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BULLETIN No. 59

ANTHROPOLOGICAL SERIES, No. 13

Anthropometry of the Cree and Saulteaux Indians in Northeastern Manitoba

BY

J. C. Boileau Grant



OTTAWA
F. A. ACLAND
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
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ANTHROPOMETRY OF THE CREE AND SAULTEAUX INDIANS IN NORTHEASTERN MANITOBA

INTRODUCTION

This is the report of a study, made in the summer of 1927, of the physical characteristics of the Indians in the neighbourhood of Island lake, Gods lake, and Oxford House, all in Manitoba northeast of lake Winnipeg (See Figure 1). The investigation was made for the Division of Anthropology with the primary object of obtaining a record of the physical proportions these bands of Indians possess at the present time.

It is for several reasons to be regretted that but little active interest has, in the past, been taken in the anthropometry of the Indians of the north. If, indeed, we would compare the proportions of this series of Indians with those of the nearest bands on which extensive observations have been made, we must turn to the excellent paper on "Anthropometry of the Siouan Tribes" by the late Louis R. Sullivan.¹

Language and Tribe. For convenience the Department of Indian Affairs places the Indians of these three regions, together with several adjacent bands, collectively under the administration of the Norway House agency. The report for 1915 of this agency reads thus: "The Indians of this agency are members of the Swampy Cree tribe mainly, there is a small proportion of the Ojibway. The language spoken is principally Swampy Cree, a number of the people understand and speak English quite well." Ojibway is here synonymous with Saulteaux. Father Du Beau of the Roman Catholic mission at Island lake, a very good linguist, tells me that the language spoken around the part of Island lake at which he is stationed is a mixture of Saulteaux and Cree; some words being Saulteaux, others being Cree; compound words being in many cases hybrids of the two. The interpreter who accompanied me throughout the expedition was a quarter-breed, who, though he spoke both Cree and English with equal ease, had distinct difficulty in understanding one detached group of Indians in the Island Lake region (those at Smooth Rock) because, as he said, they talked the pure Saulteaux dialect. These are the Indians the Department especially regards as being Ojibway or Saulteaux.

Mr. Fred Disbrow of Island lake, whom I take to be very well informed on matters pertaining to these Island Lake Indians, since he is acquainted with everyone on the reserve, knows many of their family histories and many of their camp-fire tales, in addition to the dialects, told me that all the people of Island lake regard themselves as being of Saulteaux stock. He told me that there are in the whole neighbourhood of Island lake not more than three Crees, and, that though words of Cree origin are spoken, these have been acquired partly from the missionaries, partly from the Bible, which is written in Cree, and partly through contact with Norway House. My interpreter told me that at Gods lake some of

¹ Anthropological Papers of the Am. Mus. of Nat. Hist., vol. XXIII, pt. III, New York (1920).

the people spoke the same mixed dialect of Cree and Saukteaux as was spoken throughout the greater part of Island lake, whereas others spoke pure Cree. Those who spoke the mixed dialect had migrated to Gods lake from farther east. It is indicated in appendices II and V which these are; and in table V, page 28, the two groups are treated separately.

At Oxford House Cree only was spoken. Some, therefore, of the Indians examined during this investigation spoke pure Saukteaux, some spoke pure Cree, and others spoke a mixture of the two.

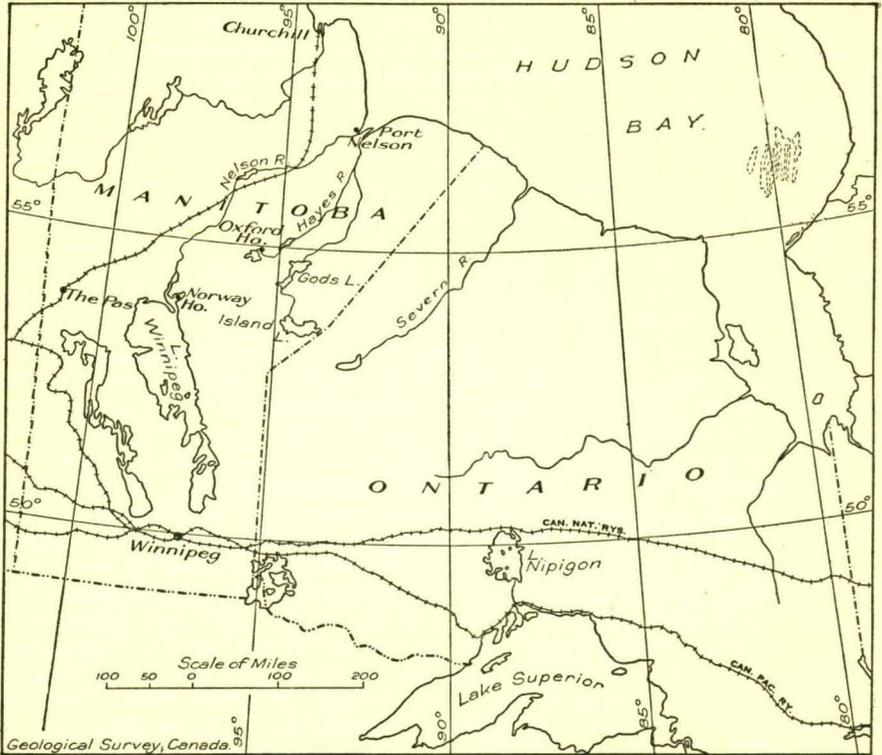


FIGURE 1. Index map showing positions of Island lake, Gods lake, and Oxford House, northeastern Manitoba.

Marriage. Though for the most part it is the custom of these Indians to marry their cousins, they nevertheless adhere to the tradition (though they are apt to deny it) of not marrying into their own totem. Since a girl on marrying assumes her husband's totem, any children she has may and do marry her brother's children, for in so doing a marriage between different totems is effected; but the children of brothers do not marry each other, neither do the children of sisters marry each other, but brother's children marry sister's children and the parents arrange the marriages.¹

¹Though the marriage of cousin with cousin is traditional, the tradition is not invariably followed today, for a number of men and women had brought wives or husbands, as the case might be, from other bands. One extremely old man I met in these regions some years ago had two wives.

From this it might be deduced that there is much in-breeding (or line breeding), with the consequence that the stocks are of great purity; but, if it be true, as was implied, that an Indian's conception of marriage obligations resembles rather that of the Eskimo than that of more civilized people, then one can by no means always rely upon the "legitimacy" of the children. One well-informed half-breed, who knew the country and the people well, described Gods lake as a place where morals were very lax and where there were very few full-blood Indians. It is commonly agreed that at Oxford House there is a large admixture of white blood. At Island lake it is said that two persons between the ages of 30 and 40 are known to possess some white blood, and that two others of similar ages are rumoured to possess some, but my informant was unwilling to disclose the identity of these.

The majority of the girls marry at about the age of 18 years; almost everyone of them is married before reaching the age of 20 years. There are not more than three or four unmarried men of over 21 years in the three localities.

In connexion with the question of the purity of the stock in the various localities the following brief historical note may be of interest and not without significance.

Historical Note. In the year 1672 the Hudson's Bay Company established a fort on Hayes river within a few miles of Hudson bay and called it York Factory. Its purpose was to trade with the Indians in exchange for furs and pelts, which were shipped to England. In 1798, a branch from York Factory was built farther up Hayes river and called Oxford House; and, at about the same time, a third post was built still farther inland, where Nelson river flows out of the northern end of lake Winnipeg, which came to be known as Norway House. In the earlier days the personnel of these posts was composed of unmarried men who had been brought out from England, and who were practically the first European settlers in this north land; later, it was drawn more especially from the north of Scotland. At least one contingent came from Norway, hence the name Norway House. It is now more than a century since a post at Island lake was first established; but this post was twice abandoned during lean years when fur was scarce and the Indians had scattered afield. The post on the Gods Lake site is much more recent. Those who manned these various stations had, in addition to defending them from attack, to act as crews for the "York boats" which distributed supplies and ammunition from York Factory to the inland posts and which returned with furs.

The Indians in the northern parts of Canada have for long tended to collect and to congregate in the neighbourhood of the posts with which they trade, and now for many years they have been entrusted with the freighting which previously the white man did. Of the three posts (Island Lake, Gods Lake, and Oxford House) the one at Island lake is rather inaccessible and until within the last fifteen years has been, as we shall see, somewhat secluded; whereas those at Oxford House and at Gods lake are of more easy approach, and have, since they were founded, been in direct communication with York Factory and Norway House.

In fact, the main route of entry from England into western Canada used to pass through Hudson bay, York Factory, Oxford House, and Nor-

way House; and this was the route which the Red River settlers, on their way from Scotland, to the regions now called Selkirk and Winnipeg, followed in the years 1812, 1813, and 1815. From Norway House to Island lake the journey is to be made entirely by canoe and takes from six to nine days. This journey, on account of its long, numerous, and very difficult portages, no doubt merits the claim put forward for it of being perhaps the most difficult regular route that is undertaken in the north at the present time. It is especially to be noted that the route which at present is used between Island lake and Norway House has been known only for about fifteen years. Prior to that time it was the custom to replenish the stock at Island lake by a more devious route; by one that passed through Gods lake and across a deep swamp, about 3 miles in length, and over a height of land. This swamp is euphemistically known as "Mossy portage." As apparently it was found to be impracticable or else inexpedient to portage heavy York freighting boats across this bog, Mossy portage became a relay point, i.e., freight was brought as far as this portage by crews from York Factory or from Oxford House, where they were met by crews from Island lake, who took charge of the freight, transferred it to their own canoes, and conveyed it to the company's post at Island lake.

