.3 3.27 3.4 3.3 3.15	3.93 3.72 3.67 3.85 4.0 3.8	88.3 88.7 89.1 88.3 82.5 82.9	5.1 4.5 5.1 5.0 4.7 5.0	2.3 2.3 2.7 2.4 2.6 2.45	45.1 51.1 52.9 48 55.3 49
86.4 84.1 83.2 96 82.4	14.93 13.96 15.20 14.80 14.17	1,360 1,240		7.1 6.9 7.2 7.0 7.5	12.3 12.7		56.1 56.7 57.7	3.33 3.45 3.4 3.45	3.74 3.62 3.9 3.78	89.0 95.3 87.2 91.3	4.7 5.3 4.8 5.2	2.5 2.4 2.4 2.7	53.2 45.3 50 51.9
87.7 85.2	14.43 14.50		11.6	7.3 7.0 6.7	12.3 12.5	94.3	59.3 56	3.45 3.3	3.65 4.0	94.5 82.5	4.95 5.1 5.0	2.25 2.7	41.1 54
94.1 82 90.3 91.2 84.1	15.00 15.13 15.00 14.80 14.87				12.9			3.25 3.25	3.85 3.80	84.4 85.5	4.7 5.0 4.9 5.0	2.2 2.65 2.5 2.45	46.8 53 51 49
84.1	14.87	1,415						3.4	23.75	90.7	5.05	2.6	51.5
90.1 84.4	14.70 14.83												
(23)	(23)	(3)	(3)	(16)	(9)	(3)	(8)	(19)	(19)	(19)	(22)	(21)	(21)
86.2 79.8 96	338.56 14.72 13.96 15.20	4,015 1,338 1,240 1,415	34.3 11.43 11.3 11.6	112 7 6.1 7.5	14.1 12.68 12.3 13	89.9 55.2 54.3 94.3	55.2 3.35 3 59.3	3.75 3.79 3.62 3.75	72.06 3.79 3.62 3.75	88.4 81.1 100	4.96 4.5 5.3	2.46 2.15 2.7	49.6 41.1 55.3

2 Right.

## Rhode Island Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.8 79.6	15.10 14.87		11.9	7.2 7.2	13.6 12.8	87.5	52.9 56.2	3.27 3.33	3.55 3.8	92.1 87.6	5.2 5.2	2.5 2.9	48.1 55.3
81.9 88.3 88.2 87.8	15.03 15.57 15.47 15.30				13.3 12.7 13.4 14.2			3.5 3.45 3.8 3.63	3.9 4.0 4.03 4.03	89.7 86.2 91.3 90.1	5.0 4.7 5.2 4.9	2.5 2.85 2.5 2.6	50 60.6 48.1 53.1
(6)	(6)			(3)	(6)		(3)	(6)	(6)	(6)	(6)	(6)	(6)
85.3	91.34 15.22			22.1 7.37	80 13.39		55.3	20.95 3.50	23.31 3.88	90.2	5.03	15.85 2.64	52.5

## Rhode Island Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,940...	U. S. N. M. ...	Newport, R. I. ....	Adult.....	-----	18.5	13.4	-----	72.4
15,308...	P. M. C. ....	Cumberland River Island, R. I. ....	do.....	-----	18.2	13.4	13.0	73.6
955...	A. N. S. P. ....	"Narraganset," R. I. ....	do.....	-----	17.7	13.6	14.2	76.8
2,598...	P. M. C. ....	Ilverton, R. I. ....	do.....	-----	17.3	13.4	13.2	77.5
2,597...	do.....	do.....	do.....	-----	17.2	13.4	13.5	77.9
953...	A. N. S. P. ....	"Narraganset," R. I. ....	do.....	-----	16.8	13.7	13.6	81.6
Totals.....	-----	-----	-----	-----	(6) 105.7	(6) 80.9	(5) 67.5	(6) 76.5
Averages.....	-----	-----	-----	-----	17.62	13.48	13.50	76.5

<sup>1</sup> Right.

## New Hampshire Indian crania

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
149,042...	U. S. N. M. ...	Amoskeag, N. H. ...	Adult.....	-----	17.8	12.6	-----	70.8

## Connecticut Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
261,934...	U. S. N. M. ...	South Windsor, Conn. ....	Adult.....	-----	18.0	<sup>1</sup> 13.4	-----	71.3
248,576...	do.....	do.....	do.....	-----	19.1	13.7	13.9	71.7
261,936...	do.....	East Windsor, Conn. ....	75.....	-----	18.0	12.9	-----	71.7
2,608...	A. M. N. H. ...	Mystic, Conn. ....	Adult.....	-----	18.7	14.0	13.9	74.9
Totals.....	-----	-----	-----	-----	(4) 73.8	(4) 54	(2) 27.8	(4) 73.2
Averages.....	-----	-----	-----	-----	18.45	13.50	13.90	73.2

<sup>1</sup> Near.

## Rhode Island Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.3	14.87	-----	-----	6.7	-----	-----	-----	13.3	14.0	82.5	4.9	2.7	55.1
90.7	15.17	-----	-----	7.1	13.2	-----	53.8	3.55	3.95	89.9	5.3	2.95	56.7
86	14.63	-----	10.8	7.0	12.6	85.7	55.6	3.5	3.63	97.9	5.3	2.6	49.1
88.2	14.70	-----	12.2	7.5	13.3	91.7	56.4	3.58	3.9	91.8	5.2	2.5	48.1
89.2	14.70	-----	-----	6.5	12.6	-----	51.6	3.37	3.62	93.1	4.5	2.6	57.8
(5)	(5)	-----	(2)	(5)	(4)	(2)	(4)	(5)	(5)	(5)	(6)	(6)	(6)
86.8	14.81	-----	11.5	6.96	12.92	89	53.9	3.46	3.82	90.6	3.05	2.67	55.1

## New Hampshire Indian crania

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
-----	-----	-----	11.2	6.8	-----	-----	-----	3.25	3.6	90.3	4.9	2.25	45.9

## Connecticut Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.8	15.57	1.660	-----	-----	14	-----	-----	3.28	2.3.85	85.2	4.7	2.4	51.1
85	15.53	-----	-----	-----	13.5	-----	-----	3.2	3.78	82.5	5.3	2.5	47.2
(2)	(2)	-----	-----	-----	(2)	-----	-----	(2)	(2)	(2)	(2)	(2)	(2)
87	15.55	-----	-----	-----	13.75	-----	-----	6.48	7.63	85	10	4.9	49
-----	-----	-----	-----	-----	-----	-----	-----	8.24	8.81	-----	5	2.45	-----

## Connecticut Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
261,935	U. S. N. M.	East Windsor, Conn.	Adult		18.1	12.9		71.3
251,922	do.	Farmington, Conn.	do.		18.0	13.2	13.1	73.3
2,609	A. M. N. H.	Mystic, Conn.	do.		17.9		13.2	73.7
244,097	U. S. N. M.	Hartford, Conn.	do.		17.4	14.0	13.6	80.5
Totals					(4) 71.4	(4) 53.3	(3) 39.9	(4)
Averages					17.85	13.32	13.30	74.6

<sup>1</sup> Near.

## Northwest New York State Indian crania: Iroquois

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
C/3, 103	B. S. N. H.	V. S. S., Grand Island, N. Y.	Adult	Rather abnormal.	19.9	13.6	14.0	68.3
C/3, 937	do.	Orangeport, N. Y.	do.		19.0	13.1	13.7	69
C/2, 293	do.	Lewiston, N. Y.	do.		19.1	13.2	13.7	69.1
C/2, 291	do.	do.	do.		19.2	13.4	14.2	69.8
C/2, 284	do.	do.	do.		19.4	13.6	14.1	70.1
C/2, 302	do.	do.	do.		19.2	13.5	High	70.3
C/2, 294	do.	do.	do.		19.0	13.5	13.9	71.0
C/2, 289	do.	do.	do.		19.8	<sup>1</sup> 14.1	High	71.2
C/3, 944	do.	East Bloomfield, Ontario County.	do.		18.9	13.5	13.5	71.4
C/3, 921	do.	"Neutral" Ontario County.	do.	Slight asymmetry.	19.6	14.0	12.6	71.4
C/3, 099	do.	Grand Island.	do.		19.4	13.9	13.7	71.6
C/2, 287	do.	Lewiston, Niagara County.	do.		18.6	13.4	13.4	72.0
C/3, 996	do.	Richmond, Ontario County.	do.		18.6	<sup>1</sup> 13.4	<sup>2</sup> 14.2	72.0
C/3, 939	do.	East Bloomfield, Ontario County.	do.		18.8	13.6	14.2	72.3
C/2, 282	do.	Lewiston, Niagara County.	do.		19.6	14.2	14.2	72.4
C/2, 285	do.	do.	do.		19.1	13.9	14.1	72.8
C/3, 995	do.	Richmond, Ontario County, N. Y.	do.		18.4	<sup>1</sup> 13.4	14.0	72.8
C/3, 933	do.	Orangeport, Niagara County.	do.		18.4	13.5	13.6	73.4
C/3, 942	do.	East Bloomfield, Ontario County.	do.		18.8	13.8	14.2	73.4
C/1, 836	do.	I. M. C., Buffalo, Erie County.	do.		18.5	13.6	14.1	73.5
C/1, 838	do.	do.	do.		19.0	14.0	12.7	73.7
C/3, 932	do.	Orangeport, Niagara County.	do.		18.7	13.8	14.0	73.8
C/1, 859	do.	Buffalo, Erie County.	do.		18.4	13.6	14.3	73.9
C/1, 863	do.	do.	do.		18.4	13.6	13.4	73.9
16	A. N. S. P.	Near Lake Erie	do.		19.1	14.2	14.5	74.3
C/3, 101	B. S. N. H.	Grand Island	do.		18.6	14.0	14.0	75.3

<sup>1</sup> Near.

## Connecticut Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
88.9	14.77	1,240		7.1	13.2		59.8	3.35	3.8	88.2	5.1	2.6	51
84.9	14.77		11	6.6	11.4	96.5	57.9	3.3	3.4	97.1	4.4	2.6	59.1
86.6	15.00	1,350											
(2)	(3)	(2)		(2)	(2)		(2)	(2)	(2)	(2)	(2)	(2)	(2)
44.54	44.54	2,590		13.7	24.6		6.65	6.65	7.2		9.5	5.2	
86.4	14.85	1,295		6.85	12.8		55.7	3.82	3.6	92.2	4.75	2.6	54.7

## Northwest New York State Indian crania: Iroquois

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
88.6	15.83			7.4	13.8		53.6	3.4	3.8	89.5	5.35	2.8	52.8
85.4	15.26			7.9	13.4		59						
84.8	15.33			7.6	14.3		52.1	3.45	4.0	87.6	5.7	2.65	57.8
87.1	15.60				14.2			3.37	3.72	90.6	5.7	2.9	60.9
85.4	15.70			7.4	14.1		52.6	3.47	4.02	86.3	5.35	2.85	53.3
				7.7	14.2		54.2	3.4	3.95	86.1	5.4	2.65	49.1
86.5	15.47			7.3	14.2		51.4	3.55	4.05	87.7	5.1	2.75	53.9
				7.8	14.2		56.7	3.35			5.4	2.65	49.1
83.3	15.30			7.6	13.3		57.1	3.65			5.6	2.8	50
76	15.46		12.1	7.4	13.4	90.3	55.2	3.1	3.6	86.1	5.4	2.9	55
82.3	15.67				13.8			3.42	4.05	84.9	5.15	3.0	58.3
83.8	15.13							3.4	4.07	83.5	5.1	2.75	53.9
88.8	15.40			7.4							5.3	2.4	46.3
87.6	15.53												
84.0	16.00			7.7	14.7		52.4	3.22	3.95	81.5	5.5	3.05	55.5
85.4	15.70			7.1	13.8		51.4	3.15	3.8	82.9	4.8	2.55	53.1
88.0	15.26							3.45	3.87	89.2	5.3	2.85	53.8
85.3	15.17			7.7	13.4		57.5	3.3	3.9	84.6	5.1		
87.1	15.60												
87.9	15.40			6.9	13.9		49.6	3.2	4.02	79.5	5.3	2.9	54.7
77	15.23			7.5	13.6		55.2	3.4	3.9	87.2	5.65	2.85	50.4
86.2	15.50												
89.4	15.43		11.8	7.0	13.4	(88.1)	(52.2)	3.5	4.02	87.1	5.2	2.55	47.2
83.8	15.13			7.7	13.4		57.5	3.3	3.72	88.7	5.4	2.5	46.3
87.1	15.93			7.8				3.6	3.87	82.9	5.5	2.55	46.4
85.9	15.53			7.4	13.7		54.0	3.35	3.8	88.2	5.3	2.6	49.1

\* About.

## Northwest New York State Indian crania; Iroquois—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
C/1, 837	B. S. N. H.	Buffalo.....	Adult.....		18.4	13.9	14.1	75.5
C/2, 286	do.	Lewiston, Niagara County.	do.		18.4	14.0	14.5	76.1
989	A. N. S. P.	Near Lake Erie.....	do.		18.4	14.0	14.3	76.1
C/1, 849	B. S. N. H.	Buffalo.....	do.		18.6	14.3	13.7	76.9
C/3, 100	do.	Grand Island.....	do.		18.3	14.1	13.7	77.0
C/2, 297	do.	Lewiston.....	do.		18.8	14.5	14.3	77.1
C/3, 936	do.	Orangeport.....	do.		18.0	14.2	13.7	78.9
Totals.....					(33) 622.4	(33) 454.4	(31) 430.6	(35) 77.3
Averages.....					18.86	13.77	13.89	73
Minima.....					18	13.1	12.6	68.3
Maxima.....					19.9	14.5	14.5	78.9

## FEMALE

C/3, 098	B. S. N. H.	Grand Island.....	Adult.....		19.1	13.1	12.5	68.6
C/1, 858	do.	Im. Cem., Buffalo.	do.		17.2	12.0	13.0	69.8
C/3, 934	do.	Orangeport.....	do.		18.0	12.7	13.9	70.6
C/2, 296	do.	Lewiston.....	do.		18.7	13.3	13.5	71.1
C/2, 288	do.	do.	do.		18.6	13.3	13.6	71.5
C/3, 924	do.	"Neutral," Humberton.	do.		17.9	12.8	12.7	71.6
C/3, 935	do.	Orangeport, Niagara County.	do.		17.6	12.7	13.7	72.2
C/2, 298	do.	Lewiston.....	do.		18.8	13.6	13.3	72.3
C/3, 938	do.	Grand Island.....	do.		17.6	12.8	13.0	72.7
C/1, 847	do.	Buffalo.....	do.		17.8	13.0	12.7	73.0
C/2, 299	do.	Lewiston.....	do.		18.1	13.4	13.6	74.0
C/2, 300	do.	do.	do.		17.8	13.2		74.2
C/1, 846	do.	Buffalo.....	do.		17.8	13.2	12.7	74.2
C/2, 292	do.	Lewiston.....	do.		18.1	13.6	13.8	75.1
C/3, 940	do.	Grand Island.....	do.		17.7	13.3	13.4	75.1
119	A. N. S. P.	Near Lake Erie.....	do.		18.3	13.8	13.7	75.4
C/2, 283	B. S. N. H.	Lewiston.....	do.		17.6	13.4	13.8	76.1
C/2, 290	do.	do.	do.		16.7	12.8	13.0	76.6
C/1, 848	do.	Buffalo.....	do.		18.0	13.8	13.7	76.7
C/1, 860	do.	do.	do.		17.7	13.6	14.2	76.8
C/3, 927	do.	Richmond Mills.....	do.		17.4	13.4	12.6	77.0
C/2, 295	do.	Lewiston.....	do.		17.4	13.6	13.4	78.2
C/3, 941	do.	East Bloomfield, Ontario County.	do.		17.5	13.9	13.1	79.4
C/3, 945	do.	Victor.....	do.		17.4	14.2	12.9	81.6
Totals.....					(24) 428.8	(24) 318.5	(23) 305.8	(24) 74.3
Average.....					17.87	13.27	13.30	74.3
Minima.....					16.7	12	12.5	68.6
Maxima.....					19.1	14.2	14.2	81.6

1 Near.

## Northwest New York State Indian crania; Iroquois—Continued

## MALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
87.3	15.47	-----	-----	7.3	13.6	-----	53.7	3.4	3.9	87.2	5.3	2.6	49.1
89.5	15.63	-----	-----	-----	-----	-----	-----	-----	-----	-----	5.4	2.7	50
88.3	15.57	-----	-----	-----	13.7	-----	-----	3.6	3.98	90.2	5.7	2.75	48.3
83.3	15.53	-----	-----	-----	14.3	-----	-----	3.35	3.72	90.1	5.4	2.85	52.8
84.6	15.37	-----	-----	7.4	14.2	-----	52.1	3.32	3.9	85.2	5.2	2.9	56.8
86.9	15.87	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
86.1	15.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(31)	(31)	-----	(2)	(21)	(23)	-----	(18)	(25)	(23)	(23)	(27)	(26)	(26)
-----	480.3	-----	23.9	157	318.4	-----	-----	84.7	89.61	-----	144.45	71.3	-----
85.2	15.49	-----	11.95	7.48	13.84	-----	54.1	3.39	3.90	86.9	5.35	2.74	51.2
75	15.13	-----	-----	6.9	13.3	-----	49.6	3.1	3.6	79.5	4.8	2.4	45.3
89.5	16	-----	-----	7.9	14.7	-----	59	3.65	4.07	92.9	5.7	3.05	58.3

## FEMALE

77.6	14.90	-----	-----	-----	13.1	-----	-----	3.37	3.92	86	-----	-----	-----
89.0	14.07	-----	-----	6.9	-----	-----	-----	3.35	3.72	90.1	4.95	2.55	51.5
90.6	14.87	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
84.4	15.17	-----	-----	7.1	-----	-----	-----	-----	-----	-----	5.05	2.8	55.4
85.3	15.17	-----	-----	6.95	13.4	-----	51.9	3.17	3.65	86.8	5.2	2.85	54.8
82.7	14.47	-----	-----	7.0	13.2	-----	53.0	3.42	3.8	90	5.1	2.45	48.0
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
90.4	14.67	-----	-----	-----	13.4	-----	-----	-----	-----	-----	-----	-----	-----
82.1	15.23	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
85.5	14.47	-----	-----	-----	-----	-----	-----	3.32	4.12	80.7	5.15	2.6	52.3
82.5	14.50	-----	-----	6.9	12.9	-----	-----	3.32	3.82	86.9	4.9	2.4	49.0
86.4	15.03	-----	-----	-----	-----	-----	56.6	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
81.9	14.57	-----	11.8	6.8	13.0	-----	52.3	3.3	3.9	84.6	4.9	2.65	54.1
87.1	15.17	-----	-----	7.2	12.3	-----	58.6	3.25	3.6	90.3	5.1	2.55	50
86.4	14.80	-----	-----	6.85	13.2	-----	51.9	3.37	3.87	87.1	4.95	2.6	52.5
86.4	14.80	-----	-----	6.9	13.0	-----	53.1	3.28	3.9	84.1	4.75	2.6	54.7
85.4	15.27	-----	-----	7.0	12.9	-----	54.3	3.35	3.7	90.5	5.1	2.6	51
89.0	14.93	-----	-----	6.7	12.5	-----	53.6	3.3	3.63	90.9	4.7	2.3	48.9
88.1	14.17	-----	-----	6.45	12.9	-----	50	3.22	3.55	90.7	4.75	2.7	56.8
86.2	15.17	-----	-----	7.3	12.7	-----	57.5	-----	-----	-----	-----	-----	-----
90.7	15.17	-----	-----	7.2	13.0	-----	56.4	3.4	3.73	91.2	5.15	2.5	48.5
81.8	14.47	-----	10.6	6.7	12.3	-----	54.6	3.28	3.65	89.9	5.0	2.7	54
86.4	14.80	-----	-----	7.45	13.0	-----	57.3	3.55	3.85	92.5	4.55	2.65	49.5
83.4	14.83	-----	-----	-----	13.3	-----	-----	3.3	3.82	86.4	4.55	2.7	59.3
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
81.6	14.83	-----	-----	6.9	13.0	-----	53.1	3.57	3.68	97.0	4.9	2.45	50
(23)	(23)	-----	(2)	(17)	(19)	(2)	(15)	(18)	(18)	(18)	(18)	(18)	(18)
-----	340.73	-----	22.4	118.3	245.3	-----	-----	60.12	67.91	-----	89.55	46.65	-----
85.4	14.81	-----	11.2	6.96	12.91	-----	53.9	3.34	3.77	91.2	4.97	2.59	52.1
77.6	14.07	-----	-----	6.45	12.2	-----	50	3.17	3.55	80.7	4.55	2.3	48
90.7	15.27	-----	-----	7.45	13.4	-----	58.6	3.57	4.12	97	5.35	2.85	59.3

\* About.

## New York State Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
226,342	U. S. N. M.	New York	Adult		19.2	13.1		68.2
417	A. N. S. P.	"Cayuga"	do		19.8	13.6	13.8	68.7
243,535	U. S. N. M.	Union Springs	do		20.4	14.3		70.1
243,530	do	do	do		19.9	14.0	13.8	70.4
20/2335	A. M. N. H.	Croton on Hudson	do		18.9	13.4	14.2	70.9
38,962	P. M. C.	Cayuga County	do		19.2	14.2	14.0	74
225,506	U. S. N. M.	Union Springs	do		18.9	14.0	13.3	74.1
"Y"	A. M. N. H.	Astoria	do		18.5	13.7		74.1
38,963	do	Cayuga County	do		18.6	13.8	14.5	74.2
896	A. N. S. P.	"Mohawk," Manheim.	do		18.6	13.8	13.6	74.2
243,531	U. S. N. M.	Union Springs	do		18.8	14.0	13.0	74.5
3,688	A. M. N. H.	Van Courtlandt Park.	do		18.8	14.1	14.3	75
225,513	U. S. N. M.	Venice	do		18.4	13.8	13.3	75
226,341	do	New York	do		19.0	14.4	14.4	75.8
225,509	do	Genoa	do		19.2	14.6	14.6	76
20/2433	A. M. N. H.	Croton on Hudson	do		18.4	14.3	14.1	77.7
276,734	U. S. N. M.	Binghamton, N. Y.	do		17.8	14.0	13.0	78.6
225,503	do	Union Springs	do	Slight lateral occipital compression.	18.3	14.4	13.7	78.7
3,687	A. M. N. H.	Van Courtlandt Park.	do		18.7	14.9	14.0	79.7
Totals					(19)	(19)	(16)	(19)
Averages					359.40	266.40	221.60	
Minima					18.92	14.02	13.85	74.12
Maxima					17.80	13.10	13.00	68.20
					20.40	14.90	14.60	79.70

## FEMALE

286,680	U. S. N. M.	Ontario County	Adult		17.5	12.0	13.5	68.6
225,511	do	Venice	do		18.3	12.8	11.9	70
20/2332	A. M. N. H.	Croton on Hudson	do		17.2	12.2		71.0
225,512	U. S. N. M.	Venice	do		17.4	12.5	12.4	71.8
14,114	P. M. C.	New York	do		18.0	13.4	12.4	74.4
225,505	U. S. N. M.	Union Springs	do		18.8	14.0	13.0	74.5
243,533	do	Balawinsville	do		16.9	12.6	12.9	74.6
225,507	do	Cayuga County	do		18.0	13.6	13.3	75.6
227,807	do	Morses Lane	do		17.8	13.5	12.9	75.8
226,003	do	Venice	do		18.4	14.0	13.8	76.1
99/4101	A. M. N. H.	Shinnecock Hills	do		18.0	13.8	13.8	76.7
38,964	P. M. C.	New York	do		17.5	13.5	13.4	77.1
20/2342	A. M. N. H.	Croton on Hudson	do		17.4	13.6	13.2	78.2
226,004	U. S. N. M.	Salmon Creek	do		17.6	13.9	12.8	79
208,041	do	Owego, Tioga County.	do		17.7	14.2		80.2
225,510	do	Cayuga County	do		17.6	14.2	12.8	80.7
225,504	do	Union Springs	do		17.6	14.8	13.8	84.1
244,100	do	do	do		17.2	14.5	13.6	84.3
Totals					(18)	(18)	(16)	(18)
Averages					318.90	243.10	209.50	
Minima					17.72	13.50	13.09	76.2
Maxima					16.90	12.00	11.90	68.6
					18.80	14.80	13.80	84.3

1 Near.



## New York State Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Monton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bitygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.6	15.73				13.6						5.2	2.7	51.9
81.4	15.90	1,700	12.3	7.4	13.9	88.5	53.2	3.35	3.95	84.8	5.1	2.8	54.9
87.9	15.50		12.4	7.15	13.9	89.2	51.4	3.22	3.87	85.2	4.7	3.0	63.8
83.8	15.80												
81.8	15.40	1,430	12.0	7.4				3.4	3.75	90.7	5.4	2.85	52.8
89.5	15.63		13.1	7.9	14.7	89.1	53.7	3.35	3.85	87	5.5	2.7	49.1
84	15.33				13.6								
79.3	15.27	1,490	11.8	6.9	14.6	80.8	47.3	3.22	3.8	84.7	5.2	2.9	55.8
86.9	15.73												
82.6	15.17	1,510			14.0			3.45	4.0	86.8	5.1	2.3	45.1
86.2	15.93	1,620		7.9	14.6		54.1	3.58	4.05	88.4	5.6	2.7	48.2
86.4	16.13												
86.2	15.60			7.1	14.1		50.4	3.5	3.95	88.6	5.2	2.85	54.8
81.8	14.93	1,485	11.3	6.8	13.1	86.5	51.9	3.35	3.8	88.2	5.0	2.35	47
83.8	15.47	1,475	11.8	7.1	14.1	88.7	50.4	3.6	3.95	91.1	5.2	2.75	52.9
83.3	15.87		12.3	7.3	15.0	82	48.7	3.7	4.05	91.4	5.05	2.6	51.5
(16)	(16)	(7)	(8)	(10)	(12)	(7)	(9)	(11)	(11)	(11)	(12)	(12)	(13)
249.39	10,710	97.00	72.95	169.20				37.72	43.02		62.25	32.50	
84.2	15.59	1,530	12.12	7.29	14.1	85.6	51.2	3.43	3.91	87.7	5.19	2.71	52.2
79.3	14.93	1,430	11.30	6.80	13.1	80.8	47.3	3.22	3.75	83.2	4.70	2.30	45.1
89.5	16.13	1,700	13.10	7.90	15.0	89.2	54.1	3.70	4.05	91.4	5.60	3.00	63.8

## FEMALE

91.5	14.33		10.9	6.7	12.5	87.2	53.6	3.4	3.8	89.5	4.9	2.8	57.1
76.5	14.33	1,200	11.1	6.9	13.3	83.5	51.9	3.37	3.72	90.8	5.1	2.3	45.1
				6.3				3.45	3.95	87.3	4.65	2.45	52.7
82.9	14.10	1,200	10.8	6.6	12.0	90	55	3.35	3.75	89.3	4.95	2.6	52.5
79	14.60							3.35	3.85	87	4.85	2.7	55.7
79.3	15.26	1,460											
87.5	14.13	1,230											
84.2	14.97		11	6.7	12.7	86.6	52.8	3.25	3.85	84.4	5.0	2.9	58
82.4	14.73	1,240						3.4	3.67	92.6	5.1	2.65	52
85.2	15.40	1,470	11.2	6.6	14.0	80	47.1	3.27	3.75	87.2	4.65	2.6	55.9
86.8	15.20		11.8	7.2	13.2	89.4	54.5	3.42	3.67	93.2	5.0	2.5	50
86.4	14.80			7.2				3.25	3.65	89	5.0	2.7	54
85.2	14.73			6.8	13.6		50	3.27	3.8	86.1	5.15	2.65	51.5
81.3	14.73	1,310	11.9	7.3	13.3	89.5	54.9	3.13	3.7	84.6	5.05	2.9	57.4
80.5	14.87	1,350		7.6	13.3		57.1	3.65	3.9	93.6	5.6	2.8	50
85.2	15.40	1,520	11.3	7.0	13.6	83.1	51.2	3.4	3.8	89.5	5.2	2.85	54.8
85.8	15.10		11.1	7.1	13.6	85.4	54.6	3.65	3.78	96.6	5.3	2.6	49.1
(16)	(16)	(9)	(9)	(13)	(11)	(9)	(11)	(15)	(15)	(15)	(15)	(15)	(15)
236.68	11,980	101.10	90.00	144.50				50.61	56.64		75.50	40.00	
83.7	14.79	1,331	11.23	6.92	13.14	86	52.9	3.37	3.78	89.3	5.03	2.67	55
76.5	14.10	1,200	10.80	6.30	12.00	80	47.1	3.13	3.65	84.4	4.65	2.30	45.1
91.5	15.40	1,520	11.90	7.60	14.00	90	57.1	3.65	3.95	96.6	5.60	2.90	58

<sup>2</sup> About.

## Manhattan Island Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
20/3527	A. M. N. H. . . .	North end of Manhattan Island.	Adult . . . . .		19.1	13.1	13.1	68.6
226,012	U. S. N. M. . . .	Wilets Point. . . . .	do . . . . .		19.2	13.4	13.4	69.8
99/6669	A. M. N. H. . . .	Manhattan Island	do . . . . .		19.0	13.4	14.0	70.5
20/3502	do . . . . .	North end of Manhattan Island.	do . . . . .		19.5	13.8	14.6	70.8
99/6667	do . . . . .	Manhattan Island.	do . . . . .		19.1	13.9	14.6	72.8
20/3526	do . . . . .	do . . . . .	do . . . . .		19.3	14.1	13.6	73.1
20/3528	do . . . . .	do . . . . .	do . . . . .		19.9	14.6	14.3	73.4
20/3501	do . . . . .	do . . . . .	do . . . . .		19.3	14.2	13.7	73.6
20/3500	do . . . . .	do . . . . .	do . . . . .		19.2	14.2	13.5	71
20/3525	do . . . . .	do . . . . .	do . . . . .		19.2	14.2	14.0	71
3,521	do . . . . .	do . . . . .	do . . . . .		18.7	14.1	13.9	76.4
Totals . . . . .					(11)	(11)	(11)	(11)
Averages . . . . .					211.50	153.00	152.70	
Minima . . . . .					19.23	13.91	13.88	72.5
Maxima . . . . .					18.70	13.10	13.10	68.6
					19.90	14.60	14.60	75.4

## FEMALE

99/6673	A. M. N. H. . . .	Cooper Street, Manhattan Island.	Adult . . . . .		18.1	13.0	13.7	71.8
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<sup>1</sup> Near.

## Long Island Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
"E"	A. M. N. H. . . .	Port Washington, Long Island.	Adult . . . . .		19.3	13.0	13.8	67.4
"C"	do . . . . .	do . . . . .	do . . . . .		19.2	13.1		68.2
"B"	do . . . . .	do . . . . .	do . . . . .		18.9	13.2	14.5	69.8
99/4100	do . . . . .	Shinnecock Hills, Long Island.	do . . . . .		19.0	13.6	14.5	71.6
"A"	do . . . . .	Port Washington, Long Island.	do . . . . .		19.2	13.8	14.4	71.9
"D"	do . . . . .	do . . . . .	do . . . . .		19.5	14.2	14.6	72.8
Totals . . . . .					(6)	(6)	(5)	(6)
Averages . . . . .					115.10	80.90	71.80	
					19.18	13.48	14.36	70.3

## FEMALE

"G"	A. M. N. H. . . .	Port Washington, Long Island.	Adult . . . . .		18.2	12.6	12.8	69.2
"H"	do . . . . .	do . . . . .	do . . . . .		18.2	13.3	13.3	73.1
"I"	do . . . . .	do . . . . .	do . . . . .		18.5	13.9	13.3	76.1
"F"	do . . . . .	do . . . . .	do . . . . .		17.5	13.5	12.9	77.1
Totals . . . . .					(4)	(4)	(4)	(4)
Averages . . . . .					72.40	53.30	52.30	
					18.10	13.32	13.07	73.6

## Manhattan Island Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
81.4	15.10										5.2	2.6	50
82.2	15.33	1,485	11.5		14.1	81.6					5.3	2.7	50.9
86.4	15.46			7.8	14.3		54.5	3.5	4.05	86.4	5.8	2.6	44.8
87.7	15.97			7.3	12.5		58.4	3.2	3.68	87	4.9	2.2	44.9
88.5	15.86			8.1				3.45	3.9	88.5	6.0	2.7	45
81.4	15.67		11.7	7.2	13.2	88.6	54.6	3.15	4.0	78.8	5.2	2.15	41.3
82.9	16.27												
81.8	15.73			7.3	12.8		57	3.12	3.92	79.6	4.95	2.3	46.5
80.8	15.63		11.4	6.7	13.0	87.7	51.5	3.13	3.78	82.8	5.05	2.35	46.6
83.8	15.80		12.4	7.1	12.4	100	57.3	3.12	4.07	76.7	5.0	2.2	44
84.8	15.57		12	7.2	13.2	90.9	54.6	3.15	3.87	81.4	5.2	2.5	48.1
(11)	(11)		(5)	(8)	(8)	(5)	(7)	(8)	(8)	(8)	(10)	(10)	(10)
85.8	172.39		59.00	58.70	105.50			25.82	31.27		52.60	24.30	
85.8	15.67		11.80	7.34	13.19	89.6	55.4	3.23	3.91	82.2	5.26	2.45	46.2
80.8	15.10		11.40	6.70	12.40	81.6	51.5	3.12	3.68	76.7	4.90	2.15	41.3
88.5	16.27		12.40	8.10	14.30	100	58.4	3.50	4.07	88.5	6.00	2.70	50.9

## FEMALE

83.1	14.93												
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## Long Island Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.4	15.37												
90.3	15.53			7.1	13.5		52.6	3.2	3.9	82.1	5.25	2.25	42.9
89	15.70		12.0	6.9	13.1	91.6	52.7	3.15	3.65	86.3	4.8	2.5	52.1
87.3	15.80			7.5	14.3		52.4	3.3	4.15	79.5	5.2	2.75	52.9
86.6	16.10			8.4	14.5		57.9	3.25	4.07	79.9	6.1	2.65	43.4
(5)	(5)			(4)	(4)		(4)	(5)	(5)	(5)	(5)	(5)	(5)
78.50				29.90	55.40			16.40	19.92		26.45	12.35	
87.7	16.70			7.47	13.85		54	3.28	3.98	82.3	5.29	2.47	46.7

## FEMALE

83.1	14.53			7.2				3.1	3.6	86.1	4.7	2.3	48.9
84.4	14.93			6.6	12.5		52.8	2.87	3.6	79.8	4.5	2.35	52.2
82.1	15.23			6.9	13.3		51.9	3.47	3.9	89	5.1	2.35	46.1
83.2	14.63				12.8			3.45	3.9	88.5	5.1	2.45	48
(4)	(4)			(3)	(3)		(2)	(4)	(4)	(4)	(4)	(4)	(4)
59.32				20.70	38.60			12.89	15.00		19.40	9.45	
83.2	14.83			6.90	12.87		52.3	3.22	3.75	85.9	4.85	2.36	48.7

## Staten Island Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
20/4423	A. M. N. H.	Staten Island	Adult		20.0	14.0	15.3	70
20/3190	do	do	do		19.0	13.4	14.2	70.5
20/3246	do	Tottensville, Staten Island.	do		19.3	14.1	14.2	73.1
20/4471	do	Staten Island	do		19.6	14.4	14.9	73.5
20/3153	do	Tottensville, Staten Island.	do		17.6	14.4	14.2	81.8
20/3176	do	do	do		18.5	15.2	14.5	82.3
Totals					(6) 114.00	(6) 85.50	(6) 87.30	(6)
Averages					19.00	14.25	14.55	75

## FEMALE

20/3136	A. M. N. H.	Tottensville, Staten Island.	Adult		18.3	13.1	12.9	71.6
20/3149	do	do	do		17.9	13.8	13.2	77.1
224, 898	U. S. N. M.	Staten Island	do		17.0	13.2	13.2	77.6
Totals					(3) 53.20	(3) 40.10	(3) 39.30	(3)
Averages					17.73	13.37	13.10	75.4

<sup>1</sup> Near.New Jersey Indian crania: Delaware (or Lenape)<sup>1</sup>

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
19, 514	P. M. C.	Gloucester County, N. J.	Adult		19	13	14.3	68.4
285, 303	U. S. N. M.		50		18.9	13.3	14.2	70.4
1880	A. N. S. P.	Cape Henlopen	Adult		19	14	High.	73.7
285, 308	U. S. N. M.		55		19.8	14.6	13.8	73.7
57, 791	P. M. C.	Trenton	Adult		18.8	13.9	High.	73.9
57, 788	do	do	do		19.2	14.2	High.	74
228	F. M. N. H.	New Jersey	do		17.9	13.4		74.9
285, 306	U. S. N. M.		60		18.7	14	14	74.9
285, 313	do		60		18.8	14.4	13.7	76.6
285, 326	do		50		17.7	13.7	14.4	77.4
44, 742	P. M. C.	Keyport	Adult		18.4	14.3	13.7	77.7
57, 785	do	Trenton	do		17.6	13.9	13.7	79
Totals					(12) 223.80	(12) 166.70	(8) 111.80	(12)
Averages					18.65	13.89	13.97	74.4
Minima					17.6	13	13.7	68.4
Maxima					19.8	14.6	14.4	79

<sup>1</sup> Full report on this material has been published in Bulletin 62, Bu. Amer. Ethnology (Hrdlička, A., Physical Anthropology of the Lenape, etc.), Washington, 1916, 130 pp.

## Staten Island Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
90	16.43	-----	-----	7.3	14.8	-----	49.3	3.6	4.02	89.6	4.95	2.8	56.6
87.6	15.53	-----	-----	7.6	14.0	-----	54.5	3.3	3.9	84.6	5.05	2.6	51.6
85	15.87	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
87.6	16.30	-----	-----	7.5	15.2	-----	42.8	3.55	4.0	88.8	5.25	2.7	51.4
88.8	15.42	-----	12.1	7.5	-----	-----	-----	3.5	3.95	88.6	5.1	2.25	44.1
86.1	16.07	-----	12.3	7.7	14.6	84.2	52.7	3.55	4.15	85.5	5.65	2.45	43.4
(6)	(6)	-----	(2)	(5)	(4)	-----	(4)	(5)	(5)	(5)	(5)	(5)	(5)
87.5	95.62	-----	24.4	37.60	58.60	-----	-----	17.50	20.02	-----	26.00	12.80	-----
-----	15.94	-----	12.2	7.52	14.65	-----	51.4	3.50	4.00	87.4	5.20	2.56	49.2

## FEMALE

79.6	14.76	-----	-----	6.5	12.6	-----	51.6	3.15	3.95	79.7	4.8	2.55	53.1
83.3	14.96	-----	-----	6.4	-----	-----	-----	3.3	4.0	82.5	4.75	2.65	55.8
87.4	14.47	1,310	-----	-----	12.7	-----	-----	3.12	3.57	90.2	4.7	2.55	54.3
(3)	(3)	-----	-----	(2)	(2)	-----	-----	(3)	(3)	(3)	(3)	(3)	(3)
84.2	44.19	-----	-----	12.9	25.3	-----	-----	9.57	11.52	-----	14.25	7.75	-----
-----	14.73	-----	-----	6.45	12.65	-----	-----	3.19	3.84	83.1	4.75	2.53	54.4

## New Jersey Indian crania: Delaware (or Lenape)

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
89.4	15.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
88.2	15.47	1,515	11.8	6.8	13.7	86.1	49.6	3.4	3.9	87.2	5	2.2	44
80.2	16.07	1,720	12.6	7.4	14.2	88.7	52.2	3.4	3.95	86.1	5.3	2.8	52.8
-----	-----	1,415	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
85.6	15.57	1,505	12.2	7	13.9	87.8	50.4	3.35	3.75	89.3	5	2.9	58
82.5	15.63	1,550	12	7.2	14	85.7	51.4	3.2	4.1	78.1	5.15	3	53.3
91.7	15.27	1,470	12.1	6.9	13.6	89	50.7	3.3	3.6	91.7	5	2.35	47
83.8	15.46	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
87	15.06	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(8)	(8)	(6)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
86	123.96	9,175	60.70	35.30	69.40	-----	-----	16.65	19.30	-----	25.45	13.25	-----
-----	15.49	1,529	12.14	7.06	13.88	87.5	50.9	3.33	3.86	86.3	5.09	2.65	52.1
80.2	15.06	1,415	11.8	6.8	13.6	85.7	49.6	3.2	3.6	78.1	5	2.2	44
91.7	16.07	1,720	12.6	7.4	14.2	89	52.2	3.4	4.1	91.7	5.3	3	58.3

<sup>2</sup> Near.

## New Jersey Indian crania: Delaware (or Lenape)—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
(5)	A. M. N. H.	Trenton	Adult	-----	18.3	12.1	-----	66.1
(7)	do.	do.	do.	-----	18.1	12.4	-----	68.5
57,790	P. M. C.	do.	do.	-----	18.3	12.8	High.	69.9
19,512	do.	Westchester, Pa.- Delaware Valley.	do.	-----	18.1	13	13.2	71.8
285,309	U. S. N. M.	do.	45	-----	18.2	13.3	13.1	73.1
(4)	A. M. N. H.	Trenton	do.	-----	17.6	12.9	12.8	73.3
57,797	P. M. C.	do.	do.	-----	17	12.5	13.5	73.5
57,794	do.	do.	do.	-----	17.4	12.8	-----	73.6
226	F. M. N. H.	do.	do.	-----	17	12.6	12.9	74.1
285,327	U. S. N. M.	do.	45	-----	17.6	13.1	12.4	74.4
118	A. N. S. P.	do.	Adult	-----	17.8	13.5	13.6	75.8
1,264	do.	do.	do.	-----	17.4	13.3	13.3	76.4
285,307	U. S. N. M.	do.	28	-----	16.9	13	12.9	76.9
285,320	do.	do.	50	-----	17.4	13.4	13	77
(6)	A. M. N. H.	Trenton	Adult	-----	17	13.1	13	77
568	A. N. S. P.	do.	do.	-----	17.2	13.3	13.3	77.3
40	do.	do.	do.	-----	17.8	13.8	12.9	77.5
1,265	do.	do.	do.	-----	17.4	13.6	13.2	78.2
(3)	A. M. N. H.	do.	do.	-----	17.4	13.6	12.6	78.2
(1)	do.	do.	do.	-----	17.1	13.7	-----	80.1
225	F. M. N. H.	do.	do.	-----	17.2	13.9	12.5	80.8
227	do.	do.	do.	-----	17.2	13.9	13.4	80.8
Totals	-----	-----	-----	-----	(22) 385.40	(22) 289.60	(17) 221.60	(22) -----
Averages	-----	-----	-----	-----	17.52	13.16	13.03	75.1
Minima	-----	-----	-----	-----	16.90	12.1	12.4	66.1
Maxima	-----	-----	-----	-----	18.30	13.9	13.6	80.8

## Pennsylvania Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
306,989	U. S. N. M.	Chester County	Adult	-----	19.5	13.9	14.2	71.8
288,920	do.	Northampton County.	35	-----	19.2	14.6	-----	76
111/28	C. I. P.	Blairsville, Pa.	Adult	-----	17.7	14.8	14.3	83.6
Totals	-----	-----	-----	-----	(3) 56.4	(3) 43.3	(2) 28.5	(3) -----
Averages	-----	-----	-----	-----	18.8	14.43	14.25	76.8

## FEMALE

19,512	P. M. C.	West Chester, Chester County.	Adult	-----	18	12.8	13	71.1
288,917	U. S. N. M.	Northampton County.	do.	-----	17	13.1	13.4	77.1
288,368	do.	do.	do.	-----	17.4	13.9	13.9	79.9
288,918	do.	do.	do.	-----	17.1	14.3	13.4	83.6
1/3828	C. I. P.	Blairsville, Pa.	do.	-----	16.6	14.1	12.8	84.9
Totals	-----	-----	-----	-----	(5) 86.1	(5) 68.2	(5) 66.5	(5) -----
Averages	-----	-----	-----	-----	17.22	13.64	13.30	79.2

## New Jersey Indian crania: Delaware (or Lenape)—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
				6.7	11.9		56.3	3.4	3.7	91.9	4.9	2.4	48.9
84.9	14.77			7.2				3.7	3.85	96.1	5.05	2.4	47.6
83.2	14.87	1,300						3.3	3.65	90.4	4.9	2.6	53.1
83.9	14.43												
91.5	14.33												
87.2	14.17	1,280		6.7	12		55.8	3.3	4	82.6	4.5	2.55	66.7
80.8	14.37	1,225	11.2	6.6	12.4	90.3	53.2	3.38	3.58	94.4	4.8	2.6	54.2
86.9	14.97			7				3.5	3.4	87.5	4.8	2.8	58.3
86.6	14.67				12.7			3.55	3.7	95.9	4.9	2.6	53.1
86.3	14.27	1,240		6.8	12.4		54.8	3.48	3.85	90.3	4.8	2.7	56.3
84.4	14.60	1,280						3.3			4.9	2.7	55.1
86.4	14.37			7				3.45	3.8	90.8	5	2.5	50.2
87.2	14.60			6.7	12.8		52.3	3.2	3.9	82.1	5	2.6	52.2
81.6	14.83			6.9	12.6		54.8	3.2	3.7	86.5	4.8	2.55	55.1
85.2	14.73				12.7			3.2	3.75	85.3	4.5	2.55	56.7
81.3	14.53	1,360		6.3	12.8		49.2	3.45	4	86.2	5	2.4	48
80.4	14.53	1,325		7	13.2		53	3.45	4.2	82.1	5.2	2.6	50
86.2	14.83	1,340		6.9	13.7		60.4	3.35	3.95	84.8	5.1	2.3	46.1
(17)	(17)	(8)		(12)	(11)		(9)	(16)	(15)	(15)	(16)	(16)	(16)
84.9	247.87	10,350		81.80	139.20		53.2	3.39	3.8	89.3	4.88	2.55	52.3
80.4	14.58	1,294		6.82	12.65		49.2	3.2	3.4	82.1	4.5	2.3	45.1
80.4	14.17	1,225		6.3	11.9								
91.5	14.97	1,360		7.2	13.7		56.3	3.7	4.2	96.1	5.2	2.8	58.3

## Pennsylvania Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85	15.87	1,630	12.6	7.9				3.5	4.05	86.4	5.7	2.9	50.9
88	15.60												
(2)	(2)												
86.5	31.47												
	15.73												

## FEMALE

84.4	14.60			7.1				3.65	3.78	96.6	5.1	2.4	47.1
89	14.50	1,220	10.4	6.4	12.4	83.9	51.6	3.2	3.5	91.4	5	2.45	49
88.8	15.07	1,350	11	6.8	13	84.6	52.3	3.18	3.75	84.8	4.85	2.45	55.2
85.4	14.93		11.3	6.8	13.2	85.6	51.5	3.45	3.68	93.8	4.8	2.4	50
83.4	14.50												
(5)	(5)	(2)	(3)	(4)	(3)	(3)	(3)	(4)	(4)	(4)	(4)	(4)	(4)
86.2	73.60	2,570	32.7	27.1	38.6			13.48	14.71		19.75	9.7	
	14.72	1,285	10.9	6.75	12.87	84.7	51.8	3.37	3.68	9.17	4.94	2.42	49.1

## Maryland Indian crania: Algonkin

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
253, 154	U. S. N. M.	Piscataway Creek.	Adult		19.7	14.2		72.1
253, 148	do.	do.	do.		19.4	14.3		73.7
253, 146	do.	do.	do.		19	14.1	13.6	74.2
253, 155	do.	do.	do.		18.8	14		74.5
Totals					(4)	(4)		(4)
Averages					76.9	56.6		73.6
					19.22	14.15		

## FEMALE

228, 367	U. S. N. M.	Sandy Hill, Cambridge, Md.	Adult		18.9	13.4		70.9
228, 366	do.	do.	do.		18.4	13.3	12.9	72.3
253, 147	do.	Piscataway Creek.	do.		17.9	13.3		74.3
253, 150	do.	do.	do.		17.1	13.5		78.9
Totals					(4)	(4)		(4)
Averages					72.3	53.5		74
					18.08	13.38		

## Virginia Indian crania: Algonkin (or related)

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
228, 016	U. S. N. M.		50		19.3	13.7		71
14	V. M.		55		18.4	13.1		71.2
9	do.		Adult		18.8	13.4		71.3
35	do.		do.		17.8	12.8	14	71.9
169, 668	U. S. N. M.		45		19.2	13.9		72.4
19	V. M.		60		18.9	13.8	14.2	73
23	do.		70		19	14	14.6	73.7
228, 015	U. S. N. M.		Adult		18.3	13.5		73.8
22	V. M.		50		17.3	12.9	13.8	74.6
25	do.		55		18.7	14	14.6	74.9
226, 428	U. S. N. M.		55		19.5	14.6	14.7	74.9
32	V. M.		Adult		17.3	13	13.9	75.1
226, 404	U. S. N. M.		40		18.2	13.7		75.3
33	V. M.		Adult		17.9	13.6	14.5	76
226, 401	U. S. N. M.		60		18.5	14.1		76.2
226, 395	do.		65		18.3	14	14.3	76.5
228, 013	do.	Near Linville, Rockingham County.	40		18.7	14.3	13.6	76.5
31	V. M.		Adult		18.5	14.2		76.8
36	do.		do.		18.7	14.4	15	77
226, 394	U. S. N. M.		45		18	13.9	14.4	77.2
228, 006	do.		50		18.6	14.4		77.4
228, 007	do.		55		18.4	14.3	13.9	77.7
288, 012	do.		45		18	14	13.6	77.8
24	V. M.		50		18.1	14.2	13.9	78.4
2	do.		Adult		17.4	13.8	14	79.3
16	do.		65		18.2	14.5	14.8	79.7

<sup>1</sup> Near.



Maryland Indian crania: Algonkin

MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.2	15.57	1,430						3.48	3.98	87.4	5.4	2.7	50

FEMALE

81.4	14.87	1,280											

Virginia Indian crania: Algonkin (or related)

MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
191.5	14.87		12.5	7.4	13.4			3.3	3.75	88	5.3	2.6	49.1
86.9	15.63							3.4	3.95	86.1			
84.8	15.86							3.6	3.9	92.3	5.6	2.9	51.8
91.4	14.66			17.3	12.6		1.57	3.1	3.65	84.9	5.1	2.7	52.9
89.3	15.76							3.4	3.75	90.7	5.5	2.75	50
86.2	16.27												
91.7	14.73												
			12.9	7.7	14.1	91.5	54.6	3.6	4	90	5.3	2.8	52.8
92.1	15.33			7.3	13.3		54.9	3.1	3.6	86.1	5.2	2.8	53.8
								3.5	4.1	85.4			
88.5	15.53							3.4	3.9	87.2			
82.4	15.53												
					14.7								
90.6	16.03							3.45	3.8	90.8	5.5	2.6	47.8
90.3	15.43												
85	15.53			7.3	15.3		47.7	3.7	4.15	89.2	5.4	2.8	51.3
85	15.20												
86.1	15.40							3.35	3.7	90.5	5.1	2.5	49
89.7	15.06			7.2				3.5	3.8	82.1	5.1		
90.5	15.83				15.1			3.45	4.05	85.2	5.25	2.8	53.3

## Virginia Indian crania; Algonkin (or related)—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
148, 325	U. S. N. M.	-----	50	-----	13.7	15	-----	80.2
1	V. M.	-----	Adult	-----	18.1	14.6	14.4	80.7
228, 002	U. S. N. M.	-----	45	-----	17.8	14.4	14.5	80.9
Totals	-----	-----	-----	-----	(29) 532.60	(29) 404.10	(19) 270.70	-----
Averages	-----	-----	-----	-----	18.56	13.93	14.25	75.9
Minima	-----	-----	-----	-----	17.3	12.8	13.6	71
Maxima	-----	-----	-----	-----	19.5	15	15	80.9

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
228, 004	U. S. N. M.	-----	Adult	-----	18.6	13.2	-----	71
15	V. M.	-----	40	-----	18.1	13	-----	71.8
10	do	-----	55	-----	18.2	13.3	14	73.1
170, 678	U. S. N. M.	-----	40	-----	18.2	13.4	13.5	73.6
29	V. M.	-----	Adult	-----	18.2	13.4	-----	73.6
13	do	-----	45	-----	18.3	13.5	-----	73.8
27	do	-----	Adult	-----	17.4	13	13.9	74.7
38	do	-----	do	-----	17.4	13	-----	74.7
8	do	-----	60	-----	17.9	13.4	-----	74.9
34	do	-----	Adult	-----	17.7	13.3	-----	75.1
228, 010	U. S. N. M.	-----	55	-----	17.3	13	13.1	75.1
12	V. M.	-----	40	-----	17.8	13.4	-----	75.3
5	do	-----	40	-----	17.1	13.6	13.5	75.9
21	do	-----	35	-----	18.2	13.9	13.9	76.4
11	do	-----	45	-----	18	13.8	14	76.7
28	do	-----	Adult	-----	17.6	13.5	-----	76.7
228, 001	U. S. N. M.	-----	40	-----	18	13.8	-----	76.7
3	V. M.	-----	60	-----	17.6	13.6	12.9	76.8
6	do	-----	40	-----	18.3	14.1	13.7	77
26	do	-----	Adult	-----	18	13.9	13.5	77.2
228, 014	U. S. N. M.	-----	do	-----	16.6	13	-----	78.3
172, 469	do	-----	70	-----	17.6	13.8	-----	78.4
7	V. M.	-----	40	-----	17.5	13.8	13.6	78.9
37	do	-----	Adult	-----	17.2	13.6	13.3	79.1
170, 471	U. S. N. M.	-----	do	-----	17.9	14.2	-----	79.3
30	V. M.	-----	do	-----	18	14.3	13.3	79.4
20	do	-----	40	-----	17.7	14.1	13.7	79.7
4	do	-----	25	-----	16.7	13.5	13.4	80.8
Totals	-----	-----	-----	-----	(28) 497.10	(28) 379.40	(15) 203.30	-----
Averages	-----	-----	-----	-----	17.75	13.55	13.55	76.3
Minima	-----	-----	-----	-----	16.6	13	12.9	71
Maxima	-----	-----	-----	-----	18.6	14.3	14	80.8

## Kentucky Indian crania (prewhite)

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
290, 018	U. S. N. M.	Green River, Ohio County.	Adult	-----	18.7	13.2	13.6	70.6
290, 054	do	do	do	-----	18	13	-----	72.2
290, 069	do	do	do	-----	17.6	13	13.6	73.9
290, 039	do	do	do	-----	18.4	13.6	14.2	73.9
290, 061	do	do	do	-----	17.5	13	14.2	74.3
290, 026	do	do	do	-----	17.3	12.9	(13.4)	74.6
290, 045	do	do	do	-----	17.4	13	-----	74.7
290, 036	do	do	do	-----	17.8	13.3	14	74.7

<sup>1</sup> Left.

## Virginia Indian crania; Algonkin (or related)—Continued

## MALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
88.1	15.70							3.2	3.8	84.2			
90.1	15.57												
(19)	(19)	293.92	(2)	(6)	(7)		(4)	(15)	(15)	(15)	(11)	(10)	(10)
88.6	15.47		25.4	44.20	98.50		52.3	51.05	57.90	88.2	58.35	27.25	61.2
82.4	14.66		12.7	7.37	14.07		47.7	3.4	3.86	84.2	5.3	2.72	47.3
92.1	16.27		12.5	7.2	12.6		57	3.1	3.6	92.3	5.1	2.9	53.8
			12.9	7.7	15.3			3.7	4.15		5.6		

## FEMALE

								3.2	3.85	83.1	5	2.6	52
88.9	15.16												
85.4	15.03			6.1				3.3	3.75	88			
91.4	14.76												
86.5	14.46												
87.9	14.73		11.4	6.6	13		51.1	3.2	3.63	88.3	4.5	2.65	58.9
86.6	15.33			7	12.8	89.1	54.7	3.3	3.7	89.2	5.05	2.9	57.4
88.1	15.26												
82.7	14.70				12.9			3.58	3.85	92.9	5.4	2.75	50.9
84.5	15.33			7	13.4		52.2	3.3	3.55	92.7	5.05	2.7	55.5
84.6	15.13												
86.9	14.06												
86.4	14.70												
82.4	15.20		11.7	7.1	13.3	88	54.2	3.4	3.8	89.5	5.2	2.8	53.8
80.2	15.16			6.8	13.3		51.1	3.12	3.77	82.8	4.8	2.5	52.1
83.7	14.53												
(15)	(15)	224.44	(2)	(6)	(6)	(2)	(5)	(8)	(8)	(8)	(7)	(7)	(7)
86.4	14.96		23.1	40.60	78.70			26.40	29.90		35	18.90	
82.4	14.46		11.65	6.77	13.12	88.5	52.4	3.3	3.74	88.5	5	2.7	54
82.4	14.46		11.4	6.1	12.8	88	51.1	3.12	3.55	82.8	4.5	2.5	50.9
91.4	15.33		11.7	7.1	13.4	89.1	54.7	3.58	3.85	92.9	5.4	2.9	58.9

## Kentucky Indian crania (prewhite)

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.5	15.17	1,485	11.8	6.85				3.15	3.9	80.8	4.7	2.15	45.7
		(1,390)											
88.9	14.73	1,380		6.8				3.1	3.7	83.8	5		
88.7	15.40	1,445	11.5	7.1	14.2	81	50	3.1	3.95	78.5	5.05	2.65	52.5
93.4	14.90	1,330	12.1	7.4	13.9	87	53.2	3.2	3.65	87.7	5.3	2.3	45.4
(88.7)	(14.53)	(1,295)	11	6.65	13.1	84	50.8	2.92	3.8	76.8	4.55	2.25	49.4
								3.5	3.7	94.6			
90.3	15.03	1,420	11.7	6.85	13.2	88.6	51.9	3.1	3.7	88.8	4.65	2.4	51.6

<sup>1</sup> Teeth badly diseased.

## Kentucky Indian crania (prewhite)—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
290, 016	U. S. N. M.	Green River, Ohio County.	Adult.		17.9	13.4	14.5	74.9
290, 041	do.	do.	do.		18	13.5	13.6	75
290, 043	do.	do.	do.		17.8	13.4	14.2	75.3
290, 042	do.	do.	do.		18	13.6	13.6	75.6
290, 025	do.	do.	do.		18.5	14	13.8	75.7
290, 055	do.	do.	do.		17.3	13.1		75.7
290, 030	do.	do.	do.	Slight asymmetry.	18.2	13.8		75.8
290, 021	do.	do.	do.		17.6	13.4	13.6	76.1
290, 059	do.	do.	do.		17.4	13.3	14	76.4
290, 035	do.	do.	do.		18	13.8	14.1	76.7
290, 037	do.	do.	do.		18	13.8	14.6	76.7
290, 020	do.	do.	do.		17.8	13.7	14.3	77
290, 070	do.	do.	do.		17.8	13.7	14.3	77
290, 073	do.	do.	do.		17.2	13.3	14	77.3
290, 023	do.	do.	do.		18	14	13.4	77.8
290, 017	do.	do.	do.		17.4	13.6	13.7	78.2
290, 047	do.	do.	do.		17.8	14	14.4	78.6
290, 040	do.	do.	do.		17	13.4	13.9	78.8
290, 015	do.	do.	do.		18	14.2	14.3	78.9
290, 067	do.	do.	do.		18	14.2		78.9
290, 057	do.	do.	do.		17.4	13.8	13.8	79.3
290, 038	do.	do.	do.		17.6	14	13.8	79.5
290, 080	do.	do.	do.		17	13.6	13.6	80
290, 029	do.	do.	do.		16.9	13.6	13.4	80.5
290, 082	do.	do.	do.		17	13.8		81.2
290, 062	do.	do.	do.		17.8	14.6	14.2	82
Totals					(34) 602	(34) 461.6	(27) 376.7	(34) 76.7
Averages					17.7	13.58	13.95	76.7
Minima					16.9	12.9	13.4	70.6
Maxima					18.7	14.6	14.6	82

  

FEMALE								
290, 072	U. S. N. M.	Green River, Ohio County.	Adult.		17.4	12.4	12.4	71.3
290, 049	do.	do.	Adolescent.		17.6	13	13.4	73.9
290, 071	do.	do.	Senile.		17.6	13	13.6	73.9
290, 048	do.	do.	Adult.		17.8	13.2	13	74.2
290, 022	do.	do.	do.		17.3	12.9	13.7	74.6
290, 024	do.	do.	do.		16.9	12.6	13.4	74.6
290, 050	do.	do.	do.		17.2	13	12.9	75.6
290, 046	do.	do.	Adolescent.		17.2	13	13	75.6
290, 034	do.	do.	Adult.		17.2	13		75.6
290, 064	do.	do.	do.		17.6	13.4	13.2	76.1
290, 032	do.	do.	do.		17.2	13.1	13.7	76.2
290, 068	do.	do.	do.		17	13	13	76.5
290, 006	do.	do.	Near adult.		17.2	13.2	12.9	76.7
290, 053	do.	do.	Adult.		17.2	13.2	13	76.7
290, 033	do.	do.	do.		17.5	13.5	13.4	77.1
290, 044	do.	do.	Adolescent.		16.85	13	12.4	77.4
290, 077	do.	do.	Near adult.		16.8	13	12.8	77.4
290, 051	do.	do.	Adult.		17.5	13.6	13.4	77.7
290, 063	do.	do.	do.		17.1	13.3	13.4	77.8
290, 007	do.	do.	do.		16.8	13.2	13.2	78.6
290, 027	do.	do.	Near adult.		16.5	13	13.4	78.8
290, 019	do.	do.	Adult.		16.2	12.8	13.1	79
290, 065	do.	do.	Near adult.	Slight asymmetry.	16.3	13	13.2	79.7
290, 058	do.	do.	Adult.		17	13.6	13	80
290, 060	do.	do.	Near adult.		15.9	12.8	12.8	80.5
290, 028	do.	do.	Adult.		15.9	13.2	12.6	83
Totals					(26) 442.75	(26) 340	(25) 327.9	(26) 77
Averages					17.03	13.12	13.11	77
Minima					15.9	12.4	12.4	71.3
Maxima					17.8	13.6	13.7	83

<sup>1</sup> Left.<sup>2</sup> Teeth badly diseased.

Kentucky Indian crania (prewhite)—Continued

MALE—Continued

Table with 14 columns: Mean Height Index, Cranial Module, Capacity in c. c. (Hrdlička's method), Menton-Nasion Height (a), Alveol. Pt.-Nasion Height (b), Diam. Bitygomatic maxim. (c), Facial Index, total (aX100/c), Facial Index, upper (bX100/c), Orbits—Height, mean, Orbits—Breadth, mean, Orbital Index, mean, Nose, Height, Nose, Breadth maxim., Nasal Index. Contains data for 45 specimens.

FEMALE

Table with 14 columns: Same as above. Contains data for 45 specimens.

1 Teeth much worn.

## Ohio (Ross County) Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
134, 728	U. S. N. M.	Paint Creek	Adult		18.6	13.2	14	71
134, 733	do.	do.	do.		18.5	13.5	14.2	73
134, 734	do.	Ross County	do.		18.8	13.8	15	73.4
Totals					(3)	(3)	(3)	(3)
Averages					18.63	13.5	14.4	72.4

## FEMALE

134, 727	U. S. N. M.	Ross County	Adult		18.4	13	14.1	70.6
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## Ohio Indian crania: Miscellaneous Algonkin type

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 274	U. S. N. M.	Mercer County	Adult		18.5	14.1	14	76.2
243, 276	do.	Hamilton County	do.		17.6	13.6		77.3
29, 928	do.	Mercer County	do.		18	14		77.8
Totals					(3)	(3)		(3)
Averages					18.03	13.9		77.1

## FEMALE

243, 272	U. S. N. M.	"Ohio"	Adult		17.3	13.3		75.1
243, 887	do.	do.	do.		17.6	13.5		76.7
226, 006	do.	Greene County	do.		17.8	13.9	13.7	78.1
Totals					(3)	(3)		(3)
Averages					17.57	13.57		77.2

## Ohio (Ross County) Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
88	15.27	1,480		8.1	(14.3)			3.5	4	87.5	6.1	2.7	44.5
88.8	15.40	1,505			13.9			3.4	3.95	86.1	5.4	2.6	48.2
92	15.87												
(3)	(3)	(2)						(2)	(2)	(2)	(2)	(2)	(2)
89.6	15.51	1,492						6.9	7.95	86.8	5.75	2.65	46.1
								3.45	3.97				

## FEMALE

89.8	15.17		12	7.2	13.6	88.2	52.9	3.6	3.7	97.3	5.4	2.6	48.2
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## Ohio Indian crania: Miscellaneous Algonkin type

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.9	15.53	1,530											
		1,470	12.2	7.6	14.1	86.5	53.9	3.45	4	86.2	5.5	2.8	50.9
		(2)											
		3,000											
		1,500											

## FEMALE

86.4	15.13			6.6							4.8	2.25	46.9
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## Indiana Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma Height	Cranial Index
262, 137	U. S. N. M.	Mouth of Wabash River.	Adult	Very slight asymmetry.	18.1	14	15.2	77.4
243, 854	do.	Pitchersville	do.	Accessory bones deformed.	18.1	14.5	14.1	80.1
243, 853	do.	Eugene	do.	lambd. suture.	18.4	14.9	14.6	81
Totals					(3) 54.60	(3) 43.40	(3) 43.90	(5) 79.5
Averages					18.2	14.47	14.63	

## FEMALE

243, 844	U. S. N. M.	Lafayette	Adult		18	13.4	13	74.4
243, 851	do.	"Miami Indian," Indiana.	do.		17.6	13.6	13	77.3
243, 849	do.	Brown's Mill	do.				13.6	
Totals					(2) 35.60	(2) 27	(3) 39.60	(2) 75.8
Averages					17.8	13.5	13.2	

<sup>1</sup> About.<sup>2</sup> Right.

## Michigan Indian crania: Algonkin

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
289, 680	U. S. N. M.	Lapeer County	Adult	Somewhat warped vault measurement, approximate.	19.2	13.2	13.8	68.8
197, 419	do.	do.	do.		18.1	13.0	13.7	71.8
289, 681	do.	do.	do.	Somewhat warped, measurement approximate.	18.2	13.4		73.6
243, 635	do.	Wayne County	do.		18.3	13.7	13.2	74.9
243, 631	do.	do.	do.		18.2	13.7	13.6	75.3
49, 401	do.	Ogemaw County	do.		18.4	13.9	13.9	75.5
243, 632	do.	Wayne County	do.					
227, 325	do.	Mackinac Island	do.		19.0		13.5	
Totals					(7) 129.4	(6) 80.9	(6) 81.7	(6) 73.3
Averages					18.49	13.48	13.62	



## Indiana Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxin. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxin.	Nasal Index
94.7	15.77	1,470	-----	7.6	14	-----	54.3	3.5	3.9	89.7	5.4	2.8	51.8
86.6	15.57	1,565	-----	6.65	13.6	-----	48.9	3.2	3.9	82	5.1	2.7	52.9
87.7	15.97	-----	-----	-----	-----	-----	-----	3.5	4	87.5	-----	-----	-----
(3)	(3)	(2)	-----	(2)	(2)	-----	(2)	(3)	(3)	(3)	(2)	(2)	(2)
89.6	47.31 16.77	3,035 1,617	-----	14.25 7.12	27.6 13.8	-----	51.6	10.2 3.4	11.8 3.93	86.4	10.5 5.25	5.5 2.75	52.4

## FEMALE

82.8	14.80	1,295	-----	7	-----	-----	-----	3.4	3.9	87.2	5	3.1	62
83.3	14.73	1,240	-----	-----	-----	-----	-----	3.25	3.8	85.5	5.1	2.7	52.9
-----	-----	-----	10.6	6.2	-----	-----	-----	3.65	3.8	96	4.65	2.4	51.6
(2)	(2)	(2)	-----	(2)	-----	-----	-----	(3)	(3)	(3)	(3)	(3)	(3)
83.1	29.53 14.76	2,535 1,267	-----	13.2 6.6	-----	-----	-----	10.30 3.43	11.5 3.83	89.6	14.75 4.92	8.2 2.73	55.6

<sup>3</sup> Left.<sup>4</sup> Very near.

## Michigan Indian crania: Algonkin

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxin. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxin.	Nasal Index
85.2	15.40	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
88.1	14.93	1,340	12.6	7.6	-----	-----	-----	3.31	3.89	85.1	5.5	2.45	44.6
82.5	15.07	-----	-----	7.4	-----	-----	-----	3.6	3.86	92.3	5.5	2.7	49.1
85.3	15.17	1,410	-----	7.5	-----	-----	-----	3.35	3.9	85.9	5.5	2.6	47.3
86.1	15.40	1,510	12.5	7.4	14.1	88.6	53.2	3.35	3.9	85.9	5.6	2.9	51.8
(5)	(5)	(3)	(2)	(4)	-----	-----	-----	(3)	(3)	(3)	(4)	(4)	(4)
85.4	75.97 15.19	4,260 1,420	25.1 12.55	29.9 7.5	-----	-----	-----	10.26 3.42	11.65 3.9	88.1	22.1 5.52	10.65 2.66	48.2

## Michigan Indian crania; Algonkin—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 633	U. S. N. M.	Wayne County	Adult		17.6	12.9	12.6	73.3
227, 326	do	Mackinac Island	do		18.8	14.2	13.1	76.5
274, 063	do	Genesee County	do		17.6	14.1	13.0	80.1
243, 634	do	Wayne County	do		16.7	13.8		82.6
289, 684	do	Lapeer County	do		17.0		12.9	
Totals					(5) 87.7	(4) 55	(4) 51.6	(4) 77.8
Averages					17.64	13.75	12.9	

<sup>1</sup> About.

## Illinois Indian crania: Miscellaneous Algonkin

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 881	U. S. N. M.	Jersey County	Adult		19.6	13.8	13.3	70.4
4, 547	D. A. S.	Henry County	do		19.3	13.6	14.1	70.5
242, 966	U. S. N. M.	Jersey County	Near senile.		19.1	13.6	14.0	71.2
227, 450	do	Carroll County	Adult		18.1	13.0		71.8
225, 067	do	Jersey County	do		18.0	13.1	14.2	72.8
243, 026	do	do	do		18.6	13.6	14.8	73.1
4, 535	D. A. S.	Rock Island County	do		18.4	13.6	13.6	73.9
227, 439	U. S. N. M.	Madison County	do		18.1	13.4		74
242, 965	do	Jersey County	do		18.8	14.0		74.5
242, 989	do	do	do		19.0	14.2	14.7	74.7
225, 066	do	do	do		18.2	13.6	14.2	74.7
243, 013	do	do	do		18.8	14.1	14.6	75
243, 014	do	do	do		18.6	14.0		75.3
8, 186	D. A. S.	Hancock County	do		18.2	13.7	14.2	75.3
243, 025	U. S. N. M.	Jersey County	do		17.9	13.6	14.2	76
4, 543	D. A. S.	Rock Island County	do		18.6	14.2	14.2	76.3
136, 775	U. S. N. M.	Schuyler County	do		17.8	13.6	14.6	76.4
227, 435	do	Madison County	do		18.3	14.0	14.8	76.5
242, 964	do	Jersey County	do		18.1	13.9	14.7	76.8
243, 000	do	Union County	do		18.2	14.0		76.9
227, 449	do	Jersey County	do		18.2	14.1	14.2	77.5
227, 438	do	Madison County	do	Very slight asymmetry.	18.2	14.2		78.0
242, 963	do	Jersey County	Near senile.		18.0	14.1	13.4	78.3
298, 952	do	Fulton County	Adult		17.8	14.0	13.4	78.6
243, 985	do	Jersey County	do		18.0	14.2	14.2	78.9
243, 180	do	Randolph County	do		17.4	13.9	14.1	79.9
242, 998	do	Jersey County	do		17.4	14.0		80.5
243, 009	do	Madison County	do		18.0	14.5		80.6
243, 022	do	Jersey County	do		18.2	14.8		81.3
225, 272	do	Union County	do	Slight asymmetry.	18.1	14.8	15.0	81.8
Totals					(30) 549	(30) 417.2	(21) 298.5	(30) 76
Averages					18.30	13.91	14.21	76
Minima					17.4	13	13.3	70.4
Maxima					19.6	14.8	15	81.8

## Michigan Indian crania; Algonkin—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.6 79.4 82.0	14.37 15.37 14.90	1,250 1,520 1,450	11.0	7.0	12.5	88	56	3.2	3.9	82.0	5.1	2.6	51
			10.6	6.7 6.2 6.2	13.3 13.3	79.7	60.4 46.6	3.45 3.37 3.2	3.65 3.8 3.9	94.5 88.7 82.0	5.35 5.1 4.9	2.55 2.65 2.5	47.7 52 51.0
(5)	(3)	(3)	(2)	(4)	(3)	(2)	(5)	(4)	(4)	(4)	(4)	(4)	(4)
81.5	44.64 14.88	4,220 1,407	21.6 10.8	26.1 6.6	39.1 13	83.7	60.9	13.22 3.5	15.25 3.81	86.7	20.45 5.11	10.3 2.67	60.4

¹ Right.

## Illinois Indian crania: Miscellaneous Algonkin

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
79.6 85.7 86.6	15.57 15.67 15.63	1,450 1,455									5.2	2.6	50
					13.3			3.28	3.68	89.1	5.0	2.85	67
				6.8				3.22	3.96	81.5	5.0	2.85	67
91.5 91.9 85	15.10 15.67 15.20	1,450 1,535	13.3	8.3	15.2	87.5	64.6	3.55	3.88 3.95	91 89.9	5.75 5.2	2.25 2.1	39.1 40.4
			12.3 12.3	7.5 7.9	13.4	91.8	66	3.7 3.5	4.0 3.85	92.5 90.9	5.4 5.4	2.5 2.35	46.5 43.5
88.6 89.2 88.8	15.97 15.33 15.83	1,590 1,450 1,605		7.5 7.2	14.3		62.4	3.4	4.05	84	5.4	2.6	48.2
			12.0	7.3	14.5	82.8	60.3	3.5 3.7	4.1 4.2	86.4 88.1	5.7 5.45	2.5 2.7	45.9 49.5
89.0 90.2 86.6	15.37 15.23 15.67	1,450		7.3	13.6		63.7	3.52	3.88	90.7	5.35 5.1 5.5	2.5 2.7 2.45	46.7 52.9 44.5
93 91.6 91.9	15.33 15.70 15.57	1,510 1,520		7.2 6.9 7.6	14.0 14.2		61.4 63.5	3.8 3.36 3.7	4.18 4.05 4.2	90.9 89 88.1	5.15 4.9 5.1	2.8 2.85 3.0	54.4 58.2 44.1
			12.6	7.4 7.9 7.8	13.6	92.6	68.1	3.45 3.6 3.6	3.8 3.93	90.8 91.6	5.1 5.6 5.4	3.0 2.5 2.5	58.8 44.6 46.5
83.5	15.17	1,430			13.9			3.45	3.95	87.3	5.1	2.35	46.1
84.3 88.2 90.1	15.07 15.47 15.13	1,360 1,520 1,360						3.25	3.8	85.5	5.3 5.6 5.4	2.65 2.5 2.55	50 44.6 47.2
				7.4	14.2		62.1	3.75	4.05	92.6	5.4	2.4 2.65	47.2
				7.7				3.55	4.05	87.6	5.8	2.65	46.7
(21)	(21)	(16)	(7)	(16)	(13)	(5)	(9)	(20)	(20)	(20)	(24)	(26)	(24)
88.2 79.6 93	325.15 15.48 15.07 15.97	23,985 1,499 1,360 1,700	86.4 12.34 11.2 13.3	119.7 7.48 6.8 8.3	182.6 14.06 13.3 15.2	88.7 55.6 60.3 92.6	55.6 60.3 68.1	3.52 3.22 3.8	3.98 3.68 4.2	88.5 81.3 92.6	5.33 4.9 5.8	2.55 2.1 3	48.1 39.1 68.3

## Illinois Indian crania; Miscellaneous Algonkin—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
58,410	U. S. N. M.	Naples, Ill.	Adult		17.8	13.1	13.9	73.6
242,997	do	Jersey County	do		17.3	12.9	13.4	74.6
134,778	do	Calhoun County	do		17.9	13.4	14.2	74.9
303,664	do	Madison County	do		17.4	13.2	13.4	75.9
136,777	do	Cass County	do		16.7	12.7		76
243,011	do	Madison County	do		17.1	13.0	13.0	76.0
243,019	do	Calhoun County	do		17.6	13.4	13.1	76.1
227,444	do	Madison County	do		16.4	12.5	13.0	76.2
227,445	do	do	do		17.5	13.4	13.8	76.6
243,033	do	Alexander County	do		17.5	13.0		77.1
303,666	do	Madison County	do		17.1	13.2	12.9	77.2
242,999	do	Kane County	do	Very slight asymmetry.	17.1	13.2	12.8	77.2
227,437	do	Madison County	do		16.4	12.7	13.0	77.4
4,546	D. A. S.	Henry County	do		17.3	13.4		77.5
242,978	U. S. N. M.	Randolph County	do		17.1	13.3	13.9	77.8
7,802	D. A. S.	Rock Island County	do		17.2	13.4	12.5	77.9
242,990	U. S. N. M.	Cheneys Grove, Ill.	do		17.8	13.9	13.1	78.1
242,983	do	Jersey County	do		17.0	13.3	14.2	78.2
60,281	do	Henderson County	do		17.4	13.6	13.6	78.2
242,972	do	Randolph County	do		17.6	13.8	14.0	78.4
4,544	D. A. S.	Henry County	do		17.4	13.7	13.8	78.7
242,996	U. S. N. M.	Jersey County	do		16.5	13.0	13.5	78.8
225,271	do	Union County	do		16.6	13.1		78.9
227,448	do	Madison County	do		17.1	13.6	13.4	79.5
242,975	do	Randolph County	do		17.6	14.0	13.9	79.6
227,443	do	Madison County	do		17.4	13.9		79.9
136,776	do	Cass County	do		17.6	14.1	12.9	80.1
242,980	do	Randolph County	do		17.2	13.8	13.9	80.2
227,442	do	Madison County	do		16.8	13.5		80.4
243,603	do	Jersey County	do		16.2	13.1	13.3	80.9
301,993	do	Rock Island County	do	Very slight asymmetry.	17.0	13.8	13.6	81.2
243,178	do	Randolph County	do		17.2	14.0		81.4
243,001	do	Madison County	do	Very slight asymmetry.	16.2	13.2		81.5
4,406	D. A. S.	Albany mounds	do		16.9	13.8	14.2	81.7
243,012	U. S. N. M.	Jersey County	do		17.0	13.9	14.0	81.8
242,969	do	Randolph County	do		17.4	14.3		82.2
242,977	do	do	do		17.0	14.0	14.4	82.4
243,185	do	do	do		17.6	14.5	14.4	82.4
7,545	D. A. S.	Henry County	do		17.7	14.6		82.5
Totals					(39)	(39)	(29)	(59)
Averages					17.17	13.49	13.55	78.6
Minima					16.2	12.5	12.5	73.6
Maxima					17.9	14.6	14.4	82.5

## Illinois Indian crania; Miscellaneous Algonkin—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index	
90	14.93				12.1									
88.7	14.53	1,800			12.7			3.58	3.75	96.6	5.1	2.75	53.9	
90.7	15.17	1,455			13.3			3.38	4.0	84.6	4.9	2.8	67.1	
87.6	14.67	1,255		6.5	12.3		52.8	3.37	3.7	91.1	4.8	2.45	51.0	
		1,220		6.6	12.3		53.7	3.58	3.85	90.4	4.9	2.3	46.9	
86.4	14.63				12.4			3.6	3.8	94.7	5.1	2.5	49.0	
84.5	14.70	1,390	11.7		12.9	90.7		3.65	3.83	96.3	5.2	2.4	46.2	
90	13.97	1,110		6.2	12.3			3.38	3.52	96.0	4.4	2.55	58	
89.3	14.90	1,280		6.1	12.2		50	3.08	3.65	84.4	4.55	2.7	59.3	
				7.4	12.9		57.4	3.6	4.0	90	5.3	2.5	47.2	
				7.0	12.7	90.6	56.1	3.45	3.77	91.6	4.9	2.65	54.1	
85.2	14.40	1,230	11.5		12.5			3.5	3.7	94.6		2.35		
84.5	14.37	1,210												
89.4	14.03	1,215		6.3	11.8			53.4	3.3	3.8	88.8	4.8	2.7	56.2
91.4	14.77	1,455	11.8	6.9							4.9	2.65	54.1	
81.7	14.37			6.5	13.1		49.6				4.7	2.5	53.2	
82.6	14.93			6.1	13.0		46.9	3.25	3.7	87.8	4.6	2.75	59.8	
93.7	14.83		11.6	7.2	12.8	90.6	56.2	3.45	3.8	90.8	5.0	2.6	52	
87.7	14.87	1,310	11.9	7.2	13.0	91.6	55.4	3.3	3.9	84.6	5.2	2.5	48.1	
89.2	15.13											2.75		
88.7	14.97													
91.6	14.33	1,220												
87.3	14.70	1,350	11.4	7.0	12.9	88.4	54.3	3.46	3.85	89.9	4.9	2.45	50	
88	15.17	1,430		7.1	13.0		54.6	3.2	3.7	86.6	4.9	2.45	50	
				7.3				3.72	4.0	93	5.2	2.7	51.9	
81.4	14.87	1,330			13.0			3.07	3.65	84.1				
89.7	14.97	1,325									5.4	2.5	46.3	
			11.8	7.3	12.6	93.6	57.9	3.5	3.8	92.1	5.4	2.6	48.2	
90.8	14.20	1,130		6.2	12.7		48.8	3.45	3.6	95.8	4.6	2.4	52.2	
83.3	14.80													
		1,400		7.3							5.1	2.9	56.9	
					12.8									
92.5	14.97													
90.6	14.97	1,350		7.2	12.3		58.6	3.27	3.85	84.9	5.15	2.7	52.4	
											4.65	2.75	59.1	
92.9	15.13	1,435	11.2	6.8				3.45	3.85	89.6	4.9	2.7	55.1	
89.7	15.50													
(29)	(20)	(21)	(8)	(20)	(24)	(6)	(16)	(23)	(23)	(23)	(26)	(28)	(26)	
83.4	427.78	27,400	92.9	136.2	303.6	90.9	53.4	78.59	87.07	90.3	128.55	72.55	52.5	
81.4	14.75	1,305	11.61	6.81	12.65	88.4	46.9	3.42	3.79	84.1	4.94	2.69	46.2	
93.7	15.50	1,455	11.9	7.4	13.3	93.6	58.5	3.07	3.52	96	5.4	2.9	59.8	

## Wisconsin Indian crania: Algonkin

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
172,793	U. S. N. M.	Not given	Aged		18.7	13.9		74.3
115,432	do	Barron County	Adult		18.1	13.5	14	74.6
115,477	do	do	do		18.4	14.6	14.1	79.4
115,474	do	do	do					
243,290	do	Vernon County	do					
243,291	do	do	do					
Totals					(3)	(3)	(2)	(3)
Averages					55.2	42.0	28.1	76.1
					18.4	14	14.05	

## FEMALE

115,475	U. S. N. M.	Barron County	Adult		17.6	12.6	12.8	71.6
115,467	do	Crawford County	do		17.7	12.7	12.8	71.8
243,289	do	Vernon County	do		<sup>1</sup> 17.2	13		<sup>1</sup> 75.6
115,465	do	Barron County	do	Slight asymmetry.	17.4	13.4	13.4	77
150,045	do	Outagamie County	do		17.6	13.8	13.5	78.4
243,283	do	Jefferson County	do					
243,285	do	do	do					
Totals					(5)	(5)	(4)	(5)
Averages					57.5	65.5	52.5	74.9
					17.5	13.1	13.1	

<sup>1</sup> Near.Iowa (State) Indian crania <sup>1</sup>

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
6,781	D. A. S.	Scott County	Adult		18.6	13.8		74.2
305,102	U. S. N. M.	Council Bluffs	do		17.6	14.1	14.1	80.1
243,841	do	Near Davenport	Aged	Marked fronto-occipital.	(17.1)	(14)	(14.4)	(81.9)
243,842	do	do	Adult	do				
243,843	do	do	do	do				
Totals					(2)	(2)		(2)
Averages					36.2	27.9		77.1
					18.1	13.95		

<sup>1</sup> These specimens should not be taken, at least not without corroboration, for those of the Iowa tribe of which we have as yet no authentic skeletal remains; and the averages, in the uncertainty as to what tribes are represented in the above small series, have only a regional value.