From this account it would appear that Mossy portage served as a barrier to separate the Indians at Island lake from the world to the north and west of them. I am, moreover, informed that even to this day the people of Island lake hold themselves aloof from their countrymen of other bands; even when they meet them on the trail they neither camp with them nor do they eat together.

On the eastern side, however, it may be that indirect contact has, in the past, been made with white people at a post (founded in 1685) at the mouth of Severn river, which like the Hayes, flows into Hudson bay. It is, in fact, said, or rather, I am definitely informed, that at Trout lake—a region about 120 miles to the east of the Indian encampment at Island lake—there are a number of children who unmistakably are of white blood; and that some of the men have beards and are called "Beardy" or "Pardy" which is the Indian attempt at pronouncing this word. There are today at Island lake forty or more Indians who have within recent years migrated from this Trout Lake region.

Such is the story one hears locally today; another account was apparently current fifty years ago.¹ It runs as follows:

"Those Island Lake Indians were never stunted by portaging. They live in their canoes and make hardly any portages. No portages were necessary where they live. I visited that tribe just fifty-one years ago this summer and heard the story of their origin, which also explains their short stature. It appears that long ago (150 years) a hunting party of Swampy Crees went down the Severn, and when near the mouth of that river, ran across a party of Eskimos. The two parties started fighting. The Crees drove the Eskimos on to an island at the mouth of Severn river, slaughtered all the males, and took the women and girls back to Island lake. The stunted tribe of Island lake are the offspring of these Swampy Crees and the Eskimo women. This is shown by the fact that two-thirds of the men are bearded.

¹ "Mr. H. R. Halpin, western old-timer, and former Hudson's Bay employee." *Mani'oba Free Press*, June, 1927.

The Cree name for their habitat up there is Lake Wah-wee-ah-ka-mik. These Indians dress in skins—sealskin, wolfskin, bearskin—and they trade at the Hudson's Bay post at Round lake for things such as needles, traps, axes, tea, sugar, knives, and tobacco."

This account is of much significance, for no one knowing Mr. Halpin, the writer, could very well disregard his statement. He, moreover, supplements this account in telling me that in his day "York boats," manned by crews of eight, made the complete journey from Island lake to York Factory and back; and that Mossy portage was in no sense an impassable barrier then.

Today, as this report shows, the men at Island lake are not bearded; and they certainly do carry almost unimaginably heavy loads on their backs. These accounts are probably not in complete discord; they deal with periods that are separated by half a century in time. Out of all this emerge three fairly substantial probabilities:

- (1) The Indians at Oxford House are Crees who have had great opportunities of becoming amalgamated with the white population.
- (2) The Island Lake people are Sauteaux with an admixture of Cree to whom such opportunities of amalgamating with the Europeans have not to any great extent been granted.
- (3) Approximately one-half of the Gods Lake population is directly or indirectly of York Factory extraction, and the other half comes largely from farther east.

Regard must also be paid to the tradition that was in vogue fifty years ago, concerning the Eskimos and Crees, though it is not current today.

Acknowledgments. Dr. C. H. Goulden, Senior Cereal Specialist, Dominion Rust Laboratory, Winnipeg, was invaluable to me, for without his guidance in statistical methods it would not have been possible for me to have compiled this report.

To my secretary, Miss Wilma F. Service, who has spent many hours arranging and checking figures, in making calculations, and in assisting me generally in the work; to the School of Comptometry, Winnipeg, for the loan of a comptometer, and to Mrs. B. Pearson who operated the machine, I am much indebted.

For information, assistance, and many kindnesses, I wish to thank Father Du Beau, Messrs. Fred Disbrow and Chapin (of Island lake); Karl Bayly and Lake (of Gods lake); J. N. C. Kell (Oxford House); Gordon (Norway House); S. J. C. Cumming of the Hudson's Bay Company, Winnipeg, and Robert Watson, editor of the Beaver.

METHODS

The material was collected without selection and totally at random; every one who presented himself for examination was measured, and no one who was approached refused to be measured, except the women at Oxford House. Some investigations (as yet, I believe, unpublished)¹ had

¹ Miss Beatrice Blackwood, I am informed, visited this neighbourhood in 1926.

been made on these women a year or two before; and as they saw no purpose in submitting again to a procedure that had lost its novelty, my efforts to persuade them to be measured were without avail.

When it is said that material is (or samples are) taken or collected at random, the statement may be strictly true in so far as the collecting is concerned and yet be inaccurate from the standpoint of the material (or samples). In so far as its paper is concerned the collector did not discriminate. Was the material in any way at fault? This may best be answered by referring to the correlation table, page 17, where it may be seen that four Oxford House men (Nos. 17, 18, 19, 20), with grey eyes, came all at once to the Mission House to report for measurement. Was it by chance or by design that four grey-eyed men, living in a brown-eyed community, reported together? It is to be noted that two of these (18 and 20), have biparietal-bizygomatic indices of 89.5 and 92.0, which are respectively almost typically white and half-breed indices; and that the other two have indices of 99.0 and 101.5, which are characteristically Indian (if not Eskimoid) indices; yet, one of the former (18), and one of the latter (17), have heavy moustaches and the one with the index of 101.5 had a brother (14), who not only had grey eyes, but also an index of 94.8 and was partly bald. All of this is more than suggestive that all four were of white admixture and that they had arranged to report together.

Further, it is usual for Indians in these parts to live in family groups around one paternal hearth; three or four tents or tepees being disposed in radial manner around a central fireplace. It is only reasonable to suppose that such an assembly would agree amongst themselves upon certain lines of action—to be measured, to go hunting, or freighting, and the like.

Again, when we were one or two days' journey from Island lake we passed several canoes of Indians, who impressed me as being of distinctly shorter stature than those we were subsequently able to measure. Owing to such circumstances it may come to pass that certain material may, as it were, unconsciously conspire to frustrate the best efforts of the collector to sample at random; on the one hand, by presenting itself *en masse*; on the other, by withdrawing *en masse*. This factor should be borne in mind. Nevertheless, since during our stay in each of the localities we examined every adult male who was at home, it may be presumed that our data are comprehensive enough to allow of this factor being almost discounted.

It was deemed expedient not to delay unduly those whom we intercepted on portages lest they become too impatient to proceed on their way. In such circumstances as these we refrained from recording the stature, the arm stretch, and the sitting height, because the taking of these three measurements consumes so much time: a level platform, a low box, frequently a third reading and many injunctions are prerequisite to the taking of these measurements.

That an examination of the teeth, the eyes, and certain measurements are omitted in some cases must be attributed not to any design on my part but to inadvertency. A number of persons, even young adults, were so round-shouldered that it would have been useless to have taken their stature or sitting height. Some others we failed signally to persuade to stand or sit erect enough to allow of our taking an accurate reading. A few were lame; a few had crippled arms.

Hermann's Anthropometric instruments were used in accordance with the directions of the Geneva Convention as set forth in Hrdlicka's "Anthropometry," except in the case of the arm stretch; in taking this measurement the rod was held in front of the chest, and not behind it, with the result that, as experiment shows, from 1 cm. to 1.8 cm., were added to the arm stretch. Approximately 1.4 cm. should be deducted from the measurements in order to make them comparable with those taken conventionally.

The measurements, as they were taken, were entered by the author on prepared blank forms; they were then retaken, and so were checked. In the cases of the arm stretch, and of the soft parts (i.e., nose, lip, mouth, ear, and hand), only one reading was taken, but if it were in any way extreme then a second observation was made. Many were taken a third time.

MATERIAL

In all, observations were made on four hundred and thirty-four Indians, who were distributed as follows:

ADULT MALES

| | | |
|---------------------|---|----|
| <i>Island Lake</i> | Ages 20-59 years..... | 68 |
| | " 60 years and over..... | 14 |
| | Total number examined..... | 82 |
| | i.e., 62.5 % of the total adult male population of 131. | |
| <i>Gods Lake</i> | Ages 20-59 years..... | 17 |
| | " 60 years and over..... | 7 |
| | Total number examined..... | 24 |
| | i.e., 42% of the total adult male population of 57. | |
| <i>Oxford House</i> | Ages 20-59 years..... | 55 |
| | " 60 years and over..... | 4 |
| | Total number examined..... | 59 |
| | i.e., 88% of the total adult male population of 67. | |

ADULT FEMALES

| | | |
|--------------------|--|-----|
| <i>Island Lake</i> | Ages 20-59 years..... | 100 |
| | " 60 and years over..... | 16 |
| | Total number examined..... | 116 |
| | i.e., 72.5% of the total adult female population of 160. | |
| <i>Gods Lake</i> | Ages 20-59 years..... | 27 |
| | " 60 years and over..... | 9 |
| | Total number examined..... | 36 |
| | i.e., 49% of the total adult female population of 74. | |

Therefore, out of a possible total of 255 adult males, 165, or 65 per cent, were examined, and out of a possible total of 234 adult females, 152 or 65 per cent, were examined.¹

Of boys between the ages of 10 and 19 years, 58 were examined.

Of girls between the ages of 10 and 19 years, 52 were examined.

¹ The total adult female population at Oxford House is 89.

Ages. The missionaries had records of the dates of birth of most of the children of 20 years and under; and to these records they very kindly gave me full access. The ages of the children at Oxford House are accurately given, but we can vouch for the accuracy of only about 60 or 70 per cent of those at Island lake, as we were unable in a number of cases to obtain the parents' names and these were necessary for the identification of the children. The ages of the adults and of the old people are only approximate; the age each volunteered to give—provided it seemed a reasonable one—was accepted.