## Wisconsin Indian crania: Algonkin

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
88.6	15.20												
85.4	15.70	1,575		7.3				3.45	4.25	81.2	5.5	2.9	52.7
				7.5				3.57	4	89.2	5.8	2.5	48.1
				7.7							5.7	3	51.7
(2)	(2)			(3)				(2)	(2)	(2)	(4)	(3)	(3)
87	30.90 15.45			22.5 7.5				7.02 3.51	8.25 4.12	85.1	22.8 5.7	8.4 2.8	49.1

## FEMALE

84.8	14.33	1,160		6.4	12.5			3.6	3.81	94.7		2.7	
84.2	14.40	1,220		6.6	12.7		51.2	3.5	3.7	94.6	4.9	2.7	55.1
				6.6			52	3.49	3.9	89.7	5.2	2.5	48.1
87	14.73			17.2							1.5	2.4	148
86	14.97	1,420		6.6				3.4	3.8	89.6	5.3	2.55	48.1
				6.7				3.2	3.9	82.1	4.9	2.35	48
(4)	(4)	(3)		(5)	(2)		(2)	(5)	(5)	(5)	(5)	(6)	(5)
85.5	58.43 14.61	3,800 1,267		33.5 6.7	25.2 12.6		51.6	17.19 3.44	19.11 3.82	89.9	25.3 5.06	15.2 2.59	49.4

## Iowa (State) Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
89	15.27			7.1	13.7			3.25	4.03	86.6	5.2	2.7	51.9
(92.6)	15.17	1,520			(14.7)		51.8	3.7	4.05	91.4	5.6	2.6	46.4
				12.3	7.6			3.6	3.7	97.3	5.7	2.6	45.6
				11.1				3.65	4.1	89	5.2	2.6	50
	(2)		(2)	(2)				(4)	(4)	(4)	(4)	(4)	(4)
	30.44 15.22		23.4 11.7	14.7 7.35				14.2 3.55	15.88 3.97	89.4	21.7 5.42	10.5 2.62	48.4

## Iowa (State) Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
1,004	D. A. S.	Near Davenport	Adult		17.6	13.2	13.3	75
305, 101	do. U. S. N. M.	Princeton, Iowa Council Bluffs	do. do.		17.2 (16.5)	13.8	12.7 (13.6)	80.2
225, 295	do.	Iowa	do.	Moderate occipital flattening.	17.3			
227, 369	do.	Keokuk, Iowa	do.					
Totals					(3) 52.1	(2) 27	(2) 26	(2) 80.2
Averages					17.37	13.6	13	77.6

## Missouri (State) Indian crania: Miscellaneous

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
312, 742	U. S. N. M.	Near Arlington, Mo.	Adult		18.9	13.4	13.8	70.9
218, 993	do.	Exact locality not known.	do.	Very slight asymmetry.	18.9	14.0	14.4	74.1
312, 744	do.	Near Arlington, Mo.	do.	do.	18.6	13.8	13.9	74.2
89	G. Fowke	Boone County	do.		18.6	13.8		74.2
312, 743	U. S. N. M.	Near Arlington, Mo.	do.		18.4	14.5	14.6	78.8
128	G. Fowke	Near Kansas City, Mo.	do.		17.7	14.3	13.4	80.8
116	do.	Near Easley, Boone County.	do.					
27	do.	Near Hartsburg, Boone County.	do.					
124	do.	Near Easley, Boone County.	do.				14.4	
310, 734	U. S. N. M.	Millers Cave, Big Piney, Mo.	do.					
Totals					(6) 111.1	(6) 83.8	(6) 84.5	(6) 80.4
Averages					18.52	13.97	14.1	75.4

## FEMALE

310, 722	U. S. N. M.	Millers Cave, Big Piney Mo.	Adult		16.9	12.4	13.6	73.4
312, 717	do.	Bells Cave, Pulaski County.	do.		17.3	13.2	13.7	76.3
310, 732	do.	Millers Cave, Pulaski County.	do.		16.8	13.0	13.4	77.4
173, 996	do.	Mississippi County.	do.	Slight asymmetry.	17.4	13.6	13.8	78.2
243, 878	do.	Near St. Louis.	do.		17.2	13.5	14.2	78.5
173, 999	do.	Mississippi County.	do.	Slight occipital compression.	(16.8)	(13.5)	(14.6)	(80.4)
218, 994	do.	Exact locality unknown.	do.	Slight asymmetry.	16.7	13.8	14.1	82.6
173, 998	do.	Mississippi County.	do.	Marked fronto-occipital compression.				
218, 995	do.	Exact locality unknown.	do.		17.6			
Totals					(7) 119.9	(6) 79.5	(6) 82.8	(6) 80.4
Averages					17.13	13.25	13.8	77.7



## Iowa (State) Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
86.4 81.9	14.70 14.57	-----	-----	-----	-----	-----	-----	-----	-----	-----	5.2 5.05	2.55 2.5	49 49.5
-----	-----	-----	-----	7.1	-----	-----	-----	3.45	3.9	88.6	5.1	2.7	52.9
-----	-----	-----	11.9 10.4	7 6.6	-----	-----	-----	3.5 3.8	3.8 4	92.1 95	4.9 5	2.4 2.7	49 54
(2)	(2)	-----	(2)	(3)	-----	-----	-----	(3)	(3)	(3)	(5)	(5)	(5)
84.2	14.64	29.27	22.3	20.7	-----	-----	-----	10.75	11.7	91.9	25.25	12.85	50.9
-----	-----	-----	11.16	6.9	-----	-----	-----	3.6	3.9	-----	6.06	2.57	-----

## Missouri (State) Indian crania: Miscellaneous

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.4	15.37	-----	11.7	7.6	-----	-----	-----	3.35	4.05	82.7	5.3	2.6	49.1
87.5	15.77	1,550	-----	-----	-----	-----	-----	3.6	4.1	87.8	-----	-----	-----
85.8	15.43	1,555	-----	7.2	13.9	-----	51.8	3.4	3.9	87.2	5.4	2.4	44.4
88.8	15.83	1,570	12.9	7.8	14.4	89.6	64.2	3.45	3.85	89.9	5.4	2.55	47.2
83.7	15.13	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	12.3	7.3	-----	-----	-----	-----	-----	-----	5.3	2.7	50.9
-----	-----	-----	12.7	7.65	-----	-----	-----	-----	-----	-----	5.25	2.45	46.7
-----	-----	-----	-----	6.8	-----	-----	-----	-----	-----	-----	4.7	2.3	48.9
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.95	2.45	49.5
(6)	(5)	(3)	(4)	(6)	(2)	-----	(2)	(4)	(4)	(4)	(7)	(7)	(7)
86.3	15.61	1,658	12.4	7.4	14.16	-----	53	3.46	3.98	86.8	36.3	17.45	48.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5.2	2.5	-----

## FEMALE

92.8	14.30	1,240	12.3	7.5	12.4	99.2	60.5	3.48	3.8	91.6	5.2	2.7	51.9
89.8	14.73	1,320	10.7	6.7	12.8	83.6	62.3	3.4	3.85	88.3	4.85	2.4	49.5
89.9	14.40	1,295	-----	7.0	12.7	-----	55.1	3.6	3.9	92.3	5.35	2.25	42.1
89.0	14.93	1,355	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
92.5 (96.4)	14.97 14.97	1,310 1,240	-----	6.2 7.1	-----	-----	-----	3.3	3.7	89.2	4.9	2.7	55.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.9	2.6	53.1
92.5	14.87	1,370	-----	7.2	13.3	-----	54.1	-----	-----	-----	5.4	2.5	46.3
-----	-----	-----	-----	6.8	-----	-----	-----	3.4	3.75	90.7	4.7	2.25	47.9
-----	-----	-----	-----	7.5	-----	-----	-----	3.7	4.05	91.4	5.3	2.9	54.7
(6)	(7)	(7)	(2)	(8)	(4)	(2)	(4)	(6)	(6)	(6)	(8)	(8)	(8)
91.1	103.17 14.74	9,130 1,304	23 11.5	56.0 7	51.2 12.8	91.3	65.5	20.88 3.48	23.05 3.84	90.6	40.6 5.08	20.3 2.54	50

## Montana Indian crania: Algonkin-like

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 641	U. S. N. M.	Tongue River	Adult		18.8	14	13.4	75.3
243, 998	do	Montana	do		18.7	14.2	13.8	75.9
243, 660	do	Fort Shaw	do		17.5	14.2	13.9	81.1
Totals					(3)	(3)	(3)	(3)
Averages					54.8	42.4	41.1	77.4
					18.3	14.1	13.7	

## Cheyenne Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 554	U. S. N. M.	Fort Zarah, Kans.	Adult		18.8	13.5	12.8	71.8
243, 547	do	do	do		18.9	14.0	13.2	74.1
243, 593	do	Sand Creek, Colo.	do		18.4	13.8	13.0	75
225, 146	do	Kansas	Senile		19.0	14.4	12.4	75.8
225, 091	do	Sand Creek, Colo.	Adult		19.3	14.8	14.0	76.7
243, 727	do	Fort Supply, Wyo.	do		18.1	13.9	13.3	76.8
243, 552	do	Salina River, Kans.	do		18.6	14.4	13.9	77.4
243, 543	do	Fort Zarah, Kans.	do		18.1	14.3	13.6	79
243, 549	do	Kansas	do		17.1	13.6	13.4	79.5
225, 251	do	Nebraska	do		18.8	15.0	13.8	79.8
243, 733	do	Wyoming	do		18.6	14.9	13.4	80.1
243, 550	do	Salina River, Kans.	do		18.2	14.6	13.8	80.2
243, 553	do	Fort Zarah, Kans.	do		17.6	14.5	12.8	82.4
243, 551	do	Salina River, Kans.	do		17.7	14.6	13.8	82.5
Totals					(14)	(14)	(14)	(14)
Averages					257.20	200.30	187.20	
					18.37	14.31	13.37	77.9
Minima					17.10	13.50	12.40	71.8
Maxima					19.30	15.00	14.00	82.5

## FEMALE

243, 730	U. S. N. M.	Fort Laramie, Wyo.	Adult		17.2	13.6	12.7	79.1
243, 729	do	Wyoming	do		16.8	13.4	12.8	79.8
243, 723	do	do	do		17.3	14.4	12.4	83.2
Totals					(3)	(3)	(3)	(3)
Averages					51.30	41.40	37.90	
					17.10	13.80	12.63	80.7

1 Very near.

## Montana Indian crania: Algonkin-like

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.2	15.33	1,480	11	6.9	14	78.6	49.3	3.72	3.95	94.2	5.6	2.65	47.3
83.9	15.57	1,510	-----	7.3	13.4	-----	54.5	3.35	3.78	88.6	5.3	2.7	50.9
87.2	15.20	1,490	-----	7.4	14.2	-----	52.1	3.6	3.9	92.3	5.4	2.7	50
(5)	(3)	(3)	-----	(3)	(3)	-----	(3)	(3)	(3)	(3)	(3)	(3)	(3)
84.6	46.10	4,480	-----	21.6	41.6	-----	51.9	10.67	11.63	91.8	16.3	8.05	49.4
-----	15.37	1,493	-----	7.2	13.9	-----	-----	3.56	3.88	-----	5.4	2.7	-----

## Cheyenne Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
79.3	15.03	1,400	-----	6.8	13.4	-----	50.8	3.40	3.95	86.1	5.0	2.6	52
80.2	15.37	1,570	12.6	7.8	13.9	90.6	56.1	3.75	3.95	94.9	5.6	2.5	44.6
80.8	15.07	1,475	11.7	7.5	13.5	86.7	55.6	3.55	4.05	87.6	5.5	2.7	49.1
74.2	15.27	1,385	-----	-----	13.7	-----	-----	-----	-----	-----	15.3	2.7	50.9
82.1	16.03	1,610	-----	7.2	14.9	-----	48.3	3.40	4.20	81	5.5	2.8	50.9
83.1	15.10	1,410	11.7	7.6	14.3	81.8	53.1	3.40	3.75	90.2	5.5	2.6	47.3
84.2	15.63	1,555	12.1	7.5	14.9	81.2	50.3	3.60	4.00	90	5.6	2.6	48.4
84	15.33	1,585	12.1	7.6	14.6	82.9	52.1	3.65	4.00	91.2	5.7	2.9	50.9
87.3	14.70	1,345	11.9	6.9	13.9	85.6	49.6	-----	-----	-----	4.9	2.4	49
81.7	15.87	1,680	-----	14.9	-----	-----	-----	3.60	3.90	82.3	5.2	2.7	51.9
80	15.63	1,670	11.1	7.0	15.3	72.6	45.8	3.70	4.15	89.2	5.35	2.7	50.5
84.2	15.53	1,620	11.9	7.2	14.0	85	51.4	3.45	3.85	89.6	5.4	2.6	48.2
79.8	14.97	1,510	12.1	7.6	14.5	83.4	52.4	3.70	4.10	90.2	5.8	2.9	50
85.4	15.37	1,535	11.6	6.6	14.1	82.3	46.8	3.20	3.75	85.4	4.95	2.5	50.5
(14)	(14)	(14)	(10)	(12)	(14)	(10)	(12)	(12)	(12)	(12)	(14)	(14)	(14)
214.90	21.350	118.80	87.30	190.90	-----	-----	-----	42.40	47.65	-----	75.30	37.20	-----
81.8	15.35	1,525	11.88	7.27	14.28	89.3	51	3.53	3.97	89	5.38	2.66	49.4
74.2	14.70	1,345	11.10	6.60	13.40	72.6	45.8	3.20	3.75	81	4.90	2.40	44.6
87.3	16.03	1,680	12.60	7.80	15.30	90.6	56.1	3.75	4.20	94.9	5.80	2.90	52

## FEMALE

82.5	14.50	1,310	11.2	7.1	13.2	84.8	53.8	3.6	3.8	94.7	5.2	2.5	48.1
84.8	14.33	1,220	10.2	6.5	12.6	81	51.6	3.3	3.5	94.3	4.6	2.2	47.8
78.2	14.70	1,280	11.0	6.8	13.4	82.1	50.8	3.45	3.8	90.8	5.0	2.8	56
(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
81.8	43.53	3,810	32.40	20.40	39.20	82.6	52	10.35	11.10	93.2	14.80	7.50	50.7
-----	14.51	1,270	10.80	6.80	13.07	-----	-----	3.45	3.70	-----	4.93	2.50	-----

<sup>1</sup> Very slightly worn.

## Chippewa Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 349	U. S. N. M.	From Fort Pembina, N. Dak.	Adult		18.8	14.0	13.7	74.5
243, 628	do.	Near Lake Superior, Mich.	do.		17.8	13.5	13.4	75.8
243, 636	do.	Fort Brady, Mich.	do.	Somewhat warped and damaged.	18.8	14.8	14.9	78.7
243, 640	do.	Michigan	do.		18.7	14.9	13.3	79.7
243, 630	do.	Near Lake Superior, Mich.	do.		18.7	15.1	12.6	80.8
225, 145	do.	do.	do.		18.6	15.1	13.0	81.2
243, 625	do.	do.	do.	Damaged	18.4	15.2	13.0	82.6
243, 639	do.	Fort Alexander, Mich.	do.		18.6	15.4	13.1	82.8
243, 627	do.	Near Lake Superior, Mich.	do.		17.5	14.7	13.3	84
243, 629	do.	do.	do.		17.6	15.0	13.4	85.2
Totals					(10) 183.5	(10) 147.7	(10) 133.7	(10) 80.5
Averages					18.35	14.77	13.37	80.5
Minima					17.5	13.5	12.6	74.5
Maxima					18.8	15.4	14.9	85.2

## FEMALE

243, 997	U. S. N. M.	Canada, near Lake Superior.	Adult		18.4	13.8	12.4	75
227, 487	do.	Fort Brady, Mich.	do.		17.2	13.9	12.4	80.8
225, 084	do.	do.	do.		16.5	13.8	12.4	83.6
243, 626	do.	Michigan, near Lake Superior.	do.		16.6	14.0	12.4	84.3
Totals					(4) 68.7	(4) 55.5	(4) 49.6	(4) 80.8
Averages					17.18	13.88	12.4	80.8

1 Near.

## Chippewa Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
88.6	15.50	1,480	-----	7.1	14.1	-----	60.4	3.3	3.8	86.8	5.4	2.6	48.2
85.6	14.90	-----	-----	6.8	13.3	-----	61.1	3.6	3.95	91.2	5.1	2.45	48.0
88.7	16.17	1,660	11.3	6.6	14.1	80.1	46.8	3.45	3.9	88.5	4.85	2.5	51.6
79.2	15.63	1,590	12.2	7.4	14.7	83	50.4	3.42	4.0	85.5	5.4	2.7	50
74.6	15.47	1,550	-----	6.8	-----	-----	-----	-----	-----	-----	5.2	2.5	48.1
77.1	15.57	1,610	11.5	6.7	14.4	79.9	46.5	3.48	4.1	84.9	5.2	2.8	63.8
77.4	15.53	1,590	-----	7.1	-----	-----	-----	-----	-----	-----	5.55	2.7	48.6
77.1	15.70	1,510	12.1	-----	15.1	80.1	-----	3.6	4.15	86.8	5.4	2.9	65.7
82.6	15.17	1,520	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
82.2	15.33	1,460	-----	7.3	13.8	-----	52.9	3.4	4.0	85	5.3	2.4	45.3
(10)	(10)	(9)	(4)	(8)	(7)	(4)	(6)	(7)	(7)	(7)	(9)	(9)	(9)
80.7	15.497	14,000	47.1	55.8	99.2	80.8	49.8	3.24	3.99	86.9	4.74	2.35	49.7
74.6	14.90	1,460	11.3	6.6	13.3	79.9	46.5	3.3	3.8	84.9	4.85	2.4	46.3
88.7	16.17	1,660	12.2	7.4	15.1	83	52.9	3.6	4.15	91.2	5.55	2.9	63.8

## FEMALE

77.0	14.87	1,400	-----	6.5	13.2	-----	49.2	3.21	3.81	84.3	4.7	2.6	55.3
79.7	14.50	1,360	11.6	6.9	-----	-----	-----	-----	-----	-----	4.9	2.7	55.1
81.8	14.23	1,120	10.7	6.5	13.4	79.8	48.5	3.2	3.85	83.1	4.75	2.6	64.7
81.0	14.33	1,240	-----	6.7	-----	-----	-----	3.43	3.85	89.1	4.6	2.6	56.5
(4)	(4)	(4)	(2)	(4)	(2)	(2)	(2)	(3)	(3)	(9)	(4)	(4)	(4)
79.9	14.48	1,280	11.16	6.65	13.3	-----	48.9	3.28	3.84	85.6	4.74	2.62	55.4

## Algonkin and related crania: Summary of measurements

## MALE

	Huron	Maine	Massachusetts	Rhode Island	Connecticut	Iroquois	New York State	Manhattan Island	Long Island	Staten Island
Number of skulls.....	(15)	(6)	(14)	(6)	(4)	(33)	(19)	(11)	(6)	(6)
Vault:										
Length.....	18.80	19.07	18.93	18.43	18.45	18.86	18.92	19.23	19.18	19
Breadth.....	13.87	13.87	13.78	13.58	13.50	13.77	14.02	13.91	13.48	14.25
Height.....	13.75	13.70	13.94	13.65	13.90	13.89	13.85	13.88	14.36	14.55
Cranial Index.....	72.8	72.7	72.8	73.7	73.2	73	74.1	72.3	70.3	75
Mean Height Index.....	84.1	83.2	85.3	85.3	87	85.2	84.2	83.8	87.7	87.5
Module.....	15.47	15.54	15.56	15.22	15.55	15.49	15.59	15.67	15.70	15.94
Capacity.....			1,507				1,530			
Face:										
M.-N. Height.....			12.73			11.95	12.12	11.8		12.2
Alv. Pt.-N. Height.....	7.75	7.4	7.4	7.37		7.48	7.29	7.34	7.47	7.52
Breadth.....	14.13	13.45	13.71	13.33	13.75	13.84	14.1	13.19	13.85	14.65
Facial Index, total.....								89.5		
Facial Index, upper.....	54.2	55	54	55.3		54.1	51.2	55.4	54	51.4
Orbits:										
Mean height.....	3.5	3.37	3.42	3.50	3.24	3.39	3.43	3.23	3.28	3.5
Mean breadth.....	3.97	3.90	3.96	3.88	3.81	3.90	3.91	3.91	3.98	4
Mean Index.....	88.2	86.4	86.4	90.2	85	86.9	87.7	82.2	82.3	87.4
Nose:										
Height.....	5.53	5.07	5.17	5.03	5	5.35	5.19	5.26	5.29	5.2
Breadth.....	2.63	2.31	2.57	2.64	2.45	2.74	2.71	2.43	2.47	2.56
Index.....	47.5	45.6	49.7	52.5	49	51.2	52.2	46.2	46.7	49.2

## FEMALE

	Huron	Maine	Massachusetts	Rhode Island	Connecticut	Iroquois	New York State	Long Island	Staten Island	Delaware (Lena-ape)
Number of skulls.....	(9)	(6)	(26)	(6)	(4)	(24)	(18)	(4)	(3)	(22)
Vault:										
Length.....	17.64	18.08	17.70	17.62	17.85	17.87	17.72	18.1	17.73	17.52
Breadth.....	13.55	13.52	13.22	13.45	13.32	13.27	13.50	13.32	13.37	13.16
Height.....	13.36	13.22	13.33	13.50	13.30	13.30	13.09	13.07	13.1	13.03
Cranial Index.....	77	74.8	74.7	76.5	74.6	74.5	76.2	73.6	75.4	75.1
Mean Height Index.....	86.7	83.7	86.2	86.8	85.4	85.4	85.7	83.2	84.2	84.9
Module.....	14.85	14.92	14.72	14.81	14.85	14.81	14.79	14.83	14.73	14.58
Capacity.....	1,349		1,338		1,295		1,331			1,294
Face:										
M.-N. Height.....		11.63	11.43	11.5		11.2	11.23			
Alv. Pt.-N. Height.....	6.97	6.82	7	6.96	6.85	6.96	6.92	6.90	6.45	6.82
Breadth.....	12.9	12.95	12.68	12.92	12.3	12.91	13.14	12.87	12.65	12.65
Facial Index, total.....		89.8	89.9	89		91.1	86			
Facial Index, upper.....	52.7	52.7	55.2	53.9	55.7	53.9	52.9	52.3		53.2
Orbits:										
Mean height.....	3.44	3.28	3.35	3.46	3.32	3.34	3.37	3.22	3.19	3.39
Mean breadth.....	3.81	3.89	3.79	3.82	3.6	3.77	3.78	3.75	3.84	3.8
Mean Index.....	90.1	86.3	88.4	90.6	92.2	91.2	89.3	85.9	83.1	89.3
Nose:										
Height.....	5.11	4.9	4.96	5.03	4.75	4.97	5.03	4.85	4.75	4.88
Breadth.....	2.69	2.45	2.46	2.67	2.6	2.59	2.67	2.36	2.58	2.55
Index.....	52.7	50	49.6	53.1	54.7	52.1	53	48.7	54.4	52.3

*Algonkin and related crania: Summary of measurements*

MALE

Delaware (Lenape)	Pennsylvania	Maryland	Virginia	Kentucky	Ohio, Ross County	Ohio, miscella- neous	Indiana	Michigan	Illinois	Wisconsin	Iowa	Missouri	Montana	Cheyenne	Chippewa
(12)	(3)	(4)	(29)	(34)	(3)	(3)	(3)	(7)	(30)	(3)	(4)	(6)	(3)	(14)	(10)
18.65	18.8	19.22	18.36	17.70	18.63	18.03	18.2	18.49	18.3	18.4	18.1	18.52	18.3	18.37	18.35
13.89	14.43	14.15	13.93	13.58	13.5	13.9	14.47	13.48	13.91	14	13.95	13.97	14.1	14.31	14.77
13.97	14.25		14.25	13.95	14.4		14.63	13.62	14.21	14.05		14.1	13.7	13.37	13.37
74.4	76.8	73.6	75.9	76.7	72.4	77.1	79.5	73.3	76	76.1	77.1	76.4	77.4	77.9	80.5
86	86.5		88.6	89	89.6		89.6	85.4	88.2	87		86.3	84.6	81.8	80.7
15.49	15.73		15.47	15.10	15.51		15.77	15.19	15.48	15.45	15.22	15.51	15.37	15.35	15.50
1,529				1,432	1,492	1,500	1,517	1,420	1,499			1,558	1,493	1,525	1,556
12.14			12.7	11.57				12.55	12.34		11.7	12.4		11.88	11.8
7.06			7.37	7.04			7.12	7.5	7.48	7.5	7.35	7.4	7.2	7.27	6.98
13.88			14.07	13.60			13.8		14.05			14.15	13.9	14.28	14.2
87.5			84.7						88.7					89.3	80.8
50.9			52.3	51.7			51.6		53.5			53	51.9	51	49.8
3.33			3.4	3.26	3.45		3.4	3.42	3.52	3.51	3.55	3.45	3.56	3.53	3.46
3.86			3.86	3.81	3.97		3.93	3.9	3.98	4.12	3.97	3.98	3.88	3.97	3.99
86.3			88.2	84.9	86.3		86.4	88.1	88.5	85.1	89.4	86.3	91.8	89	86.9
5.09			5.3	5.09	5.75		5.25	5.52	5.33	5.7	5.42	5.2	5.4	5.38	5.27
2.65			2.72	2.38	2.65		2.75	2.66	2.55	2.8	2.62	2.5	2.7	2.66	2.62
52.1			51.2	46.8	46.1		52.4	48.2	48.1	49.1	48.4	48.1	49.4	49.4	49.7

FEMALE

Pennsylvania	Maryland	Virginia	Kentucky	Ohio, miscella- neous	Indiana	Michigan	Illinois	Wisconsin	Iowa	Missouri	Cheyenne	Chippewa
(5)	(4)	(28)	(26)	(3)	(2)	(5)	(39)	(5)	(5)	(8)	(3)	(4)
17.22	18.08	17.75	17.03	17.57	17.8	17.54	17.17	17.5	17.37	17.13	17.1	17.18
13.64	13.38	13.55	13.08	13.57	13.5	13.75	13.49	13.1	13.5	13.25	13.8	13.88
13.30		13.55	13.12		13.2	12.9	13.55	13.1	13	13.8	12.63	12.4
79.2	74	76.3	77	77.2	75.8	77.8	78.6	74.9	77.6	77.7	80.7	80.8
86.2		86.4	87.2		83.1	81.3	83.4	85.5	84.2	91.1	81.8	79.9
14.72		14.96	14.41		14.76	14.88	14.75	14.61	14.64	14.74	14.51	14.48
1,285			1,280		1,267	1,407	1,305	1,267		1,304	1,270	1,280
10.9		11.55	10.49			10.8	11.61		11.15	11.5	10.8	11.15
6.78		6.77	6.36		6.6	6.5	6.81	6.7	6.9	7	6.8	6.65
12.87		13.12	12.45			13	12.65	12.6		12.8	13.07	13.3
84.7		88.6	84.6			83.7	90.9			91.3	82.6	
51.8		52.4	51.9			50.9	53.4	51.6		55.5	52	48.9
3.37		3.3	3.25		3.43	3.3	3.42	3.44	3.6	3.48	3.45	3.28
3.68		3.74	3.65		3.83	3.81	3.79	3.82	3.9	3.84	3.7	3.84
91.7		88.3	89		89.6	86.7	90.3	89.9	91.9	90.6	93.2	85.5
4.94		5	4.6		4.92	5.11	4.94	5.06	5.05	5.08	4.93	4.74
2.42		2.7	2.26		2.73	2.57	2.59	2.53	2.57	2.54	2.5	2.62
49.1		54	49.4		55.6	50.4	52.5	49.4	50.9	50	50.7	55.4

## NOTES ON THE ALGONKIN AND RELATED TRIBES

1. The extensive Algonkin strain shows almost throughout a clear and distinct physical character.
2. The type coincides closely with the extension of the linguistic family to which it belongs.
3. The Iroquois, notwithstanding the fact that they belong to a different linguistic stock and include some heterogeneous admixture from the south, are radically of the same physical type with the Algonkins and can not be separated from the latter.
4. The Algonkin type is characterized by:
  - Dolicho- to meso-cephaly;
  - High vault;
  - Medium to large face;
  - Medium to low orbits;
  - Medium to relatively somewhat narrow nose.
5. In the Atlantic States as one proceeds southward the type, without interruption and without alteration in its characteristically high vault, shows a rising cephalic index, without, however, reaching higher than mesocephaly.
6. A similar condition as to the cephalic index is observed among some of the Algonkin tribes west of the Alleghanies, reaching its climax in the Chippewa.
7. The Chippewa are somewhat aberrant from the rest of the Algonkins in that their skull is somewhat broader and lower.





## SIOUAN

*Miscellaneous Sioux Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 257	U. S. N. M.	St. Josephs, N. Dak.	Adult	-----	20.0	14.1	13.7	70.5
243, 797	.....do.....	Fort Robinson, Nebr.	.....do.....	-----	19.2	13.9	13.2	72.4
243, 239	.....do.....	Fort Rice, N. Dak.	.....do.....	-----	19.2	14.0	13.3	72.9
-----	D. A. S.	"Davenport captive."	.....do.....	-----	19.2	14.2	13.2	74.0
317, 399	U. S. N. M.	Minnehaha County, S. Dak.	.....do.....	-----	19.4	14.4	13.6	74.2
243, 344	.....do.....	Ft. Phil Kearney, Dak.	.....do.....	-----	18.8	14.0	13.0	74.5
317, 406	.....do.....	Minnehaha County, S. Dak.	.....do.....	-----	18.3	13.8	-----	75.4
243, 715	.....do.....	Powder River, Wyo.	.....do.....	-----	19.2	14.6	12.8	76.0
243, 825	.....do.....	Summit Springs, Colo.	.....do.....	-----	18.8	14.4	13.2	76.6
317, 407	.....do.....	Minnehaha County, S. Dak.	.....do.....	-----	19.1	14.7	13.4	77.0
-----	D. A. S.	"Davenport captive."	.....do.....	-----	18.5	14.3	13.0	77.3
225, 222	U. S. N. M.	Fort Sisseton, S. Dak.	.....do.....	-----	17.8	14.0	12.7	78.7
243, 724	.....do.....	Fort Laramie, Wyo.	.....do.....	-----	18.1	14.4	12.5	79.6
243, 259	.....do.....	Prairie Dog Creek, Kans.	.....do.....	-----	18.7	14.9	13.1	79.7
243, 725	.....do.....	Fort Fred Steele, Wyo.	.....do.....	-----	17.8	14.2	12.6	79.8
-----	D. A. S.	"Davenport captive."	.....do.....	-----	18.4	14.7	13.0	79.9
213, 663	U. S. N. M.	Upper Missouri River.	.....do.....	-----	18.2	15.2	13.0	85.5
Total.....	-----	-----	-----	-----	(17)	(17)	(16)	(17)
Averages.....	-----	-----	-----	-----	318.7	243.80	209.3	-----
Minima.....	-----	-----	-----	-----	18.75	14.75	13.08	76.5
Maxima.....	-----	-----	-----	-----	17.8	13.8	12.5	70.5
-----	-----	-----	-----	-----	20	15.2	13.7	85.5

## FEMALE

243, 714	U. S. N. M.	Powder River, Wyo.	Adult	-----	18.6	13.6	12.4	73.1
243, 240	.....do.....	Fort Rice, N. Dak.	.....do.....	-----	18.5	13.6	12.4	73.5
213, 342	.....do.....	Heart River, N. Dak.	.....do.....	-----	18.0	13.5	12.6	75
243, 716	.....do.....	State of Wyoming.	.....do.....	-----	17.7	13.4	12.8	75.7
201, 016	.....do.....	.....do.....	.....do.....	-----	18.1	13.8	13.2	76.2
225, 242	.....do.....	Fort Robinson, Nebr.	.....do.....	-----	17.4	13.3	12.8	76.4
243, 738	.....do.....	Yellowstone region, North Dakota.	.....do.....	-----	18.2	13.9	12	76.4
-----	D. A. S.	"Davenport captive."	.....do.....	-----	17.9	13.7	13.1	76.5
225, 219	U. S. N. M.	Nebraska	.....do.....	-----	18.4	14.2	13.1	77.2
243, 253	.....do.....	Fort Rice, N. Dak.	.....do.....	-----	17.3	13.4	12.2	77.5
243, 912	.....do.....	Fort Stevenson, N. Dak.	.....do.....	-----	17.9	13.9	12.3	77.7
243, 347	.....do.....	.....do.....	.....do.....	-----	17.2	13.6	12.2	79.1
243, 346	.....do.....	Heart River, N. Dak.	.....do.....	-----	17.7	14.0	12.2	79.1
243, 252	.....do.....	Fort Rice, N. Dak.	.....do.....	-----	17.4	14.1	13.0	81
Totals.....	-----	-----	-----	-----	(14)	(14)	(14)	(14)
Averages.....	-----	-----	-----	-----	250.3	192.0	176.3	-----
Minima.....	-----	-----	-----	-----	17.88	13.71	12.59	76.7
Maxima.....	-----	-----	-----	-----	17.2	13.3	12	73.1
-----	-----	-----	-----	-----	18.6	14.2	13.2	81

## SIOUAN

## Miscellaneous Sioux Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.4	15.93	1,520	-----	7.6	14.2	-----	53.5	3.65	3.98	91.8	5.25	3.0	57.1
79.8	15.43	1,510	-----	7.9	14.6	-----	54.1	3.95	4.05	97.5	5.85	2.9	49.6
80.1	15.50	1,500	13.4	8.4	14.0	95.7	60	3.85	3.98	96.9	5.85	2.7	46.2
79.0	15.53	-----	-----	8.05	14.5	-----	55.5	-----	-----	-----	5.8	2.85	49.1
80.5	15.80	-----	-----	7.0	-----	-----	-----	-----	-----	-----	5.4	2.5	46.3
79.3	15.27	1,490	-----	7.4	14.3	-----	51.8	3.65	3.9	93.6	5.4	2.8	51.8
-----	-----	-----	12.1	7.5	-----	-----	-----	3.4	3.7	91.9	5.55	2.6	46.8
80.5	15.53	1,590	-----	7.5	14.1	-----	53.2	3.65	4.05	90.1	5.4	2.5	46.3
79.5	15.47	1,515	13.6	8.6	14.5	93.8	59.3	3.95	4.15	95.2	5.9	2.9	48.2
79.3	15.73	-----	-----	-----	14.1	-----	-----	-----	-----	-----	-----	-----	-----
79.3	15.27	-----	-----	-----	14.4	-----	-----	-----	-----	-----	5.0	2.55	51.0
79.9	14.83	1,380	12.5	7.6	13.7	91.2	55.5	3.4	4.0	85	5.5	2.4	43.6
76.9	15.00	1,465	12.6	7.4	15.2	82.9	48.7	3.45	4.02	85.7	5.4	2.95	54.6
78.0	15.57	1,400	12.2	7.8	14.5	84.1	53.8	3.9	3.9	100.0	5.5	2.3	41.8
78.7	14.87	1,405	12.7	8.0	14.2	89.4	56.3	3.68	4.1	89.6	5.55	2.75	49.6
78.6	15.37	-----	-----	7.5	14.2	-----	52.8	-----	-----	-----	5.35	2.4	44.9
77.8	15.47	1,620	-----	7.3	14.7	-----	49.7	-----	-----	-----	5.7	-----	-----
(16)	(16)	(11)	(7)	(15)	(15)	(6)	(13)	(11)	(11)	(11)	(16)	(15)	(15)
78.9	246.57	16,395	89.1	115.55	215.2	-----	40.53	43.83	-----	88.4	40.1	-----	-----
76.9	15.41	1,490	12.75	7.70	14.56	89.4	54.1	3.68	3.98	92.4	5.52	2.67	48.5
76.9	14.83	1,380	12.1	7	13.7	82.9	48.7	3.4	3.7	85	5	2.3	41.8
80.5	15.93	1,620	13.6	8.6	15.2	95.7	60	3.95	4.15	100	5.9	3	57.1

## FEMALE

77	14.87	1,400	-----	7.1	13.1	-----	54.2	3.7	3.92	94.4	5.4	2.9	53.7
77.3	14.83	1,300	-----	7.3	13.0	-----	56.1	3.55	3.75	94.7	5.4	2.8	51.8
80	14.70	1,350	-----	6.4	13.4	-----	47.8	3.3	3.85	85.7	4.7	2.3	48.9
82.3	14.63	1,285	-----	6.7	13.9	-----	48.2	3.4	4.05	85.9	4.9	2.6	53.1
82.8	15.03	1,340	11.8	7.6	13.7	86.1	55.5	3.82	3.9	98.1	5.4	2.45	45.4
83.4	14.50	1,270	11.5	7.0	13.6	84.6	51.5	3.62	3.95	91.8	5.15	2.2	42.7
74.8	14.70	1,360	-----	7.6	13.9	-----	54.7	3.6	3.9	92.3	5.5	2.6	47.3
82.9	14.90	-----	-----	7.2	13.2	-----	54.6	-----	-----	-----	5.6	2.5	44.6
80.4	15.23	1,380	11.5	7.5	13.6	84.6	55.2	3.8	3.88	98.1	5.5	2.4	43.6
79.5	14.30	1,290	-----	6.9	13.1	-----	52.7	3.5	3.85	90.9	4.95	2.45	49.5
77.4	14.70	1,310	-----	6.5	13.0	-----	50	3.55	3.9	91	-----	-----	-----
79.2	14.33	1,385	11.6	7.4	12.3	94.3	60.2	3.7	3.75	98.7	5.4	2.5	46.3
77	14.63	1,270	-----	7.0	13.3	-----	52.6	3.72	3.68	101.1	5.25	2.5	47.6
82.5	14.83	1,370	10.6	6.9	13.4	79.1	51.5	3.4	4.08	83.3	5.0	2.7	54
(14)	(14)	(13)	(5)	(14)	(14)	(5)	(14)	(13)	(13)	(13)	(13)	(13)	(13)
79.7	206.18	17,340	57.0	99.1	186.5	-----	46.66	50.46	-----	68.15	32.9	-----	-----
74.8	14.73	1,334	11.40	7.08	13.32	85.6	53.1	3.59	3.88	92.4	5.24	2.53	48.5
74.8	14.30	1,270	10.6	6.4	12.3	79.1	47.8	3.3	3.68	83.3	4.7	2.2	42.7
83.4	15.23	1,400	11.8	7.6	13.9	94.3	60.2	3.82	4.08	101.1	5.6	2.9	54

*Teton Sioux Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 341	U. S. N. M.	Fort Sully, S. Dak.	Adult		18.9	13.8	13.0	73
225, 063	do.	Fort Randall, S. Dak.	do.		19.5	14.9	12.8	76.4
243, 340	do.	Fort Sully, S. Dak.	do.		17.9	14.4	12.4	80.5
243, 661	do.	Milk River, Mont.	do.		17.6	14.3	12.8	81.3
Totals					(4)	(4)	(4)	(4)
Averages					18.48	14.86	12.75	77.7

## FEMALE

291, 274	U. S. N. M.	Fort Yates, N. Dak.	Adult		18.4	13.6	12.7	73.9
291, 085	do.	do.	do.		17.6	14.0	13.4	79.6
286, 000	do.	do.	do.		17.7	14.2	12.0	80.2
Totals					(3)	(3)	(3)	(3)
Averages					17.9	13.93	12.7	77.8

*Brulé Sioux Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
225, 216	U. S. N. M.	Bordeaux Creek, Nebr.	Very near adult.		18.2	13.4	12.4	73.6
225, 228	do.	do.	Adult		18.8	14.05	13.4	74.7
225, 238	do.	Camp Sheridan, Nebr.	do.		19.6	14.7	13.4	76
225, 268	do.	do.	do.		19.1	14.4	12.9	75.4
225, 246	do.	Spotted tail reservation, Nebr.	do.		18.1	13.7	13.1	76.7
243, 702	do.	Near Camp Sheridan, Nebr.	do.		18.2	13.9	13.6	76.4
225, 259	do.	do.	do.		18.4	14.2	12.9	77.2
225, 239	do.	do.	Senile or near.	Base somewhat impressed.	19.5	15.1	(11.6)	77.4
243, 703	do.	do.	Adult		18.6	14.4	13.4	77.4
243, 707	do.	do.	do.		18.6	14.4	13.4	77.4
243, 709	do.	do.	do.		18.4	14.3	13.0	77.7
225, 220	do.	Bordeaux, Creek, Nebr.	do.		18.6	14.7	12.7	79
243, 701	do.	do.	do.		18.4	14.9	13.5	81
243, 378	do.	Fort Randall, S. Dak.	Near senile.		17.8	15.1	12.2	84.8
225, 245	do.	Near Camp Sheridan, Nebr.	Adult		17.9	15.2	13.0	84.9
Totals					(15)	(15)	(14)	(15)
Averages					278.2	216.45	182.9	
Minima					18.66	14.45	13.06	77.8
Maxima					17.8	13.4	12.2	73.6
					19.6	15.2	13.6	84.9

## Teton Sioux Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
79.5	15.23	1,480	-----	7.1	14.4	-----	49.5	3.65	3.82	95.4	5.3	2.85	53.8
74.4	15.73	1,640	-----	7.2	15.3	-----	47.1	3.6	4.3	83.7	5.35	2.5	46.7
76.8	14.90	1,435	-----	7.6	13.9	-----	54.7	3.95	4.2	94.0	5.55	2.9	52.2
80.2	14.90	1,370	-----	6.9	14.5	-----	47.6	3.5	3.95	88.6	-----	-----	-----
(4)	(4)	(4)	-----	(4)	(4)	-----	(4)	(4)	(4)	-----	(3)	(3)	(5)
77.7	60.76	5,925	-----	28.8	58.1	-----	-----	14.7	16.27	-----	16.2	2.25	-----
-----	15.19	1,481	-----	7.2	14.52	-----	49.6	3.68	4.07	90.3	5.4	2.75	50.9

## FEMALE

79.4	14.90	1,325	11.5	7.5	13.8	83.3	54.3	3.65	3.9	93.6	5.45	2.65	48.6
84.8	15.00	1,450	-----	7.0	12.8	-----	54.7	3.5	3.85	90.9	4.65	2.55	54.8
75.2	14.63	1,475	11.5	6.9	12.4	92.7	55.7	3.75	3.9	96.1	5.1	2.3	45.1
(8)	(3)	(3)	(2)	(3)	(3)	(9)	(8)	(3)	(3)	(5)	(3)	(3)	(5)
79.3	44.53	4,280	23.0	21.4	39.0	-----	-----	10.90	11.65	-----	15.20	7.50	-----
-----	14.84	1,427	11.5	7.15	13.0	88	54.3	3.65	3.88	93.6	5.07	2.50	49.4

## Brulé Sioux Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (b)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.5	14.67	1,350	12.0	7.3	13.5	88.9	54.1	3.52	3.9	90.4	5.7	2.8	49.1
81.7	15.42	1,650	12.0	7.0	13.8	87	50.7	3.4	3.82	88.9	5.25	2.45	46.7
78.1	15.90	1,545	12.8	7.7	15.2	84.2	50.7	3.48	4.02	86.3	5.25	2.7	51.4
77	15.47	1,645	13.1	8.1	14.6	89.7	55.5	3.7	3.85	96.1	5.85	2.6	44.4
82.4	14.97	1,500	12.0	7.5	13.8	87	54.3	3.58	3.9	91.7	5.25	2.65	50.5
84.7	15.23	1,505	13.1	8.0	13.9	94.2	57.5	3.82	4.0	95.6	5.5	2.7	49.1
79.1	15.17	1,430	12.6	7.6	14.3	88.1	53.2	3.3	4.02	82	5.4	2.65	49.1
(67.0)	15.40	1,600	-----	-----	14.8	-----	-----	3.75	4.35	86.2	5.95	3.00	50.4
81.2	15.47	1,540	13.2	7.9	14.3	92.3	56.2	3.45	3.65	94.5	5.5	2.7	49.1
81.2	15.47	1,450	12.8	8.0	14.4	88.9	56.6	3.8	4.0	95	5.45	2.35	43.1
79.5	15.23	1,520	12.2	7.4	14.0	87.1	52.9	3.5	3.88	90.3	5.2	2.5	48.1
76.3	15.33	1,600	12.9	8.3	14.2	90.8	53.4	3.9	4.05	96.3	5.9	2.6	44.1
81.1	15.60	1,575	-----	-----	14.6	-----	-----	3.7	4.18	89.7	5.3	2.4	45.3
74.2	15.03	1,360	-----	-----	14.4	-----	-----	3.52	4.0	88.1	5.3	2.9	54.7
78.5	15.37	1,640	12.5	7.4	13.7	91.2	54	3.7	4.18	89.7	5.5	2.6	47.3
(14)	(15)	(15)	(12)	(12)	(15)	(12)	(12)	(15)	(15)	(15)	(15)	(15)	(15)
79.2	229.73	22,910	151.2	92.2	213.5	-----	-----	54.12	59.8	-----	82.3	39.6	-----
74.2	15.51	1,527	12.6	7.68	14.23	88.5	54	3.61	3.99	90.7	5.49	2.64	48.1
74.2	14.67	1,350	12	7	13.5	84.2	50.7	3.3	3.65	82	5.2	2.35	43.1
84.7	15.90	1,650	13.2	8.3	15.2	94.2	58.4	3.9	4.35	96.3	5.95	3	54.7

## Brulé Sioux Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
225, 221	U. S. N. M.	Near Camp Sheridan, Nebr.	Adult	-----	18.3	13.7	12.6	74.9
243, 700	do.	Camp Sheridan, Nebr.	do.	-----	17.9	13.6	12.0	76
243, 380	do.	Fort Randall, S. Dak.	do.	-----	17.8	13.7	12.3	77
243, 374	do.	Near Camp Sheridan, Nebr.	do.	-----	17.7	13.7	12.6	77.4
243, 705	do.	do.	do.	-----	17.3	13.4	12.2	77.5
243, 375	do.	do.	do.	-----	18.0	14.0	12.8	77.8
225, 261	do.	do.	do.	-----	17.5	13.8	12.0	78.9
225, 233	do.	do.	do.	-----	16.6	13.1	11.9	78.9
243, 370	do.	do.	do.	-----	18.1	14.4	12.9	79.6
243, 708	do.	do.	do.	-----	18.0	14.7	12.5	81.7
Totals	-----	-----	-----	-----	(10) 177.2	(10) 138.1	(10) 123.8	(10) 77.9
Averages	-----	-----	-----	-----	17.72	13.81	12.38	77.9
Minima	-----	-----	-----	-----	16.6	13.1	11.9	74.9
Maxima	-----	-----	-----	-----	18.3	14.7	12.9	81.7

## Oglala Sioux Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 245	U. S. N. M.	Fort Pierre, S. Dak.	Adult	-----	18.4	13.8	12.9	75
225, 235	do.	Old Red Cloud agency Dak.	do.	-----	18.4	14	12.6	76.1
243, 710	do.	Niobrara River, Nebr.	do.	-----	18.0	13.7	13.2	76.1
243, 242	do.	Fort Pierre, S. Dak.	do.	-----	18.9	14.4	12.5	76.2
243, 247	do.	do.	do.	-----	18.6	14.2	13.1	76.3
243, 711	do.	Niobrara River	do.	-----	18.9	14.5	12.9	76.7
243, 251	do.	Fort Pierre, S. Dak.	do.	Very slight occipital compression. Slight asymmetry.	19.2	14.8	13.0	77.1
243, 248	do.	do.	do.	-----	18.9	14.8	13.4	78.3
243, 244	do.	do.	do.	-----	18.7	14.7	12.6	78.6
243, 246	do.	do.	do.	-----	18.9	14.9	13.6	78.8
243, 721	do.	Niobrara River, Nebr.	do.	-----	18.3	14.6	12.9	79.8
225, 062	do.	Fort Randall, S. Dak.	do.	-----	18.3	14.6	12.5	79.8
243, 249	do.	Fort Pierre, S. Dak.	do.	Slight posterior compression.	18.1	14.7	12.8	81.2
225, 065	do.	do.	do.	-----	18.9	15.4	13.9	81.5
Totals	-----	-----	-----	-----	(14) 260.50	(14) 203.10	(14) 181.90	(14) 78
Averages	-----	-----	-----	-----	18.61	14.51	12.99	78
Minima	-----	-----	-----	-----	18.00	13.70	12.50	75
Maxima	-----	-----	-----	-----	19.20	15.40	13.90	81.5

## Brulé Sioux Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.7	14.87	1,430	10.9	6.9	13.1	83.2	52.7	3.65	3.75	97.3	5.0	2.6	52
76.2	14.50	1,250	11.8	7.5	13.9	84.9	54.0	3.8	4.0	95	5.3	2.55	48.1
78.1	14.60	-----	11.7	7.3	13.4	87.3	54.5	3.7	4.05	91.4	5.45	2.75	50.5
80.3	14.67	1,370	11.4	7.1	13.0	87.7	54.6	3.7	3.95	93.7	5.25	2.5	47.6
79.5	14.30	1,300	11.6	7.1	13.3	87.2	53.4	3.42	3.7	92.6	5.05	2.2	43.6
80.0	14.93	1,380	11.4	7.1	13.5	84.4	52.6	3.7	3.95	93.7	5.15	2.5	48.5
76.7	14.43	1,300	12.0	7.5	13.2	90.9	56.8	3.52	3.78	93.4	5.45	2.55	46.8
80.1	13.87	1,200	11.4	6.9	13.1	87.0	52.7	3.48	3.85	90.3	4.95	2.3	46.5
79.4	15.13	1,450	12.2	7.7	13.8	88.4	55.8	3.6	3.9	92.3	5.55	2.6	46.8
76.5	15.07	1,490	12.0	7.3	13.5	83.9	54.1	3.6	3.75	96	5.0	2.5	50
(10)	(10)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
-----	146.37	12,170	116.4	72.4	133.8	87	54.1	3.62	3.87	93.5	5.22	2.50	48.0
77.9	14.64	1,352	11.64	7.24	13.38	87	54.1	3.62	3.87	93.5	5.22	2.50	48.0
76.2	13.87	1,200	10.9	6.9	13	83.2	52.6	3.42	3.7	90.3	4.95	2.2	43.6
80.3	15.13	1,490	12.2	7.7	13.9	90.9	56.8	3.8	4.05	97.3	5.55	2.75	52

## Oglala Sioux Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.1	15.03	1,510	-----	7.7	14.1	-----	54.6	3.75	3.85	97.4	5.4	2.5	46.3
77.8	15.00	1,435	11.9	7.3	13.5	88.2	54.1	3.5	4.0	87.5	5.3	2.5	47.2
83.3	14.97	1,340	12.7	7.7	14.4	88.2	53.5	3.45	4.08	84.7	5.5	2.5	45.4
75.1	15.27	1,460	-----	7.6	14.0	-----	54.3	3.7	3.95	93.7	6.1	2.9	47.5
79.9	15.30	1,490	-----	7.5	14.5	-----	51.7	3.52	4.1	86	5.3	2.7	50.9
77.3	15.43	1,500	-----	7.4	14.8	-----	50	4.02	4.32	93.1	5.5	3.15	57.3
76.5	15.67	1,620	11.7	7.5	14.2	82.4	52.8	3.75	4.18	89.8	5.4	2.6	48.2
79.5	15.70	1,500	-----	7.9	15.2	-----	52	3.6	4.15	86.8	5.75	2.9	50.4
75.5	15.33	1,570	-----	7.7	13.8	-----	55.8	3.48	4.02	86.3	5.55	2.6	46.8
80.5	15.80	1,540	-----	7.7	14.8	-----	55.8	3.7	4.15	89.2	5.4	3.3	61.1
78.4	15.27	1,450	11.7	7.3	15.1	77.5	48.3	3.6	4.15	86.8	5.7	2.9	50.9
76.0	15.13	1,515	11.9	7.4	13.9	85.6	53.2	3.5	4.05	86.4	5.25	2.8	53.3
78.0	15.20	1,560	-----	-----	-----	-----	-----	3.42	3.75	91.3	5.35	2.7	50.5
81.0	16.07	1,665	12.6	7.9	15.0	84	52.7	3.85	4.08	94.5	6.0	2.9	48.3
(14)	(14)	(14)	(6)	(12)	(13)	(6)	(12)	(14)	(14)	(14)	(14)	(14)	(14)
-----	215.17	21,155	72.50	90.90	187.30	84	52.7	3.85	4.08	94.5	6.0	2.9	48.3
78.5	15.37	1,511	12.08	7.58	14.41	84.2	52.7	3.63	4.06	89.5	5.54	2.78	50.3
75.1	14.97	1,340	11.70	7.30	13.50	77.5	48.3	3.42	3.75	84.7	5.25	2.50	45.4
83.3	16.07	1,665	12.70	7.90	15.20	88.2	55.8	4.02	4.32	97.4	6.10	3.30	61.1

## Oglala Sioux Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
251,997	U. S. N. M.	South Dakota	Adult		18.0	13.6	12.6	75.6
243,352	do.	Camp Robinson, Nebr.	do.		18.3	13.9	12.3	76
243,343	do.	Fort Sully, S. Dak.	do.		18.4	14.0	12.5	76.1
243,351	do.	Fort Randall, S. Dak.	do.		17.3	13.3	12.6	76.9
243,722	do.	Fort Laramie, Wyo.	do.		17.9	14.0	12.8	78.2
225,218	do.	Red Cloud Agency, S. Dak.	do.		17.4	14.2	12.8	81.6
243,243	do.	Fort Pierre, S. Dak.	do.		17.6	14.4	12.3	81.8
Totals					(7) 124.90	(7) 97.40	(7) 87.90	(7) 78.0
Averages					17.84	13.91	12.56	78.0
Minima					17.30	13.30	12.30	75.6
Maxima					18.40	14.40	12.80	81.8

## Sisseton Sioux Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,368	U. S. N. M.	Fort Sisseton, S. Dak.	Adult		18.4	13.6	12.8	73.9
225,478	do.	do.	do.		18.6	13.8	13.0	74.2
243,361	do.	do.	do.		18.7	14.4	13.3	77.0
225,217	do.	do.	do.		18.1	14.3	13.0	79.0
Totals					(4) 73.80	(4) 56.10	(4) 52.10	(4) 76.0
Averages					18.45	14.02	13.02	76.0

## FEMALE

243,357	U. S. N. M.	Fort Sisseton, S. Dak.	Adult		17.6	13.6	12.9	77.3
243,367	do.	do.	do.		17.6	13.7	11.8	77.8
243,558	do.	do.	do.		16.5	13.6	12.4	82.4
Totals					(3) 51.7	(3) 40.9	(3) 37.1	(3) 79.2
Averages					17.23	13.63	12.37	79.2



## Oglala Sioux Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. e. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
79.7 76.4	14.73 14.83	1,205 1,330	----- 11.6	6.8 7.0	13.7 13.2	----- 87.9	49.6 53	3.25 3.65	3.9 3.85	83.3 94.8	5.15 5.15	2.9 2.5	56.3 48.6
77.2	14.97	1,400	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
82.5	14.40	1,240	11.0	6.9	13.0	84.6	53.1	3.58	3.72	96	4.95	2.3	46.6
80.3	14.90	1,350	-----	-----	13.8	-----	-----	3.55	4.2	84.6	5.1	2.65	52
81	14.80	1,390	11.4	7.1	13.8	82.6	51.4	3.4	3.88	87.7	5.2	2.55	49
76.9	14.78	1,440	-----	7	13.1	-----	53.4	3.65	3.95	92.4	5.2	2.6	50
(7)	(7)	(7)	(3)	(5)	(6)	(3)	(5)	(6)	(6)	(6)	(6)	(6)	(6)
-----	103.41	9,355	34.00	34.80	80.60	-----	-----	21.08	23.50	-----	30.75	15.50	-----
79.1	14.77	1,336	11.33	6.96	13.43	85	52.1	3.51	3.99	89.7	5.19	2.68	50.4
76.4	14.40	1,205	11.00	6.80	13.00	82.6	49.6	3.25	3.72	83.3	4.95	2.30	46.6
82.3	14.97	1,440	11.60	7.10	13.80	87.9	53.4	3.65	4.20	96	5.20	2.90	56.3

## Sisseton Sioux Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. e. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80	14.93	1,270	-----	6.7	13.3	-----	50.4	3.5	3.98	88.0	4.9	2.4	49
80.3	15.13	1,415	12.7	7.9	14.0	90.7	56.4	3.68	3.98	92.4	6.0	2.7	45
80.4	15.47	1,450	11.7	7.1	14.0	83.6	50.7	3.48	3.65	95.3	5.2	2.65	51
80.2	15.13	1,440	11.7	7.3	13.7	85.4	53.3	3.3	3.8	86.8	5.5	2.7	49.1
(4)	(4)	(4)	(3)	(4)	(4)	(3)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
-----	60.66	5,575	36.1	29.0	55.0	-----	-----	13.96	15.41	-----	21.6	10.45	-----
80.2	15.17	1,394	12.03	7.25	13.75	86.6	52.7	3.49	3.85	90.6	5.4	2.61	48.4

## FEMALE

82.7	14.70	1,310	-----	7.0	12.5	-----	56	3.2	3.7	86.5	5.2	2.6	50
76.4	14.37	1,220	-----	7.2	13.2	-----	54.5	3.68	3.8	96.7	5.5	2.75	50
82.4	14.17	1,245	11.2	7.1	12.8	87.5	55.5	3.48	3.4	102.4	5.1	2.45	48.0
(3)	(3)	(3)	-----	(3)	(3)	-----	(3)	(3)	(3)	(3)	(3)	(3)	(3)
-----	43.24	3,775	-----	21.3	38.5	-----	-----	10.36	10.9	-----	15.8	7.80	-----
80.1	14.41	1,268	-----	7.1	12.85	-----	55.3	3.45	3.63	95.0	5.27	2.60	49

## Yankton Sioux Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,332	U. S. N. M.	Fort Buford, N. Dak.	Adult	-----	18.2	13.4	13.0	73.6
225,262	do	Fort Rice, N. Dak.	do	-----	18.9	14.1	13.5	74.6
243,337	do	Fort Randall, S. Dak.	do	-----	17.6	13.6	12.8	77.3
243,336	do	James River S. Dak.	do	-----	18.0	14.6	13.0	81.1
243,334	do	Fort Randall, S. Dak.	do	-----	16.9	14.0	12.6	82.8
Totals					(5) 89.6	(5) 69.7	(5) 64.9	(5) 77.8
Averages					17.92	13.94	12.98	77.8

## FEMALE

243,333	U. S. N. M.	Fort Sisseton, S. Dak.	Adult	-----	17.9	13.6	13.0	76
243,339	do	Fort Randall, S. Dak.	do	-----	17.8	14.3	13.3	80.3
243,335	do	do	do	-----	16.9	14.0	12.8	82.8
Totals					(3) 52.6	(3) 41.9	(3) 39.1	(3) 79.6
Averages					17.53	13.97	13.03	79.6

<sup>1</sup> 3 mm. added for wear of teeth.

## Siouan type Indian crania, Montana

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,662	U. S. N. M.	Fort Assiniboine	Adult	-----	18.8	14.4	13.0	76.6
243,661	do	Fort Peck	do	-----	19.0	15.0	12.7	79
243,658	do	Fort Ellis	do	-----	17.8	14.5	12.8	81.5
243,656	do	do	do	-----	18.3	15.0	12.8	82
Totals					(4) 73.9	(4) 58.9	(4) 51.3	(4) 79.7
Averages					18.48	14.73	12.83	79.7

## FEMALE

244,026	U. S. N. M.	Fort Benton	Adult	-----	17.8	13.8	12.6	77.5
243,665	do	Tongue River	do	-----	17.4	13.9	<sup>1</sup> 13.2	79.9
225,074	do	Medicine Lake Creek.	do	-----	17.6	14.7	13	83.5
Totals					(3) 52.8	(3) 42.4	(3) 38.8	(3) 80.3
Averages					17.60	14.15	12.95	80.3

<sup>1</sup> Near.

## Yankton Sioux Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.3	14.87	1,380	12.3	8.0	14.2	86.6	56.3	3.8	4.2	90.5	5.8	2.6	44.8
81.8	15.50	1,580	12.4	7.5	14.6	84.9	51.4	3.6	3.9	92.3	5.3	3.1	58.5
82	14.67	1,280	11.3	6.8	13.7	82.5	49.6	3.5	3.75	93.3	5.0	2.5	50
79.8	15.20	1,445	12.8	8.4	14.5	88.3	57.9	3.65	4.1	89.0	5.85	3.0	51.3
81.6	14.50	1,275	11.8	7.4	13.9	84.9	53.2	3.4	3.8	89.5	5.3	2.25	42.4
(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
74.74	14.74	6,960	60.60	38.1	70.9	86.6	56.3	3.8	4.2	90.5	5.8	2.6	44.8
81.5	14.94	1,392	12.12	7.62	14.18	86.6	53.7	3.59	3.95	90.9	5.45	2.69	49.4

## FEMALE

82.5	14.83	1,465	11.4	7.3	13.2	86.4	55.3	3.4	3.92	86.7	5.3	2.7	50.9
82.9	15.13	1,485	11.2	7.0	13.5	83	51.9	3.6	3.95	91.1	5.15	2.7	52.4
82.8	14.57	1,300	11.2	6.8	13.0	86.2	52.3	3.4	3.72	91.4	4.95	2.8	56.6
(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
44.53	14.84	4,250	33.8	21.1	39.7	85.1	53.2	3.47	3.86	89.7	5.13	2.73	53.2
82.7	14.84	1,417	11.27	7.03	13.23	85.1	53.2	3.47	3.86	89.7	5.13	2.73	53.2

## Siouan type Indian crania, Montana

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.3	15.40	1,460	12.4	7.6	14.7	84.4	51.7	3.4	4.0	85	5.4	2.5	46.3
74.7	15.57	1,460	12.4	7.6	14.7	84.4	51.7	3.5	4.05	86.4	5.5	2.6	47.3
79.3	15.03	1,365	13.2	7.7	14.4	91.7	53.6	3.55	3.95	89.9	5.7	2.5	43.9
76.9	15.37	1,510	13.2	8.2	14.4	91.7	56.9	3.8	4.1	92.7	6.1	2.6	42.6
(4)	(4)	(4)	(2)	(4)	(3)	(2)	(3)	(4)	(4)	(4)	(4)	(4)	(4)
61.37	15.34	5,795	25.6	31.1	43.5	83	54	3.56	4.02	88.5	5.68	2.55	44.9
77.3	15.34	1,449	12.8	7.8	14.5	83	54	3.56	4.02	88.5	5.68	2.55	44.9

## FEMALE

79.8	14.73	1,250	12.8	7	13.9	84.4	51.7	3.5	3.8	92.1	4.95	2.9	55.8
84.4	14.83	1,295	12.8	7	13.9	84.4	51.7	3.5	3.8	92.1	4.95	2.9	55.8
80.5	15.10	1,380	12.8	6.9	13.9	84.4	51.7	3.45	3.9	88.5	5.2	2.9	55.8
(3)	(3)	(3)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
44.66	14.89	3,925	25.6	13.9	43.5	83	54	3.48	3.85	90.4	5.07	2.55	44.9
81.5	14.89	1,308	12.8	6.95	13.9	83	54	3.48	3.85	90.4	5.07	2.55	44.9

## Mandan Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 385	U. S. N. M.	Fort Berthold, N. Dak.	Adult	-----	18.6	14	13.2	76.3
262, 136	do.	Mandan village site, N. Dak.	do.	-----	17.8	13.8	13.4	77.5
Totals					(2) 36.4	(2) 27.8	(2) 26.6	(2)
Averages					18.2	13.9	13.3	76.4

## Crow Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 787	U. S. N. M.	Ogallala, Nebr.	Adult	-----	17.8	13.5	12.0	76.3
243, 788	do.	Fort Benton, Nebr.	do.	-----	17.7	14.0	13.5	79.1
Totals					(2) 35.5	(2) 27.5	(2) 25.5	(2)
Averages					17.75	13.75	12.75	77.5

<sup>1</sup> Teeth worn to gums.

## Arikara Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
325, 362	U. S. N. M.	Near Mobridge, S. Dak.	Adult	-----	19.4	14.0	13.5	72.2
324, 718	do.	do.	do.	-----	19.1	13.8	13.5	72.2
325, 349	do.	do.	do.	-----	18.4	13.5	12.3	73.4
325, 419	do.	do.	do.	-----	18.7	13.8	13.4	73.8
325, 365	do.	do.	do.	-----	18.7	13.8	13.4	73.8
325, 383	do.	do.	do.	-----	18.0	13.3	13.9	73.9
324, 739	do.	do.	do.	-----	18.1	13.4	13.0	74.0
325, 345	do.	do.	do.	-----	18.9	14.0	14.0	74.1
325, 418	do.	do.	do.	-----	17.8	13.2	13.0	74.2
325, 366	do.	do.	do.	-----	18.7	14.0	13.3	74.9
325, 335	do.	do.	do.	-----	19.6	14.7	13.9	76.0
325, 397	do.	do.	do.	-----	18.8	14.1	13.7	76.0
325, 377	do.	do.	do.	-----	18.5	13.9	13.4	76.1
315, 536	do.	Flood Plains, Missouri River, S. Dak.	do.	-----	18.6	14.0	14.5	76.5

## Mandan Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
81	15.27	1,500	-----	7.4	-----	-----	-----	3.85	3.75	102.7	5.6	2.5	44.6
84.8	15.00	1,470	-----	7.8	13.5	-----	57.8	3.50	3.82	91.6	5.5	2.6	47.3
(2)	(2)	(2)	-----	(2)	-----	-----	-----	(2)	(2)	(2)	(2)	(2)	(2)
82.9	30.27 15.14	2,970 1,485	-----	15.2 7.6	-----	-----	-----	7.35 3.67	7.57 3.78	-----	11.1 5.55	5.1 2.55	45.9

## Crow Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
76.7	14.43	1,240	111.8	7.3	12.8	92.2	57.0	3.48	3.9	89.2	5.1	2.5	49.0
85.2	15.07	1,340	111.4	7.3	13.7	83.2	53.3	3.5	3.9	89.7	5.45	3.15	57.8
(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
81	29.50 14.75	2,580 1,290	23.2 11.6	14.6 7.3	26.5 13.25	87.5	55.1	6.98 3.49	7.8 3.9	-----	10.55 5.27	5.65 2.82	53.6

## Arikara Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.8	15.63	1,475	12.9	7.8	14.8	87.2	52.7	3.78	4.22	89.6	5.7	2.95	51.8
82.1	15.47	1,520	12.4	8.0	13.5	91.8	59.3	3.76	4.05	92.8	5.8	2.25	38.8
77.1	14.73	1,280	12.5	7.8	14.0	89.3	55.7	3.51	4.00	87.8	5.6	2.5	44.6
82.5	15.30	1,510	12.4	7.3	14.4	86.1	50.7	3.55	4.00	88.8	5.5	2.9	52.7
88.8	15.07	1,380	12.1	7.5	13.5	89.6	55.6	3.50	3.90	89.7	5.4	2.5	46.3
82.5	14.83	1,370	13.0	8.2	13.3	97.7	61.6	3.51	3.92	89.5	5.8	2.45	42.2
85.1	15.63	1,565	-----	7.9	14.0	56.4	-----	-----	-----	-----	5.5	2.7	49.1
82.9	14.67	1,290	-----	7.1	13.3	53.4	53.4	3.60	4.00	90.0	5.4	2.4	44.4
81.4	15.33	1,435	11.1	6.9	13.7	81.0	50.4	3.52	3.75	95.9	5.3	2.7	50.9
81.0	16.07	1,760	12.3	8.0	14.7	83.7	54.4	3.58	3.95	90.6	5.6	2.9	51.8
83.3	15.53	1,570	12.7	7.7	14.9	85.2	51.7	3.60	4.05	88.9	5.8	2.7	46.6
82.7	15.27	1,355	11.5	7.7	14.1	81.6	51.7	3.74	3.95	94.7	5.5	2.8	50.9
89.0	15.70	1,610	13.1	8.0	14.1	92.9	56.7	3.35	3.95	84.9	5.3	2.7	50.9

## Arikara Indian crania—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
325, 341	U. S. N. M.	Near Mobridge, S. Dak.	Adult		18.3	13.8	13.7	75.4
325, 375	do.	do.	do.		18.5	14.0	14.1	75.7
325, 363,	do.	do.	do.		18.4	14.0	13.3	76.1
771	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.		19.3	14.7	13.6	76.2
2, 198	do.	do.	do.		18.2	13.9	13.6	76.4
315, 533	U. S. N. M.	do.	do.		18.8	14.4	13.4	76.6
325, 396	do.	Near Mobridge, S. Dak.	do.		19.0	14.6	14.0	76.8
2, 193	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.		18.1	13.9	14.1	76.8
325, 434	U. S. N. M.	Near Mobridge, S. Dak.	do.		18.8	14.5	13.3	77.1
325, 369	do.	do.	do.		18.8	14.6	12.8	77.7
325, 372	do.	do.	do.		18.6	14.5	14.4	78.0
2, 159	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.		18.2	14.2	13.9	78.0
325, 433	U. S. N. M.	Near Mobridge, S. Dak.	do.		18.2	14.2	13.6	78.0
325, 364	do.	do.	do.		17.9	14.0	13.4	78.2
325, 350	do.	do.	do.		18.0	14.1	12.9	78.3
325, 376	do.	do.	do.		18.2	14.3	13.0	78.6
315, 535	do.	Flood Plains, Missouri River, S. Dak.	do.		18.2	14.4	12.6	79.1
325, 360	do.	Near Mobridge, S. Dak.	do.		18.0	14.3	13.2	79.4
325, 378	do.	do.	do.		18.0	14.3	13.2	79.4
2, 213	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.		18.7	14.9	13.4	79.7
325, 381	U. S. N. M.	Near Mobridge, S. Dak.	do.		18.3	14.6	13.2	79.8
325, 385	do.	do.	do.		17.8	14.2	13.5	79.8
2, 188	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.		17.4	13.9	12.9	79.9
325, 435	U. S. N. M.	Near Mobridge, S. Dak.	do.		17.8	14.3	13.6	80.3
325, 336	do.	do.	do.		17.9	14.5	13.3	81.0
325, 348	do.	do.	do.		18.2	14.8	13.2	81.3
315, 542	do.	Upper Missouri River, S. Dak.	do.		18.2	14.8	13.4	81.3
2, 208	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.	Slight occipital compression.	17.6	14.3		81.3
325, 420	U. S. N. M.	Near Mobridge, S. Dak.	do.		17.6	14.4	13.2	81.8
315, 538	do.	Flood Plains, Missouri River, S. Dak.	do.	Very slight occipital compression.	17.7	14.5	13.4	81.9
325, 391	do.	Near Mobridge, S. Dak.	do.		18.0	14.8	13.6	82.2
325, 353	do.	do.	do.		18.2	15.0	14.3	82.4
978	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.		18.0	14.9	12.9	82.8
325, 388	U. S. N. M.	Near Mobridge, S. Dak.	do.		17.6	14.6	14.0	83.0
325, 395	do.	do.	do.		17.7	14.7	13.6	83.0
325, 368	do.	do.	do.	Very slight occipital flattening.	17.5	14.6	14.1	83.4
315, 543	do.	Flood Plains, Missouri River, S. Dak.	do.		17.4	14.7	12.7	84.6

## Arikara Indian crania—Continued

## MALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Blyzgomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85.4	15.27	1,465	12.9	7.8	13.7	94.2	56.9	3.92	3.92	100.0	5.55	2.9	52.3
86.8	15.53	1,550	12.3	7.4	13.7	89.8	54.0	3.98	4.04	98.5	5.7	2.5	43.9
82.1	15.23	1,470	11.7	7.2	14.0	83.6	51.4	3.77	4.00	94.2	5.35	2.7	50.5
80.0	15.87	-----	12.9	7.5	15.1	85.4	49.7	-----	-----	-----	5.7	2.8	49.1
84.7	15.23	-----	12.5	7.9	13.3	94.0	59.4	-----	-----	-----	5.4	2.4	44.4
80.7	15.53	1,575	11.7	7.5	14.2	82.4	52.8	3.35	3.9	85.9	5.3	2.4	45.3
83.3	15.87	1,645	13.4	7.9	14.4	93.1	54.9	3.57	4.15	86.0	5.7	2.5	43.9
88.1	15.37	-----	13.4	8.4	14.2	94.4	59.2	-----	-----	-----	5.8	2.7	46.5
79.9	15.53	1,605	-----	7.3	14.2	-----	51.4	3.66	4.05	90.4	5.5	2.55	46.4
76.6	15.40	1,480	12.3	7.6	14.7	83.7	51.7	3.54	4.00	88.5	5.6	3.0	53.6
87.0	15.83	1,525	12.8	7.9	14.2	90.1	55.6	3.70	4.10	90.2	5.7	2.7	47.4
85.8	15.43	-----	12.2	7.7	13.9	87.8	55.4	-----	-----	-----	5.4	2.6	48.2
84.0	15.33	1,465	-----	7.8	13.9	-----	56.1	3.41	3.84	88.8	5.4	2.5	46.3
84.0	15.10	1,390	11.0	-----	14.1	78.0	-----	3.58	3.90	91.8	5.4	2.9	53.7
80.4	15.00	1,430	11.9	7.9	14.6	81.5	54.1	3.91	4.10	95.4	6.0	2.6	43.3
80.0	15.17	1,475	12.4	7.8	14.6	84.9	53.4	3.72	3.80	97.9	5.85	2.55	43.6
77.3	15.07	1,440	12.2	7.6	13.5	90.4	56.3	4.15	4.10	101.2	5.6	2.5	44.6
81.7	15.17	1,410	11.9	7.6	14.2	83.8	53.5	3.77	4.02	93.8	5.9	2.4	40.7
81.7	15.17	1,400	11.8	7.4	14.1	83.7	52.5	3.60	4.20	85.7	5.4	2.5	46.3
79.8	15.70	-----	11.3	7.0	14.3	79.0	48.9	-----	-----	-----	5.3	2.6	49.1
80.2	15.37	1,420	12.4	7.8	14.9	83.2	52.3	3.68	4.20	87.6	5.4	2.65	49.1
84.4	15.17	1,485	11.6	7.1	14.3	81.1	49.6	3.66	4.01	91.3	5.4	2.75	50.9
82.4	14.73	-----	12.3	7.5	14.1	87.2	53.2	-----	-----	-----	5.4	2.6	48.1
84.7	15.23	1,470	-----	7.3	14.3	-----	51.0	3.39	3.67	92.4	5.45	2.85	52.3
82.1	15.23	1,450	11.6	7.3	14.2	81.7	51.4	3.52	3.89	90.5	5.25	2.7	51.4
80.0	15.40	1,690	11.5	7.4	13.9	82.7	53.2	3.63	4.01	90.5	5.4	2.6	48.2
81.2	15.47	1,590	12.9	8.1	13.8	93.5	53.7	3.55	3.90	91.0	5.8	2.6	44.8
-----	-----	-----	12.0	7.4	-----	-----	-----	-----	-----	-----	5.7	2.5	43.9
82.5	15.07	1,425	12.5	7.8	14.4	86.8	54.2	4.05	4.09	99.0	5.8	2.7	46.6
83.2	15.20	1,460	11.0	7.0	14.0	78.6	50.0	3.36	3.90	85.9	5.1	2.6	51.0
82.9	15.47	1,545	12.6	7.9	14.6	86.3	54.1	4.00	3.88	103.1	5.9	2.35	39.8
86.1	15.83	-----	12.4	7.7	14.6	84.9	52.7	3.38	3.95	85.6	5.55	2.85	51.3
78.4	15.27	-----	12.6	7.9	14.7	85.7	53.7	-----	-----	-----	6.0	2.7	46.0
87.0	15.07	1,495	12.3	7.1	14.3	86.0	49.7	3.44	4.00	86.0	5.7	2.6	45.6
84.0	14.67	1,460	12.0	7.1	13.7	87.6	51.8	3.50	3.90	89.7	5.3	2.45	46.2
87.9	15.40	1,450	11.9	7.6	14.7	80.9	51.7	3.75	4.05	92.6	5.8	2.9	50.0
79.1	14.93	1,385	-----	7.3	13.4	-----	54.5	3.50	3.90	89.7	5.3	2.4	45.3

## Arikara Indian crania—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
325, 390	U. S. N. M.	Near Mobridge, S. Dak.	Adult	Slight occipital flattening.	(17.0)	(14.5)	(13.2)	(85.8)
325, 424	do	do	do	Asymmetry	(17.7)	(15.5)	(13.8)	-----
2, 196	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do	-----	-----	-----	-----	-----
Totals	-----	-----	-----	-----	(51) 932.4	(51) 726.7	(50) 673.2	(51) -----
Averages	-----	-----	-----	-----	18.28	14.26	13.46	77.9
Minima	-----	-----	-----	-----	17.4	13.2	12.3	72.2
Maxima	-----	-----	-----	-----	19.6	15	14.5	84.6

## FEMALE

325, 370	U. S. N. M.	Near Mobridge, S. Dak.	Adult	-----	17.9	13.0	13.2	72.6
325, 416	do	do	do	-----	18.0	13.1	12.7	72.8
325, 380	do	do	do	-----	18.8	13.7	12.9	72.9
325, 374	do	do	do	-----	18.2	13.4	13.4	73.6
325, 384	do	do	do	-----	18.0	13.5	12.7	75.0
325, 400	do	do	do	-----	17.6	13.2	12.8	75.0
325, 371	do	do	do	-----	17.4	13.1	13.1	75.3
325, 358	do	do	do	-----	17.4	13.1	12.5	75.3
315, 537	do	Flood Plains, Missouri River, S. Dak.	do	-----	17.8	13.4	13.0	75.3
2, 162	Univ. S. Dak.	do	do	-----	17.5	13.2	12.6	75.4
2, 206	do	do	do	-----	17.8	13.5	13.0	75.8
325, 355	U. S. N. M.	Near Mobridge, S. Dak.	do	-----	17.1	13.0	13.4	76.0
325, 352	do	do	do	-----	17.6	13.5	12.6	76.7
325, 379	do	do	do	-----	17.4	13.4	13.3	77.0
325, 998	do	do	do	-----	17.0	13.1	12.1	77.1
315, 540	do	Upper Missouri River, S. Dak.	do	-----	17.2	13.3	13.0	77.3
325, 337	do	Near Mobridge, S. Dak.	do	-----	17.7	13.7	12.5	77.4
325, 387	do	do	do	-----	17.4	13.5	12.5	77.6
315, 531	do	Flood Plains, Missouri River, S. Dak.	do	-----	17.6	13.7	12.7	77.8
315, 539	do	do	do	-----	17.4	13.6	12.6	78.2
325, 373	do	Near Mobridge, S. Dak.	do	-----	16.6	13.0	13.2	78.3
325, 367	do	do	do	-----	16.8	13.2	13.2	78.6
325, 389	do	do	do	-----	17.3	13.6	12.7	78.6
2, 163	Univ. S. Dak.	Upper Missouri River, S. Dak.	do	-----	17.8	14.0	-----	78.6
325, 357	U. S. N. M.	Near Mobridge, S. Dak.	do	-----	17.1	13.5	13.1	79.0
325, 338	do	do	do	-----	17.2	13.7	12.6	79.6
325, 342	do	do	do	-----	17.3	13.3	12.8	79.8
325, 415	do	do	do	-----	16.9	13.5	12.2	79.9
325, 432	do	do	do	-----	17.3	13.9	12.8	80.4
325, 359	do	do	do	-----	16.6	13.4	12.8	80.7
325, 361	do	do	do	-----	17.8	14.4	13.2	80.9
325, 351	do	do	do	-----	18.0	14.6	12.3	81.1
325, 339	do	do	do	-----	17.0	13.8	13.0	81.2
325, 394	do	do	do	-----	17.1	14.0	13.2	81.9
325, 392	do	do	do	-----	16.6	13.6	12.6	81.9
2, 175	Univ. S. Dak.	Upper Missouri River, S. Dak.	do	-----	17.2	14.2	12.6	82.6
325, 393	U. S. N. M.	Near Mobridge, S. Dak.	do	-----	17.6	14.6	13.3	83.0
325, 347	do	do	do	-----	17.5	14.7	12.6	84.0



## Arikara Indian crania—Continued

## MALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth max.	Nasal Index
83.8	14.90	1,460	11.8	7.3	14.5	81.4	50.3	3.75	4.10	91.5	5.5	2.5	46.4
	15.67	1,640	11.6	8.1	14.4	82.9	56.2	3.93	4.04	97.3	5.7	2.35	41.2
					14						5.4	2.4	44.4
(50)	(52)	(43)	(46)	(51)	(52)	(45)	(50)	(43)	(43)	(45)	(53)	(53)	(55)
82.7	796.41	63,870	561.6	387.8	736	86.1	53.7	156.71	171.35		294.6	138.8	
76.6	15.33	1,485	12.21	7.60	14.15	86.1	53.7	3.64	3.99	90.9	5.66	2.62	47.1
89	14.67	1,280	11	6.9	13.3	78	48.9	3.35	3.67	84.9	5.1	2.25	58.8
	16.07	1,760	13.4	8.4	15.1	97.7	61.6	4.15	4.22	103.1	6	3	63.7

## FEMALE

86.4	14.70	1,430	11.4	6.7	13.25	86.0	50.6	3.35	3.80	88.2	5.0	2.7	54
81.7	14.60	1,310	11.8	7.2	12.9	91.5	55.8	3.44	3.90	88.2	5.2	2.6	50
79.4	15.13	1,540		7.4	13.2		66.1	3.76	4.05	92.8	5.7	2.8	49.1
84.8	15.00	1,420	10.9	7.2	13.3	82.0	54.1	3.55	3.85	92.2	5.1	2.5	49.0
80.6	14.40	1,280	11.0	7.1	13.0	84.6	54.6	3.68	4.00	92.0	5.0	2.55	51.0
83.1	14.53	1,350		7.0	13.1		53.4	3.48	3.90	89.2	5.2	2.6	50.0
86.0	14.53		11.3	6.9	12.9	87.6	53.5	3.50	3.75	93.3	5.15	2.45	47.6
82.0	14.33	1,280	10.5	6.6	13.0	80.8	50.8	3.48	3.78	92.1	4.65	2.7	58.1
83.3	14.73	1,350		7.9	12.9		61.2	3.45	3.90	88.5	5.35	2.45	46.8
82.1	14.43				12.8						5.0	2.9	58.0
83.1	14.77			7.3	13.5		64.1				4.8	2.7	56.3
89.0	14.60	1,290	12.3	7.8	12.6	97.6	61.9	3.60	3.87	93.0	5.45	2.15	39.5
81.0	14.57	1,415	11.8	7.0	12.4	95.2	56.4	3.70	3.70	100.0	5.10	2.3	45.1
86.4	14.70	1,345	11.4	7.0	12.5	91.2	56.0	3.37	3.77	89.4	5.3	2.5	47.2
80.5	14.07	1,235		7.5	13.0		67.7	3.86	3.90	99.0	5.2	2.3	44.2
85.3	14.50	1,335		6.6	12.2		64.1	3.3	3.75	88.0	4.8	2.3	47.9
79.6	14.63	1,335	11.6	7.3	12.9	89.9	66.6	3.37	3.97	84.9	5.3	2.4	46.3
80.9	14.47	1,215											
81.1	14.67	1,395	12.3	7.5	13.0	94.6	67.7	3.7	3.98	93.0	5.5	2.4	43.6
81.3	14.53	1,300		7.5	12.2		61.5	3.45	3.65	94.5	5.3	2.45	46.2
89.2	14.27		11.4	7.2	12.2	93.4	69.0	3.68	3.65	100.8	5.4		
88.0	14.40	1,250	11.9	7.6	12.9	92.2	58.9	3.78	3.85	98.2	5.5	2.65	48.2
82.2	14.53	1,290	10.1	6.4	13.4	76.4	47.8	3.40	3.75	90.7	4.9	2.7	56.1
			11.9	7.2	13.7	86.9	62.5				5.4	2.6	48.1
85.6	14.57	1,330	12.0	7.7	13.1	91.6	58.8	3.68	3.92	93.9	5.6	2.6	46.4
81.6	14.50	1,260	10.6	6.4	12.7	83.5	50.4	3.50	3.80	92.1	5.0	2.4	48.0
82.3	14.63	1,290	10.8	6.9	13.4	80.6	61.5	3.34	3.88	86.1	5.15	2.55	49.5
80.3	14.20	1,270	11.1	6.8	12.8	86.7	63.1	3.57	3.95	90.4	5.05	2.45	48.4
82.0	14.67	1,450	11.5	7.1	13.3	86.5	63.4	3.69	3.78	97.6	5.15	2.4	46.6
85.3	14.27	1,265	10.8	6.8	12.6	85.7	64.0	3.42	3.70	92.4	5.0	2.65	53
82.0	15.13	1,450	12.4	7.7	13.2	93.9	58.3	3.70	4.00	92.5	5.6	2.6	46.4
75.5	15.30	1,330	11.7	7.6	13.7	85.4	65.5	3.70	3.87	95.6	5.5	2.75	50
84.4	14.60	1,310	12.1	7.6	13.4	90.3	66.7	3.93	3.83	102.6	5.3	2.8	62.8
84.9	14.77	1,420	12.0	7.3	13.2	90.9	66.3	3.27	3.80	86.0	5.1	2.3	46.1
83.4	14.27	1,215	11.2	6.7	13.0	86.2	61.5	3.59	3.85	93.3	4.95	2.65	54.5
80.2	14.67			7.3	13.2		65.3				5.4	2.5	46.3
82.6	15.17	1,445	12.1	7.65	13.5	89.6	66.7	3.68	3.84	95.8	5.5	2.5	46.4
78.3	14.93	1,470	12.5	8.0	13.2	94.7	60.6	3.55	3.75	94.7	5.4	2.6	48.2