Grouping. We considered separating the individuals of the three bands into those we deemed to be pure Indian and into those of diluted blood, but it soon became apparent that such an attempt at sifting would meet with serious difficulties, for had, say, the colour of the eye (iris) been relied upon as a distinguishing trait, and everyone with light brown and with grey eyes been regarded as breeds, we would clearly—since grey is here recessive to brown—have placed in one category a grey-eyed individual and in another his many medium and dark-brown-eyed brothers and sisters, and perhaps even his parents. The results of such an attempt are shown in a correlation table on page 17.

We have in table V, page 28, grouped these people separately according to the dialect they spoke and have recorded the chief average proportions and indices of each group. But, on the whole, it seemed wiser not to restore the various migrants we were able to trace, to the localities either they or their parents had come from, but to deal with each individual as though he were a native of the region in which we found him. And, although this method of regional grouping has been adopted, it is to be understood that in each locality there are, as one would naturally suspect, a number of individuals who have migrated from each of the other localities and who have married into the local bands.

ABBREVIATIONS

| | | |
|------|-----------|---------------|
| I.L. | refers to | Island lake. |
| G.L. | “ | Gods lake. |
| O.H. | “ | Oxford House. |

The numbers in brackets in the text are the serial numbers of individuals referred to, and if the appropriate appendix on page 58 et seq. be consulted, full details of these individuals will be found.

In the Frequency Distribution Tables :

| | | |
|------------|-----------|--|
| Mean | refers to | average. |
| σ | “ | standard deviation. |
| E_m | “ | probable error of the mean. |
| V | “ | coefficient of variation. |
| N | “ | Number of cases examined. |
| P.E. diff. | refers to | probable error of the difference. |
| Diff. | “ | the numerical difference between two measurements. |

DESCRIPTIVE CHARACTERS

The medium to dark brown colour of the skin of the face was in general not noticeably different from that of other bands of Indian inhabitants of Manitoba. Those at Island lake were darker than those at Gods lake, and at Oxford House several of the men were relatively so light in complexion that they must certainly have been part-breeds. No colour scale was employed.

The hair was black, straight, and of medium coarseness; in some females it was almost fine; in only relatively few could it be described as very coarse. In one man (O.H. 36), obviously a breed, it was brownish. In seven males the hair immediately over the region of the forehead was wavy or curly; of these, five were at Island lake (I.L. 46, 57, 66, 71, 74), one at Gods lake (G.L. 17), and one at Oxford House (O.H. 25). One of these is stated to be of white blood (G.L. 17) and one had a beard and moustache, which throws doubt upon his racial purity (I.L. 46). There is nothing to indicate mixed blood in the other five. Five of the seven were over 60 years of age.

Many of the younger men shave at times, not probably so much because they have occasion to—for the hairs on their lips and chins are few—as from a desire to imitate the white man. A number of men had sparse moustaches and some had also sparse beards; some had even moderately strong growths of beard and moustache. Only three men are recorded as having hair on the cheeks; all three were at Oxford House (O.H. 36, 59, 3). Only four persons were at all bald: one a very old woman (I.L. 85), one a young man of 28 years (O.H. 14), and two were old men (O.H. 3, 44). In each of these the bald patch was on the crown of the head. As is indicated by table I, page 17, it is more than likely that all four were of mixed blood, because of these three men two had grey eyes and the third had a growth of hair on his cheeks (by omission no record was made of the colour of this man's eyes). Moreover, the biparietal-bizygomatic indices of the three men are below the mean for Oxford House, which is 95.9, and in the case of the old woman this index is 89.5, which in itself almost proclaims her to be not purely Indian. This view is substantiated in her case by the observations that her biparietal-bizygomatic index is lower than those of all the other fifteen Island Lake old women, but one; her mouth the smallest, but one; and of one hundred and twelve Island Lake women and old women, whose eyes were examined, she was one of the five having medium brown eyes.

No one of under forty years of age was observed to have a white hair on the head; between the ages of forty and fifty several presented a few white hairs; it was unusual for any, of either sex, to pass the age of sixty without displaying numerous white hairs. After this age even the scanty beards and moustaches of the men had some white hairs.

Noses were of all shapes, but the clean-cut, prominently aquiline type, so usually depicted, was in a very small minority; relatively few had high bridges. Though many were convex, the convexity was of mild degree. The point or tip of many noses was somewhat enlarged, with the result that a slight concavity of the bridge preceded the enlargement, and this is responsible for many of the concavities indicated in the chart. In one Island Lake woman the nose was definitely retroussé.

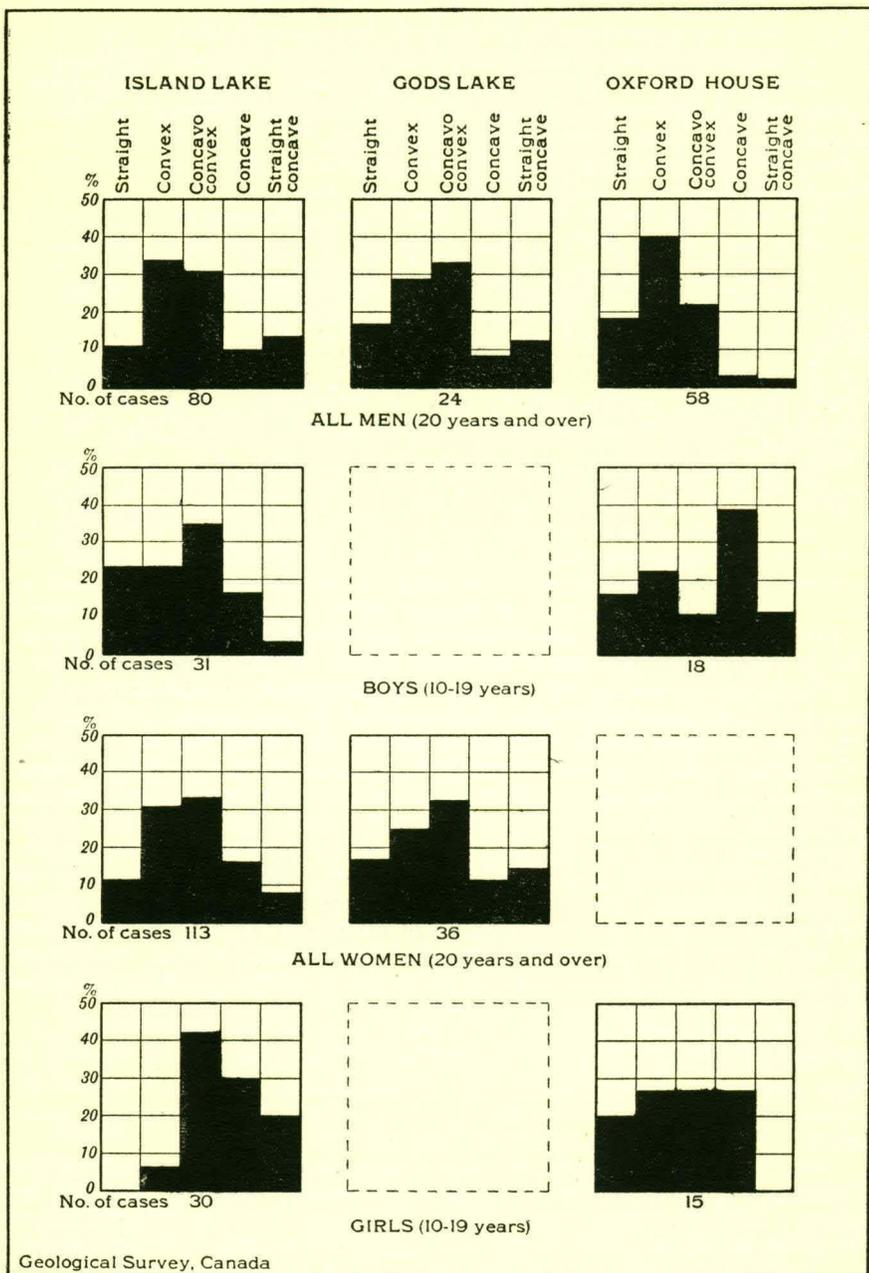


FIGURE 2. Percentage distribution of the shape of the nose.

The lateral palpebral canthus was in most cases slightly, and in a few cases very markedly, above the level of the medial canthus. (It appeared to be lower than the medial canthus only in some of the old people.) An epicanthic fold was rarely seen.

The details of the colour of the eyes are set out in graphic form on page 12. They were not matched for colour against any standard, and in consequence the chart can only express a personal estimate of the colour distribution. An endeavour was made to separate the eyes into six classes: black, dark brown, dark to medium brown, medium brown, light brown, and grey or bluish grey. It is quite apparent, despite the fact that no standard was employed:

- (a) That at all ages the darker colours prevailed at Island lake, where light brown and grey eyes were almost totally lacking.
- (b) That the women had darker eyes than the men.
- (c) That the eyes of the Oxford House men tended in general to be lighter than even those at Gods lake.

It will be noted that out of a total of seventeen individuals of all ages with grey eyes, fourteen were at Oxford House. And further, it would appear that most grey eyes had passed with increasing age through a procession of colour changes; black at birth, they pass through the different shades of brown to light brown; later the periphery of the light brown eyes changes to grey; from this grey periphery, grey streaks in time spread to the pupillary margin, so that grey rays alternate or interdigitate with brown ones: still later the peripheral ends of the brown rays fade to grey; so that eventually the eye, from being originally black at birth becomes a grey one in which brown flecks are dotted in radial manner around the margin of the pupil, but this end result, at least in the old people, is achieved after the eye has passed through a series of "trans-colorations".