## Arikara Indian crania—Continued

## FEMALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
2, 170	Univ. S. Dak.	Upper Missouri River, S. Dak.	Adult	-----	16.9	14.2	13.1	84.0
325, 421	U. S. N. M.	Near Mobridge, S. Dak.	do.	-----	16.8	14.2	12.6	84.5
2, 173	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.	-----	16.7	14.2	13.1	85.0
325, 354	U. S. N. M.	Near Mobridge, S. Dak.	do.	Slight asymmetry.	(16.5)	(14.4)	(11.8)	(87.9)
325, 386	do.	do.	do.	Some occipital flattening.				
325, 382	do.	do.	do.	-----	17.2	-----	12.8	-----
325, 417	do.	do.	do.	-----				
765	Univ. S. Dak.	Flood Plains, Missouri River, S. Dak.	do.	-----				
Totals					(42)	(41)	(41)	(41)
Averages					730.1	559.1	526.4	78.4
Minima					17.38	13.64	12.84	78.4
Maxima					16.6	13	12.1	72.6
					18.8	14.7	13.4	85

## Ponka Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 310	U. S. N. M.	Fort Randall, S. Dak.	Adult	-----	18.4	13.8	13.2	75
225, 285	do.	Old Ponka Agency, Dak.	Very near adult.	-----	18.8	14.2	14.0	75.5
225, 097	do.	do.	Adult.	-----	19.4	14.8	13.9	76.3
243, 312	do.	Fort Randall, S. Dak.	do.	-----	18.5	14.2	13.4	76.8
243, 319	do.	do.	do.	-----	18.1	14.2	13.4	78.4
226, 500	do.	Old Ponka Agency, Dak.	do.	-----	17.8	14.1	13.3	79.2
243, 318	do.	Fort Randall, S. Dak.	do.	-----	17.6	14.0	12.8	79.6
243, 309	do.	Old Ponka Agency, Dak.	do.	-----	18.1	14.6	13.1	80.7
243, 317	do.	Fort Randall, S. Dak.	do.	-----	18.3	15.1	13.1	82.5
243, 326	do.	Old Ponka Agency, Dak.	do.	-----	17.6	14.8	12.5	84.1
243, 313	do.	Fort Randall, S. Dak.	do.	Slight asymmetry.	17.7	15.0	13.0	84.8
Totals					(11)	(11)	(11)	(11)
Averages					200.3	158.8	145.7	79.3
Minima					18.21	14.44	13.25	75
Maxima					17.6	13.8	12.5	84.8

## Arikara Indian crania—Continued

## FEMALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.2	14.73	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.9	-----	-----
81.3	14.53	1,330	11.1	7.1	13.6	81.6	52.3	3.82	3.90	97.9	5.25	2.45	46.7
84.8	14.67	-----	11.1	7.0	13.3	83.5	52.6	-----	-----	-----	4.9	2.5	51.0
(76.4)	13.90	1,315	11.0	6.9	14.3	76.9	48.2	3.49	3.85	90.6	4.9	2.45	50
-----	-----	-----	11.0	6.9	12.8	85.9	53.9	3.55	3.70	96.0	4.85	2.4	49.5
-----	-----	-----	11.8	7.2	13.0	90.8	55.4	-----	-----	-----	5.4	2.65	49.1
-----	-----	-----	11.4	6.9	-----	-----	-----	3.50	3.77	92.8	5.2	2.5	48.1
-----	-----	-----	-----	6.5	-----	-----	-----	-----	-----	-----	4.6	2.3	50.0
(40)	(41)	(34)	(34)	(43)	(42)	(33)	(41)	(37)	(37)	(37)	(45)	(43)	(43)
-----	598.5	45,550	359.8	307.95	548.15	-----	-----	131.88	141.96	-----	233	108.7	-----
82.7	14.60	1,340	11.46	7.16	13.05	87.6	55	3.56	3.84	92.9	5.18	2.53	48.8
75.5	13.90	1,215	10.1	6.4	12.2	75.4	47.8	3.27	3.65	84.9	4.65	2.15	39.5
89.2	15.30	1,540	12.5	8	14.3	97.6	61.9	3.93	4.05	102.6	5.7	2.9	58.1

## Ponka Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82	15.13	1,480	11.6	7.3	13.2	87.9	55.3	3.32	3.8	87.4	5.2	2.6	50
84.8	15.67	1,570	12.3	7.6	13.6	90.4	55.9	3.5	3.8	92.1	5.4	2.6	48.2
81.3	16.03	1,640	11.7	7.2	14.6	80.1	49.6	3.35	4.0	81.2	5.0	2.6	52
82	15.37	1,550	12.6	7.9	15.1	83.4	52.3	3.5	4.15	84.4	5.8	3.0	51.7
83	15.23	1,440	13.0	8.0	14.9	87.2	53.7	3.35	3.9	85.9	5.5	2.7	49.1
83.4	15.07	1,380	-----	7.9	13.4	-----	59	3.75	3.95	94.9	5.4	2.6	48.2
81.0	14.80	1,430	-----	7.3	13.9	-----	52.5	3.4	3.7	91.9	5.1	2.5	49.0
80.1	15.27	1,490	12.1	7.8	14.0	86.4	55.7	3.6	4.0	90	5.75	(2.1)	(36.5)
78.4	15.50	1,490	-----	7.9	15.0	-----	52.7	3.4	4.25	80.0	5.6	2.8	50
77.2	14.97	1,420	11.1	6.7	13.8	80.4	49.6	3.4	3.7	91.9	5.25	2.4	45.7
79.5	15.23	1,505	12.1	7.3	14.1	85.8	51.8	3.7	3.75	98.7	5.2	2.8	53.8
(11)	(11)	(11)	(8)	(11)	(11)	(8)	(11)	(11)	(11)	(11)	(11)	(10)	(10)
-----	168.27	16,395	96.5	82.9	15.56	-----	-----	38.27	43.0	-----	59.2	26.6	-----
81.2	15.29	1,490	12.06	7.54	14.15	85.2	53.3	3.48	3.91	89	5.38	2.66	49.8
77.2	14.80	1,380	11.1	6.7	13.2	80.1	49.6	3.32	3.7	80	5	2.4	45.7
84.8	16.03	1,640	13	8	15.1	90.4	59	3.75	4.25	98.7	5.75	3	53.8

## Ponka Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 325	U. S. N. M.	Old Ponka Agency, Dak.	Adult	-----	18.0	14.0	12.5	77.8
243, 311	do	Old Ponka Agency, Dakota Ter.	do	Very slight in asymmetry.	16.8	13.1	11.8	78
243, 327	do	do	do	do	17.4	13.6	13.1	78.2
243, 320	do	do	do	do	17.0	13.4	12.6	78.8
225, 099	do	do	do	Very slight asymmetry.	18.0	14.3	13.0	79.4
226, 497	do	do	do	do	18.0	14.4	13.1	80
225, 096	do	Old Ponka Agency, Niobrara River.	do	do	17.5	14.1	13.0	80.6
225, 095	do	Ponka Agency, Niobrara River, Dakota, Ter.	do	do	17.3	14.6	12.2	84.4
Totals					(8) 140.0	(8) 111.5	(8) 101.3	(8)
Averages					17.50	13.94	12.66	79.6
Minima					16.8	13.1	11.8	77.8
Maxima					18	14.6	13.1	84.4

## North Dakota Mound Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
228, 876	U. S. N. M.	Mound, Walsh County, N. Dak.	Adult	-----	19.6	13.8	13.1	70.4
243, 235	do	Devils Lake Agency, N. Dak.	do	-----	19.0	13.6	12.9	71.6
243, 237	do	do	do	-----	18.8	13.5	13.5	71.8
228, 885	do	Walsh County, N. Dak.	do	-----	18.4	13.3	-----	72.3
243, 915	do	Bismarck, N. Dak.	do	-----	18.8	13.7	12.4	72.9
228, 890	do	Walsh County, N. Dak.	do	-----	18.4	13.7	12.7	74.5
228, 880	do	do	do	-----	18.9	14.2	High	75.1
228, 884	do	do	do	-----	18.4	14.0	13.6	76.1
243, 232	do	Fort Totten	do	-----	18.4	14.2	14.0	77.2
228, 837	do	Walsh County, N. Dak.	do	-----	17.8	13.8	12.9	77.5
243, 225	do	Fort Totten	do	-----	17.6	13.7	13.0	77.8
228, 878	do	Walsh County, N. Dak.	do	-----	18.8	15.1	13.6	80.3
228, 881	do	Seymores Place, Walsh County, N. Dak.	do	-----	18.8	15.1	-----	80.3
243, 231	do	Fort Totten	do	-----	-----	-----	-----	-----
228, 888	do	Walsh County, N. Dak.	do	-----	-----	-----	-----	-----
Totals					(13) 241.70	(13) 181.7	(10) 131.7	(13)
Averages					18.59	13.92	13.17	75.2
Minima					17.6	13.3	12.4	70.4
Maxima					19.6	15.1	14.0	80.3

## Ponka Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.1	14.83	1,350	11.2	7.0	13.5	83	51.8	3.7	3.9	94.9	5.2	2.8	53.8
79	13.90	1,220	11.1	7.0	12.8	86.7	54.7	3.5	3.7	94.6	5.1	2.3	46.1
84.5	14.70	1,330	11.5	7.3	13.0	88.5	56.2	3.6	3.7	97.3	5.0	2.5	50
82.9	14.33	1,280	11.1	6.7	13.0	85.4	51.5	3.35	3.9	85.9	5.0	2.1	42
80.5	15.10	1,370	-----	7.0	13.1	-----	53.4	3.48	3.8	91.6	5.3	2.6	49.1
80.9	15.17	1,485	-----	6.4	13.1	-----	48.8	3.35	3.7	90.5	5.0	2.5	50
82.3	14.87	1,270	-----	7.0	13.4	-----	52.2	3.4	3.8	89.5	5.1	2.3	46.1
76.5	14.70	1,245	-----	6.8	13.6	-----	50	3.4	3.9	87.2	5.3	2.8	52.8
(8)	(8)	(8)	(4)	(8)	(8)	(4)	(8)	(8)	(8)	(8)	(8)	(8)	(8)
-----	117.60	10,550	44.9	55.2	105.5	-----	-----	27.78	30.4	-----	41.0	19.9	-----
80.6	14.70	1,319	11.23	6.90	13.19	85.8	52.3	3.47	3.80	91.4	5.12	2.49	48.5
76.5	13.90	1,220	11.1	6.4	12.8	83	48.8	3.35	3.7	85.9	5	2.1	42
84.5	15.17	1,485	11.5	7.3	13.6	88.5	56.2	3.7	3.9	97.3	5.3	2.8	53.8

## North Dakota Mound Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.4	15.50	1,470	-----	7.3	13.8	-----	52.9	3.38	4.0	84.5	5.7	2.4	42.1
79.1	15.17	1,520	10.9	7.0	14.5	75.2	48.3	3.8	4.0	95	5.4	2.7	50
83.6	15.27	1,500	-----	7.6	14.7	-----	51.7	3.55	3.98	89.2	5.7	2.8	49.1
-----	-----	-----	-----	6.9	13.4	-----	51.5	3.3	3.7	89.2	5.4	-----	-----
76.3	14.97	1,345	-----	7.1	13.5	-----	52.6	3.6	4.15	86.8	5.3	2.9	54.7
79.1	14.93	1,375	12	7.3	-----	-----	-----	-----	-----	-----	5.65	2.6	46.0
-----	-----	1,470	-----	7.5	-----	-----	-----	3.5	4.0	87.5	5.8	-----	-----
84	15.35	1,525	-----	-----	-----	-----	-----	3.6	3.9	92.3	5.7	2.2	38.6
85.9	15.53	1,625	-----	7.1	-----	-----	-----	3.35	3.75	89.3	5.2	2.7	51.9
81.6	14.83	-----	-----	-----	13.6	-----	-----	-----	-----	-----	-----	-----	-----
83.1	14.77	1,455	-----	-----	13.7	-----	-----	3.7	3.8	97.4	5.8	2.5	43.1
80.2	15.83	1,620	-----	7.7	15.0	-----	51.3	3.7	3.95	93.7	5.4	2.7	50
-----	-----	-----	-----	7.2	-----	-----	-----	-----	-----	-----	5.4	-----	-----
-----	-----	-----	-----	7.0	-----	-----	-----	-----	-----	-----	5.3	2.5	47.2
-----	-----	-----	13.1	7.9	-----	-----	-----	3.4	3.85	88.3	5.3	2.3	43.4
(10)	(10)	(10)	(3)	(12)	(8)	-----	(6)	(11)	(11)	(11)	(14)	(11)	(11)
-----	152.13	14,905	36.0	87.6	112.2	-----	-----	38.83	43.08	-----	77.05	28.30	-----
81.0	15.21	1,490	12.0	7.3	14.03	-----	51.4	3.54	3.92	90.2	5.60	2.57	46.8
76.3	14.77	1,345	10.9	6.9	13.4	-----	48.3	3.3	3.9	84.5	5.2	2.2	38.6
85.9	15.83	1,625	13.1	7.9	15.0	-----	52.9	3.8	4.0	97.4	5.8	2.9	54.7

## North Dakota Mound Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 233	U. S. N. M.	Fort Totten, N. Dak.	Adult	-----	17.9	13.9	12.8	77.6
243, 236	do	Devils Lake Agency.	do	-----	17.4	13.6	12.0	78.2
228, 889	do	Walsh County, N. Dak.	do	-----	17.1	13.6	13.3	79.5
228, 886	do	do	do	Very slight occ. comp.	17.8	14.3	12.8	80.3
243, 234	do	Fort Totten, N. Dak.	do	-----	-----	-----	-----	-----
Totals	-----	-----	-----	-----	(4) 70.2	(4) 55.4	(4) 50.9	(4) -----
Averages	-----	-----	-----	-----	17.55	13.85	12.72	78.9
Minima	-----	-----	-----	-----	17.1	13.6	12.0	77.6
Maxima	-----	-----	-----	-----	17.9	14.3	13.3	80.3

## South Dakota Mound Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 222	U. S. N. M.	Fort Wadsworth, S. Dak.	Adult	-----	19.0	13.6	13.4	71.6
225, 240	do	do	do	-----	18.9	13.6	13.8	72
225, 254	do	do	do	-----	18.6	13.6	13.7	73.1
243, 223	do	do	do	-----	18.5	13.9	13.4	75.1
243, 221	do	do	do	-----	18.6	14.4	13.4	77.4
Totals	-----	-----	-----	-----	(5) 93.6	(5) 69.1	(5) 67.7	(5) -----
Averages	-----	-----	-----	-----	18.72	13.82	13.54	73.8

## FEMALE

243, 219	U. S. N. M.	Fort Wadsworth	Adult	-----	17.2	13.5	12.2	78.5
243, 224	do	do	do	-----	18	-----	12.4	-----
Totals	-----	-----	-----	-----	(2) 35.2	-----	(2) 24.6	-----
Averages	-----	-----	-----	-----	17.6	-----	12.3	-----

## North Dakota Mound Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.5	14.87	1,465	-----	6.5	12.9	-----	50.4	3.3	3.7	89.2	4.7	2.4	51.1
77.4	14.33	1,225	-----	7.0	12.9	-----	54.3	3.5	3.7	94.6	4.9	2.3	46.9
86.7	14.67	1,310	-----	6.9	13.2	-----	52.3	3.35	3.85	87.0	5.0	2.4	48.0
79.8	14.97	-----	11.2	7.2	-----	-----	-----	-----	-----	-----	5.15	2.6	50.5
-----	-----	-----	-----	6.7	12.9	-----	51.9	3.6	3.7	97.3	5.1	2.3	45.1
(4)	(4)	(3)	-----	(5)	(4)	-----	(4)	(4)	(4)	(4)	(5)	(5)	(5)
-----	58.84	4,000	-----	34.3	51.9	-----	-----	13.75	14.95	-----	24.85	12.0	-----
81.1	14.71	1,535	-----	6.86	12.93	-----	52.2	3.44	3.74	92	4.97	2.4	48.3
77.4	14.33	1,225	-----	6.5	12.9	-----	50.4	3.3	3.7	82	4.7	2.3	46.1
86.7	14.97	1,465	-----	7.2	13.2	-----	54.3	3.6	3.85	97.3	5.15	2.6	51.1

## South Dakota Mound Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.2	15.33	1,450	11.6	7.1	14.0	82.9	50.7	3.4	3.65	93.2	5.1	2.4	47.1
84.9	15.43	1,475	12.3	7.6	14.0	87.9	54.3	3.3	3.8	86.8	5.5	2.8	50.9
85.1	15.30	1,420	-----	7.2	14.3	-----	50.4	3.35	4.0	85.8	5.5	-----	-----
82.7	15.27	1,525	-----	7.6	13.8	-----	55.1	3.5	3.92	89.3	5.5	2.6	47.3
81.2	15.47	1,590	-----	-----	14.0	-----	-----	3.5	3.72	94.1	5.2	2.4	46.2
(5)	(5)	(5)	(2)	(4)	(5)	(?)	(4)	(5)	(5)	(5)	(5)	(4)	(4)
-----	76.80	7,460	23.9	29.5	70.1	-----	-----	17.05	19.09	-----	26.8	10.2	-----
83.2	15.36	1,492	11.95	7.33	14.02	85.4	52.6	3.41	3.82	89.3	5.36	2.55	47.9

## FEMALE

79.5	14.30	1,220	11.8	7.1 6.8	12.9	91.5	55	3.5	3.8	92.1	5.1 4.8	2.5 2.5	49 52.1
-----	-----	-----	-----	(2)	-----	-----	-----	-----	-----	-----	(2)	(2)	(2)
-----	-----	-----	-----	13.9 6.95	-----	-----	-----	-----	-----	-----	9.9 4.95	5 2.5	50.5

*Hidatsa Indian crania: Minnetaree (Gros Ventre of the Missouri)*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
244,099	U. S. N. M.	Big Heart River, S. Dak.	Adult	-----	19.4	13.8	13.2	71.1
243,386	do	North Dakota	do	-----	18.4	13.4	13.3	72.8
225,082	do	Big Heart River, S. Dak.	do	-----	19.3	14.1	13.4	73.1
243,761	do	do	do	Slight frontal flattening.	19.1	14.0	13.3	73.3
243,392	do	Fort Berthold, N. Dak.	do	-----	18.8	13.8	13.5	73.4
243,751	do	Big Heart River, S. Dak.	do	-----	19.2	14.3	13.6	74.5
225,144	do	Big Heart River, Nebr.	do	-----	18.4	14.3	13.3	77.7
Totals	-----	-----	-----	-----	(7) 132.6	(7) 97.70	(7) 93.60	-----
Average	-----	-----	-----	-----	18.94	13.96	13.37	73.7
Minima	-----	-----	-----	-----	18.4	13.4	13.2	71.1
Maxima	-----	-----	-----	-----	19.4	14.3	13.6	77.7

## FEMALE

243,750	U. S. N. M.	Big Heart River, S. Dak.	Adult	-----	17.6	13.2	Low.	75.0
243,742	do	do	do	-----	18.3	13.9	13.4	76.0
243,393	do	Fort Berthold, N. Dak.	do	-----	17.4	13.3	12.6	76.4
243,756	do	Big Heart River, S. Dak.	do	-----	18.0	13.8	12.8	76.7
243,741	do	do	do	-----	17.4	13.4	12.6	77.0
243,754	do	do	do	-----	17.6	13.6	Medium.	77.3
243,743	do	do	do	-----	18.1	14.0	12.9	77.4
243,753	do	do	do	-----	(17.2)	(13.7)	(13.6)	(79.6)
243,752	do	do	do	-----	17.3	13.8	-----	79.8
243,739	do	do	do	-----	17.5	14.2	13.3	81.1
243,758	do	do	do	-----	17.6	-----	-----	-----
Totals	-----	-----	-----	-----	(10) 176.8	(9) 123.2	(6) 77.6	(9) -----
Averages	-----	-----	-----	-----	17.68	13.69	12.92	77.4
Minima	-----	-----	-----	-----	17.3	13.2	12.6	75.0
Maxima	-----	-----	-----	-----	18.3	14.2	13.4	81.1

<sup>1</sup> Part broken or damaged; measurement approximate.



*Hidatsa Indian crania: Minnetaree (Gros Ventre of the Missouri)*

## MALE

<i>Mean Height Index</i>	<i>Cranial Module</i>	<i>Capacity, in c. (Hrdlička's method)</i>	<i>Menton-Nasion Height (3)</i>	<i>Alveol. Pt.-Nasion Height (b)</i>	<i>Diam. Bizygomatic maxm. (c)</i>	<i>Facial Index, total (a × 100 / c)</i>	<i>Facial Index, upper (b × 100 / c)</i>	<i>Orbits—Height, mean</i>	<i>Orbits—Breadth, mean</i>	<i>Orbital Index, mean</i>	<i>Nose, Height</i>	<i>Nose, Breadth maxm.</i>	<i>Nasal Index</i>
79.5	15.47												
83.6	15.03	1,320		6.9	13.2		52.3	3.15	3.9	80.8	5.45	3.1	56.9
80.2	15.60	1,510		8.5	13.9		61.2	4.25	4.35	97.7	6.0	3.0	50
80.4	15.47												
80.4	15.37	1,350											
81.2	15.70	1,575		7.1	13.7		51.8				5.2	2.4	46.2
81.4	15.33	1,520		7.8	13.9		56.1	3.7	3.75	98.7	5.8	2.6	44.8
(7)	(7)	(5)		(4)	(4)		(4)	(3)	(3)	(5)	(4)	(4)	(4)
	107.97	7,275		30.3	54.7			11.10	12.00		22.45	11.10	
81.3	15.42	1,455		7.56	13.68		55.4	3.70	4.00	92.5	5.61	2.78	49.4
79.5	15.03	1,320		6.9	13.2		51.8	3.15	3.75	80.8	5.2	2.4	44.8
83.6	15.70	1,575		8.5	13.9		61.2	4.25	4.35	98.7	6.0	3.1	56.9

## FEMALE

		1,180									5.4	2.6	48.2
83.2	15.20	1,460		7.3				3.9	3.9	100	5.3	2.6	49.1
82.1	14.43	1,200									5.0		
80.5	14.87	1,325						3.4	3.8	89.5	5.0	2.6	52
81.8	14.47	1,340		6.6	13.1		50.4	3.5	3.7	94.6	5.3	2.4	45.3
		1,360		6.7	13.2		50.8				5.3	2.6	49.1
80.4	15.00	1,345						3.5	3.6	97.2	5.0	2.5	50
(88.0)	14.83	1,350		6.7	13.6		49.3	3.9	4.05	96.3	5.4		
				7.0	13.3		52.6	3.7	3.8	97.4	5.4	2.6	48.2
84.0	15.00	1,430		6.9				3.5	3.9	89.7	5.0	2.5	50
				6.8									
(6)	(6)	(9)		(7)	(4)		(4)	(7)	(7)	(7)	(10)	(8)	(8)
	88.97	11,990		48.0	53.2			25.4	26.75		52.1	20.4	
81.9	14.85	1,532		6.86	13.50		50.9	3.69	3.82	95	5.21	2.55	48.9
80.4	14.43	1,180		6.6	13.1		49.3	3.4	3.6	89.5	5.0	2.4	45.3
84.0	15.20	1,460		7.3	13.6		52.6	3.9	4.05	100.0	5.4	2.6	52.0

\* Some crest along coronal suture with marked bulge at bregma.

## Osage Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 580	U. S. N. M...	Washita River, Okla.	Adult.....	-----	17.9	14.5	13.6	81

## FEMALE

243, 582	U. S. N. M...	Cherokeetown, Okla.	Adult.....	-----	16.4	12.9	12.4	78.7
243, 573	do.....	do.....	do.....	-----	16.4	14.0	13.3	85.4
243, 571	do.....	Wichita River, Okla.	do.....	-----	16.0	14.0	13.0	87.5
Total.....					(3) 48.8	(3) 40.9	(3) 38.7	(3)
Average.....					16.27	13.63	12.90	83.8

## Sioux and Sioux type Indian crania—Miscellaneous

## FEMALE

## ASSINIBOIN

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 388	U. S. N. M...	Fort Buford Indian Reservation.	Adult.....	-----	18	14.3	12.1	79.4

## SANTEE SIOUX

243, 749	U. S. N. M...	Fort Robinson, Nebr.	Adult.....	-----	17.6	13.4	12.6	76.1
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## WAHPETON SIOUX

243, 371	U. S. N. M...	Fort Sisseton, S. Dak.	Adult.....	-----	18.3	13.3	13.2	72.7
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## KANSAS

243, 261	U. S. N. M...	Fort Harker.....	Adult.....	-----	18.2	14	12.9	76.9
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## Osage Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84	15.33	1,440	-----	7.1	13.8	-----	51.4	3.35	3.8	88.2	5.2	2.5	48.1

## FEMALE

84.6	13.90	1,115	-----	6.5	-----	-----	-----	3.5	3.7	94.6	5.05	2.6	51.5
87.5	14.57	1,320	11.7	7.3	12.8	91.4	57.0	3.6	3.75	96.0	5.0	2.6	52
86.7	14.33	1,250	11.1	7.1	13.2	84.1	53.8	3.42	3.72	91.9	5.2	2.4	46.2
(3)	(3)	(3)	(2)	(3)	(2)	(2)	(2)	(3)	(3)	(3)	(3)	(3)	(3)
86.3	42.8 14.27	3,685 1,228	22.8 11.4	20.9 6.97	26.0 13.00	87.7	55.4	10.52 3.51	11.17 3.72	94.2	15.25 5.08	7.6 2.53	49.8

## Sioux and Sioux type Indian crania—Miscellaneous

## FEMALE

## ASSINIBOIN

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
74.9	14.80	1,340	-----	6.8	13.2	-----	51.5	3.4	3.75	90.7	4.9	2.8	57.1

## SANTÉE SIOUX

81.3	14.53	1,230	10.3	6.1	13.3	77.4	45.9	3.22	3.95	81.7	4.75	2.5	52.6
------	-------	-------	------	-----	------	------	------	------	------	------	------	-----	------

## WAHPETON SIOUX

88.5	14.93	1,360	12	7.4	12.6	95.2	58.7	3.68	3.7	99.3	5.3	2.4	45.3
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## KANSAS

80.1	15.03	1,305	-----	6.8	-----	-----	-----	3.32	4	83	4.95	2.6	52.5
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## Oklahoma Indian crania, approaching Siouan type

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 578	U. S. N. M.	Commission Creek.	Adult	-----	18.4	14	13.3	76.1

## FEMALE

243, 574	U. S. N. M.	Camp Supply	Adult	-----	17.4	13.5	12.6	77.6
'9	do.	do.	do.	-----	17.2	13.7	12.7	79.6

## The Siouan tribes: Summary of measurements

## MALE

	Sioux proper						
	Miscellaneous	Teton	Brulé	Oglala	Sisseton	Yankton	Montana
Number of skulls	(17)	(4)	(15)	(14)	(4)	(5)	(4)
Vault:							
Length	18.75	18.48	18.55	18.61	18.45	17.92	18.48
Breadth	14.75	14.35	14.43	14.51	14.02	13.94	14.73
Height	13.08	12.75	13.06	12.99	13.02	12.98	12.83
Cranial Index	76.5	77.7	77.8	78	76	77.8	79.7
Mean Height Index	78.9	77.7	79.2	78.5	80.2	81.5	77.3
Module	15.41	15.19	15.31	15.37	15.17	14.94	15.34
Capacity	1,490	1,481	1,527	1,511	1,394	1,392	1,449
Face:							
M.-N. Height	12.73	-----	12.6	12.08	12.03	12.12	12.8
Alv. Pt.-N. Height	7.70	7.2	7.68	7.58	7.25	7.62	7.8
Breadth	14.35	14.52	14.23	14.41	13.75	14.18	14.5
Facial Index, total	89.4	-----	88.5	84.2	86.6	85.5	88
Facial Index, upper	54.1	49.6	54	52.7	52.7	53.7	54
Orbits:							
Mean Height	3.68	3.68	3.61	3.63	3.49	3.59	3.56
Mean Breadth	3.98	4.07	3.99	4.06	3.85	3.95	4.02
Mean Index	92.4	90.3	90.7	89.5	90.6	90.9	88.5
Nose:							
Height	5.52	5.4	5.49	5.54	5.4	5.45	5.68
Breadth	2.67	2.75	2.64	2.78	2.61	2.69	2.55
Index	48.5	50.9	48.1	50.3	48.4	49.4	44.9

## Oklahoma Indian crania, approaching Siouan type

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.1	15.23	1,350	-----	-----	-----	-----	-----	-----	-----	-----	5.3	2.8	52.8

## FEMALE

81.6	14.50	1,270	-----	6.1	13	-----	46.9	3.5	3.9	89.7	4.5	2.7	60
82.2	14.53	1,270	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## The Siouan tribes: Summary of measurements

## MALE

Nearly related tribes				Related tribes			Related only by language
Mandan	Crow	Arikara	Ponka	North Dakota Mounds	South Dakota Mounds	Hidatsa	Osage
(2)	(2)	(53)	(11)	(14)	(5)	(7)	(1)
18.2	17.75	18.28	18.21	18.59	18.72	18.94	17.9
13.9	13.75	14.25	14.44	13.92	13.82	13.96	14.5
13.3	12.75	13.46	13.25	13.17	13.54	13.37	13.6
76.4	77.5	77.9	79.3	75.2	73.8	73.7	81
82.9	81	82.7	81.2	81	82.2	81.3	84
15.14	14.75	15.33	15.29	15.21	15.36	15.42	15.33
1,485	1,290	1,485	1,490	1,490	1,492	1,455	1,440
-----	11.6	12.21	12.06	12	11.95	-----	-----
7.6	7.3	7.60	7.54	7.3	7.38	7.56	7.1
-----	13.25	14.15	14.15	14.03	14.02	13.68	13.8
-----	87.5	86.1	85.2	-----	85.4	-----	-----
-----	55.1	53.7	53.3	51.4	52.6	55.4	51.4
3.67	3.49	3.64	3.48	3.54	3.41	3.70	3.35
3.78	3.9	3.90	3.91	3.92	3.82	4	3.8
97.1	89.5	90.9	89	90.2	89.3	92.5	88.2
5.55	5.27	5.56	5.38	5.50	5.36	5.61	5.2
2.55	2.82	2.62	2.66	2.57	2.55	2.78	2.5
45.9	53.6	47.1	49.8	46.8	47.9	49.4	48.1

*The Siouan tribes: Summary of measurements—Continued*

## FEMALE

	Sioux proper						
	Miscellaneous	Teton	Brulé	Oglala	Sisseton	Yankton	Montana
Number of skulls.....	(14)	(3)	(10)	(7)	(3)	(3)	(3)
Vault:							
Length.....	17.88	17.9	17.72	17.84	17.23	17.53	17.6
Breadth.....	13.71	13.93	13.81	13.91	13.63	13.97	14.13
Height.....	12.59	12.7	12.38	12.56	12.37	13.03	12.93
Cranial Index.....	76.7	77.8	77.9	78	79.2	79.6	80.3
Mean Height Index.....	79.7	79.8	77.9	79.1	80.1	82.7	81.5
Module.....	14.73	14.84	14.64	14.77	14.41	14.84	14.89
Capacity.....	1,334	1,427	1,352	1,336	1,258	1,417	1,308
Face:							
M.-N. Height.....	11.4	11.5	11.64	11.33		11.27	
Alv. Pt.-N. Height.....	7.03	7.13	7.24	6.96	7.1	7.03	6.95
Breadth.....	13.32	13	13.38	13.43	12.83	13.23	
Facial Index, total.....	86.6	88	87	85		85.1	
Facial Index, upper.....	53.1	54.9	54.1	52.1	55.3	53.2	
Orbits:							
Mean Height.....	3.59	3.63	3.62	3.51	3.45	3.47	3.48
Mean Breadth.....	3.88	3.88	3.87	3.92	3.63	3.86	3.85
Mean Index.....	92.4	93.6	93.5	89.7	95	89.7	90.4
Nose:							
Height.....	5.24	5.07	5.22	5.12	5.27	5.13	5.07
Breadth.....	2.53	2.5	2.5	2.58	2.6	2.73	
Index.....	48.5	49.4	48	50.4	49	53.2	

## NOTES ON THE SIOUX

The skulls of the very interesting and important group of the Siouan tribes show the following basic conditions:

1. The Siouan family embraces somatologically (*a*) what may be termed the Sioux proper; (*b*) physically closely related tribes; (*c*) physically less closely related groups; and (*d*) tribes related only in language. As far as our data go, the tribes belonging to these several subdivisions are given in the preceding summary.

2. The Sioux type, one of the best differentiated of Indian types on the continent, is characterized by:

- A skull of moderate to good size;
- Mesocephaly;
- A remarkable lowness of the vault;*
- Large face (and jaws);
- Medium-high orbits; and
- Mesorhynchic nasal aperture.

3. The lowness of the vault is a highly distinctive feature, which in larger bodies of the North American natives north of Mexico is met with only among the Athapascan and related northwest coast tribes, and more distantly among the Mongols of Asia.

4. The Osage are plainly not Sioux, regardless of language and possibly some admixture. This conclusion is seconded by observations on the living.

*The Siouan tribes: Summary of measurements—Continued*

## FEMALE

Nearly related tribes		Related tribes			Related only by language
Arikara	Ponka	North Dakota Mounds	South Dakota Mounds	Hidatsa	Osage
(45)	(8)	(4)	(2)	(10)	(3)
17.38	17.50	17.55	17.60	17.68	16.27
13.64	13.94	13.85	-----	13.69	13.6
12.84	12.66	12.72	12.3	12.92	12.9
78.4	79.6	78.9	-----	77.4	83.8
82.7	80.6	81.1	-----	81.9	86.3
14.60	14.70	14.71	-----	14.83	14.27
1,340	1,319	1,333	-----	1,332	1,228
11.46	11.22	-----	-----	-----	11.4
7.16	6.9	6.86	6.95	6.86	6.97
13.05	13.19	12.98	-----	13.30	13
87.6	86.8	-----	-----	-----	87.7
55	52.8	52.2	-----	50.9	55.4
3.56	3.47	3.44	-----	3.63	3.51
3.84	3.8	3.74	-----	3.82	3.72
92.9	9.14	92	-----	95	94.2
5.18	5.12	4.97	4.95	5.21	5.08
2.53	2.49	2.4	2.5	2.55	2.53
48.8	48.5	48.3	50.5	48.9	49.8

## CADDOAN TRIBES

*Pawnee Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
225,092	U. S. N. M.	Near Solomon River, Kans.	Adult		18	14.4	12.9	80
243,536	do	Fort Harker, Kans.	do		18.4	15	12.7	81.5
243,537	do	do	do		17.6	14.6	12.5	82.9
Totals					(3) 54	(3) 44	(3) 38.1	(3) 81.5
Averages					18	14.67	16.03	81.5

## FEMALE

225,093	U. S. N. M.	Dakota Territory	Adult		17	13.9	12	81.8
243,795	do	do	do					
Totals								
Averages								

*Caddo Indian crania*

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,894	U. S. N. M.	Near mouth of Little Arkansas River.	Adult		16.6	14.1	13	84.9
243,895	do	do	do	Slight occipital flattening.	(15.7)	(14.4)	(11.9)	
Totals								
Averages								



## CADDOAN TRIBES

## Pawnee Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
79.6	15.10	1,510	11.8	7.2	13.8	85.5	52.2	3.6	3.9	92.3	5.3	2.55	48.1
76	15.37	-----	12.3	7.3	14.8	83.1	49.3	3.85	4.05	95.1	5.4	2.65	49.1
77.6	14.90	1,405	12	7.4	14	85.7	52.9	3.85	4	96.2	5.4	2.9	53.7
(3)	(3)	(2)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
77.8	15.12	1,458	12.09	7.3	14.2	84.7	51.4	3.77	3.98	94.6	5.37	2.7	50.3

## FEMALE

77.7	14.30	1,210	-----	7.1	13.3	-----	53.4	3.45	3.85	89.6	5	2.55	51
-----	-----	-----	-----	-----	-----	-----	-----	3.37	3.55	94.9	4.95	2.8	56.5
-----	-----	-----	-----	-----	-----	-----	-----	(2)	(2)	(2)	(2)	(2)	(2)
-----	-----	-----	-----	-----	-----	-----	-----	6.82	7.4	-----	9.95	5.35	-----
-----	-----	-----	-----	-----	-----	-----	-----	3.41	3.7	92.2	4.98	2.68	53.8

## Caddo Indian crania

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.7	14.57	1,300	-----	7	13.1	-----	53.4	3.25	3.65	89	4.95	2.6	52.5
-----	14.00	1,240	-----	6.5	13	-----	50	3.50	3.65	95.9	4.95	2.5	50.5
-----	(2)	(2)	-----	(2)	(2)	-----	(2)	(2)	(2)	(2)	(2)	(2)	(2)
-----	28.57	2,540	-----	13.5	26.1	-----	-----	6.75	7.3	-----	9.9	5.1	-----
-----	14.28	1,270	-----	6.75	13.05	-----	51.7	3.87	3.65	92.5	4.95	2.55	51.5

*Wichita Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 563	U. S. N. M.	Mouth of Little Arkansas River, Kans.	Adult	Very slight occipital flattening.	17.7	14.6	13.4	82.5
243, 581	do	Little Arkansas River, Kans.	do	Slight posterior compression.	(17.2)	(14.2)	(13.6)	(82.6)
243, 557	do	do	Near senile.	Slight asymmetry.	(17.8)	(15.2)	(13.3)	(85.4)
Totals								
Averages								

## FEMALE

243, 560	U. S. N. M.	Little Arkansas River, Kans.	Adult	Very slight occipital flattening.	16.6	14.4	12.8	86.8
243, 558	do	do	do	Moderate occipital flattening.	(16.6)	(14.0)	(12.6)	(84.8)
243, 561	do	do	do	Slight occipital flattening.	(16.4)	(14.2)	(13.3)	(86.6)
243, 559	do	do	do	Moderate occipital flattening.	(15.8)	(14.1)	(13.0)	(89.2)
243, 572	do	do	do	Slight occipital flattening.	(15.7)	(14.5)	(12.2)	(92.4)
Totals								
Averages								

## Wichita Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits-Height, mean	Orbits-Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
85	15.23	1,350	-----	8	14	-----	57.1	3.72	4	98	5.6	2.3	41.1
(86.6)	15.00	1,330	-----	7.4	13.8	-----	53.6	3.37	3.95	85.3	5.15	2.7	52.4
(80.6)	15.43	1,380	-----	-----	14.2	-----	-----	3.80	4.25	89.4	5.6	2.0	51.8
-----	(3) 45.66	(3) 4,060	-----	(2) 15.4	(3) 42	-----	(2) 55.4	(3) 10.89	(3) 12.20	(5) -----	(3) 16.35	(3) 7.90	(5) -----
-----	15.22	1,353	-----	7.7	14	-----	-----	3.63	4.07	89.3	5.45	2.63	48.3

## FEMALE

82.6	14.60	1,260	10.7	6.6	13.2	81.1	50	3.50	3.85	90.9	4.80	2.30	47.9
(82.4)	14.40	1,260	11.1	6.8	13	85.4	52.3	3.80	3.70	102.7	4.80	2.55	53.1
(86.9)	14.63	1,250	-----	7.3	13	-----	56.2	3.37	3.90	86.4	5.35	2.40	44.9
(87)	14.30	1,250	10.4	6.3	12.5	83.2	50.4	3.40	3.60	94.4	4.70	2.40	51.1
(80.8)	14.13	1,275	11.5	7.1	12.8	89.8	55.5	3.65	3.70	98.6	5.10	2.30	45.1
-----	(5) 72.06	(5) 6,325	(4) 43.70	(5) 34.10	(5) 64.50	(4) -----	(5) -----	(5) 17.72	(5) 18.75	(5) -----	(5) 24.75	(5) 11.95	(5) -----
-----	14.41	1,265	10.52	6.82	12.90	84.6	52.9	3.54	3.75	94.4	4.95	2.39	48.3

*Caddoan crania: Summary of measurements*

	Male		Female	
	Pawnee	Wichita	Caddo	Wichita
Number of skulls.....	(3)	(3)	(2)	(5)
Vault:				
Length.....	18	17.7	16.6	16.6
Breadth.....	14.67	14.6	14.1	14.4
Height.....	16.03	13.4	13	12.8
<i>Cranial Index</i> .....	81.5	82.5	84.9	86.3
<i>Mean Height Index</i> .....	77.8	83	84.7	82.6
Module.....	15.12	15.22	14.28	14.41
Capacity.....	1,458	1,353	1,270	1,265
Face:				
M.-N. Height.....	12.03			10.92
Alv. Pt.-N. Height.....	7.3	7.7	6.75	6.82
Breadth.....	14.2	14	13.05	12.9
<i>Facial Index, total</i> .....	84.7			84.6
<i>Facial Index, upper</i> .....	51.4	55.4	51.7	52.9
Orbits:				
Mean Height.....	3.77	3.63	3.37	3.54
Mean Breadth.....	3.98	4.07	3.65	3.75
Mean Index.....	94.6	89.3	92.6	94.4
Nose:				
Height.....	5.37	5.45	4.95	4.95
Breadth.....	2.7	2.63	2.55	2.39
Index.....	60.3	48.3	51.6	48.3

<sup>1</sup> One skull.

## NOTES ON THE CADDOAN TRIBES

1. Collections from these tribes are very inadequate.
2. The three tribes represented by undeformed specimens show such differences that they can not be attributed to one physical type.
3. The Pawnee, while subbrachycephalic, show a decidedly low vault which approaches them closely to the Sioux.
4. The Caddo and Wichita are brachycephals with medium high vault.
5. The face, orbits, and nose show, as far as this series goes, nothing especially characteristic.



## SALISH AND SAHAPTIN

*Vancouver Island Indian crania*<sup>1</sup>

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
228,454	U. S. N. M. ....	Northwest coast of the island.	Adult.....	-----	17.5	13.6	13.2	77.7

<sup>1</sup> Crania from this island are generally artificially deformed and unfit for measurement.

*Nez Percé Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,672	U. S. N. M. ....	Fort Ellis.....	Adult.....	-----	18.8	14.7	14.4	78.2
243,671	do.....	do.....	do.....	-----	18.1	14.5	13.8	80.1
243,838	do.....	Fort Lapwai.....	do.....	Moderate occipital compression.	(17)	(15)	(12.8)	-----
Totals.....					(2)	(2)	(2)	(2)
Averages.....					18.45	14.60	14.10	79.1

*State of Washington Indian crania*<sup>1</sup>

## MALE

## "SPOKANE" INDIAN

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,447	U. S. N. M. ....	Washington.....	Adult.....	-----	18.6	15	13	80.6

## FEMALE

## "CHEHALIS" INDIAN

243,397	U. S. N. M. ....	Grays Harbor, Wash.	Adult.....	-----	17.1	14.4	12.8	84.2
---------	------------------	---------------------	------------	-------	------	------	------	------

<sup>1</sup> A large majority of the crania from this State are artificially deformed and unfit for measurement.

## SALISH AND SAHAPTIN

## Vancouver Island Indian crania

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper, $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.9	14.77	1,346	-----	7	13.2	-----	53	3.7	4.05	91.4	5	2.7	54

## Nez Percé Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper, $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose Breadth, maxim.	Nasal Index
86	15.97	1,635	13	-----	14.6	89	-----	4.15	4.2	98.8	5.85	2.5	42.7
84.7	15.47	1,520	11.9	7.4	14.6	81.5	50.7	3.65	4	91.2	5.3	2.4	45.3
-----	14.93	1,520	-----	8.2	14.7	-----	55.8	3.85	4.15	92.8	6	2.5	41.7
(2)	(3)	(3)	(2)	(2)	(2)	(2)	(2)	(3)	(3)	(3)	(3)	(3)	(3)
85.3	15.46	1,558	12.45	7.8	14.63	85.3	53.2	3.88	4.12	94.3	5.72	2.47	43.1

## State of Washington Indian crania

## MALE

## "SPOKANE" INDIAN

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper, $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
77.4	15.53	1,570	13	7.8	14.7	88.4	53.1	3.9	3.9	100	5.4	2.6	48.1

## FEMALE

## "CHEHALIS" INDIAN

81.3	14.77	1,310	-----	-----	13.4	-----	-----	3.55	3.6	98.6	4.3	2.4	55.8
------	-------	-------	-------	-------	------	-------	-------	------	-----	------	-----	-----	------

Oregon Indian crania <sup>1</sup>

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 601	U. S. N. M.	Chetco, Oreg.	Adult		18.6	14.6	13.3	78.5
243, 922	do	Pistol River	do		18.6	14.6	13.9	78.5
243, 602	do	do	do		18.6	14.7	13.4	79.0
243, 605	do	do	do		17.9	14.8	13.6	82.7
Totals					(4)	(4)	(4)	(4)
Averages					18.4 <sup>2</sup>	14.68	13.55	79.6

## FEMALE

243, 603	U. S. N. M.	Big Lagoon	Adult		17.4	13.4	12.3	77.0
243, 600	do	Rogue River	do		16.6	12.8	12.6	77.1
243, 604	do	Dallas, Polk County,	do		17.6	13.8	13.0	78.4
243, 596	do	Steins Mountain	do		17.5	14.4	12.2	82.3
243, 599	do	Chetco	do		17.1	14.2	12.8	83.0
Totals					(5)	(5)	(5)	(5)
Averages					17.24	13.72	12.58	79.6

<sup>1</sup> A number of other specimens from Oregon are more or less artificially deformed and unfit for measurement.



## Oregon Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.1	15.50	1,530	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
83.7	15.70	-----	-----	7.7	-----	-----	-----	3.75	3.9	96.2	5.65	2.25	89.8
80.5	15.57	-----	-----	7.7	-----	-----	-----	3.65	4	91.2	5.4	2.3	42.6
83.2	15.43	1,555	-----	7.1	-----	-----	-----	-----	-----	-----	5.15	2.2	42.7
(4)	(4)	(2)	-----	(3)	-----	-----	-----	(2)	(2)	(2)	(3)	(3)	(3)
-----	62.2	3,085	-----	22.5	-----	-----	-----	7.4	7.9	-----	16.2	67.5	-----
81.9	15.56	1,542	-----	7.6	-----	-----	-----	3.7	3.95	93.7	5.4	2.25	41.7

## FEMALE

79.9	14.37	1,170	10.8	6.9	12.7	85.0	54.3	3.32	3.40	97.7	4.7	2.4	51.1
85.7	14.00	1,150	10.8	6.5	13.1	82.4	49.6	3.40	3.90	87.2	4.6	2.3	50
82.8	14.80	1,180	-----	-----	13.1	-----	-----	3.35	3.80	88.2	5.0	2.4	48
76.5	14.70	1,260	-----	7.0	13.5	-----	51.8	3.68	3.95	93.2	4.9	2.6	53.1
81.8	14.70	1,290	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(5)	(5)	(5)	(2)	(3)	(4)	(2)	(3)	(4)	(4)	(4)	(4)	(4)	(4)
-----	72.57	6,050	21.6	20.4	52.4	-----	-----	13.75	15.05	-----	19.2	9.7	-----
81.3	14.51	1,210	10.8	6.8	13.1	83.7	51.9	3.44	3.76	91.4	4.8	2.42	50.5

<sup>1</sup> Right side damaged, measurement approximate.

*Sahaptin and Salish: Summary of measurements*

	Male			Female		
	Nez Percé	"Spo- kane" (Wash- ington State)	Oregon	Van- couver Island	"Che- halis" (Wash- ton State)	Oregon
Number of skulls.....	(3)	(1)	(4)	(1)	(1)	(5)
Vault:						
Length.....	18.45	18.6	18.42	17.5	17.1	17.24
Breadth.....	14.60	15	14.68	13.6	14.4	13.72
Height.....	14.10	13	13.55	13.2	12.8	12.58
<i>Cranial Index</i> .....	79.1	80.6	79.6	77.7	84.2	79.6
<i>Mean Height Index</i> .....	85.3	77.4	81.9	84.9	81.3	81.3
Module.....	15.46	15.53	15.55	14.77	14.77	14.51
Capacity.....	1,558	1,570	1,542	1,340	1,310	1,210
Face:						
N.-N. Height.....	12.45	13				10.8
Alv. Pt.-N. Height.....	7.8	7.8	7.50	7		6.8
Breadth.....	14.63	14.7		13.2	13.4	13.1
<i>Facial Index, total</i> .....	85.3	88.4				83.7
<i>Facial Index, upper</i> .....	63.2	63.1		53		61.9
Orbits:						
Mean Height.....	3.88	3.9	3.7	3.7	3.55	3.44
Mean Breadth.....	4.12	3.9	3.95	4.05	3.6	3.76
Mean Index.....	94.3	100	93.7	91.4	98.6	91.4
Nose:						
Height.....	5.72	5.4	5.4	5	4.3	4.8
Breadth.....	2.47	2.6	2.25	2.7	2.4	2.42
Index.....	43.1	48.1	41.7	54	55.8	50.5

## NOTES ON THE SAHAPTIN AND SALISH TRIBES

1. As far as represented, which is inadequately, these two families show in part a similarity of type. This type is characterized by:

- High meso- to brachy-cephaly;
- Good skull capacity;
- Large and especially broad face;
- Medium to high orbits;
- Relatively narrow to medium nose.

2. The height of the vault is low in the one Spokane, who rather approaches the Shoshoni; medium to rather high in the other tribes.

3. The "Chehalis" belong apparently to a different type.

More material on these groups is a necessity.



## SHOSHONEANS

*Bannock Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,837	U. S. N. M.	South Idaho	Adult		18.2	13.4	13	73.6

*Blackfeet (Siksika) Indian crania*

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,669	U. S. N. M.	Montana	Adult		17.9	13.8	12.8	77.1
243,666	do.	do.	do.		17.7	13.5		78
Totals					(2)	(2)		(2)
Averages					35.6	27.6		77.5
					17.8	13.8		77.6

*Piegan Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,673	U. S. N. M.	Fort Shaw, Mont.	Adult		19.3	14.1	13.0	73.1
243,675	do.	do.	do.		18.3	13.6	13.4	74.3
243,676	do.	do.	do.		18.4	13.7	13.2	74.5
243,680	do.	do.	do.		18.8	14.0	13.8	74.5
243,684	do.	do.	do.		18.4	13.8	12.4	75
243,682	do.	do.	do.		18.6	14.0	14.1	75.3
243,646	do.	Blackfeet Agency, Mont.	do.		18.4	14.0	13.4	76.1
243,645	do.	do.	do.		18.7	14.4	12.5	77.0
243,652	do.	do.	do.		17.6	13.6	12.9	77.3
243,683	do.	Fort Shaw, Mont.	do.		18.0	14.1	13.4	78.3
243,644	do.	Blackfeet Agency, Mont.	do.		18.4	14.5	13.8	78.8
Totals					(11)	(11)	(11)	(11)
Averages					202.9	153.8	145.9	75.8
					18.44	13.98	13.26	75.8
Minima					17.6	13.6	12.4	73.1
Maxima					19.3	14.5	14.1	78.8

## SHOSHONEANS

## Bannock Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.3	14.87	1,320	11.3	6.7	14.1	80.1	47.5	3.45	4	86.2	4.9	2.6	53.1

## Blackfeet (Siksika) Indian crania

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.8	14.83	1,280	-----	7.4	13.1	-----	56.5	3.5	3.95	88.6	5.3	2.9	54.7
-----	-----	1,300	-----	7.3	13.4	-----	54.5	3.6	3.95	91.2	5.3	2.7	50.9
-----	-----	(2) 2,580	-----	(2) 14.7	(2) 26.5	-----	(2)	(2) 7.1	(2) 7.9	(2)	(2) 10.6	(2) 5.6	(2)
-----	-----	1,390	-----	7.35	13.26	-----	55.5	3.55	3.95	89.9	5.3	2.8	52.8

## Piegun Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
77.8	15.47	1,490	13.0	8.0	14.2	91.6	56.3	3.6	3.85	93.5	5.7	2.7	47.4
84.0	15.10	1,450	-----	7.7	14.3	-----	53.8	4.0	4.1	97.6	5.2	2.6	50
82.2	15.10	-----	-----	7.2	13.9	-----	51.8	3.5	3.95	88.6	5.0	2.6	52
84.2	15.53	1,530	-----	7.2	-----	-----	-----	3.55	3.75	94.7	5.2	2.4	46.2
77.0	14.87	1,315	-----	-----	-----	-----	-----	3.55	3.65	97.3	-----	-----	-----
86.5	15.57	1,570	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
82.7	15.27	1,430	-----	8.1	14.1	-----	57.4	3.7	4.0	92.6	5.6	2.6	46.4
75.5	15.20	1,450	-----	-----	14.2	-----	-----	3.6	3.8	94.7	5.5	2.6	47.3
82.7	14.70	1,260	-----	7.5	13.9	-----	54	3.3	4.05	81.6	5.4	2.6	48.2
83.5	15.17	1,465	-----	7.4	13.7	-----	54.0	3.5	3.8	92.1	5.5	2.6	47.3
83.9	15.57	1,580	-----	7.4	14.4	-----	51.4	3.5	4.05	86.4	5.7	2.7	47.4
(11)	(11)	(10)	-----	(8)	(8)	-----	(7)	(10)	(10)	(10)	(9)	(9)	(9)
-----	167.55	14,540	-----	60.5	112.7	-----	-----	35.8	39.0	-----	48.8	23.4	-----
81.8	15.25	1,454	-----	7.56	14.09	-----	53.7	3.58	3.90	91.8	5.42	2.60	48
75.5	14.70	1,260	-----	7.2	13.7	-----	51.4	3.3	3.65	81.6	5	2.4	46.2
86.5	15.57	1,580	-----	8.1	14.4	-----	57.4	4	4.1	97.6	5.7	2.7	52

## Piegan Indian crania—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 650	U. S. N. M.	Blackfeet Agency, Piegan, Mont.	Adult		17.9	13.2	13.1	75.7
243, 651	do	do	do		18.0	13.8	13.1	76.7
243, 653	do	do	do		18.2	14.0	13.2	76.9
243, 679	do	Fort Shaw, Mont.	do		17.4	13.8	12.4	79.3
243, 686	do	do	do		17.4	13.8	12.6	79.3
243, 685	do	do	do		17.2	13.7	12.3	79.6
243, 677	do	do	do		17.6	14.0	12.6	79.6
243, 648	do	Blackfeet Agency, Mont.	do		17.6	14.0	12.1	79.6
243, 654	do	do	do		17.5	14.0	12.2	80
243, 649	do	do	do		17.4	14.0	13.2	80.5
243, 674	do	Fort Shaw, Mont.	do		17.4	14.1	12.8	81.0
Totals					(11) 193.6	(11) 152.4	(11) 139.6	(11) 78.7
Averages					17.60	13.85	12.69	78.7
Minima					17.2	13.2	12.1	75.7
Maxima					18.2	14.1	13.2	81

## Miscellaneous Shoshonean Indian crania: Unidentified as to tribe

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 303	U. S. N. M.	Nevada	Adult		17.7	13	13.4	73.4
315, 645	do	Upper Kanab Creek, Utah.	Near senile.		18.4	13.6	13.2	73.9
243, 300	do	Nevada	Adult	Very slight occipital compression.	17.5	13.4	12.4	76.6
324, 346	do	Barber, Idaho	do		18.2	14	13.1	76.9
243, 304	do	Nevada	do	Very slight asymmetry.	17.9	13.8		77.1
243, 305	do	do	do		18.1	14		77.4
243, 839	do	Fort Boise, Idaho	do		17.6	13.8	12.8	78.4
243, 302	do	Nevada	do	Some posterior flattening.	(18.4)	(14.6)		(79.4)
243, 817	do	Walker Lake, Nev.	do		18.2		13	
288, 805	do	Beaver, Utah	do	Slight occipital flattening.	(17.2)	(14.2)	(12.8)	(82.6)
288, 804	do	do	do	Moderate occipital flattening.	(17)	(14.8)	(13.5)	(87.1)
252, 915	do	Alkali Ridge, southeast Utah.	do	do	(17)	(14.8)	(13.6)	(87.1)
292, 012	do	Paragonah, Iron County, Utah.	do	Marked occipital flattening.				
243, 943	do	Golden City, Colo.	do					
Totals					(8) 143.6	(7) 95.6	(6) 77.9	(7) 76.2
Averages					17.95	13.66	12.98	76.2
Minima					17.5	13	12.4	75.4
Maxima					18.4	14	13.4	78.4

## Piegan Indian crania—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.2	14.73	1,270	-----	7.2	12.9	-----	55.8	3.65	4.05	90.1	5.1	2.5	49.0
82.4	14.97	1,360	-----	6.7	12.5	-----	58.6	3.3	3.5	94.8	4.8	2.2	45.8
82	15.13	1,380	-----	-----	13.7	-----	-----	3.9	4.1	95.1	5.4	2.6	48.2
79.5	14.53	1,260	-----	6.5	12.9	-----	50.4	3.4	3.7	91.9	4.9	2.7	55.1
80.8	14.60	1,410	-----	7.3	13.3	-----	54.9	3.5	3.9	89.7	5.4	2.5	46.3
79.6	14.40	1,280	-----	7.3	13.3	-----	54.9	3.85	3.85	100	5.3	2.5	47.2
79.8	14.73	1,315	12.2	7.6	13.3	-----	91.7	3.7	3.8	97.4	5.4	2.5	46.3
76.6	14.57	1,170	-----	-----	13.8	-----	-----	3.5	4.05	86.4	-----	-----	-----
78.7	14.57	1,190	-----	7.1	13.4	-----	53	3.9	4.05	96.3	5.3	2.6	49.1
84.1	14.73	1,370	-----	7.3	13.1	-----	55.7	3.8	3.8	100	5.65	2.6	46.0
81.3	14.77	1,370	10.4	6.8	13.2	-----	78.8	3.5	3.8	92.1	5.1	2.6	51
(11)	(11)	(11)	(2)	(9)	(11)	(2)	(9)	(11)	(11)	(11)	(10)	(10)	(10)
161.73	14.375	22.6	63.8	145.4	13.29	85.3	54.1	3.64	3.87	93.9	5.23	2.63	48.3
80.7	14.70	1,307	11.3	7.09	13.25	-----	50.4	3.3	3.5	86.4	4.8	2.2	45.8
76.6	14.40	1,170	-----	6.5	13.8	-----	-----	-----	-----	-----	-----	-----	-----
84.2	15.13	1,410	-----	7.6	-----	-----	57.1	3.9	4.1	100	5.65	2.7	55.1

## Miscellaneous Shoshonean Indian crania: Unidentified as to tribe

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
87.3	14.70	-----	-----	6.9	13.4	-----	51.5	3.5	3.7	94.6	4.9	2.3	46.9
82.5	15.07	-----	-----	7.1	13.2	-----	53.8	3.4	3.9	87.2	5	2.8	56
80.3	14.43	1,240	11.2	6.5	14	80	46.4	3.35	3.9	85.9	4.8	2.7	56.2
81.4	15.10	1,340	-----	6.9	14	-----	49.3	3.45	3.85	89.6	5.3	2.4	45.3
-----	-----	-----	-----	-----	14	-----	-----	-----	-----	-----	-----	-----	-----
81.5	14.73	1,275	-----	7.5	14	-----	53.6	3.5	3.95	88.6	5.35	2.3	45
-----	-----	-----	11.8	7.3	14.6	80.8	50	3.7	4	92.5	5	2.6	52
(81.5)	14.73	1,285	-----	7.6	14	-----	54.3	-----	-----	-----	5.5	2.9	52.7
-----	-----	1,280	11.3	6.8	13.9	81.3	48.9	3.3	3.8	86.8	5	2.6	52
(84.9)	15.10	-----	-----	7	13.2	-----	53	3.4	3.85	88.3	4.9	2.5	51
(85.5)	15.13	1,435	12.1	7.5	13.8	87.7	54.3	3.5	4.3	81.4	5.1	2.5	49
-----	-----	-----	-----	7.5	-----	-----	-----	3.25	3.9	83.3	5.1	2.6	51
-----	-----	-----	-----	7	13.6	-----	51.2	3.3	3.8	86.8	4.8	2.6	54.2
(5)	(8)	(6)	(4)	(12)	(12)	(4)	(11)	(11)	(11)	(11)	(12)	(12)	(12)
118.99	14.87	7,855	46.4	85.6	165.7	82.4	51.5	3.42	3.9	87.7	5.06	2.65	50.7
80.3	14.43	1,309	11.6	7.12	13.81	80	46.4	3.25	3.7	81.4	4.8	2.3	43
87.3	15.13	1,435	12.1	7.6	14.6	87.7	54.3	3.7	4.3	94.6	5.5	2.9	56.2

## Miscellaneous Shoshonean Indian crania: Unidentified as to tribe—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
315, 646	U. S. N. M.	Upper Kanab Creek, Utah.	Adult		18	13	11.9	72.2
243, 921	do	Henry's Lake, Idaho.	do		18.4	13.5	12.6	73.4
315, 644	do	Upper Kanab Creek, Utah.	do		17.4	13.1	13	75.3
243, 301	do	Nevada	do		16.4	13.1	12.6	79.9
243, 292	do	Provo, Utah	do	Slight occipital flattening.	(16)	(13.7)	(12.1)	(85.6)
292, 010	do	Iron County, Utah	do	do	(16.7)	(14.3)	(13.1)	(85.6)
291, 863	do	do	do	Moderate occipital flattening.	(16.1)	(14.2)	(13.1)	(88.2)
243, 776	do	Camp Douglas, Utah.	do		17.3		11.6	
292, 011	do	Iron County, Utah.	do	Occipital flattening.				
Totals					(5) 87.50	(4) 52.70	(5) 61.70	(4)
Averages					17.50	13.17	12.34	75.1
Minima					16.4	13	11.6	72.2
Maxima					18.4	13.5	13	79.9

## Shoshonean Indian crania: Utes, Gosh-Utes

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 772	U. S. N. M.	Fillmore, Utah	Adult		18.4	13.4	12.6	72.8
243, 929	do	Willow Creek, Utah.	do		18.6	13.6	13	73.1
226, 084	do	Gunnison, Utah	do		19.2	14.1	13	73.4
243, 591	do	North of Colorado Springs.	do		19.5	14.4		73.8
243, 774	do	Willow Springs, Utah.	do		18.6	13.8	12.8	74.2
225, 085	do	Provo, Utah.	do		18	13.4	13	74.4
225, 087	do	do	do		18.8	14	13	74.5
243, 930	do	Government Springs, Utah.	do		18.2	14.3	13.7	78.6
226, 085	do	White River, Utah	do	Sutures somewhat abnormal	(17.8)	(14.6)	(11.9)	(82)
Totals					(3) 149.30	(8) 111	(7) 91.10	(8)
Averages					18.66	13.87	13.01	74.3
Minima					18	13.4	12.6	72.8
Maxima					19.5	14.4	13.7	78.6



## Miscellaneous Shoshonean Indian crania: Unidentified as to tribe—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
76.8	14.30	1,215	-----	6.6	12.7	-----	52	3.3	3.9	84.6	4.7	2.35	50
79	14.83	1,330	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
82.6	14.50	1,290	-----	6.9	12.9	-----	53.5	3.35	3.7	90.5	4.8	2.4	50
85.5 (81.5)	14.03 13.93	1,225 1,210	9.6	6 6.7	12.4 12.5	77.4	48.4 53.6	3 3.45	3.55 3.65	84.5 94.5	4.7 4.9	2.3 2.2	48.9 44.9
(84.5) (86.5)	14.70 14.47	1,190	-----	-----	13.2	-----	-----	3.7 3.4	3.8 3.9	97.4 87.2	4.8 4.5	2.4 2.5	50 55.6
-----	-----	-----	-----	6.9	-----	-----	-----	3.55	3.85	92.2	5	2.2	44
-----	-----	-----	10.6	6.3	13.3	79.7	47.4	3.1	3.5	88.6	4.4	2.4	54.6
(4)	(7)	(6)	(2)	(7)	(6)	(2)	(5)	(8)	(8)	(8)	(8)	(8)	(8)
-----	100.76	7,460	20.2	45.90	77	-----	-----	26.85	29.85	-----	37.80	18.75	-----
79.6	14.39	1,243	10.1	6.66	12.85	78.6	50.9	3.36	3.73	89.9	4.72	2.34	49.6
76.8	13.93	1,190	-----	6	12.4	-----	47.4	3	3.5	84.5	4.4	2.2	44
85.5	14.83	1,330	-----	6.9	13.3	-----	53.6	3.7	3.9	97.4	5	2.5	55.6

## Shoshonean Indian crania: Utes, Gosh-Utes

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
79.2	14.80	1,380	-----	6.9	13.5	-----	51.1	3.5	3.9	89.7	5	2.4	48
80.8	15.07	1,450	-----	7.5	13.4	-----	66	3.45	3.9	88.5	5.3	2.4	45.3
78.1	15.43	1,365	-----	7.3	13.6	-----	53.7	3.4	3.8	80.5	5.4	2.8	51.8
79	15.07	1,465	-----	7.8	13.7	-----	66.9	3.65	4.1	89	5.3	2.4	45.3
82.8	14.80	1,420	-----	7	14	-----	60	3.7	4.1	90.2	5	2.25	45
79.5	15.27	1,490	-----	7	14.1	-----	49.6	3.2	4.15	77.1	5	2.4	48
84.5	15.40	1,460	-----	7.9	14.9	-----	53	3.5	4	87.5	5.7	2.6	45.6
(73.5)	14.77	1,390	10.9	6.9	13.5	80.7	61.1	3.3	4	82.5	5.3	2.7	50.9
(7)	(8)	(8)	-----	(8)	(8)	-----	(8)	(8)	(8)	(8)	(8)	(8)	(8)
-----	120.61	11,420	-----	58.30	110.70	-----	-----	27.70	31.95	-----	42	19.95	-----
80.5	15.08	1,427	-----	7.29	13.84	-----	52.7	3.46	3.99	86.7	5.25	2.49	47.5
78.1	14.77	1,365	-----	6.9	13.4	-----	49.6	3.2	3.8	77.1	5	2.25	45
84.3	15.43	1,490	-----	7.9	14.9	-----	66.9	3.7	4.15	90.2	5.7	2.8	51.8

*Shoshonean Indian crania: Utes, Gosh-Utes—Continued*

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243, 771	U. S. N. M.	Government Springs, Utah.	Adult		17.5	13	13.2	74.3
243, 769	do	Dry Creek, Utah.	do		17.1	12.9	12.2	76.4
243, 768	do	do	do		17.1	13.4	12.3	78.4
Totals					(3) 51.70	(3) 39.30	(3) 37.70	(3) 76
Averages					17.23	13.1	12.67	76
Minima					17.1	12.9	12.2	74.3
Maxima					17.5	13.4	13.2	78.4

*Shoshonean Indian crania: Paiutes, Pah-Vants*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
225, 089	U. S. N. M.	Camp Lyon, Idaho	Adult		19.2	14	12	72.9
225, 086	do	Utah	do		18	13.4	12.3	74.4
243, 775	do	St. George, Utah	do		18.9	14.2	12.8	75.1
225, 090	do	Fort Cameron, Utah.	do		18.4	14.3	13	77.7
225, 088	do	Blue Mountains, Oreg.	do		18	14	12.6	77.8
225, 256	do	Beaver, Utah	do	Atypical	(17.2)	(14.4)	(13.2)	(83.7)
Totals					(5) 92.50	(5) 69.90	(5) 62.70	(5) 75.6
Averages					18.50	13.98	12.54	75.6
Minima					18	13.4	12	72.9
Maxima					19.2	14.3	13	77.8

## FEMALE

326, 349	U. S. N. M.	San Juan County, Utah.	Adult		18	13.2	<sup>1</sup> 12.6	73.3
243, 614	do	Owens Valley, Calif.	do		17.4	13.6	12.5	78.2
225, 109	do	Utah	do		17	13.7	12.1	80.6
Totals					(3) 52.4	(3) 40.5	(3) 37.2	(3) 77.3
Averages					17.47	13.5	12.4	77.3
Minima					17	13.2	12.1	73.3
Maxima					18	13.7	12.6	80.6

<sup>1</sup> Part damaged; measurement approximate.



## Shoshonean: Summary of measurements

## MALE

	Bannock	Blackfeet (Siksika)	Piegan	Tribe unident- ified	Utes, Gosh- utes	Paiutes (Pah- Vants)
Number of skulls .....	(1)		(11)	(12)	(8)	(5)
Vault:						
Length .....	18.2		18.44	17.95	18.66	18.5
Breadth .....	13.4		13.98	13.66	13.87	13.98
Height .....	13		13.26	12.98	13.01	12.54
<i>Cranial Index</i> .....	73.6		75.8	76.2	74.9	75.6
<i>Mean Height Index</i> .....	82.3		81.8	82.6	80.5	77.2
Module .....	14.87		15.25	14.87	15.08	15.05
Capacity .....	1,320		1,454	1,309	1,427	1,383
Face:						
M.-N. Height .....	11.3			11.6		11.8
Alv. Pt.-N. Height .....	6.7		7.56	7.12	7.29	7.56
Breadth .....	14.1		14.09	13.81	13.84	14.29
<i>Facial Index, total</i> .....	80.1			82.4		79.2
<i>Facial Index, upper</i> .....	47.6		53.7	51.5	52.7	52.9
Orbits:						
Mean Height .....	3.45		3.58	3.42	3.46	3.63
Mean Breadth .....	4		3.90	3.9	3.99	4.04
<i>Mean Index</i> .....	86.2		91.8	87.7	86.7	89.8
Nose:						
Height .....	4.9		5.42	5.06	5.25	5.48
Breadth .....	2.6		2.6	2.55	2.49	2.54
<i>Index</i> .....	53.1		48	50.7	47.5	46.3

## FEMALE

	Bannock	Blackfeet	Piegan	Tribe unident- ified	Utes, Gosh- utes	Paiutes (Pah- Vants)
Number of skulls .....		(2)	(11)	(8)	(3)	(3)
Vault:						
Length .....		17.8	17.60	17.5	17.23	17.47
Breadth .....		13.8	13.85	13.17	13.1	13.5
Height .....			12.69	12.34	12.57	12.4
<i>Cranial Index</i> .....		77.5	78.7	75.1	76	77.3
<i>Mean Height Index</i> .....			80.7	79.6	82.9	80.1
Module .....			14.70	14.39	14.3	14.46
Capacity .....		1,290	1,307	1,243	1,248	1,273
Face:						
M.-N. Height .....			<sup>1</sup> 11.3	10.1		
Alv. Pt.-N. Height .....		7.35	7.09	6.56	6.83	6.4
Breadth .....		13.25	13.22	12.83	12.57	12.7
<i>Facial Index, total</i> .....			<sup>1</sup> 85.3	78.6		
<i>Facial Index, upper</i> .....		55.6	54.1	50.9	54.4	
Orbits:						
Mean Height .....		3.55	3.64	3.36	3.47	3.3
Mean Breadth .....		3.95	3.87	3.73	3.8	3.7
<i>Mean Index</i> .....		89.9	93.9	89.9	91.2	89.2
Nose:						
Height .....		5.3	5.23	4.72	4.73	4.
Breadth .....		2.8	2.53	2.34	2.37	2.0
<i>Index</i> .....		52.8	48.3	49.6	50	46.5

<sup>1</sup>Two skulls.

## NOTES ON THE SHOSHONEAN TRIBES

1. The tribes of this group, as far as represented, show a fairly uniform type.
2. This type is characterized by—
  - Mesococephaly;
  - Low to medium height of the vault;
  - Medium face, orbits, and nose.
3. The type is not far from the Algonkin, but differs from this by a perceptibly lower vault.

*Errata.*—The records of the Blackfoot (Siksika) and Piegan Indian crania on pages 92–100 should be transferred to the Algonkin group. *Proc. No.* 2631.

## CALIFORNIANS

## Northern California Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial index
12/81	U. of C.	Humboldt Bay	35		18.1	13.2	12.6	72.9
225,168	U. S. N. M.	Hoopa Valley	40		18	13.75	13	76.4
12/80	U. of C.	Gunthers Island, Humboldt Bay	60		18.25	14.15	13.25	77.5
225,204	U. S. N. M.	Dixie Valley	Adult	Slight asymmetry	17.9	14.75	13.5	82.4
Totals					(4)	(4)	(4)	(4)
Averages					18.06	13.96	13.09	77.5

## FEMALE

12/78	U. of C.	Redding, Shasta County	40		17.3	13.4	11.8	77.5
243,617	U. S. N. M.	Pitt River	Adult		17.6	14.4	11.7	81.8
Totals					(2)	(2)	(2)	(2)
Averages					17.45	13.9	11.75	79.7

<sup>1</sup> Part damaged; measurement approximate.

## Konkan (Maidu) Indian crania, California

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
243,615	U. S. N. M.	Round Valley	Adult		19.0	13.1	12.9	69.0
243,621	do	do	do		18.4	12.8	12.5	69.6
243,616	do	do	do		18.4	13.0	13.2	70.6
243,622	do	do	do		18.2	13.2	12.6	72.5
Totals					(4)	(4)	(4)	(4)
Averages					18.50	13.02	12.80	70.4

## FEMALE

243,619	U. S. N. M.	Round Valley	Adult		17.6	12.6	11.6	71.6
243,623	do	do	do		17.7	13.7	12.0	77.4
243,618	do	do	do		17.1	13.4	12.2	78.4
243,620	do	do	do		17.2	13.6	12.6	79.1
Totals					(4)	(4)	(4)	(4)
Averages					17.40	13.32	12.10	76.6

## CALIFORNIANS

## Northern California Indian crania

## MALE

Mean height index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion height (a)	Alveol. Pt.-Nasion height (b)	Diam. Bizygomatic maxm. (c)	Facial index, total $\left(\frac{a \times 100}{c}\right)$	Facial index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital index, mean	Nose, Height	Nose, breadth maxm.	Nasal index
80.5	14.63	-----	-----	7.3	12.8	-----	57	3.6	3.9	92.3	4.9	2.2	44.9
81.9	14.92	1,290	-----	6.8	14	-----	48.6	3.45	3.75	92	5.3	2.3	45.4
81.8	15.22	1,315	12.6	7.75	13.5	93.3	57.4	3.3	3.85	85.7	5.4	2.4	44.4
82.7	15.38	1,440	11.3	7.1	14.1	80.1	50.3	3.55	4.05	87.7	5.1	2.5	49
(4)	(4)	(3)	(2)	(4)	(4)	(2)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
-----	60.15	4,045	23.9	28.95	54.40	-----	-----	13.90	15.55	-----	20.70	9.40	-----
81.7	15.04	1,348	11.95	7.24	13.6	86.6	53.2	3.47	3.89	89.4	5.17	2.55	45.4

## FEMALE

76.9	14.17	1,105	10.5	16.5	-----	-----	-----	3.25	3.95	82.3	4.65	-----	-----
73.1	14.57	1,370	-----	7.2	-----	-----	-----	-----	-----	-----	5.3	2.4	45.3
(2)	(2)	(2)	-----	(2)	-----	-----	-----	-----	-----	-----	(2)	-----	-----
75	28.74	2,475	-----	13.7	-----	-----	-----	-----	-----	-----	9.95	-----	-----
-----	14.37	1,237	-----	6.85	-----	-----	-----	-----	-----	-----	4.87	-----	-----

## Konkan (Maidu) Indian crania, California

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxm. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxm.	Nasal Index
80.4	15.00	1,275	-----	7.5	-----	-----	-----	3.5	3.9	89.7	5.5	2.2	40.0
80.1	14.57	1,240	-----	6.7	13.4	-----	50.0	3.5	3.7	94.6	5.0	2.6	52.0
84.1	14.57	-----	-----	6.7	-----	-----	-----	3.25	3.9	83.3	4.7	2.25	47.9
80.2	14.67	1,255	-----	6.6	-----	-----	-----	3.15	3.7	85.1	4.9	2.4	49
(4)	(4)	(3)	-----	(4)	-----	-----	-----	(4)	(4)	(4)	(4)	(4)	(4)
-----	59.11	3,770	-----	27.5	-----	-----	-----	13.40	15.20	-----	20.1	9.45	-----
81.2	14.78	1,267	-----	6.88	-----	-----	-----	3.35	3.80	88.2	5.02	2.36	47.0

## FEMALE

76.8	13.93	1,100	-----	6.2	12.8	-----	48.4	3.25	3.6	90.3	4.55	2.6	57.2
76.4	14.47	1,260	-----	5.8	12.8	-----	45.3	3.40	3.8	89.5	4.3	2.7	62.3
80.0	14.23	1,220	-----	6.3	12.2	-----	51.6	3.30	3.5	94.3	4.75	2.35	49.5
81.8	14.47	1,335	-----	6.4	12.6	-----	50.8	3.25	3.6	90.3	4.6	2.3	50.0
(4)	(4)	(4)	-----	(4)	(4)	-----	-----	(4)	(4)	(4)	(4)	(4)	(4)
-----	57.10	4,915	-----	24.7	5.04	-----	-----	13.20	14.5	-----	18.20	9.95	-----
78.8	14.28	1,229	-----	6.18	12.6	-----	49.0	3.50	3.62	91.0	4.55	2.49	54.7

## Miscellaneous California Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,302	U. S. N. M.	Probably Santa Barbara County.	Adult		18.6	14.9	13.2	80.1

## FEMALE

242,305	U. S. N. M.	Probably Santa Barbara County.	Adult		18	12.8	12.4	71.1
242,306	do	do	do		17.2	13.6	12.9	79.1
242,299	do	Unknown	do		17.4	14.2	12.6	81.6
242,303	do	Probably Santa Barbara County.	do		17.1	14.1	12.6	82.6
225,174	do	Unknown	do		17.2	14.2	13.2	82.6
Totals					(5) 86.90	(5) 68.90	(5) 63.70	(5)
Averages					17.38	13.78	12.74	79.8

<sup>1</sup> Part damaged; measurement approximate.

## San Francisco Bay and vicinity Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum).	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
12/74	U. of C.	Millbrae			18.5	13.2	<sup>1</sup> 13	71.4
326,153	U. S. N. M.	Lodi	Adult		18.9	13.8	14	73
225,176	do	Centerville	55		18.7	13.7	14.2	73.3
12/73	U. of C.	Millbrae	50		18.1	13.45	13.7	74.3
225,179	U. S. N. M.	Centerville	40		18.5	13.8	13.3	74.6
12/67	U. of C.	Sausalito	60		19	14.25	13.7	75
225,180	U. S. N. M.	Centerville	50		18.4	13.8	14.4	75
225,192	do	Yerba Buena Island.	65		18.6	14	14.25	75.3
12/72	U. of C.	Millbrae	60		18.3	13.85		75.7
225,172	U. S. N. M.	Cave in Calaveras County.	60		18.7	14.2	13.6	75.9
225,177	do	Centerville	65		18	13.7	13.8	76.1
225,181	do	do	55		18.2	13.9	13.1	76.4
225,199	do	San Felipe	60		17.5	13.4	12.9	76.6
12/79	U. of C.	Felton	55		17.35	13.3	13.1	76.7
225,194	U. S. N. M.	Angel Island	30		18	13.8	13.5	76.7
225,169	do	Sutter County	50		18.6	14.3	14.6	76.9
225,178	do	Centerville	23		18.7	14.4	13.9	77
12/68	U. of C.	Sausalito	60		18.8	14.5	<sup>1</sup> 14	77.1
225,183	U. S. N. M.	Centerville	65		18.3	14.2	<sup>1</sup> 13.6	77.6
225,198	do	San Jose Mission	50		17.9	13.9	13.5	77.6
12/85	U. of C.	Inverness	50		17.25	13.4	13.2	77.7
225,170	U. S. N. M.	Sutter County	55		18.4	14.3	14	77.7
225,193	do	Angel Island	50		18.5	14.4	13.7	77.8
178,148	do	Palo Alto	35		17.6	13.7	13.8	77.8

<sup>1</sup> Part damaged; measurement near or very near.



## Miscellaneous California Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.8	15.57	1,550	-----	17.1	14.3	-----	49.6	3.9	4.1	92.7	5.2	2.5	48.1

## FEMALE

80.6	14.40	1,315	10.4	6.6	12.8	81.2	51.6	3.25	3.75	86.7	4.8	2.3	47.9
83.8	14.57	1,265	-----	-----	12.9	-----	-----	3.6	3.75	96	4.6	2.4	52.2
79.8	14.73	1,300	-----	6.9	13.2	-----	52.3	3.4	3.65	93.2	4.9	2.6	53.1
80.8	14.60	1,310	10.8	6.6	-----	-----	-----	3.45	3.75	92	5.1	2.4	47.1
84.1	14.87	-----	-----	7.2	13.8	-----	52.2	3.6	4	90	5.4	2.5	46.3
(5)	(5)	(4)	(2)	(4)	(4)	-----	(3)	(5)	(5)	(6)	(5)	(5)	(6)
81.8	14.63	1,297	10.6	6.82	13.17	-----	52	3.46	3.78	91.5	4.96	2.44	49.2

## San Francisco Bay and vicinity Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82	14.90	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
85.6	15.57	1,450	11.3	-----	13.1	86.3	-----	3.45	3.85	89.6	5.1	2.4	47.1
87.6	15.53	1,350	-----	7.6	13.1	-----	68	3.45	3.7	93.2	5.5	2.5	46.4
86.9	15.08	1,200	-----	-----	-----	-----	-----	3.5	3.8	92.1	4.95	2.5	80.6
82.4	15.20	1,445	12.9	7.9	13.9	92.8	68.8	3.8	3.8	100	5.4	2.1	38.9
82.4	15.65	1,400	11.4	6.85	13.4	85.1	61.1	3.7	4.15	89.2	4.75	2.3	48.4
89.4	15.53	1,510	12.7	7.8	-----	-----	-----	3.5	3.75	93.3	5.4	2.3	42.6
87.4	15.62	1,410	11.8	17.1	13.9	84.9	61.1	3.3	4.05	81.5	5.05	2.7	53.6
82.7	15.50	1,305	-----	7.6	-----	-----	-----	3.4	3.65	93.2	4.75	2.25	47.4
87.1	15.17	-----	-----	17.6	13.35	-----	66.9	-----	-----	-----	5.5	2.6	47.3
81.6	15.07	1,308	12.9	8.15	14.5	89	66.2	3.55	3.75	94.7	5.7	2.45	43
83.5	14.60	1,180	11.7	7.2	13.7	85.4	62.6	3.55	3.6	98.6	4.8	2.5	62.1
85.5	14.58	1,195	11.4	7.15	12.9	88.3	55.4	3.25	4	81.3	5.1	2.25	44.1
84.9	15.10	-----	11.4	6.8	13.2	86.4	61.5	3.2	3.6	88.9	4.8	2.45	51
88.8	15.83	1,480	-----	7.5	-----	-----	-----	3.5	3.75	93.3	5.65	2.65	46.9
84	15.07	1,400	12	7.4	14.3	83.9	61.8	3.55	3.6	98.6	5.15	2.3	44.7
84.1	15.77	1,515	11.6	16.9	14.5	80	47.6	3.25	3.85	84.4	4.55	2.7	58.4
83.7	15.37	1,360	-----	-----	13.6	-----	-----	3.3	3.7	89.2	-----	-----	-----
84.9	15.10	1,345	-----	6.8	-----	-----	-----	3.2	3.65	87.7	5	2.55	51
86.1	14.62	1,305	10.85	6.65	13.2	82.2	50.4	3.35	4	83.8	4.5	2.3	51.1
85.6	15.57	1,395	-----	17.3	-----	-----	-----	3.6	4	90	5.2	2.5	48.1
83.3	15.53	1,430	12.2	7.45	14.1	86.5	62.8	3.6	4.05	88.9	5.2	2.5	48.1
88.2	15.03	-----	-----	-----	13.4	-----	-----	-----	-----	-----	-----	-----	-----

## San Francisco Bay and vicinity Indian crania—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim	Basion-Bregma height	Cranial Index
12/75	U. of C.	San Francisco Bay	Adult		17.9	14	13.4	78.2
225, 191	U. S. N. M.	Petaluma	60		18	14.1	13	78.3
12/84	U. of C.	West Berkeley	55		18.5	14.6	13.8	78.9
12/71	do	Vallejo	55		17.9	14.2		79.3
225, 173	U. S. N. M.	Cave in Calaveras County.	65	Possible slight occipital compression.	17.8	14.25		80.1
225, 212	do	Mare Island	Adult	Very slight occipital compression.	18.1	14.8	13.7	81.8
12/86	U. of C.	Santa Cruz	50		18.05	15		83.1
225, 197	U. S. N. M.	Monterey	50					
					(31)	(31)	(27)	(31)
Totals					565.05	434.20	368.75	
Averages					18.23	14.01	13.66	76.8
Minima					17.25	13.2	12.9	71.4
Maxima					19	15	14.6	83.1

## FEMALE

225, 186	U. S. N. M.	Centerville	40		17.7	13.05	13.4	73.7
225, 196	do	Angel Island	55		16.9	12.9	12.8	76.3
12/83	U. of C.	West Berkeley	55		17.35	13.25	12.6	76.4
225, 187	U. S. N. M.	Centerville	55		16.7	12.8	13.2	76.65
225, 195	do	Angel Island	50		17.4	13.4	13.2	77
12/77	U. of C.	West Berkeley	50		17.8	13.85		77.8
225, 188	U. S. N. M.	Centerville	40		17.4	13.6	13.2	78.2
12/76	U. of C.	West Berkeley	50		17.1	13.4	12.5	78.4
225, 185	U. S. N. M.	Centerville	35		17.1	13.6	12.5	79.5
12/70	U. of C.	Vallejo	Adult	Very slight occipital flattening.	16.8	13.4	12.5	79.8
12/82	do	Sather (near Oakland).	35		17.3	13.8	12.6	79.8
225, 184	U. S. N. M.	Centerville	40	Slight occipital flattening.	(16.3)	(13.2)	(13.9)	(80.1)
12/69	U. of C.	Vallejo	Adult	do	(16.5)	(13.8)	(12.4)	(83.6)
					(11)	(11)	(10)	(11)
Totals					189.55	147.05	128.50	
Averages					17.23	13.37	12.86	77.6
Minima					16.7	12.8	12.5	75.7
Maxima					17.8	13.85	13.4	79.8

: Part damaged; measurement near or very near.