This surmise, for it is a surmise, is based on the following observations:

- (1) In all three localities the eyes of the children in arms were definitely black, as I had ample opportunity of observing at the missions, where numerous mothers with their babies attended.
- (2) A number of adults had light brown eyes, though no one of under twenty years had.
- (3) Three of the thirteen persons with light brown eyes, at Oxford House, are noted as having a deep outer halo of grey.
- (4) The two cases of grey eyes among the old men at Gods lake, and the eight cases among the men and old men at Oxford House are all noted as having either brown rays or brown flecks radiating from the pupillary margin into a grey background. (Sketches of these eyes made at the time confirm this remark.)

Grey eyes also occurred in six Oxford House children, two being boys and four being girls. In two of them it is noted that brown rays were present. It is presumed that these six Oxford House children were of white admixture.

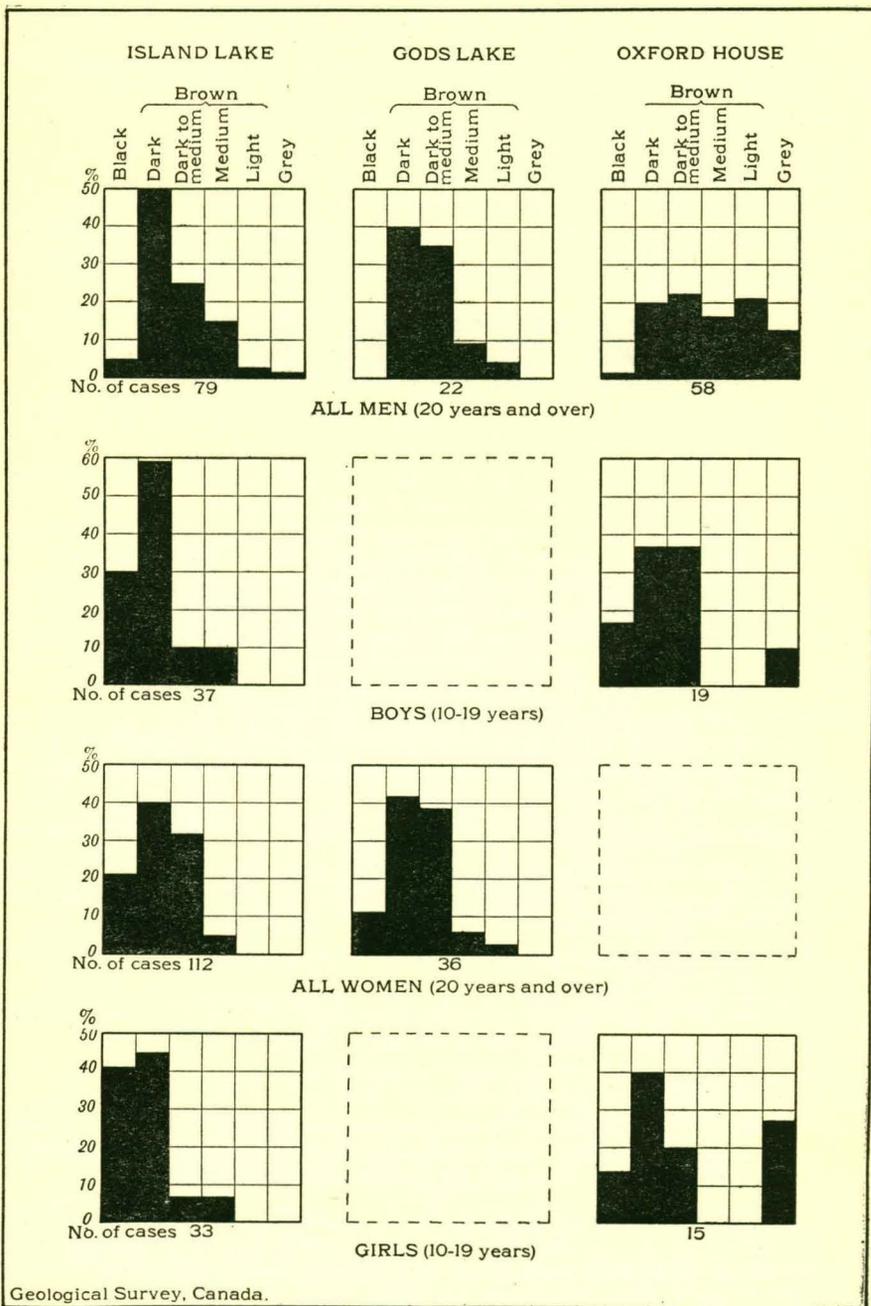


FIGURE 3. Percentage distribution of the colour of the eye.

Arcus senilis occurred in all neighbourhoods, and frequently at an early age; the five youngest persons to present this condition being of ages 21, 30, 34, 35, and 35 years. It was more common at Island lake, where twelve males and four females were affected, than at Gods lake or Oxford House, where there were three and one respectively. Distinct from arcus senilis was a condition I had not seen before; namely, one in which the parts of the cornea that would normally be overlapped by the lids, even when the eyes are open, were hazy and grey. This was not uncommon even among children in their teens.

Pterygium, with or without pannus, both of which are relatively common among the Indians of Manitoba, likewise occurred in all neighbourhoods, and was noticed in seven Island Lake, two Gods Lake, and five Oxford House, Indians. Pigmented conjunctivæ of a yellowish or muddy-yellow colour were more in evidence at Island lake than elsewhere.

It was the rule, and not the exception, to find teeth so closely crowded together that they overlapped each other. The lower incisors were most frequently involved, the upper incisors less frequently, and in a few cases the canine and even the first pre-molars were out of alignment. This early arrested my attention, for one was naturally surprised to find such a condition amongst a people who lead a primitive type of life; in whom one expects the teeth to be sound and well-spaced. The records of this are not complete, but it is definitely noted that overlapping occurred in 50 of 82 Island Lake adult males; 13 of 24 of Gods Lake, and 33 of 59 of Oxford House; in 72 of 116 adult females of Island lake and 28 of 36 of Gods lake. It was, moreover, quite common amongst those under twenty years of age. Certainly, then, well over 60 per cent of all adults had crowded and overlapping front teeth, and the overlapping was generally of no mild degree. One man (I.L. 105) had an impacted third lower molar and one man (I.L. 104) had a double (median or lateral?) upper incisor, one being placed behind the other. Shovel-shaped teeth were seen, but were not systematically examined for.

The palate was commonly highly arched. In many, the rugæ on the pre-maxillary portion of the palate were of very unusual prominence. The posterior half of one man's palate was cleft (O.H. 28).

The tongue tended to be large and to bear on its sides the impressions of the teeth.

The digital formula¹ was, in all but three cases, of the primitive type, i.e., the middle finger is the longest, or most projecting, then in succeeding order of length or projection come the ring, the index, the little finger, and the thumb. The formula would thus read $3 > 4 > 2 > 5 > 1$. In two Island Lake men (I.L. 33 and 39), the index and the ring fingers were of equal length (on the left side), thus giving a formula $3 > 2 = 4 > 5 > 1$, though on the right side the ring fingers were, as usual, longer than the index. In only one man (I.L. 104) was the index finger longer than the ring, thus giving a formula $3 > 2 > 4 > 5 > 1$. This applied to both of his hands. Unless the left hand was one of the three exceptional ones noted above, the right hand was not inspected.

¹ Wood, Jones: *Arboreal Man*. London, 1918, p. 75.

Wood, Jones: "The Principles of Anatomy as Seen in the Hand." London, 1920; p. 20.

The observations on the lengths of the fingers were made after the measurements of the left hand had been taken. It was only necessary, after reversing the hand, to inspect the dorsum in order to note whether the tip of the ring finger or of the index projected farther along the nail of the middle finger, and, as the ring was generally very much longer than the index, the observation could generally be made at a glance.

Dental Caries. If any teeth were found to be decayed or missing, their appropriate spaces were scored across on the blank forms that had been prepared and had been taken into the field with this object in view. Though incipient trouble may easily have escaped my notice, it is not likely that any appreciable sized cavity or that any missing tooth is unrecorded.

In a proportion, but it was a very small proportion, of the older men the teeth were well worn and ground down into the secondary dentine; some appeared to have pyorrhoea; but neither of these conditions was confused with caries, neither, I believe, were any cases of unerupted third molars, which were met with in a number of adults, mistaken for extracted third molars, nor for an early loss of first molar teeth.

From appendix X on page 71, one can see the details of the actual distribution of the decayed teeth; and the reader is referred to this. From this appendix it is calculated that:

- (1) 78 per cent of the 82 men and old men examined at Island lake had sound teeth. The 18 persons who made up the remaining 22 per cent had among them 47 carious teeth.
- (2) 75 per cent of the 115 women and old women examined at Island lake had sound teeth. The 29 persons who made up the remaining 25 per cent had among them 42 carious teeth.
- (3) 42 per cent of the 24 men and old men examined at Gods lake had sound teeth. The 14 persons who made up the remaining 58 per cent had among them 41 carious teeth.
- (4) 44·5 per cent of the 36 women and old women examined at Gods lake had sound teeth. The 20 persons who made up the remaining 55·5 per cent had among them 41 carious teeth.
- (5) 36 per cent of the 58 men and old men examined at Oxford House had sound teeth. The 37 persons who made up the remaining 64 per cent had among them 138 carious teeth.

The accompanying chart gives a very clear picture of the percentage distribution of decayed teeth. From the chart, and from the table above, it will be gathered that:

- (a) In a given neighbourhood the percentage of men affected with dental caries is practically equal to the percentage of women affected with dental caries.
- (b) At Island lake there was a much smaller percentage of persons with decayed teeth than at Gods lake, and at Gods lake there was an appreciably smaller number than at Oxford House, the percentages being respectively, 22 per cent, 58 per cent, 64 per cent.

- (c) Caries affects a larger percentage of lower teeth than upper teeth in the proportion of 70 per cent lower to 30 per cent upper.
- (d) The teeth of the right side are affected with about the same frequency as those of the left side. Upper right 49 per cent to upper left 51 per cent; lower right 50 per cent to lower left 50 per cent.
- (e) The first lower molars are the most frequent offenders. Of 45 persons with only one decayed tooth, in 71 per cent that tooth is the first lower molar.

The frequency with which the various teeth of male and female adults were affected with dental caries is shown here on a per-thousand basis.

| | M ₃ | M ₂ | M ₁ | P _{m2} | P _{m1} | C | I ₂ | I ₁ | I ₁ | I ₂ | C | P _{m1} | P _{m2} | M ₁ | M ₂ | M ₃ |
|------------|----------------|----------------|----------------|-----------------|-----------------|---|----------------|----------------|----------------|----------------|---|-----------------|-----------------|----------------|----------------|----------------|
| Upper..... | 30 | 23 | 60 | 10 | 13 | — | — | 13 | 13 | — | — | 10 | 10 | 67 | 33 | 23 |
| Lower..... | 53 | 67 | 220 | — | 7 | 3 | 3 | 10 | 3 | 3 | — | 3 | 3 | 207 | 77 | 63 |

(The actual number of teeth affected was 399; for convenience in calculating, the number was assumed to be 399.)

ANTHROPOMETRIC CHARACTERS

The following measurements were taken:

1. Stature
2. Arm stretch (maximum)
3. Sitting height
4. Length of head (glabella ad maximum)
5. Width of head (biparietal maximum)
6. Width of forehead (frontal minimum)
7. Length of face
 - (a) Menton-nasion
 - (b) Menton-erinion
8. Width of face (bizygomatic maximum)
9. Height of nose
10. Width of nose
11. Length of mouth
12. Length of ear
13. Width of ear
14. Length of upper lip
15. Length of hand
16. Width of hand

And from these measurements the following indices have been calculated:

17. Arm stretch (Arm stretch to stature)
18. Sitting height (Sitting height to stature)
19. Cephalic (Width of head to length of head)
20. Cephalo-facial (Width of face to width of head)
21. Facial [Length of face (Menton-nasion) to width of face]
22. Nasal (Width of nose to height of nose)
23. Ear (Width of ear to length of ear)
24. Hand (Width of hand to length of hand)

TABLE I

Correlation of Oxford House Men (aged 20 years and over)

This table considers only those individuals who possess one or more features that may be regarded as indicative of white admixture.¹

| Serial number | Features and index suggestive of white admixture | | | | | | | Other data | | | | |
|---------------|--|-----------|-----------------------|-------------------------|----------------|----------|----------------------------------|-----------------------------------|---------------------------------|------------|-------------|---|
| | Light complexion | Grey eyes | Said to be part white | Some beard or moustache | Hair on cheeks | Bald | Decayed front teeth (not molars) | Cephalo-facial index 94 and under | Cephalo-facial index of over 94 | Biparietal | Bizygomatic | Difference between head width and face width in mm. |
| 3..... | | (♀) | | | + | + | | 93.9 | | 155 | 145.5 | 9.5 |
| 6..... | | | + | | | | | | 96.5 | 143 | 138 | 5 |
| 8..... | | | + | | | | | | 96.0 | 152 | 146 | 6 |
| 9..... | | | | B M | | | + | | 97.4 | 155.5 | 151.5 | 4 |
| 12..... | | | | B M | | | | 92.4 | | 157 | 145 | 12 |
| 13..... | | | | B M | | | | 93.4 | | 159 | 148.5 | 10.5 |
| 14..... | | + | | | | + | | | 94.8 | 155 | 147 | 8 |
| 15..... | | | + | B M+ | | | + | 93 | | 149.5 | 139 | 10.5 |
| 17..... | + | + | | B M+ | | | | | 99.0 | 157 | 155.5 | 1.5 |
| 18..... | + | + | | B M+ | | | + | 89.5 | | 157.5 | 141 | 16.5 |
| 19..... | | + | | M | | | | | 101.5 | 138.5 | 140.5 | - 2 |
| 20..... | | + | | | | | | 92.0 | | 156.5 | 144 | 12.5 |
| 23..... | | | | M+ | | | | | 94.2 | 154.5 | 145.5 | 9 |
| 26..... | + | | | M+ | | | + | 93.9 | | 155 | 145.5 | 9.5 |
| 28..... | | | + | | (cleft | palat e) | | 92.4 | | 150.5 | 139 | 11.5 |
| 29..... | | | | | | | | 92.4 | | 150.5 | 139 | 11.5 |
| 33..... | | | | | | | + | 93.5 | | 153 | 143 | 10 |
| 34..... | | | | | | | | 93.5 | | 153 | 143 | 10 |
| 36..... | + | + | + | B M+ | + | | | 90.6 | | 155 | 140.5 | 14.5 |
| 38..... | + | | | | | | | | 94.7 | 151.5 | 143.5 | 8 |
| 39..... | | | | | | | + | | 99.3 | 147.5 | 146.5 | 1 |
| 40..... | | | | | | | | 93.6 | | 148.5 | 139 | 9.5 |
| 41..... | | | | | | | + | | 98.0 | 153 | 150 | 3 |
| 43..... | | | | | | | | | 99.3 | 148 | 147 | 1 |
| 44..... | | + | | | | | | 94.0 | | 159 | 149.5 | 9.5 |
| 49..... | | + | | | | + | | 92.6 | | 155 | 143.5 | 11.5 |
| 55..... | + | | | | | | | 91.1 | | 151 | 137.5 | 13.5 |
| 57..... | + | | | | | | | 93.9 | | 146.5 | 137.5 | 9 |
| 59..... | | | | | + | | | 94.0 | | 151 | 142 | 9 |
| 63..... | | | | | | | | 92.5 | | 146 | 135 | 11 |

The essence of this part of the report is to be found in the table entitled "Summary of Means and Probable Errors of Means," on page 20. In this table are incorporated, for the sake of convenience, comparable data compiled by Sullivan² on the pure and half-blood Siouan Indians. The report of Sullivan, based on a study of 540 full-blood, and 77 half-blood males, 157 full-blood, and 19 half-blood, females, all between the ages of twenty and fifty-nine years, treats of a much more comprehensive series of cases than does this present report, which deals with 140 males and 127 females of like ages.

¹ + = presence of a feature; a blank space = absence of a feature;

B = slight beard; M = medium moustache; M+ = heavy moustache.

² In the report on the Siouan Indians, means and their standard deviations are recorded, but in order to make the data on the Siouan Indians more easily comparable with those of this report, the standard deviations have been converted into probable errors of means. See footnote on page 20.

Anyone who would analyse the figures from which a particular mean has been calculated, should turn, in the first place, to the appropriate Frequency Distribution Table, where he will find the standard deviation (σ), the probable error of the mean (E_m), the coefficient of variation (V), and the number of cases examined (N), all duly recorded; and, subsequently—if he would pursue his investigation further—let him turn to the appendix, where the particulars of each individual on which this report is based, are fully set out.

The similarity between some of the measurements and the contrast between others are self-apparent and call for but few comments, because table II displays these similarities and contrasts concisely and in tabular form.

It may, perhaps, be of help to some in the understanding of this report, if an explanation is offered as to how the table of means and probable errors of means is to be interpreted, for, unless the significance of the probable error be appreciated, the figures in this, and in certain subsequent tables will fail to convey their meaning.

In this table, No. II, it is stated that the mean or average stature of the men at Island lake is 170.0 cm., and of those at Oxford House, 172.5 cm. The Oxford House men are, therefore, on an average 2.5 cm., that is, one inch taller than the Island Lake men. But what reliance may be placed on these figures? At Island lake sixty-eight and at Oxford House fifty-five men were measured. These numbers are fairly substantial; the measurements were carefully taken; they were checked as they were taken; the men were not selected, but were picked entirely at random. With the expenditure of much time and labour it has been ascertained that the probable error of the mean stature of the Island Lake men is ± 0.48 , and of the Oxford House men ± 0.65 . How probable errors are calculated need not concern us; we may accept them and proceed in the following manner to employ them:

| | |
|---------------------------------|--------------------------------------|
| Stature and probable error..... | Oxford House men....172.5 \pm 0.65 |
| | Island Lake men.....170.0 \pm 0.48 |
| | 2.5 |

The difference in the stature is obviously 2.5 cm. If the probable errors 0.65 and 0.48 be squared, the results are 0.4225 and 0.2304. These when added together become 0.6529, the square root of which is 0.8080.