## San Francisco Bay and vicinity Indian crania—Continued

## MALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84 81.5 83.4	15.10 15.03 15.63	1,340	-----	17.5	13.7	-----	54.7	3.6 3.15	3.9 4	92.3 78.8	5.2	2.75	52.9
-----	-----	1,240	11.8	7.3	14.2	88.1	51.4	3.55	3.85	92.2	4.95	2.45	49.5
83.3	15.53	1,570	-----	6.85	-----	-----	-----	3.5	4	87.5	5.05	2.55	55
-----	-----	-----	-----	7.3	-----	-----	-----	3.55 3.4	3.95 3.75	89.9 88.9	5.35 4.8	2.5 2.25	46.7 46.9
(27)	(27)	(22)	(14)	(22)	(18)	(18)	(16)	(27)	(27)	(27)	(26)	(26)	(26)
-----	412.88	30,193	165.95	160.70	246.05	-----	-----	93.45	103.65	-----	132.65	63.95	-----
84.8 81.5 89.4	15.29 14.58 15.83	1,372 1,180 1,570	11.85 10.85 12.9	7.3 6.65 8.15	13.67 12.9 14.5	85.7 80 92.8	53.2 47.6 58	3.46 3.15 3.8	3.84 3.6 4.15	90.2 78.8 100	5.1 4.5 5.7	2.46 2.1 2.75	48.2 38.9 59.4

## FEMALE

87.1	14.72	1,275	-----	7.1	-----	-----	-----	3.2	3.5	91.4	4.7	2	42.6
85.9	14.20	1,109	-----	6.3	12.7	-----	49.6	3.3	3.75	88	4.5	-----	-----
79.8	14.40	1,180	-----	-----	13.7	-----	-----	3.75	4.1	91.5	5.1	2.35	46.1
89.5	14.23	1,065	-----	6.4	12.65	-----	50.6	2.9	3.6	80.6	4.65	2.4	51.6
85.7	14.67	1,190	10.9	6.9	13.2	32.6	52.3	3.4	3.9	87.2	4.8	2.35	49
-----	-----	-----	-----	-----	-----	-----	-----	3.25	3.9	83.3	5.05	2.35	46.5
85.2	14.73	1,160	11.4	7.2	13	87.7	55.4	3.55	3.85	92.2	4.85	2.65	54.6
82	14.33	-----	10.9	6.75	12.5	87.2	51	3.3	3.85	85.7	4.95	2.55	51.5
81.4	14.40	-----	-----	6.4	13	-----	48.1	2.9	3.5	82.9	4.45	2.3	51.7
82.8	14.23	1,095	-----	-----	-----	-----	-----	3.45	3.9	88.5	4.5	2.4	53.3
81	14.57	1,250	11.3	7.15	12.7	89	56.3	3.55	4	88.8	4.95	2.3	46.5
(94.2)	14.47	1,250	11.2	6.85	12.7	88.2	53.9	3.45	3.8	90.8	4.75	2.5	52.6
(81.8)	14.23	1,075	-----	6.15	12.7	-----	48.4	3.2	3.65	87.7	4.8	2.25	46.9
(10)	(12)	(10)	(5)	(10)	(10)	(5)	(9)	(13)	(13)	(13)	(13)	(12)	(12)
-----	173.18	11,670	55.70	67.20	128.85	-----	-----	43.20	49.30	-----	62.05	28.40	-----
84.3 79.8 89.5	14.43 14.2 14.73	1,167 1,065 1,275	11.14 10.9 11.4	6.72 6.15 7.2	12.88 12.5 13.7	86.9 82.6 89	52.2 48.1 56.3	3.32 2.9 3.75	3.79 3.5 4.1	87.6 80.6 92.2	4.77 4.45 5.1	2.37 2.65	48.3 42.6 54.6

## California Indian crania, Santa Barbara County (mainland)

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximi. (glabella ad maximum)	Diam. lateral maximi.	Basion-Bregma height	Cranial Index
242, 142	U. S. N. M.	Los Pueblos	Adult		18.2	13.2		72.5
242, 113	do	do	do		18.7	13.6	12.6	72.7
241, 908	do	Santa Barbara County.	do		18.6	13.6	13.1	73.1
227, 521	do	La Patera	do		18.6	13.8	13.8	74.2
241, 909	do	Santa Barbara County.	do		18.2	13.5	12.5	74.2
241, 905	do	do	do		17.9	13.3	13.6	74.3
291, 910	do	do	do		17.6	13.1	13.0	74.4
242, 114	do	Los Pueblos	do		19.0	14.2	12.9	74.7
241, 904	do	La Patera	do		18.2	13.6	13.4	74.7
242, 147	do	Santa Barbara County.	do		18.4	13.8	12.6	75
242, 159	do	do	do		18.4	13.8	13.8	75
241, 907	do	La Patera	do		18.4	13.8	13.7	75
242, 096	do	Los Pueblos	do		18.3	13.8	13.5	75.4
242, 175	do	Santa Barbara County.	do		18.5	14.0	13.2	75.7
242, 153	do	do	do		18.1	13.7	13.8	75.7
242, 182	do	do	do		18.4	14.0	13.0	76.1
242, 129	do	Los Pueblos	do		18.6	14.2	13.3	76.3
242, 183	do	Santa Barbara County.	do		17.8	13.6	13.2	76.4
242, 145	do	do	do		17.7	13.6	12.9	76.8
242, 135	do	Los Pueblos	do		18.2	14.0	12.5	76.9
242, 144	do	Santa Barbara County.	Near senile.		18.2	14.0	12.6	76.9
242, 143	do	do	Adult	Very slight asymmetry.	18.2	14.0	13.3	76.9
242, 168	do	do	do		17.8	13.7	13.0	77
241, 912	do	do	do		17.1	13.2	12.4	77.2
241, 903	do	La Patera	do		17.6	13.6	13	77.3
242, 167	do	Santa Barbara County.	do		17.6	13.6	13.3	77.3
242, 148	do	do	do		17.6	13.6	12.8	77.3
241, 914	do	La Patera	do		17.7	13.7	13.9	77.4
225, 200	do	do	do		17.8	13.9	13	78.1
242, 189	do	Santa Barbara County.	do		17.7	13.9		78.5
227, 520	do	do	Near senile.		18	14.2	12.8	78.9
241, 913	do	do	Adult		18	14.2	13.5	78.9
242, 124	do	Los Pueblos	do		17.2	13.6		79.1
242, 140	do	do	do		17.4	13.8	12.4	79.3
242, 154	do	Santa Barbara County.	do		17.4	13.8	13.3	79.3
242, 146	do	do	do		17.7	14.1	13.6	79.7
242, 160	do	do	do		18.3	14.6	12.8	79.8
242, 191	do	do	do	Very slight asymmetry.	18	14.4	14	80
242, 184	do	do	do		17.8	14.3	13.7	80.3
242, 176	do	do	do		17.6	14.2	13.2	80.7
242, 170	do	do	do		17.8	14.4	14	80.9
241, 906	do	do	do		16.9	13.7	13	81.1
242, 149	do	do	do		17.1	14	13.4	81.9
242, 173	do	do	do		17.8	14.6	14	82
241, 911	do	do	do				13	
242, 101	do	Los Pueblos	do			13.3	12.6	
242, 111	do	do	do		18.5			
242, 112	do	do	do		18			
242, 136	do	do	do	Moderate occipital compression.	17.1		13.1	
242, 139	do	do	do		17.6		12.6	
242, 141	do	do	do					
242, 152	do	Santa Barbara County.	do					
Totals					(48) 861.30	(45) 622.60	(45) 592.70	(44)
Averages					17.94	13.83	13.17	77.1
Minima					16.9	13.1	12.4	72.5
Maxima					19	14.6	14	82

## California Indian crania, Santa Barbara County (mainland)

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.0	14.97	1,360		7.2				3.4	3.8	89.5	5.1	2.6	51
81.4	15.13		10.9	7.0	13.3		52.6	3.45	3.8	90.8	5.05	2.5	49.5
				6.7				3.45	3.85	89.6	4.9	2.6	53.1
85.2	15.40	1,435	12.4	7.2	13.8	89.9	52.2	3.3	4.05	81.5	5.0	2.55	51
78.9	14.73			6.55				3.25	3.5	92.9	4.5	2.3	51.1
87.2	14.93		12.2	7.35				3.25	3.6	90.3	5.4	2.2	40.7
84.7	14.57			6.9							4.8	2.25	46.9
77.7	15.37	1,440		7.4				3.9	4.15	94	5.3	2.4	45.3
84.3	15.07			6.85				3.45	3.95	87.3	4.55	2.0	44
78.3	14.93			6.7	13.8		49.6	3.6	3.8	94.7	5.1	2.45	48.0
83.1	15.33	1,490	11.6	7.3	13.9	83.4	52.5	3.35	3.9	85.9	5.0	2.1	42
82.5	15.30	1,455		6.9	14.0		49.3	3.45	4.0	86.2	5.2	2.7	51.9
81.6	15.20		11.2	6.7				3.3	3.65	90.4	4.7	2.25	47.9
81.2	15.23	1,440		6.9	13.7		50.4	3.4	3.8	89.5	4.8	2.5	52.1
86.8	15.20	1,410	10.3	6.0	14.1	73.0	42.5	3.2	3.95	81.0	4.4	2.2	50
80.2	15.13			6.7	12.8		52.3	3.35	3.65	91.8	4.75	2.1	44.2
81.1	15.37		11.6	7.4				3.6	3.8	94.7	5.4	2.5	46.3
84.1	14.87	1,348		7.2				3.75	3.9	96.2	5.3	2.3	45.4
82.4	14.73	1,370	11.3	7.1				3.7	4.0	92.5	5.3	2.7	50.9
77.6	14.90		10.8	6.9	13.5	80	51.1	3.3	3.9	84.6	4.8	2.25	46.9
78.3	14.93	1,390	10.8		12.9	83.7		3.4	3.88	87.6	4.8	2.6	54.2
82.6	15.17	1,480	12.4	7.7	13.8	89.9	55.8	3.45	3.8	90.8	5.0	2.25	45
82.5	14.83	1,410		7.2	13.9		51.8	3.5	3.9	89.7	5.0	2.5	50
81.8	14.23		11.6	7.2	13.2	87.9	54.6	3.7	3.8	97.4	4.95	2.5	50.5
83.3	14.73	1,230	11.9	7				3.25	3.75	86.7	4.6	2.4	52.2
85.3	14.83	1,365		6.7				3.38	3.9	86.7	4.8	2.3	47.9
82	14.67	1,275	10.5	6.7	13.7	76.6	48.9	3.25	3.6	90.3	4.5	2.3	51.1
88.5	15.10	1,335		6.8				3.65	3.8	96	4.9	2.5	51
82	14.90	1,240		6	13.1		46.8	3.1	3.75	82.7	4.3	2.25	52.3
				6.5	13.5		48.2				4.6	2.5	54.4
79.5	15.00	1,295	11.2	6.9	13.4	83.6	51.5	3.35	3.85	87	4.75	2.7	56.8
83.8	15.23											2.35	
			11.2	7							4.7	2.15	46.7
79.5	14.53	1,305		7.3	13.3		54.9	3.95	3.9	101.3	5.3	2.4	45.3
85.3	14.87	1,370	11.3	7.1	13.5	83.7	52.6	3.4	3.7	91.9	4.85	2	41.3
85.5	15.13				13.6			3.3	3.75	88	4.7	2.3	48.9
77.8	15.23	1,420	11	6.9				3.4	3.95	86.1	5.1	2.8	54.9
86.4	15.47	1,460		7.1	13.3		53.4	3.5	3.85	90.9	5.2	2.2	42.3
85.4	15.27	1,500		7	13.8		50.7	3.35	3.7	90.6	4.85		
83	15.00	1,475		6.5				3.25	3.75	86.7	4.7	2.3	48.9
87	15.40	1,540		6.9	13.2		52.3	3.65	3.95	92.4	5	2.2	44
85	14.53		11.9	7.05				3.4	3.75	90.7	5.05	2.35	46.5
86.2	14.83	1,250	11.3	7.4	13.2	85.6	56.1	3.65	3.7	98.6	5.2	2.7	51.9
86.4	15.47	1,435		6.8	13.3		51.1	3.35	4	83.8	4.7	2.4	51.1
					13.9							2.5	
				7.6	14.4		62.7	3.22	3.85	83.6	5.3	2.65	
				6.9				3.35	4	83.8	4.8	2.3	47.9
			11.8	7.1							5.1	2.1	41.2
				6.9				3.9			5	2.5	50
				7.3				3.65	4.1	88.5	5	2.4	48
			10.9	6.8	13.2	82.6	51.5	3.3	3.7	89.2	4.7	2.3	48.9
(41)	(41)	(27)	(22)	(47)	(28)	(12)	(25)	(45)	(44)	(44)	(49)	(51)	(48)
82.9	615.71	37,523	250.10	327.30	379.10		83.3	155.10	168.73		240.80	121.60	
16.02	1,390	11.37	6.96	13.54			51.3	3.46	3.83	89.6	4.91	2.58	48.4
77.6	14.23	1,230	10.3	6	12.8	73	42.5	3.1	3.5	81	4.3	2	40.7
88.5	15.47	1,540	12.4	7.7	14.4	89.9	56.1	3.95	4.15	101.3	5.4	2.8	56.8

## California Indian crania, Santa Barbara County (mainland)—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242, 109	U. S. N. M.	Los Pueblos	Adult		17. 1	12. 7	13. 6	74. 3
242, 185	do	Santa Barbara County.	do		17. 8	13. 3	12. 6	74. 7
242, 100	do	Los Pueblos	do		17. 9	13. 5	12. 6	75. 4
242, 325	do	La Patera	do		17. 9	13. 5	12. 4	76. 4
242, 169	do	Santa Barbara County.	Near senile.		18. 0	13. 6	12. 2	76. 6
242, 177	do	do	Adult		17. 4	13. 2	12. 3	75. 9
242, 122	do	Los Pueblos	do		17. 6	13. 4	12. 0	76. 1
242, 334	do	La Patera	do		17. 8	13. 6	12. 4	76. 4
242, 181	do	Santa Barbara County.	do		17. 8	13. 6	13. 1	76. 4
242, 323	do	La Patera	do		17. 2	13. 2	12. 4	76. 7
242, 320	do	do	do		18. 0	13. 8	12. 9	76. 7
242, 171	do	Santa Barbara County.	do		17. 2	13. 2	12. 6	76. 7
242, 321	do	La Patera	do		16. 9	13. 0		76. 9
242, 150	do	Santa Barbara County.	do		16. 2	12. 5	11. 6	77. 2
242, 326	do	La Patera	do		16. 8	13. 0	12. 8	77. 4
242, 165	do	Santa Barbara County.	do		17. 4	13. 5	13. 0	77. 6
242, 104	do	Los Pueblos	do		17. 1	13. 3	12. 7	77. 8
242, 336	do	La Patera	do		16. 4	12. 8	11. 3	78. 0
242, 190	do	Santa Barbara County.	do		17. 8	14. 0	12. 8	78. 6
242, 153	do	do	do		16. 2	12. 8	12. 2	79. 0
242, 157	do	do	do		17. 2	13. 6	12. 0	79. 1
242, 179	do	do	do		17. 2	13. 6	11. 9	79. 1
242, 092	do	Los Pueblos	do		17. 0	13. 5	12. 2	79. 4
242, 133	do	do	Near senile.		16. 6	13. 2	12. 8	79. 5
242, 172	do	Santa Barbara County.	Adult		16. 6	13. 2	13. 0	79. 5
242, 110	do	Los Pueblos	do		17. 2	13. 7	13. 0	79. 6
242, 105	do	do	do		17. 2	13. 8	12. 7	80. 2
242, 330	do	La Patera	do		16. 8	13. 5	12. 3	80. 4
242, 166	do	Santa Barbara County.	do		16. 4	13. 2	12. 0	80. 5
242, 106	do	Los Pueblos	do		16. 6	13. 4	11. 9	80. 7
242, 115	do	do	do		16. 7	13. 6	12. 0	81. 4
242, 192	do	Santa Barbara County.	do		16. 9	13. 8		81. 7
224, 899	do	do	do		16. 4	13. 6	13. 4	82. 9
242, 098	do	Los Pueblos	do		16. 4	13. 6	12. 0	82. 9
242, 121	do	do	Near adult		16. 8	14. 0	12. 2	83. 3
242, 117	do	do	Adult	Very slight asymmetry.	16. 7	14. 1	11. 9	84. 4
242, 093	do	do	do		17. 2		13. 0	
242, 091	do	do	do			13. 2	12. 6	
242, 094	do	do	do			13. 4	12. 0	
242, 134	do	do	do				12. 2	
242, 130	do	do	do					
Totals					(37) 632. 40	(38) 509. 50	(38) 472. 60	(36) 78. 6
Averages					17. 09	13. 41	12. 44	78. 6
Minima					16. 2	12. 5	11. 3	74. 3
Maxima					18	14. 1	13. 6	84. 4

## California Indian crania, Santa Barbara County (mainland)—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxin. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—i-teight, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxin.	Nasal Index
91.5	14.47	1,170	-----	6.3	12.4	-----	50.8	3.00	3.60	83.3	4.2	2.2	52.4
81.0	14.57	1,250	-----	6.1	11.9	-----	51.3	3.20	3.75	85.4	4.2	2.2	52.4
80.2	14.67	1,230	11.3	6.7	12.4	91.1	54.0	3.20	3.80	84.2	4.5	2.5	55.6
79.0	14.60	1,310	-----	6.6	-----	-----	-----	3.70	3.90	94.9	4.9	2.4	49.0
77.2	14.60	1,285	-----	-----	-----	-----	-----	3.10	3.75	82.7	4.5	2.5	55.6
80.4	14.30	1,160	10.9	7.1	-----	-----	-----	3.45	4.00	86.2	4.8	2.2	46.8
77.4	14.33	-----	10.0	6.6	12.9	77.5	51.2	-----	-----	-----	-----	-----	-----
79.0	14.60	1,255	-----	6.4	-----	-----	-----	3.25	3.60	90.3	4.5	2.4	53.3
88.4	14.83	1,325	-----	6.5	12.7	-----	51.2	3.30	3.75	88.0	4.8	2.1	43.8
81.6	14.27	1,160	-----	5.9	-----	-----	-----	3.25	3.65	89.0	4.4	2.15	48.9
81.1	14.90	-----	-----	6.2	12.8	-----	48.4	3.10	3.70	83.8	4.2	2.3	54.8
82.9	14.33	1,200	-----	6.5	13.0	-----	50.0	3.18	3.55	89.6	4.3	2.25	52.3
-----	-----	-----	-----	-----	-----	-----	-----	3.35	-----	-----	4.5	2.4	53.3
80.8	13.43	1,060	10.6	6.5	-----	-----	-----	3.20	3.55	90.2	4.6	2.4	52.2
85.9	14.20	1,180	-----	6.2	12.7	-----	48.8	3.35	3.65	91.8	4.6	2.5	54.4
84.1	14.63	1,285	-----	6.4	12.9	-----	49.6	3.15	3.55	88.7	4.3	2.3	53.5
83.6	14.37	1,230	10.1	6.7	13.0	77.7	51.5	3.40	3.75	90.7	4.7	2.55	54.3
77.4	13.50	1,070	-----	6.6	-----	-----	-----	3.30	3.65	90.4	4.5	2.5	55.6
80.5	14.87	1,300	-----	6.0	12.8	-----	46.9	3.65	3.90	93.6	4.5	2.4	53.3
84.1	13.73	1,080	9.6	6.0	11.9	80.7	50.4	3.20	3.60	88.9	4.6	2.4	52.2
77.9	14.27	1,185	10.8	6.6	12.6	85.7	52.4	3.00	3.60	83.3	4.6	2.5	54.4
77.5	14.23	1,200	-----	6.4	-----	-----	-----	3.17	3.90	81.3	4.3	2.3	53.5
80.0	14.23	1,160	-----	6.2	-----	-----	-----	3.60	3.70	97.3	4.7	2.5	53.2
85.9	14.20	1,150	-----	-----	13.5	-----	-----	3.65	4.15	88.0	5.0	2.5	60.0
87.2	14.27	1,225	-----	6.9	12.4	-----	55.6	3.20	3.50	91.4	4.7	2.2	46.8
84.1	14.63	1,295	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
81.9	14.57	-----	10.9	6.9	13.6	80.2	50.7	3.20	4.00	80.0	4.8	2.4	50.0
81.2	14.20	1,290	10.3	6.7	13.0	79.2	51.5	3.55	3.70	95.9	4.8	2.3	47.9
81.1	13.87	1,115	-----	6.7	12.8	-----	52.3	3.20	3.65	87.7	4.4	2.05	46.6
79.3	13.97	1,090	-----	6.4	-----	-----	-----	3.08	3.60	85.6	4.4	2.4	54.6
79.2	14.10	1,200	10.3	6.6	11.8	87.3	55.9	3.50	3.70	94.6	4.8	2.1	43.8
-----	-----	1,215	-----	6.6	-----	-----	-----	3.35	3.60	93.1	4.5	2.4	53.3
89.3	14.47	1,190	9.5	6.0	12.4	76.6	48.4	3.30	3.40	97.1	4.3	2.2	51.2
80.0	14.00	1,225	10.3	6.0	12.0	85.8	50.0	3.40	3.60	94.4	4.3	2.1	43.8
79.2	14.33	1,285	-----	6.7	-----	-----	-----	3.50	3.70	94.6	4.9	2.2	44.9
77.5	14.23	1,150	-----	6.7	12.2	-----	54.9	3.40	3.40	100.0	4.8	2.3	47.9
-----	-----	-----	10.3	6.5	12.6	81.8	51.6	-----	-----	-----	4.45	2.5	56.2
-----	-----	-----	-----	-----	12.6	-----	-----	-----	-----	-----	-----	2.2	-----
-----	-----	-----	11.1	6.7	12.6	88.1	53.2	-----	-----	-----	4.9	2.45	50.0
-----	-----	-----	-----	6.7	-----	-----	-----	-----	-----	-----	4.6	2.15	46.7
(34)	(34)	(32)	(14)	(35)	(25)	(12)	(25)	(34)	(33)	(53)	(37)	(39)	(37)
-----	486.77	38,525	146	226.6	315.50	-----	-----	112.43	121.90	-----	168.85	90.90	-----
81.5	14.32	1,204	10.43	6.47	12.62	82.6	51.3	3.81	3.69	89.5	4.56	2.33	51
77.2	13.43	1,060	9.5	5.9	11.8	76.6	46.9	3	3.40	80	4.2	2.05	43.8
91.3	14.90	1,325	11.3	7.1	13.6	91.1	55.9	3.70	4.15	100	5	2.55	56.2

## California Indian crania, Santa Catalina Island

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,298	U. S. N. M.	Santa Catalina Island.	Adults	-----	17.4	13.4	12.2	77

## California Indian crania, San Nicholas Island

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,071	U. S. N. M.	San Nicholas Island.	Adult	-----	19.6	13.4	13.4	68.4
242,085	do.	do.	do.	-----	19.4	13.9	13.1	71.6
242,087	do.	do.	do.	-----	18.6	13.4	13.4	73.0
242,083	do.	do.	do.	-----	18.5	13.4	12.4	72.4
242,084	do.	do.	do.	-----	19.2	14.1	12.7	78.4
242,082	do.	do.	Senile	-----	19.4	14.3	12.6	73.7
242,077	do.	do.	Adult	-----	18.2	13.5	12.7	74.2
242,072	do.	do.	do.	-----	18.0	13.6	12.9	75.6
242,081	do.	do.	do.	-----	18.8	14.4	13.2	76.6
242,069	do.	do.	do.	-----	18.2	14.1	13.0	77.5
242,080	do.	do.	do.	-----	18.3	14.8	13.2	80.9
Totals	-----	-----	-----	-----	(11) 206.2	(11) 152.9	(11) 142.6	(11) 74.2
Averages	-----	-----	-----	-----	18.75	13.90	12.96	74.2
Minimum	-----	-----	-----	-----	18.2	13.4	12.6	68.4
Maximum	-----	-----	-----	-----	19.6	14.8	13.4	80.9

## FEMALE

242,073	U. S. N. M.	San Nicholas Island.	Adult	-----	18.2	13.4	12.2	73.6
242,086	do.	do.	do.	-----	17.9	13.4	12.6	74.9
242,079	do.	do.	do.	-----	18.0	13.5	12.8	75.0
242,070	do.	do.	do.	-----	18.1	13.6	13.0	75.1
242,089	do.	do.	do.	-----	18.1	13.6	11.8	75.1
242,090	do.	do.	do.	-----	18.6	14.5	12.3	78.0
242,088	do.	do.	do.	-----	18.2	14.2	12.8	78.0
242,066	do.	do.	do.	-----	17.9	14.2	12.4	79.3
146,177	do.	do.	do.	-----	17.0	13.7	12.8	80.6
242,068	do.	do.	do.	-----	17.0	13.7	12.0	80.6
242,067	do.	do.	do.	-----	17.8	14.7	12.2	82.6
242,078	do.	do.	do.	-----	16.9	14.0	11.8	82.8
242,074	do.	do.	do.	-----	18.4	-----	13.1	-----
Totals	-----	-----	-----	-----	(13) 232.1	(12) 166.5	(13) 161.8	(12) 77.9
Averages	-----	-----	-----	-----	17.85	13.88	12.45	77.9
Minimum	-----	-----	-----	-----	16.9	13.4	11.8	73.6
Maximum	-----	-----	-----	-----	18.6	14.7	13.1	82.8

<sup>1</sup> Part damaged; measurement approximate.



## California Indian crania, Santa Catalina Island

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height <sup>(a)</sup>	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth max.	Nasal Index
79.2	14.33	-----	-----	7	13	-----	53.8	3.65	4	91.2	5.55	2.35	42.3

## California Indian crania, San Nicholas Island

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height <sup>(a)</sup>	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth max.	Nasal Index
81.2	15.47	1,520	-----	6.8	13.3	-----	51.1	3.35	4.00	83.8	5.15	2.8	54.4
78.7	15.47	1,560	12	7.2	13.4	89.6	53.7	3.55	3.83	92.8	5.3	2.5	47.2
83.8	15.13	1,430	11.3	6.7	13.1	86.3	51.2	3.60	3.70	97.3	4.9	2.5	51.0
77.7	14.77	1,360	10.7	7.0	13.3	80.4	52.6	3.70	4.00	92.5	5.4	2.5	46.3
76.3	15.33	1,540	12.3	7.4	14.6	84.2	50.7	3.75	4.10	91.5	5.6	2.2	39.3
74.8	15.43	1,500	-----	7.5	14.2	-----	52.8	3.55	4.05	87.7	5.6	2.6	46.4
80.1	14.47	1,400	11.8	7.3	13.7	86.1	53.3	3.55	3.80	93.4	5.5	2.4	43.6
81.6	14.83	1,290	12.2	7.5	13.3	91.7	56.4	3.40	3.80	89.5	5.2	2.6	50.6
79.5	15.47	1,550	12.3	7.6	-----	-----	-----	3.70	-----	-----	5.6	2.5	44.6
80.5	15.10	1,430	12.0	7.6	13.8	87	55.1	3.70	3.70	100	5.7	2.45	43
79.8	15.43	1,620	-----	-----	14.5	-----	-----	3.70	4.10	90.2	5.4	2.6	48.2
(11)	(11)	(11)	(8)	(10)	(7)	(9)	(11)	(10)	(10)	(10)	(11)	(11)	(11)
79.4	16.20	1,473	11.83	7.26	13.72	86.4	53	3.5	3.91	91.7	5.4	2.51	46.6
74.8	14.47	1,200	10.7	6.7	13.1	80.4	50.7	3.35	3.7	83.8	4.9	2.2	39.3
83.8	15.47	1,620	12.3	7.6	14.6	91.7	56.4	3.75	4.1	100.0	5.7	2.8	64.4

## FEMALE

77.2	14.60	1,275	11.1	7.3	12.7	87.4	57.5	3.45	3.70	93.2	5.5	2.5	45.4
80.5	14.63	1,330	-----	-----	-----	-----	-----	3.50	3.90	89.7	5.0	2.6	52
81.3	14.77	1,395	-----	6.7	-----	-----	-----	3.45	4.05	85.2	5.1	2.5	49.0
82.0	14.90	1,360	-----	6.6	12.6	-----	52.4	3.50	3.70	94.6	4.9	2.4	49
74.4	14.50	1,335	-----	-----	13.2	-----	-----	3.45	3.80	90.8	4.7	2.4	51.1
74.3	15.13	1,465	-----	7.0	13.3	-----	52.6	3.70	3.93	94.1	5.1	2.4	47.1
79.0	15.07	1,445	11.3	7.2	13.3	85	54.1	3.60	3.80	94.7	5.0	2.5	50
83.4	14.83	1,370	-----	6.9	13.1	-----	52.7	3.30	3.60	91.7	4.8	2.7	56.2
83.4	14.50	1,400	-----	5.8	-----	-----	-----	3.20	-----	-----	4.45	2.2	49.4
78.2	14.23	1,255	-----	6.0	12.1	-----	49.6	3.20	3.50	91.4	4.6	2.4	52.2
75.1	14.90	1,390	-----	-----	-----	-----	-----	3.23	3.90	82.8	5.0	2.6	52
76.4	14.23	1,320	-----	6.5	12.7	-----	51.2	3.33	3.50	95.1	4.7	1.9	40.4
-----	-----	-----	-----	-----	-----	-----	-----	3.40	4.10	82.9	5.3	2.4	45.3
(12)	(12)	(12)	(2)	(9)	(8)	(2)	(7)	(13)	(12)	(12)	(13)	(13)	(13)
78.2	14.69	1,362	11.2	6.67	12.88	86.2	52.4	3.41	3.79	90.3	4.93	2.42	49.1
74.3	14.23	1,255	-----	5.8	12.1	-----	49.6	3.2	3.5	82.8	4.45	1.9	40.4
83.4	15.13	1,465	-----	7.3	13.3	-----	57.5	3.7	4.1	95.2	5.5	2.7	56.2

\* Teeth worn to gums.

## California Indian crania, Santa Cruz Island

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,010	U. S. N. M.	Santa Cruz Island.	Adult.		19.2	13.8	13.0	71.9
242,002	do.	do.	do.		18.5	13.3	13.3	71.9
242,018	do.	do.	do.		18.6	13.4	13.2	72.0
242,006	do.	do.	do.		18.8	13.6	13.2	72.3
241,961	do.	do.	do.		17.9	13.1	12.8	73.2
241,969	do.	do.	do.		18.8	13.8	12.9	73.4
241,945	do.	do.	do.		18.2	13.4	13.0	73.6
241,947	do.	do.	do.		18.4	13.6	13.2	73.9
241,995	do.	do.	do.		18.8	13.9	12.4	73.9
241,949	do.	do.	do.		18.1	13.4	13.0	74.0
242,050	do.	do.	do.		18.9	14.0	13.1	74.1
241,966	do.	do.	do.		18.0	13.4	12.9	74.4
242,009	do.	do.	do.		19.0	14.2	13.2	74.7
241,954	do.	do.	do.		18.8	14.2	13.4	75.5
241,916	do.	do.	do.		18.4	13.9	13.0	75.5
241,921	do.	do.	do.		17.2	13.0	12.5	75.6
241,919	do.	do.	do.		18.2	13.8	12.8	75.8
241,927	do.	do.	do.		18.2	13.8	13.4	75.8
241,953	do.	do.	do.		18.2	13.8	13.0	75.8
242,043	do.	do.	do.		19.0	14.4	13.6	75.8
241,918	do.	do.	do.		19.2	14.6	13.6	76.0
241,941	do.	do.	do.		18.4	14	12.8	76.1
241,940	do.	do.	do.		18.8	14.4	12.8	76.6
241,988	do.	do.	do.		18	13.8	13	76.7
242,017	do.	do.	do.		18.2	14.0	12.5	76.9
242,051	do.	do.	do.		18.2	14.0	13.6	76.9
242,024	do.	do.	do.		18.6	14.3	13.3	76.9
241,939	do.	do.	do.		18.4	14.2	13.8	77.2
241,983	do.	do.	Near senile		18.4	14.2	12.3	77.2
241,971	do.	do.	Adult.		17.6	13.6	13.0	77.3
241,935	do.	do.	do.		17.7	13.7	13.0	77.4
242,030	do.	do.	do.		18.6	14.4	13.2	77.4
242,060	do.	do.	do.		18.6	14.4	14.2	77.4
242,062	do.	do.	do.		18.6	14.4	13.8	77.4
241,956	do.	do.	do.		18.8	14.6	13.2	77.7
242,021	do.	do.	do.		18.1	14.1	13.2	77.9
242,046	do.	do.	do.		18.3	14.3		78.1
241,958	do.	do.	do.		18.4	14.4	13.6	78.3
242,057	do.	do.	do.		18.4	14.4		78.3
242,014	do.	do.	do.		17.1	13.4	12.8	78.4
241,931	do.	do.	do.		17.8	14.0	13.4	78.6
241,976	do.	do.	do.		18.0	14.2	12.7	78.9
242,047	do.	do.	do.		18.1	14.3	13.5	79.0
242,058	do.	do.	do.		18.1	14.3	13.2	79.0
241,997	do.	do.	do.		17.7	14	13.4	79.1
241,995	do.	do.	do.		17.2	13.6	12.8	79.1
241,963	do.	do.	do.		17.3	13.7	13	79.2
242,020	do.	do.	do.		17.7	14.1	12.7	79.7
242,034	do.	do.	do.		17.8	14.2	12.7	79.8
241,924	do.	do.	do.		18	14.4	13.2	80
242,031	do.	do.	do.		18	14.4	13.1	80
241,967	do.	do.	do.		18.2	14.6	13	80.2
241,933	do.	do.	do.		17.8	14.3	13.2	80.3
241,934	do.	do.	do.		17.6	14.2	13.1	80.7
241,938	do.	do.	do.		17.6	14.2	12.8	80.7
241,952	do.	do.	do.		17.8	14.4	13	80.9
241,960	do.	do.	do.		18.3	14.8	12.8	80.9
241,957	do.	do.	do.		17.4	14.2	12.9	81.6
241,964	do.	do.	do.		17.4	14.2	12.4	81.6
241,959	do.	do.	do.		17.0	13.9	12.8	81.8
242,028	do.	do.	do.		17.6	14.4	12.8	81.8
242,004	do.	do.	do.	Very slight occipital compression.	17.3	14.2	12.4	82.1
242,045	do.	do.	Near adult.		18.0	14.8	12.9	82.2
241,978	do.	do.	do.		18.2	15.1	13.4	83.0

<sup>1</sup> Actual measurement, 19.4; 4 millimeters deducted because of a very pronounced occipital protuberance.

## California Indian crania, Santa Cruz Island

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.8	15.33	1,510	10.9	7.0	14.0	77.9	50.0	3.60	3.80	94.7	5.0	2.5	50.0
83.6	15.03	1,330	-----	7.2	13.4	-----	53.7	3.65	3.75	97.3	5.2	2.4	46.2
82.5	15.07	-----	-----	7.3	-----	-----	-----	3.45	3.80	90.8	5.1	2.5	49.0
81.5	15.20	-----	-----	7.3	13.8	-----	52.9	3.50	3.85	90.9	5.1	2.5	49.0
82.6	14.60	-----	-----	7.5	13.2	-----	56.8	3.50	3.90	89.7	5.2	2.3	44.2
79.1	15.17	-----	-----	6.7	14.0	-----	47.9	3.35	3.95	84.8	5.2	2.6	50.0
82.3	14.87	-----	-----	7.0	13.5	-----	51.8	3.05	3.60	84.7	4.6	2.4	52.2
82.5	15.07	-----	-----	7.0	13.6	-----	51.2	3.15	3.70	85.1	5.0	2.5	50.0
75.8	15.03	1,380	-----	6.9	13.8	-----	50.0	3.45	3.80	90.8	5.1	2.6	51.0
82.5	14.83	1,295	-----	7.1	-----	-----	-----	3.40	3.65	93.2	5.25	2.6	49.5
79.6	15.33	1,470	-----	7.7	13.5	-----	57.0	3.00	4.00	90.0	5.1	2.5	49.0
82.2	14.77	1,260	11.6	7.0	13.7	84.7	51.1	3.40	3.70	91.9	5.2	2.35	45.2
79.5	15.47	1,370	-----	6.9	14.3	-----	48.3	3.40	3.95	89.1	4.6	2.5	54.4
81.2	15.47	1,440	-----	7.5	13.3	-----	56.4	3.45	3.70	93.2	5.2	2.6	50.0
80.5	15.10	1,270	-----	7.3	13.7	-----	53.3	3.55	4.10	83.5	5.2	2.4	46.2
82.8	14.23	1,175	-----	6.7	12.8	-----	52.3	3.50	3.70	94.6	4.8	2.2	46.8
80.0	14.93	1,330	-----	6.9	13.8	-----	50.0	3.25	3.85	84.4	4.90	2.25	45.9
83.8	15.13	1,360	11.8	7.5	13.6	86.8	56.2	3.60	3.80	94.7	5.4	2.2	40.7
81.2	15.00	1,270	-----	7.1	13.4	-----	53.0	3.55	3.85	92.5	5.0	2.2	44.0
81.4	15.67	1,495	-----	7.3	13.5	-----	54.1	3.60	3.80	94.7	5.2	2.3	44.2
80.5	15.80	1,600	-----	8.0	14.6	-----	54.8	3.50	3.90	89.7	5.4	2.25	41.7
79	15.40	1,320	-----	6.9	13.4	-----	51.5	3.2	3.6	88.9	4.6	2.4	52.2
77.1	15.33	1,390	-----	7.3	14.4	-----	50.7	3.35	3.6	93.1	5.2	2.4	46.1
81.8	14.93	1,340	-----	7.4	13.8	-----	53.6	3.4	3.9	87.2	5.3	2.3	43.4
77.6	14.90	1,285	11.5	7.2	13.4	85.8	53.7	3.20	3.90	82.0	5.0	2.5	50.0
84.5	15.27	1,450	-----	6.8	-----	-----	-----	3.40	3.90	87.2	5.1	2.4	47.1
80.9	15.40	1,595	-----	7.4	14.2	-----	52.1	3.63	3.90	93.1	5.3	2.4	45.3
84.7	15.47	1,500	-----	7.2	14.2	-----	50.7	3.65	4.1	89	5	2.7	54
75.5	14.97	1,390	-----	7.2	13.4	-----	53.7	3.6	3.7	97.3	5	2.5	50
83.3	14.73	-----	11.1	6.8	13.2	84.1	51.5	3.40	3.80	89.5	4.6	2.4	52.2
82.8	14.80	1,330	-----	6.8	13.5	-----	50.4	3.30	3.75	88.0	4.8	2.4	50.0
80.0	15.40	1,450	-----	7.4	14.2	-----	52.1	3.50	3.90	89.7	5.4	2.6	48.2
86.1	15.73	1,535	-----	6.9	13.8	-----	50	3.6	3.9	92.3	5	2.5	50
83.6	15.67	1,625	-----	6.8	-----	-----	-----	3.65	3.8	95	4.4	2.2	50
79	15.53	1,450	-----	7.1	14.3	-----	49.6	3.52	3.82	92.1	5.2	2.7	51.9
82.0	15.13	1,430	-----	7.3	13.8	-----	52.9	3.72	3.90	95.4	5.5	2.4	43.6
-----	-----	-----	-----	6.8	-----	-----	-----	-----	-----	-----	4.95	2.3	46.5
82.9	15.47	1,435	-----	7.1	14.0	-----	50.7	3.70	4.00	92.5	5.0	2.6	52.0
-----	-----	1,460	-----	7.5	13.7	-----	54.7	3.60	3.70	97.3	5.4	2.15	39.8
83.9	14.43	1,205	-----	6.6	13.1	-----	50.4	3.28	3.75	87.5	4.7	2.2	46.8
84.3	15.07	1,360	11.8	7.0	13.1	90.1	53.4	3.45	3.75	92.0	4.5	2.3	51.1
78.9	14.97	1,410	-----	7.3	13.8	-----	52.9	3.60	4.00	90.0	5.3	2.4	45.3
83.3	15.30	1,490	-----	6.7	-----	-----	-----	3.25	3.70	87.8	5.0	2.6	52.0
81.5	15.20	1,445	-----	7.1	14.2	-----	50.0	3.65	3.90	93.6	5.1	2.3	45.1
84.5	15.03	1,370	-----	7.5	13.9	-----	54	3.8	4.1	92.7	5.2	2.1	40.4
83.1	14.53	1,280	-----	6.6	14	-----	47.1	3.3	3.8	86.8	4.8	2.1	43.8
83.9	14.67	1,300	-----	7.4	13.4	-----	55.2	3.7	3.8	97.4	5.3	2.2	41.5
79.9	14.83	1,330	12.5	7.7	13.3	94	57.9	3.6	3.6	93.6	5.6	2.3	41.1
79.4	14.90	1,380	-----	7.2	13.7	-----	52.6	3.7	3.9	94.9	5.2	2.5	48.1
81.5	15.20	1,395	-----	7	13.2	-----	53	3.7	3.8	97.4	5	2.4	48
80.9	15.17	1,465	-----	8	14.1	-----	56.7	3.75	3.75	100	5.2	2.5	48.1
79.3	15.27	1,365	-----	7	13.1	-----	53.4	3.55	3.65	97.1	4.8	2.5	52.1
82.2	15.10	1,395	-----	7.2	13.6	-----	52.9	3.9	4.2	92.9	5.3	2.7	50.9
82.4	14.97	1,370	11.3	7	13.7	82.6	51.1	3.75	3.95	94.9	5	2.1	42
80.5	14.87	1,360	11.1	7.3	13.7	81	53.3	3.6	3.9	92.3	4.9	2.1	42.9
80.8	15.07	1,340	-----	6.9	13.1	-----	52.7	3.5	3.9	89.7	4.9	2.5	51
77.3	15.30	1,390	-----	7.4	13.5	-----	54.8	3.55	3.7	95.9	5	2.4	48
81.6	14.83	1,310	-----	7.0	13.1	-----	53.4	3.40	3.80	89.5	4.6	2.1	45.6
78.5	14.67	1,300	11.4	7.1	13.0	87.7	54.6	3.60	3.80	94.7	4.8	2.4	50.0
82.9	14.57	1,335	-----	6.7	13.3	-----	50.4	3.40	3.70	91.9	4.7	2.2	46.8
80.0	14.93	1,290	11.1	7.0	13.3	88.5	52.6	3.80	3.90	97.4	4.9	2.3	46.9
78.7	14.63	1,265	-----	6.9	13.1	-----	52.7	3.50	3.70	94.6	4.9	2.2	44.9
78.7	15.23	1,600	11.3	6.7	13.5	83.7	49.6	3.50	3.70	94.6	4.9	2.5	51.0
80.5	15.57	1,450	-----	7.3	14.7	-----	49.7	3.70	4.00	92.5	5.3	2.55	48.1

\* Actual measurement, 18.4; 2 millimeters deducted because of a pronounced occipital protuberance.