If this result (0.8080), which is known as the “probable error of the difference” of these two statures (P.E. diff.) be divided into the difference between the statures (2.5 cm.), the answer is 3.1. That is to say, the difference between the statures is 3.1 times greater than the probable error of that difference; or in other words, the ratio between them is as 3.1 is to 1.0. On consulting an appropriate table of odds (*See next page*) it will be seen that this ratio, if translated into terms of odds, will read: “The odds or chances are 26 to 1 in favour of our finding a difference of at least 2.5 cm. (one inch) in the mean statures of the Island Lake and Oxford House men sustained had we been able to measure infinitely larger numbers than circumstances permitted.” Or it might be expressed thus:

"Were twenty-seven groups of Cree (Oxford House) and Saulteaux (Island Lake) Indians to be measured, the mean stature of the Cree would be found to exceed that of the Saulteaux by 2.5 cm., or more, in twenty-six out of the twenty-seven groups, whereas in one out of the twenty-seven the difference would be less than 2.5 cm."

This, then, is the basis on which comparisons are to be drawn. The reason for saying in the above that the odds or chances are 26 to 1 is justified by the fact that it has been established mathematically that when a difference divided by the probable error of that difference is

| | |
|------|---|
| 1.0, | the odds are as 1.0 to 1.0 ¹ |
| 2.0, | 4.6 to 1.0 |
| 2.3, | 7.3 to 1.0 |
| 2.5, | 9.2 to 1.0 |
| 2.8, | 16.0 to 1.0 |
| 3.0, | 22.0 to 1.0 |
| 3.1, | 26.0 to 1.0 |
| 3.5, | 54.0 to 1.0 |
| 4.0, | 142.0 to 1.0 |
| 5.0, | 1,341.0 to 1.0 |
| 6.0, | 19,300.0 to 1.0 |
| 7.0, | 427,000.0 to 1.0 |

Clearly, then, it would in most cases appear reasonable to regard a ratio of 3 to 1 between a difference and its probable error as reliable evidence that the difference was a genuine one, because it implies odds of 22.0 to 1.0. If the ratio be 4, 5, 6, or more, to 1, surely, when dealing with problems such as these, it is tantamount to proof that such differences would still be found to occur were we to measure the entire populations and not be restricted to small samples of them.

In table III a blank space has been left where a difference, P.E. diff., has been found to be less than 2.0, that is to say, where odds are less than 4.6 to 1.0. For example, we learn from table II that the Gods Lake men have an arm stretch of 1.2 cm. less than the Oxford House men, but we do not feel warranted in concluding that this mean difference of 1.2 cm. would be found to persist if we were enabled to measure some hundreds more of these men, on account of the fact that the P.E. diff. (1.18) is almost as great as the difference (1.2) itself.

| | | |
|-------------------------------------|----------------------|--------------|
| Arm stretch and probable error..... | Oxford House men.... | 183.7 ± 0.67 |
| | Gods Lake men..... | 182.5 ± 0.97 |
| | | 1.2 |

$$\sqrt{(0.67)^2 + (0.97)^2} = \sqrt{0.4489 + 0.9409} = \sqrt{1.3898} = 1.18 = \text{P.E. diff.}$$

Diff./P.E. diff. = 1.2/1.18 = 1.02 = No. of times the difference is greater than the probable error of that difference.

¹ This is an excerpt from table 40, "Medical Biometry and Statistics", by Raymond Pearl.

TABLE II

Summary of Means and Probable Errors of Means

(For purposes of comparison, data on the Siouan Indians are included in this table.)

| | Males (20-59 years) | | | | | Females (20-59 years) | | | |
|--|---------------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|----------------|
| | Island lake | Gods lake | Oxford House | Sioux | | Island lake | Gods lake | Sioux | |
| | | | | Pure | Half-bloods | | | Pure | Half-bloods |
| Maximum number of cases ¹ | 68 | 17 | 55 | 540 | 77 | 100 | 27 | 157 | 19 |
| Stature..... | 170.0 ±0.48 | 172.0 ±0.75 | 172.5 ±0.65 | 172.4 ±0.16 | 173.5 ±0.52 | 157.6 ±0.35 | 158.2 ±0.71 | 160.0 ±0.28 | 161.2 ±0.90 |
| Arm stretch ² | 179.1 ±0.48 | 180.9 ±0.97 | 182.1 ±0.67 | 181.4 ±0.20 | 182.2 ±0.54 | 165.8 ±0.39 | 167.4 ±0.48 | 168.3 ±0.34 | 167.4 ±1.05 |
| Index of arm stretch ² | 105.4 ±0.20 | 105.2 ±0.35 | 105.5 ±0.26 | 105.2 ±0.07 | 105.0 ±0.17 | 105.2 ±0.15 | 105.8 ±0.23 | 105.3 ±0.13 | 103.8 ±0.27 |
| Sitting height..... | 89.9 ±0.26 | 90.0 ±0.67 | 88.7 ±0.33 | 88.5 ±0.10 | 89.6 ±0.34 | 83.2 ±0.22 | 83.3 ±0.45 | 82.1 ±0.19 | 83.0 ±0.76 |
| Index of sitting height..... | 53.0 ±0.09 | 52.3 ±0.34 | 51.3 ±0.14 | 51.4 ±0.05 | 51.6 ±0.15 | 52.8 ±0.09 | 52.6 ±0.16 | 51.4 ±0.10 | 51.4 ±0.43 |
| Cephalic index..... | 79.4 ±0.23 | 79.0 ±0.43 | 76.9 ±0.28 | 79.6 ±0.09 | 79.4 ±0.20 | 79.9 ±0.17 | 79.4 ±0.25 | 80.5 ±0.15 | 80.5 ±0.44 |
| Glabella ad maximum..... | 196.1 ±0.57 | 194.9 ±0.92 | 195.9 ±0.51 | 194.9 ±0.18 | 194.4 ±0.55 | 188.4 ±0.39 | 188.7 ±0.52 | 187.0 ±0.28 | 187.3 ±0.65 |
| Biparietal..... | 155.6 ±0.40 | 153.8 ±0.68 | 150.7 ±0.45 | 155.1 ±0.16 | 154.3 ±0.38 | 150.4 ±0.25 | 149.6 ±0.47 | 150.9 ±0.26 | 150.3 ±0.70 |
| Bizygomatic..... | 146.8 ±0.37 | 145.7 ±0.93 | 144.4 ±0.48 | 149.1 ±0.16 | 143.4 ±0.43 | 140.2 ±0.26 | 139.7 ±0.49 | 142.8 ±0.27 | 139.3 ±0.57 |
| Cephalo-facial index..... | 94.4 ±0.17 | 94.5 ±0.55 | 95.9 ±0.28 | 96.1 ±0.09 | 92.9 ±0.25 | 93.2 ±0.14 | 93.5 ±0.26 | 94.7 ±0.18 | 92.5 ±0.29 |
| Frontal minimum..... | 104.7 ±0.39 | 106.1 ±0.55 | 104.5 ±0.41 | ..... | ..... | 102.7 ±0.27 | 102.9 ±0.41 | ..... | ..... |
| Menton-crinion..... | 184.4 ±0.67 | 186.7 ±1.27 | 184.6 ±0.84 | 189.9 ±0.30 | 186.4 ±0.66 | 176.0 ±0.53 | 178.1 ±1.19 | 179.4 ±0.50 | 173.6 ±0.92 |
| Menton-nasion..... | 124.7 ±0.50 | 127.1 ±0.82 | 122.9 ±0.54 | 124.6 ±0.18 | 121.5 ±0.49 | 118.5 ±0.32 | 119.9 ±0.64 | 117.4 ±0.33 | 114.1 ±0.63 |
| Facial index..... | 84.8 ±0.37 | 87.7 ±0.76 | 85.2 ±0.43 | 83.6 ±0.14 | 84.8 ±0.41 | 84.6 ±0.25 | 85.8 ±0.55 | 82.3 ±0.24 | 82.2 ±0.51 |
| Upper lip (length)..... | 16.5 ±0.24 | 17.9 ±0.39 | 17.0 ±0.24 | ..... | ..... | 17.4 ±0.22 | 16.9 ±0.31 | ..... | ..... |
| Nose height..... | 54.8 ±0.31 | 55.2 ±0.58 | 54.1 ±0.33 | 58.3 ±0.12 | 54.9 ±0.27 | 50.7 ±0.22 | 50.6 ±0.41 | 55.2 ±0.19 | 51.5 ±0.46 |
| Nose width..... | 39.9 ±0.20 | 38.2 ±0.62 | 38.6 ±0.26 | 39.9 ±0.09 | 37.6 ±0.24 | 35.3 ±0.17 | 34.5 ±0.33 | 37.4 ±0.16 | 34.8 ±0.35 |
| Nasal index..... | 72.9 ±0.54 | 69.6 ±1.32 | 71.6 ±0.60 | 68.8 ±0.20 | 69.2 ±0.55 | 70.0 ±0.42 | 69.2 ±0.97 | 68.0 ±0.39 | 67.8 ±0.99 |
| Mouth (length)..... | 60.6 ±0.34 | 65.6 ±1.08 | 60.1 ±0.30 | ..... | ..... | 55.8 ±0.32 | 58.3 ±0.43 | ..... | ..... |
| Ear length..... | 65.9 ±0.35 | 65.3 ±0.66 | 67.6 ±0.38 | ..... | ..... | 58.7 ±0.29 | 59.0 — | ..... | ..... |
| Ear width..... | 35.4 ±0.21 | 34.7 ±0.36 | 35.4 ±0.21 | ..... | ..... | 33.8 ±0.15 | 31.8 — | ..... | ..... |
| Ear index..... | 53.6 ±0.28 | 52.8 ±0.72 | 52.1 ±0.39 | ..... | ..... | 57.9 ±0.42 | 54.5 — | ..... | ..... |
| Hand length..... | 192 ±0.62 | 192 ±1.14 | 193 ±0.62 | ..... | ..... | 180 ±0.46 | 179 ±0.61 | ..... | ..... |
| Hand width..... | 86 ±0.29 | 87 ±0.53 | 90 ±0.35 | ..... | ..... | 78 ±0.24 | 80 ±0.41 | ..... | ..... |
| Hand index..... | 44.8 ±0.15 | 45.1 ±0.28 | 46.5 ±0.18 | ..... | ..... | 43.5 ±0.14 | 44.5 ±0.27 | ..... | ..... |

¹ The maximum number of cases is recorded here. For some measurements fewer observations were made. The actual number of observations made on a given measurement is recorded in the Frequency Distribution Tables, page 32 et seq.

² The arm stretch and index of arm stretch have been corrected. See page 23.

TABLE III

In this table the measurements and the indices of the three bands of Indians are contrasted. The figures in the table record the number of times the difference between two sets of measurements (or of indices) is greater than the probable error of that difference. No entry has been made where the difference is less than twice its probable error. A blank space, therefore, indicates that the two groups of Indians that are being compared closely resemble each other in the measurement (or index) the space represents.

| Measurement or index | Males (aged 20-59 years) | | | Females |
|---------------------------|---------------------------|------------------------------|----------------------------|---------------------------|
| | Island lake and Gods lake | Island lake and Oxford House | Gods lake and Oxford House | Island lake and Gods lake |
| Stature..... | 2.2 | 3.1 | | |
| Arm stretch..... | | 3.6 | | 2.6 |
| Arm stretch index..... | | | | 2.2 |
| Sitting height..... | | 2.9 | | |
| Sitting height index..... | | 10.2 | 2.7 | |
| Cephalic index..... | | 6.9 | 4.1 | |
| Glabella ad maximum..... | | | | |
| Biparietal..... | 2.3 | 8.1 | 3.8 | |
| Bizygomatic..... | | 4.0 | | |
| Cephalo-facial index..... | | 4.6 | 2.3 | |
| Frontal minimum..... | 2.1 | | 2.3 | |
| Menton-crinion..... | | | | |
| Menton-nasion..... | 2.5 | 2.4 | 4.3 | |
| Facial index..... | 3.4 | | 2.9 | |
| Upper lip length..... | 3.1 | | | |
| Nose height..... | | | | |
| Nose width..... | 2.6 | 4.0 | | 2.2 |
| Nasal index..... | 2.3 | | | |
| Mouth length..... | 4.4 | | 4.9 | 4.7 |
| Ear length..... | | 3.3 | 3.0 | |
| Ear width..... | | | | |
| Ear index..... | | 3.1 | | |
| Hand length..... | | | | |
| Hand width..... | | 8.8 | 4.7 | 4.2 |
| Hand index..... | | 7.3 | 4.2 | 3.3 |

In comparing the three bands with each other it will be borne in mind that the number of Gods Lake men examined (seventeen in all) is a small one from which to make deductions. We, nevertheless, seem warranted in saying that these Gods Lake men resemble the men of Island lake much more closely than they do those of Oxford House, for on casting the eye down the first column of table III it will be seen that in only three instances is a difference 3.0 or more times as great as its probable error. In other words, in only three features (viz., facial index, length of upper lip, and length of mouth) may it be taken as reasonably certain (the chances being 22 or more to 1) that these features are definitely different in the two bands. How great or how small these mean differences are, the table of means, table II, will tell. Similarly, if the women of Gods lake and Island lake be compared, it will be seen that again in only three features (viz., the length of mouth, the width of hand, and the relative proportions of the

hand) is there any significant difference between them. We may take it, then, that the people of Gods lake, in their physical proportions, resemble very closely the people of Island lake.

If the eye now be carried down column three in which the Gods Lake and Oxford House men are compared, it will be seen that differences in features are well-marked in seven instances, as evidenced by the fact that in seven instances a difference is 3.0 or more times as great as its probable error; and that in two other instances (viz., sitting height index and facial index) the figure 3 is closely approached (2.7 and 2.9) or stated in terms of chances, that the odds are 14 to 1, and 19 to 1, respectively, in favour of the relative proportions of the length of the body to length of lower limb, and of length of face to width of face, being truly different as recorded in the table of means.

Now, let the second column, which deals with the Island Lake and Oxford House men, be reviewed. It will be found that in this column the figure 3.0 is exceeded in twelve different instances; in eight of the twelve instances 4.0 is equalled or exceeded, and in five of the twelve 6.0 is outdistanced. The Oxford House and Island Lake men, therefore, beyond all reasonable question differ from each other in five respects, if not in eight, very probably in twelve, and perhaps in more.

It may, therefore, be said that of the twenty-five proportions and indices we have elected to measure and calculate, the Gods Lake men and women and the Island Lake men and women are very much alike in all but three; the Gods Lake and Oxford House men in all but seven or eight, and the Island Lake and Oxford House men in all but twelve or thirteen; or this may be expressed in other words by saying that it is reasonably certain that these bands differ from each other in 12 per cent, 30 per cent, and 50 per cent, respectively, of the features on which observations were made.

Stature. The Indians wore either: (a) moccasins, or (b) rubbers, or (c) moccasins and rubbers; very few wore (d) boots. According to the type of footgear worn, either (a) 3 mm., or (b) 6 mm., or (c) 9 mm., or (d) 12 mm., were deducted from the reading on the measuring rod, because experiment showed these to be the correct adjustments to make.

The taking of the stature consumes more time and calls for more frequent readings than does any other proportion except the sitting height. Both are measurements over which the subject has control. If he does not keep his heels together and endeavour to stand erect, or, if standing erect, he throws his head back, an under-reading will be made; if he bends forward an over-reading will result. To ensure that both the subject and the rod were vertical, two 8-inch plumb lines were attached to the top of the rod so that one hung down in front of it, and the other at its side. The interpreter exhorted the subject, who always stood on a level platform, to straighten himself. To manoeuvre an Indian into the position of "attention" is not easy.

The Island Lake men are on an average 170.0 cm., or 66.9 inches, tall; the Oxford House men are 2.5 cm., or 1 inch taller. We might or might not have found; had we been able to measure a larger number of the men at Gods lake, that they were slightly less tall than those at

Oxford House. The women of Island lake and of Gods lake are of similar stature, and are about 12.5 cms., and 13.5 cms., respectively, shorter than the men of the corresponding bands. In drawing conclusions as to the stature of the Gods Lake men, regard must be paid to the relative paucity of the numbers (in fact twelve) measured. At Oxford House, where there is most white blood admixture, the greatest stature is encountered. The mean stature of the twenty-two Oxford House men whom we intercepted at a portage, was estimated to be 176.2 cms.

Arm Stretch, Arm Reach, or Span. The mean arm stretch increases with the mean stature, so that the taller the group the greater is the arm stretch and as a result the index, irrespective of band or sex, hovers around 105.4. This, of course, is slightly higher than that usually recorded for Indians. Personal factors quite likely come into play here, because our statures are not overstated and in the taking of the arm stretch the subjects were encouraged both by word and by example to stretch to their utmost. This resulted in one, two, or even more cms. being added to the first rather effortless attempt. We may repeat what we said on page 7, viz., that in taking this measurement the rod was held in front of the chest, and not behind it, with the result that, as experiment shows, from 1.0 cm. to 1.8 cm. (approximately 1.4 cm.) should be deducted from the arm stretch as recorded in this report in order to make it comparable with measurements taken conventionally.

Sitting Height and Sitting Height Index. As with the stature, so with the sitting height, it was not always feasible to make a correct reading because some cases would not be persuaded to sit erect. For this reason, and because some were round-backed, efforts to take this measurement had in a number of cases to be abandoned. This remark applies especially to the Island Lake women.

The sitting heights of the males at Island lake and at Gods lake are equivalent. So are the sitting heights of the women in these regions; the sexual difference being 6.7 cm.

The Oxford House men are, on an average, shorter in body but longer in limb than the Island Lake and Gods Lake men. This index is the most distinguishing trait of the Oxford House men. It would serve as a hallmark to differentiate a group of Oxford House men from a group of Island Lake men, and probably also from a group of Gods Lake men. It is especially to be noted that the Island Lake men and women both show a bi-modal frequency distribution of sitting height index, which is suggestive that we are dealing here with two groups or races of people, whom we are statistically treating as one. The dip between the two modes in the Island Lake men is at 52.2 index and in the women of Island lake at 52.9 index.

The Head. The head length (glabella ad maximum), the head width (biparietal maximum), and the face width (bizygomatic maximum) were taken with the greatest care and every confidence may be placed in their accuracy.

In obtaining the greatest head width in the women, a considerable amount of trouble was required, and was taken, in order to avoid the hair, which was often firmly plaited and tied at the back of the head, from interfering with the free play of the calipers.

With but two exceptions, the cephalic indices of all bands of both sexes fall between 70.0 and 85.0, the mean for the Island Lake and Gods Lake men and women being approximately 79.5, whereas for the Oxford House men it is 76.9. These, then, are a mesaticephalic people; those at Island lake and at Gods lake tending toward the brachycephalic end of the scale, the Oxford House men toward the dolichocephalic end. The usual sexual difference in the index pertains here, the women having slightly rounder heads than the men. The mean length of head for the men of each of the three bands is practically the same, viz., about 196.0 mm., and for the two bands of women about 188.5 mm. The heads of the women are, therefore, 7.5 mm. shorter than the heads of the men. The length of the head in no wise distinguishes one band from another; neither does the width of the head distinguish the women of Island lake and Gods lake from each other; the mean widths of their heads being about 150.0 mm. It is doubtful, moreover, if the width distinguishes the men of these two bands (Diff./P.E. diff., of this mean for Island Lake and Gods Lake men is only 2.3). The width of the head is, however, of the utmost value in making a differential diagnosis between groups of men from Oxford House and Island lake (Diff./P.E. diff. 8.1), and between groups from Oxford House and Gods lake (Diff./P.E. diff. 3.8). The cephalic index might also equally well be used for purposes of differentiating men of Oxford House from those of the other two bands, for, as it is not in length but in breadth that the heads of these men differ, the cephalic index under present circumstances merely expresses the relation of the width of the head to a constant.