## California Indian crania, Santa Cruz Island—Continued

## MALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxin. (glabella ad maximum)	Diam. lateral maxin.	Basion-Bregma height	Cranial Index
241, 999	U. S. N. M.	Santa Cruz Island.	Near adult		18.4	15.3	13.2	88.2
242, 053	do	do	do					
241, 915	do	do	do		18		13	
Totals					(66) 1,197.90	(65) 914.80	(64) 836	(65)
Averages					18.16	14.07	13.06	77.5
Minima					17	13	12.3	71.9
Maxima					19.2	15.3	14.2	88.2

## FEMALE

242, 048	U. S. N. M.	Santa Cruz Island.	Adult		17.8	13	12.8	73
241, 994	do	do	do		17.9	13.1	12.2	73.2
242, 244	do	do	do		17.7	13.0	12.1	73.4
241, 955	do	do	do		17.0	12.6	12.0	74.1
242, 041	do	do	do		17.9	13.3	12.2	74.3
242, 037	do	do	do		18.0	13.4	12.6	74.4
241, 926	do	do	do		18.1	13.5	12.4	74.6
241, 968	do	do	do		17.4	13.0	13.0	74.7
241, 937	do	do	do		17.9	13.4	13.2	74.9
241, 984	do	do	do		17.2	13.0	12.2	75.6
241, 981	do	do	do		17.8	13.5	12.2	75.8
241, 928	do	do	do		17.8	13.5	12.4	75.8
241, 982	do	do	do		17.4	13.2	12.6	75.9
242, 064	do	do	do		17.4	13.3	12.1	76.4
242, 027	do	do	do		17.0	13.0	11.4	76.5
242, 001	do	do	do		17.0	13.0	12.4	76.5
242, 035	do	do	do		17.6	13.5	13.0	76.7
242, 011	do	do	do		17.7	13.6	12.1	76.8
242, 007	do	do	do		17.3	13.3	12.9	76.9
241, 920	do	do	Very near adult.		16.9	13.0	11.6	76.9
242, 228	do	(Santa Rosa Island)	Adult		17.4	13.4	12.6	77.0
241, 925	do	Santa Cruz Island.	do		17.4	13.4	12.8	77.0
242, 000	do	do	do		17.8	13.7	12.4	77.0
241, 987	do	do	do		17.0	13.1	12.3	77.1
242, 005	do	do	do		17.2	13.3	12.4	77.3
241, 973	do	do	do		17.3	13.4	12.4	77.5
241, 929	do	do	do		17.8	13.8	12.2	77.5
242, 026	do	do	do		17.0	13.2	13.1	77.6
241, 948	do	do	do		17.5	13.6		77.7
241, 992	do	do	Very near adult.		17.1	13.3	12.8	77.8
242, 029	do	do	do		17.6	13.7	12.8	77.8
243, 939	do	do	Adult		17.2	13.4	12.6	77.9
241, 970	do	do	do		16.9	13.2	11.9	78.1
241, 985	do	do	do		17.9	14	12.5	78.2
241, 932	do	do	do		17.4	13.6	12.4	78.2
241, 996	do	do	do		16.6	13	13.3	78.3
242, 036	do	do	do		16.7	13.1	12.2	78.4
241, 951	do	do	do		16.8	13.2	12.4	78.6
241, 986	do	do	do		17.3	13.6	13	78.6
241, 975	do	do	do		17	13.4	12.6	78.8
242, 016	do	do	do		17.5	13.8	12.8	78.9
242, 054	do	do	do		17.7	14	12.6	79.1
242, 059	do	do	do		16.9	13.4	13	79.3
242, 044	do	do	do		17.4	13.8		79.3
241, 972	do	do	do		17.4	13.8	12.4	79.3
241, 989	do	do	do		17.5	13.9	12.6	79.4
241, 923	do	do	do		16.6	13.2	12.7	79.5
242, 008	do	do	do		16.6	13.2	12.8	79.5
242, 274	do	do	Very near adult.		17.6	14.0	12.9	79.6
242, 033	do	do	Adult		16.9	13.5	12.8	79.9
241, 990	do	do	do		16.9	13.5	12.6	79.9
241, 962	do	do	do		17.4	13.9	12.6	79.9
242, 052	do	do	do		18	14.4	12.2	80

1 Naso-frontal suture very irregular.

## California Indian crania, Santa Cruz Island—Continued

## MALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
78.3	15.63	1,670	12.2	6.6 7.5 6.9	14.2	---	46.5	3.75 3.75	3.95 3.85	94.9 97.4	4.7 5.4	2.3 2.3	48.9 42.6
(63)	(63)	(57)	(13)	(67)	(59)	(12)	(59)	(65)	(65)	(65)	(66)	(66)	(66)
81.1	951.17	79,440	149.60	477.40	805.50	85	52.3	229.05	248.92	92	332.50	157.55	2.39
75.5	16.10	1,394	11.51	7.12	13.65	85	52.3	3.52	3.83	92	5.04	2.39	47.4
86.1	14.23	1,175	10.9	6.6	12.8	77.9	46.5	3.05	3.6	82	4.4	2.1	59.8
	15.80	1,670	12.5	8	14.7	94	57.9	3.9	4.2	100	5.6	2.7	64.4

## FEMALE

83.1	14.53	1,300	---	6.9	12.9	---	53.5	3.4	3.8	89.5	4.6	2.3	60
78.7	14.40	1,235	---	6.4	12.6	---	50.8	3.20	3.50	91.4	4.6	2.4	52.2
78.8	14.27	1,290	---	6.6	13.0	---	50.8	3.50	3.80	92.1	4.5	2.3	51.1
81.1	13.87	1,050	---	6.2	12.2	---	50.8	3.25	3.50	92.9	4.2	2.2	52.4
78.2	14.47	1,255	---	6.4	12.9	---	55.8	3.60	3.60	100	4.8	2.2	45.8
80.2	14.67	1,290	10.8	7.2	12.9	83.7	54.0	3.40	3.60	94.4	4.5	2.3	51.1
78.5	14.67	1,205	---	6.8	12.6	---	48.8	3.30	3.55	92.8	4.6	1.9	41.3
86.5	14.47	1,275	---	6.4	13.1	---	53.7	3.30	3.60	91.7	4.5	2.2	48.9
84.4	14.83	1,310	10.3	6.5	12.1	85.1	51.2	3.17	3.70	85.7	4.65	2.3	45.5
80.8	14.13	1,210	---	6.3	12.3	---	54.6	3.40	3.70	91.9	4.8	2.4	80
78	14.50	1,210	---	7.1	13.0	---	50	3.50	3.60	97.2	4.4	2.45	55.7
79.2	14.57	1,220	10.8	6.4	12.8	84.4	50	3.67	3.70	99.2	4.9	2.3	46.9
82.4	14.40	1,160	---	6.5	13.1	---	53	3.40	3.70	91.9	4.7	2.3	48.9
78.8	14.27	1,200	---	6.2	11.7	---	53	3.40	3.50	97.1	4.3	2.3	53.5
76	13.80	1,110	---	6.4	11.9	88.2	53.8	3.40	3.60	94.4	4.4	2.1	47.7
82.7	14.13	1,240	10.5	6.6	13.1	---	60.4	3.60	3.80	94.7	4.6	2.4	52.2
83.6	14.70	1,240	---	6.6	12.5	---	52.8	3.10	3.70	83.8	4.7	2.45	52.1
77.3	14.47	1,280	---	6.6	12.5	---	52.8	3.65	3.65	100	4.7	2.3	48.9
84.3	14.50	1,205	---	6.0	11.9	---	50.4	3.10	3.60	86.1	4.6	2.4	52.2
77.6	13.83	1,090	---	6.8	13.2	84.8	51.5	3.47	3.95	87.8	4.8	2.5	52.1
81.8	14.47	1,220	11.2	6.5	12.4	---	52.4	3.30	3.75	88.0	4.5	2.2	48.9
83.1	14.53	1,280	---	6.3	12.3	---	51.2	3.25	3.50	92.9	4.4	2.1	47.7
78.7	14.63	1,260	---	7.0	12.9	---	54.3	3.63	3.70	98.1	4.7	2.4	51.1
81.7	14.13	1,150	---	6.0	12.5	---	48	3.15	3.60	87.5	4.3	2.3	53.5
81.3	14.30	1,280	---	6.4	12.1	---	52.9	3.40	3.60	94.4	4.4	2.15	48.9
80.8	14.37	1,220	---	5.9	12.0	83.3	49.2	3.00	3.40	88.2	4.3	2.1	48.8
77.2	14.60	1,300	10.0	6.5	12.1	---	53.7	3.20	3.50	91.4	4.6	1.9	41.3
86.8	14.43	---	---	6.5	12.1	---	56	3.10	3.70	83.8	4.4	2.2	50
84.2	14.40	1,275	---	7.0	12.5	---	56	3.55	3.57	99.4	5.1	2.6	51
81.8	14.70	1,345	---	6.4	12.7	---	50.4	3.40	3.80	89.5	4.8	2.15	44.8
82.4	14.40	1,280	---	6.7	12.6	---	53.2	3.40	3.70	91.9	4.8	2.30	47.9
79.1	14.00	1,085	---	6.1	12.9	---	47.3	3.33	3.6	92.5	4.6	2.35	51.1
78.4	14.80	1,260	---	6.8	13.2	---	51.5	3.5	3.7	94.6	4.8	2.6	54.2
80	14.47	1,200	11.5	7	13.2	87.1	53	3.5	3.9	89.7	4.6	2.6	56.5
89.9	14.30	1,200	---	6.7	12.5	---	53.6	3.4	3.7	91.9	4.65	2.4	51.6
81.9	14.00	1,090	---	6.8	12.8	---	53.1	3.3	3.6	91.7	4.9	2.5	51
82.7	14.13	1,210	---	6.8	12.6	---	54	3.35	3.55	94.4	4.9	2.25	45.4
84.1	14.63	1,290	---	6.5	13	---	50	3.63	3.75	96.3	4.5	2.6	57.8
82.9	14.33	1,170	---	7.1	12.6	---	56.4	3.4	3.7	91.9	4.8	2.4	50
81.8	14.70	1,145	---	6.6	11.9	---	55.5	3.4	3.4	100	4.6	2.1	46.6
79.5	14.77	1,300	---	6.5	13	---	50	3.4	3.7	91.9	4.75	2.55	53.7
86.8	14.43	---	---	7.6	13.0	---	58.5	3.4	3.65	93.2	4.6	2.3	50
79.5	14.53	1,315	---	6.7	13.0	---	48.5	3.50	3.60	97.2	5.0	2.2	44.0
80.2	14.67	1,200	2.0	6.3	13.0	---	53.5	3.48	3.65	95.3	4.6	2.2	47.8
85.2	14.17	1,230	---	6.8	12.7	---	52.4	3.40	3.70	91.9	4.9	2.3	46.9
85.9	14.20	1,270	---	6.6	12.6	---	52.4	3.50	3.80	92.1	4.8	2.3	47.9
81.6	14.83	1,430	---	6.7	12.6	---	53.2	3.60	3.70	97.3	5.0	2.3	46.0
84.2	14.40	1,190	---	6.7	12.2	---	54.9	3.25	3.5	92.9	4.4	2.4	54.6
82.9	14.33	1,170	---	6.4	13.1	---	48.8	3.5	3.8	92.1	4.5	2.5	55.6
80.5	14.63	1,250	11.2	7	13.1	86.5	54.6	3.5	3.9	89.7	4.7	2.3	48.1
76.3	14.87	1,270	---	7.1	13	---	54.6	3.5	3.8	92.1	5	2.5	50

2 Part broken; measurement approximate.

## California Indian crania, Santa Cruz Island—Continued

## FEMALE—Continued

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,061	U. S. N. M.	Santa Cruz Island	Adult		17.2	13.8	13.1	80.2
241,965	do	do	do		17.2	13.8	12.4	80.2
241,980	do	do	do		17.4	14	12.8	80.5
241,936	do	do	do		17	13.7	12.8	80.6
242,040	do	do	do		17.1	13.8	12.6	80.7
242,055	do	do	Senile or near.		16.7	13.5	12.6	80.8
241,917	do	do	Adult		17.4	14.1	13.1	81
241,977	do	do	do		16.5	13.4	12.6	81.2
241,922	do	do	Senile		17.0	13.8	12.2	81.2
241,993	do	do	Adult		16.6	13.5	12.1	81.3
242,038	do	do	do		16.6	13.5	11.8	81.3
241,063	do	do	do		17.2	14	12.2	81.4
241,991	do	do	do		17.2	14	12.7	81.4
242,063	do	do	do		17	13.9	12.6	81.4
242,022	do	do	do		16.5	13.6	12.1	82.4
241,974	do	do	do		17.6	14.6	12.4	83
Totals					(69)	(69)	(67)	(69)
Averages					1,192.30	932	838.20	
Minima					17.23	13.51	12.51	73.2
Maxima					16.5	12.6	11.4	73
					18.1	14.6	13.3	83

1 Right side of skull damaged; measurement approximate.

## California Indian crania, San Miguel Island

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,276	U. S. N. M.	San Miguel Island	Adult		18.5	14		75.7
242,251	do	do	do		18.2	13.9		76.4
242,310	do	do	do		18.5	14.2	12.3	76.8
242,262	do	do	do		18.7	14.4		77
242,297	do	do	do		17.8	13.8	13	77.5
242,317	do	do	do		17.6	13.9	12.5	79
242,275	do	do	do		17.3	14.1	12.6	81.5
242,307	do	do	do	Slight occipital flattening.	17.6	14.7	12.2	82.5
242,257	do	do	do					
242,314	do	do	do					
242,313	do	do	do				12.6	
Totals					(8)	(8)	(6)	(8)
Averages					144.20	113	75.20	
Minima					18.08	14.12	12.53	78.4
Maxima					17.3	13.8	12.2	75.7
					18.7	14.7	13	83.5

## California Indian crania, Santa Cruz Island—Continued

FEMALE—Continued

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
84.5	14.70	1,300	11	6.7				3.3	3.6	91.7	4.8	2.3	47.9
80	14.47			6.1	12.8		47.7	3.3	3.6	91.7	4.3	2.3	55.5
81.5	14.73	1,230		6.2				3.6	3.7	97.5	4.9	2.15	43.9
83.4	14.50	1,250			12.9			3.8	3.7	102.7	4.9	2.1	42.9
81.6	14.50	1,300		6.5	12.5		52	3.4	3.6	94.4	4.7	2.1	44.7
83.4	14.27	1,240			13.7			3.55	3.6	98.6	4.9	2.25	45.4
82.2	14.87	1,240		7	12.6		55.6	3.45	3.45	100	4.9	2.3	46.9
84.3	14.17	1,090		6.9	12.6		54.8	3.30	3.60	91.7	4.8	2.3	47.9
79.2	14.33	1,150						3.30	3.60	91.7	4.5	2.1	46.7
80.4	14.07	1,180		6.8	12.6		54	3.45	3.65	94.5	4.9	2.1	42.9
78.4	13.97	1,090		6.9	12.6		54.8	3.50	3.60	97.2	4.6	2.4	52.2
78.2	14.47	1,285	10	6	13.2	75.8	45.4	3.15	3.6	87.5	4.2	2.3	54.8
87.4	14.63	1,300		6.8	12.5		54.4	3.5	3.7	94.6	4.8	2.3	47.9
81.6	14.50	1,230		6.9				3.3	3.8	86.8	4.6	2.2	47.8
80.4	14.07	1,200		6.4	12.5		51.2	3.5	3.45	101.5	4.6	2.2	47.8
77	14.87	1,325	11.1	6.8	13.2	84.1	51.5	3.47	3.57	97.2	4.7	2.3	48.9
(67)	(67)	(66)	(11)	(63)	(60)	(10)	(67)	(68)	(68)	(68)	(68)	(68)	(68)
	966.75	81,250	118.40	416.50	760.20			231.40	248.29		316.45	155.95	
81.3	14.43	1,231	10.76	6.61	12.67	84.2	52.3	3.40	3.65	93.2	4.65	2.29	49.3
75.3	13.80	1,050	10	5.9	11.7	75.8	45.4	3	3.4	83.8	4.2	1.9	41.3
89.9	14.87	1,430	11.5	7.6	13.7	88.2	58.5	3.8	3.95	102.7	5.1	2.6	57.8

## California Indian crania, San Miguel Island

MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
		1,460		6.9	13.4		51.5	3.55	3.9	91	4.8	2.2	45.8
		1,380		7.3	13.3		54.9	3.7	3.8	97.4	5.2	2.3	44.2
75.2	15.00	1,510	12	7.3	13.9	86.3	52.5	3.9	4	97.5	5	2.4	48
82.3	14.87	1,330		7.4	13.6		54.4	3.6	4	90	5	2.2	44
79.4	14.67				12.8								
80.2	14.67	1,380		6.9	13.1		52.7	3.35	3.65	91.8	4.8	2.1	43.8
75.5	14.83	1,365		6.4	13.8		46.4	3.5	3.8	92.1	4.7	2.2	46.8
				7.2	13.9		51.8	3.5	3.8	92.1	5.1	2.4	47.1
				7.2	13.2		54.6	3.7	3.85	95.6	5	2.5	50
								3.7	4	92.5	4.6	2.4	52.2
(5)	(5)	(6)		(8)	(9)		(8)	(9)	(9)	(9)	(9)	(9)	(9)
	74.04	8,425		56.60	121			32.50	34.80		44.20	20.70	
78.5	14.81	1,404		7.07	13.44		52.3	3.61	3.87	93.4	4.91	2.3	46.8
75.2	14.67	1,330		6.4	12.8		46.4	3.35	3.65	90	4.6	2.1	43.8
82.3	15.00	1,510		7.4	13.9		54.9	3.9	4	97.5	5.2	2.5	52.2

## California Indian crania, San Miguel Island—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,309	U. S. N. M.	San Miguel Island.	Adult		17.6	13.5	12.8	76.7
242,270	do	do	do		17.8	13.8	12.8	77.5
242,268	do	do	do		17.2	13.4	12	77.9
242,315	do	do	do		17.2	13.4	12.4	77.9
242,316	do	do	do		17.5	13.7	12.7	78.5
242,250	do	do	do		17.5	13.8		78.9
242,264	do	do	do		17.4	13.8	12.4	79.3
242,271	do	do	do		17.3	13.8	12.6	79.8
242,249	do	do	do		17.4	14	12.2	80.5
242,311	do	do	do		16.6	13.5	12.2	81.5
242,318	do	do	do		17.2	14.1	13.1	83
242,272	do	do	do		16.8	14	12.5	83.5
242,249	do	do	do		16.8	14.2	13	84.5
242,260	do	do	do		17.6		13.1	
Totals					(14) 241.90	(13) 179	(13) 163.80	(13) 79.8
Averages					17.28	15.77	12.60	79.8
Minima					16.6	13.4	12	76.7
Maxima					17.8	14.2	13.1	84.5

<sup>1</sup> Measurement approximate.

## California Indian crania, Santa Rosa Island

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242,230	U. S. N. M.	Santa Rosa Island.	Near senile		18.4	13.4	13.2	72.8
242,207	do	do	Adult		18.3	13.9	12.8	76
242,214	do	do	do		18.4	14	13.1	76.1
242,237	do	do	do		17.7	13.5	13.3	76.3
242,208	do	do	do		17.6	13.6	12.8	77.3
242,204	do	do	do		17.9	13.9	13.3	77.6
242,220	do	do	do		18	14	12.9	77.8
146,189	do	do	do		18.2	14.4	12.8	79.1
242,216	do	do	do		17.9	14.2	12.8	79.5
242,240	do	do	do		17.6	14	12.8	79.6
242,199	do	do	do		17.6	14.1	13	80.1
242,232	do	do	do		17.8	14.3	12.2	80.3
242,218	do	do	do		17	13.7	13.2	80.6
242,219	do	do	do		18.1	14.6	12.9	80.7
242,233	do	do	do		17.7	14.3	13.5	80.8
242,197	do	do	do		17.4	14.1	12.8	81
242,210	do	do	do	Very slight asymmetry.	17.6	14.5	12.5	82.4
242,225	do	do	do	do	18	14.9	13.3	82.8
242,200	do	do	do					
242,209	do	do	do		18.1		13.2	
242,221	do	do	do	Very slight asymmetry.	18.8		14	
242,247	do	do	do					
Totals					(20) 358.10	(18) 253.40	(20) 260.40	(18) 78.9
Averages					17.90	14.08	13.02	78.9
Minima					17	13.4	12.2	72.8
Maxima					18.8	14.9	14	82.8



## California Indian crania, San Miguel Island—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.3	14.63	1,390	-----	6.6	12.6	-----	52.4	3.5	3.65	95.9	4.5	2	44.4
81	14.80	1,345	-----	6.7	12.6	-----	53.2	3.3	3.7	89.2	4.7	2	42.6
78.4	14.20	1,190	-----	6.5	12.5	-----	52	3.3	3.65	90.9	4.7	2.1	44.7
81	14.33	1,265	-----	6.6	-----	-----	-----	3.35	3.6	93.1	4.5	2.3	51.1
81.4	14.63	1,250	-----	6.6	12.6	-----	52.4	3.4	3.7	91.9	4.6	2.4	52.2
-----	-----	-----	-----	-----	-----	-----	-----	3.6	4	90	4.8	2.4	50
79.6	14.53	-----	-----	6.5	12.9	-----	50.4	3.3	3.6	91.7	4.4	2.1	47.7
81	14.57	1,310	-----	6.7	-----	-----	-----	3.5	3.8	92.1	4.7	2.3	48.9
77.7	14.53	1,340	10.2	6.1	12.7	80.3	48	3.15	3.8	82.9	4.5	2.5	55.6
81.1	14.10	1,190	-----	6.5	12.4	-----	52.4	3.4	3.6	94.4	4.6	1.9	41.3
83.7	14.80	1,365	-----	6.9	12.7	-----	54.3	3.4	3.7	91.9	4.7	2.2	46.8
81.2	14.43	1,245	-----	6.7	12.4	-----	54	3.5	3.7	94.6	4.6	2.1	45.6
83.9	14.67	1,340	10.2	6.1	12.7	80.3	48	3.15	3.8	82.9	4.5	2.5	55.6
-----	-----	-----	-----	6.5	-----	-----	-----	3.35	3.8	88.2	4.5	2.2	48.9
(12)	(12)	(11)	(2)	(13)	(10)	(2)	(10)	(14)	(14)	(14)	(14)	(14)	(14)
-----	174.22	14,230	20.4	85	126.10	-----	-----	47.20	52.10	-----	64.30	31	-----
81	14.52	1,294	10.2	6.54	12.61	80.3	51.7	3.37	3.72	90.6	4.69	2.21	48.2
77.7	14.10	1,190	-----	6.1	12.4	-----	48	3.15	3.6	82.9	4.4	1.9	41.3
83.9	14.80	1,390	-----	6.9	12.9	-----	54.3	3.6	4	85.9	4.8	2.5	55.6

## California Indian crania, Santa Rosa Island

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
83	15.00	1,345	-----	-----	13.4	-----	-----	3.45	4	86.2	4.7	2.3	48.9
79.6	15.00	1,400	-----	7.1	-----	-----	-----	3.75	4.20	89.3	5	2.3	46
80.9	15.17	1,395	-----	7.8	14.2	-----	54.9	3.7	3.83	96.6	5.8	2.6	44.8
85.3	14.83	1,370	-----	6.8	13.7	-----	49.6	3.4	3.8	89.5	5	2.5	50
82	14.67	1,345	11.5	6.9	13.6	84.6	50.7	3.8	3.9	97.4	5	2.25	45
83.6	15.03	1,500	11.3	6.8	13.6	83.1	50	3.15	3.75	84	4.5	2.4	53.3
80.6	14.97	1,540	-----	7.2	13.8	-----	52.2	3.6	4	90	5.1	2.3	45.1
78.6	15.13	1,400	-----	7	13.6	-----	51.2	3.55	3.6	98.6	4.8	2.5	52.1
79.8	14.97	1,340	11.4	7.1	-----	-----	-----	3.35	3.8	88.2	5	2.3	46
81	14.80	1,320	-----	7	13.1	-----	53.4	3.45	3.7	93.2	4.9	2.5	51
82	14.90	1,340	11.2	6.9	12.5	89.6	55.2	3.45	3.55	96.0	4.7	2.2	46.8
76	14.77	1,380	-----	7	13.3	-----	52.6	3.35	4	83.8	5.1	2.6	51
86	14.63	1,365	11.9	7	14.1	84.4	49.6	3.7	3.9	94.9	4.9	2.3	46.9
78.9	15.20	1,520	12.5	7.6	14.6	85.6	52.1	3.7	4.05	91.4	5.2	2.5	48.1
84.4	15.17	1,450	11.2	7.1	13.1	85.6	54.2	3.5	3.9	89.7	4.9	2.1	42.9
81.3	14.77	1,390	11.5	6.8	13.4	85.8	50.8	3.45	3.8	90.8	4.9	2	40.8
77.9	14.87	1,470	-----	7.1	13.2	-----	53.8	3.52	3.8	92.6	5.1	2.4	47.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
80.9	15.40	1,500	11.4	7	-----	-----	-----	3.65	3.95	92.4	4.9	2.4	49
-----	-----	-----	-----	7.1	-----	-----	-----	3.4	3.68	93	5	2.4	48
-----	-----	-----	12.1	7.5	14	86.4	53.6	3.55	4	88.8	5.3	2.5	47.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.9	2.5	51
-----	-----	-----	-----	7	-----	-----	-----	3.55	3.7	95.9	5	2.1	42
(18)	(18)	(18)	(10)	(20)	(16)	(8)	(15)	(21)	(21)	(21)	(22)	(22)	(22)
-----	269.28	25,370	116	141.80	217.20	-----	-----	74.02	80.91	-----	109.70	51.95	-----
81.2	14.96	1,409	11.6	7.09	13.67	85.6	52.3	3.62	3.85	91.5	5	2.36	47.4
76	14.63	1,320	11.2	6.8	12.5	83.1	49.6	3.15	3.55	83.8	4.5	2	40.8
86	15.40	1,540	12.5	7.8	14.6	89.6	55.2	3.8	4.2	98.6	5.8	2.6	53.3

## California Indian crania, Santa Rosa Island—Continued

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242, 223	U. S. N. M.	Santa Rosa Island	Adult		18.2	13.9	12.2	76.4
242, 205	do	do	do		17.6	13.8	12.5	78.4
242, 196	do	do	do		16.8	13.2	12.6	78.6
242, 202	do	do	do		17.3	13.6	12.1	78.6
242, 213	do	do	do		17.2	13.6	12	79.1
242, 194	do	do	do		17.2	13.7	12.7	79.6
242, 241	do	do	do		17.6	14	12.8	79.6
242, 195	do	do	do		18	14.4	12.4	80
242, 231	do	do	do		17.5	14	12	80
242, 217	do	do	do		16.7	13.4	12.8	80.2
242, 234	do	do	do		17.2	13.9	13	80.8
242, 245	do	do	do		16.8	13.6	12.1	81
242, 215	do	do	do		17	13.8	13	81.2
242, 203	do	do	do		17.1	13.9	12.4	81.3
242, 227	do	do	do		16.3	13.4	12.1	82.2
242, 226	do	do	do		17	14.1	12	82.9
242, 211	do	do	do		17.4	14.5	13.1	83.3
242, 198	do	do	do		17	14.2	12.4	83.5
242, 224	do	do	do		16.4	13.9	12	84.8
242, 222	do	do	do		16.8		11.6	
242, 229	do	do	do		16.7			
242, 246	do	do	do		17.3			
242, 248	do	do	do		18		12.3	
Totals					(23) 395.10	(19) 262.90	(21) 260.10	(19) 80.6
Averages					17.18	13.84	12.39	80.6
Minima					16.3	13.2	11.6	76.4
Maxima					18.2	14.5	13.1	84.8

<sup>1</sup> Part damaged; measurement approximate.

## Southern California Indian crania

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
225, 013	U. S. N. M.	Tule River	Adult		18.1	13.45	13	74.3
242, 288	do	San Luis Obispo Bay	do		17.8	14.2		79.8
242, 293	do	do	do					
Totals					(2) 35.9	(2) 27.65		(2) 77
Averages					17.95	13.82		77

## FEMALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
242, 286	U. S. N. M.	San Luis Obispo Bay	Adult		18.2	14.1	13	77.5
242, 279	do	do	do	Very slight occipital compression.	17	13.2	12.4	77.6
242, 293	do	do	do		16.8	13.1		78
242, 290	do	do	do		17	13.4		78.8
242, 284	do	do	do		17.6	14	13.4	79.6
242, 282	do	do	do		17.2	13.8	12.6	80.2
242, 292	do	do	do		17.2	14.1		82
Totals					(7) 121	(7) 95.70	(4) 51.40	(7) 79.1
Averages					17.29	13.67	12.85	79.1

<sup>1</sup> Part damaged; measurement approximate.

## California Indian crania, Santa Rosa Island—Continued

## FEMALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
76.	14.77	1,440	11.2	6.9	-----	-----	-----	3.5	3.77	92.9	4.9	2.3	46.9
79.6	14.63	1,265	11.5	7.5	12.9	89.2	58.1	3.5	3.8	92.1	4.9	2.3	46.9
84	14.20	1,160	10.3	6.3	12.4	83.1	50.8	3.2	3.6	88.9	4.4	2.15	48.9
78.3	14.33	1,295	-----	6.9	12.9	-----	53.5	3.7	3.75	98.7	4.7	2.2	46.8
77.9	14.27	1,225	-----	6.8	12.5	-----	54.4	3.7	3.55	95.9	4.7	1.95	41.5
82.2	14.53	1,325	11.3	6.8	13	86.9	52.3	3.65	3.85	94.8	4.7	2.3	48.9
81	14.80	1,340	10.1	6.3	13.1	77.1	48.1	3.7	3.8	97.4	4.9	2.3	46.9
76.5	14.93	1,480	10.7	6.7	13.2	81.1	50.8	3.3	3.6	91.7	4.8	2.2	45.8
76.2	14.50	1,295	-----	-----	13	-----	-----	-----	-----	-----	4.5	2.3	51.1
85	14.30	1,270	10.9	6.7	12.6	86.5	53.2	3.5	3.7	94.6	4.6	1.8	39.1
83.6	14.70	1,370	11.8	7.2	-----	-----	-----	3.6	3.8	94.7	4.8	2.5	52.1
79.6	14.17	1,220	10.6	6.9	12.4	85.6	55.6	3.62	3.7	97.8	5	2.2	44
84.4	14.00	1,230	11.7	7.3	12.6	92.9	57.9	3.35	3.6	93.1	4.8	2.2	45.8
80	14.47	1,225	11.5	7.3	12.2	94.3	59.8	3.55	3.55	100	4.9	2.2	44.9
81.5	13.93	1,160	-----	6.2	12.3	-----	50.4	3.15	3.60	87.6	4.2	1.9	45.2
77.2	14.33	1,250	10.3	6.6	12.9	79.8	51.2	3.4	3.65	93.2	4.7	2	42.6
82.1	15.00	1,390	10.2	6.8	13	78.6	52.3	3.4	3.7	91.9	4.9	2.2	44.9
79.5	14.53	1,250	-----	6.8	12.8	-----	45.3	3.3	3.65	90.4	4.1	2.1	51.2
79.2	14.10	1,240	-----	6.2	12	-----	51.7	3.5	3.6	97.2	4.5	2.3	51.1
-----	-----	-----	10.5	6.3	12.9	81.4	48.8	3.5	3.9	89.7	4.2	2	47.6
-----	-----	-----	11	6.7	-----	-----	-----	3.5	3.7	94.6	4.7	2.4	51.1
-----	-----	-----	-----	6.6	12.7	-----	52	-----	-----	-----	4.6	2.3	50
(19)	(19)	(19)	(15)	(21)	(19)	(12)	(18)	(20)	(20)	(20)	(22)	(22)	(22)
-----	275.09	24,490	163.60	140.80	241.40	-----	-----	69.47	74.02	-----	102.50	48.10	-----
80.2	14.48	1,289	10.91	6.70	12.70	84.6	52.5	3.47	3.7	93.8	4.66	2.19	46.9
76	13.93	1,160	10.1	5.8	12	77.1	45.3	3.15	3.55	87.6	4.1	1.8	39.1
85	15.00	1,480	11.8	7.5	13.2	94.3	59.8	3.7	3.9	100	5	2.5	52.1

## Southern California Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Height, mean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
82.4	14.85	1,255	-----	7.3	12.5	-----	58.4	3.55	3.82	92.9	5.1	2.75	53.9
-----	-----	-----	12.6	7.8	-----	-----	-----	3.7	3.85	96.1	5.7	2.2	58.6
-----	-----	-----	-----	(2)	-----	-----	-----	(2)	(2)	(2)	(2)	(2)	(2)
-----	-----	-----	-----	15.1	-----	-----	-----	7.25	7.67	-----	10.8	4.95	-----
-----	-----	-----	-----	7.56	-----	-----	-----	3.62	3.83	94.5	5.4	2.47	45.8

## FEMALE

80.5	15.10	-----	-----	6.5	12.7	-----	51.2	3.2	3.7	86.5	4.6	2.4	52.2
82.1	14.20	1,230	-----	6	12.6	-----	47.6	3.1	3.5	88.6	4.1	2.1	51.2
-----	-----	-----	-----	6.8	12.6	-----	47.6	3.25	3.55	91.5	4.45	2.3	51.7
84.8	15.00	1,390	-----	6.6	12.8	-----	51.6	3.2	3.5	91.4	4.8	2.3	47.9
81.3	14.53	1,265	-----	6.4	13.2	-----	48.5	3.5	3.5	100	4.7	2.6	55.3
-----	-----	1,410	-----	6.8	-----	-----	-----	-----	-----	-----	4.75	2.5	52.6
(4)	(4)	(5)	-----	(6)	(5)	-----	(5)	(5)	(5)	(5)	(6)	(6)	(6)
-----	58.83	6,525	-----	39.10	63.90	-----	-----	16.25	17.75	-----	27.40	14.20	-----
82.2	14.71	1,305	-----	6.52	12.78	-----	50.5	3.25	3.55	91.5	4.57	2.37	51.8

*Lower California Indian crania*

## MALE

Catalogue No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index
148,213	U. S. N. M.	Espiritu Santo Island.	Adult	-----	19.3	13	13	67.4
139,573	do.	Angel Island	do.	-----	18.2	13.1	13	72
139,570	do.	do.	do.	-----	18.8	13.9	13.2	73.9
Totals					(3)	(3)	(3)	(3)
Averages					18.77	13.33	13.07	71

## FEMALE

139,571	U. S. N. M.	Angel Island	Adult	-----	17.7	13.5	13	76.3
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## Lower California Indian crania

## MALE

Mean Height Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Orbits—Heightmean	Orbits—Breadth, mean	Orbital Index, mean	Nose, Height	Nose, Breadth maxim.	Nasal Index
80.5	15.10	1,420	11.6	7.2	-----	-----	-----	3.50	3.85	90.9	5.2	2.6	50
83.1	14.77	1,395	-----	7.3	13.8	-----	52.9	3.55	3.7	95.9	5.2	2.6	50
80.7	15.30	1,460	11.4	7	13.9	82	50.4	3.5	3.7	94.6	5.2	2.7	51.9
(3)	(3)	(3)	(2)	(3)	(2)	-----	(2)	(3)	(3)	(3)	(3)	(3)	(3)
81.4	15.06	1,425	11.5	7.17	13.85	-----	51.6	3.52	3.75	93.8	5.2	2.63	50.6

## FEMALE

88.3	14.73	1,315	-----	6.5	12.9	-----	50.4	3.4	3.6	94.4	4.8	2.8	58.3
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## California and Lower California: Summary of measurements

## MALE

	North- ern Calif- ornia	Kon- kan (Mal- du)	San Fran- cisco Bay and vicinity	Santa Bar- bara County	San Nicolas Island	Santa Cruz Island	San Miguel Island	Santa Rosa Island	South- ern Calif- ornia	Lower Calif- ornia
Number of skulls.....	(4)	(4)	(31)	(48)	(11)	(66)	(9)	(22)	(2)	(3)
Vault:										
Length.....	18.06	18.5	18.23	17.94	18.75	18.15	18.02	17.90	17.95	18.77
Breadth.....	13.96	13.02	14.01	13.83	13.90	14.07	14.12	14.08	13.82	13.33
Height.....	13.09	12.8	13.66	13.17	12.96	13.06	12.53	13.02	13.02	13.07
Cranial Index.....	77.3	70.4	76.8	77.1	74.2	77.5	78.4	78.9	77	71
Mean Height Index.....	81.7	81.2	84.8	82.9	79.4	81.1	78.5	81.2	81.2	81.4
Module.....	15.04	14.78	15.29	15.02	15.20	15.10	14.81	14.96	14.96	15.06
Capacity.....	1,348	1,257	1,372	1,390	1,473	1,394	1,404	1,409	1,409	1,425
Face:										
M.-N. Height.....	11.95	-----	11.85	11.37	11.83	11.51	-----	11.6	-----	11.5
Alv. Pt.-N. Height.....	7.24	6.88	7.3	6.96	7.26	7.12	7.07	7.09	7.55	7.17
Breadth.....	13.6	-----	13.67	13.54	13.72	13.65	13.44	13.57	-----	13.85
Facial Index, total.....	86.6	-----	85.7	85.3	86.4	85	-----	85.6	-----	-----
Facial Index, upper.....	53.2	-----	53.2	51.3	53	52.3	52.3	52.3	-----	51.6
Orbits:										
Mean Height.....	3.47	3.35	3.46	3.45	3.6	3.52	3.61	3.52	3.62	3.52
Mean Breadth.....	3.89	3.8	3.84	3.83	3.91	3.83	3.87	3.85	3.83	3.75
Mean Index.....	89.4	88.2	90.2	89.6	91.7	92	93.4	91.5	94.5	93.8
Nose:										
Height.....	5.17	5.02	5.1	4.91	5.4	5.04	4.91	5	5.4	5.2
Breadth.....	2.35	2.36	2.46	2.38	2.51	2.39	2.3	2.36	2.47	2.63
Index.....	45.4	47	48.2	48.4	46.6	47.4	46.8	47.4	45.8	50.6

## FEMALE

	North- ern Calif- ornia	Kon- kan (Mal- du)	Mis- cel- lane- ous	San Fran- cisco Bay and vicinity	Santa Bar- bara County	Santa Cata- lina Island	San Nicholas Island	Santa Cruz Island	San Miguel Island	Santa Rosa Island	South- ern Calif- ornia
Number of skulls.....	(2)	(4)	(5)	(13)	(39)	(1)	(13)	(69)	(14)	(23)	(7)
Vault:											
Length.....	17.45	17.4	17.38	17.23	17.09	17.4	17.85	17.28	17.28	17.18	17.29
Breadth.....	13.9	13.32	13.78	13.37	13.41	13.40	13.88	13.51	13.77	13.84	13.67
Height.....	11.75	12.1	12.74	12.85	12.44	12.2	12.45	12.51	12.60	12.39	12.85
Cranial Index.....	79.7	76.6	79.3	77.6	78.5	77	77.9	78.2	79.8	80.6	79.1
Mean Height Index.....	75	78.8	81.8	84.3	81.5	79.2	78.2	81.3	81	80.2	82.2
Module.....	14.37	14.28	14.63	14.43	14.32	14.33	14.69	14.43	14.52	14.48	14.71
Capacity.....	1,237	1,229	1,297	1,167	1,204	-----	1,362	1,231	1,294	1,289	1,305
Face:											
M.-N. Height.....	-----	-----	10.6	11.14	10.43	-----	11.2	10.76	10.2	10.91	-----
Alv. P.-N. Height.....	6.85	6.18	6.82	6.72	6.47	7	6.67	6.61	6.54	6.70	6.52
Breadth.....	-----	12.6	13.17	12.88	12.62	13	12.88	12.67	12.61	12.7	12.78
Facial Index, total.....	-----	-----	-----	86.9	82.6	-----	86.2	84.2	80.3	84.6	-----
Facial Index, upper.....	-----	49	52	52.2	51.3	53.8	52.4	52.3	51.7	52.5	50.6
Orbits:											
Mean Height.....	-----	3.30	3.46	3.32	3.31	3.65	3.41	3.4	3.37	3.47	3.25
Mean Breadth.....	-----	3.62	3.78	3.79	3.69	4	3.79	3.65	3.72	3.7	3.55
Mean Index.....	-----	91	91.5	87.6	89.5	91.2	90.3	93.2	90.6	93.8	91.5
Nose:											
Height.....	4.97	4.55	4.96	4.77	4.56	5.55	4.93	4.65	4.59	4.66	4.57
Breadth.....	-----	2.49	2.44	2.37	2.33	2.35	2.42	2.29	2.21	2.19	2.37
Index.....	-----	54.7	49.2	49.3	51	42.3	49.1	49.3	48.2	46.9	51.8

## CALIFORNIAN AND LOWER CALIFORNIAN TRIBES

1. The material from California shows considerable uniformity. The type is characterized as follows:

The cephalic index ranges from dolicho- to meso-cephalic;

The height of the vault is medium to submedium;

In size the skull is rather small;

The face is of medium dimensions;

The orbits range about medium;

The nasal index is submedium to medium.

2. The Lower Californians differ only by higher dolichocephaly.

3. The Maidu also, as far as represented, show higher dolichocephaly.

4. In general the Californians here represented are plainly of one type, with here and there secondary variations.

5. This type appears to be practically identical with that of the Shoshoneans.

6. No traces of any extraneous (non-Indian) type are perceptible.