Width of Face and Cephalo-facial Index. On consulting the table of cephalo-facial indices (biparietal-bizygomatic) it is seen that the men of Island lake and Gods lake have almost identical indices, viz., 94.4 and 94.5, respectively, and that the women of these two lakes likewise have almost identical indices, viz., 93.2 and 93.5 respectively. These are, perhaps, slightly low for full-blood Indians. It is surprising to find that the Oxford House men (though unquestionably of greater European admixture than the men of the other two bands) have the high cephalo-facial index of 95.9. This arrests the attention, because it is believed that if there be one index that will discriminate between Indian and Half-breed and between Half-breed and European it is the cephalo-facial index; the index should fall as the amount of white blood increases. In the table, page 40, which describes the distribution of the width of face, it is seen that the Island Lake men have the broadest faces; that the Gods Lake faces are narrower by 1.1 mm. and that the Oxford House faces are narrower by 2.4 mm. This is as we are accustomed to think it should be; the breadth of the zygomatic arch is diminishing or collapsing as the volume of white blood increases. The reason, then, that the Oxford House men have a high cephalo-facial index is not on account of their breadth of face (they have the narrowest of the faces), but on account of their narrow heads for their heads are 4.9 mm. narrower than those of Island lake, whereas their faces are only 2.4 mm. narrower, a difference of practically 2 to 1. Since the difference between the width of face of the Oxford House and the Island Lake men is 4.0 times its probable error, and the difference between their cephalo-facial indices is 4.6 times its probable error, these findings are scarcely to be regarded as illusionary. It would appear, then, that it is

apt to be unsafe to regard the cephalo-facial index as an entity; the diameters from which it is calculated must be considered as integral parts of it and due regard should be paid to them when the index is under consideration. The high cephalo-facial index of the Oxford House men must, therefore, not lead us into the error of regarding them as being of pure Indian stock.

The Face and Lip. When measuring the length of the face, it is, of course, not sufficient to see that the mouth is closed; the teeth must be biting on each other. Attention was paid to this.

It was not unusual for the hair to descend in a V-shaped peak on to the middle of the forehead. When it behaved in this manner, the apex of the peak was selected as the crinion. In this selection, the prescribed rule of marking the crinion as a point on the line that unites the highest part of the hair-line on each side of the forehead, was not followed. This departure, however, does not vitiate the end results of our menton-crinion (hair-line to chin) diameter, because this peculiarity in the hair-line is noted as occurring especially amongst the Gods Lake men. It, therefore, follows that the height of the forehead in these men is slightly understated; and there is no evidence that it differs in the different bands. Of the three bands of men, those at Gods lake have the longest faces (menton-nasion), the greatest facial index (i.e., the roundest faces), and also the widest foreheads. Moreover, they have longer upper lips than the Island Lake men.

Between the men of Island lake and those at Oxford House the differences in these facial proportions are of doubtful significance, though the Oxford House men tend, probably, to have shorter faces; and since they have, as has been stated above, the narrowest of the faces, it follows that their faces are also the smallest.

The Nose. In height of nose there is little, if any, difference between the three bands of men or between the two bands of women. The Gods Lake men have, perhaps, slightly the highest, and the Oxford House slightly the shortest, noses. In width of nose, however, the Island Lake men and women probably exceed for their respective sexes those of the other bands. The nose of the Island Lake men is certainly wider than that of the Oxford House men.

The Mouth. The mouths are large. The Gods Lake men and women have definitely the longest mouths for their respective sexes. The mouth tends to become longer in old age; between the mouths of the Oxford House men, and those of the Island Lake men there is little, if any, difference.

The Ears. Though the ears are of much the same length and of much the same breadth, and, therefore, of much the same index, amongst the three bands of men, those of the Oxford House men are, nonetheless, measurably the longest. With age they increase both in length and breadth, but more especially in length, so that the index tends to fall. The women have rounder ears than the men.

The Hands. It will be seen that the hands of the three groups of men are almost identical in length (192 to 193 mms.) and that those of both groups of women are 12 to 13 mm. shorter. For their respective sex groups, the Island Lake men and women have the narrowest hands and have, therefore, also the lowest indices—a long, narrow hand is characteristic of the Indian. The Oxford House men have the broadest hands

and have, therefore, also the highest hand index. This breadth of hand and this index serve absolutely to differentiate the Oxford House men from those at Island lake. (Diff./P.E. diff., of the breadth is 8.8 and of the index, 7.3.) They, moreover, distinguish the Oxford House from the Gods Lake men (Diff./P.E. diff., being 4.7 and 4.2 for breadth and index respectively). Under the heading of "Descriptive Characters" attention has already been called to the digital formula, page 13.

In concluding, we may compare these northeastern Manitoban Indians with the full-blood and half-blood Sioux. Let us first consider the Oxford House and the half-blood Siouan Indians because the opinion is current that the Oxford House men have coursing in their own veins much white blood. The bands inhabit, as was pointed out in the historical sketch, page 3, the main northern waterway of the white man. Their location has, therefore, obviously offered them opportunities of intermarriage with Europeans, which the other two bands have presumably not had to the same degree. Their general characteristics (e.g., complexion, colour of the eye, the frequency with which they suffer from dental caries, etc.) lend strong support to such a contention. On turning to the table of means on page 20, it at once becomes apparent that there is a very close similarity between them in stature, in arm stretch and its index, in sitting height and its index, and in many other proportions. The exact value of these mean or average measurements becomes apparent when the eye is carried down the fourth column of figures on table IV, which expresses the number of times a difference exceeds its probable error.

TABLE IV

In this table the measurements and the indices of the Island Lake and Oxford House Indians are contrasted with those of Siouan Indians. The figures in the table record the number of times the difference between two sets of a measurement (or of an index) is greater than the probable error of that difference. No entry has been made where a difference is less than twice its probable error. A blank space, therefore, indicates that the two groups of Indians, that are being compared, closely resemble each other in the measurement (or index) the space represents.

| Measurement of index | Males (aged 20-59 years) | | | | Females |
|---------------------------|----------------------------|----------------------------------|-----------------------------|-----------------------------------|----------------------------|
| | Island Lake and pure Sioux | Island Lake and half-blood Sioux | Oxford House and pure Sioux | Oxford House and half-blood Sioux | Island Lake and pure Sioux |
| Stature..... | 4.7 | 4.9 | | | 5.4 |
| Arm stretch index..... | | | | | |
| Sitting height..... | 5.0 | | | | 3.8 |
| Sitting height index..... | 15.5 | 8.0 | | | 10.4 |
| Cephalic index..... | | | 9.2 | 7.3 | 2.6 |
| Glabella ad maximum..... | 2.0 | 2.2 | | | 2.9 |
| Biparietal..... | | 2.4 | 9.2 | 6.1 | |
| Bizygomatic..... | 5.7 | 6.0 | 9.3 | | 6.9 |
| Cephalo-facial index..... | 8.8 | 5.0 | | 8.0 | 6.6 |
| Menton-crinion..... | 7.5 | 2.1 | 5.9 | | 4.7 |
| Menton-nasion..... | | 4.6 | 3.0 | | 2.4 |
| Facial index..... | 3.0 | | 3.5 | | 6.6 |
| Nose height..... | 10.5 | | 12.0 | | 15.5 |
| Nose width..... | | 7.4 | 4.7 | 2.8 | 9.0 |
| Nasal index..... | 7.1 | 4.8 | 4.4 | 3.0 | 3.5 |

Of the fifteen spaces, ten, it will be observed, are vacant, because in the features those spaces represent there is practically no difference between the two tribes. In three of the five occupied spaces it is stated that a difference exceeds its probable error more than six times, which is tantamount to saying that the chances are over 19,300 to 1 that the two groups of Indians under consideration differ in the items those spaces represent. These are the cephalic index, the head width (biparietal), and the cephalo-facial index. Of the two indices, the cephalic, of course, denotes the relation the biparietal diameter bears to the glabella ad maximum; the cephalo-facial, the relation the bizygomatic bears to the biparietal diameter.

Since the spaces that represent the glabella ad maximum and the bizygomatic diameters are blank, and the biparietal alone is occupied, it is evident that the biparietal diameter (or head width) is solely responsible for the high ratio of the two indices. And though the Oxford House Indians and the half-blood Sioux differ from each other in these three respects, one factor only, namely the width of head, and not three, is concerned.

At the bottom of the column it is seen that though the figures representing the width of the nose and the nasal index are slightly under 3.0, that which represents the height of the nose is less than 2.0, from which it may fairly certainly be assumed that the nose of the half-blood Sioux is slightly narrower than that of the Oxford House Indians. From the above, then, we surmise that the Oxford House Indians have likely as great an admixture of white blood as have the half-blood Sioux, and that of all the physical features with which we have to deal, only in breadth of head and in breadth of nose do they materially differ the one from the other; and especially in breadth of head.

Comparing the Oxford House Crees with the pure Sioux, we gather from the third column of table IV that these two tribes could be distinguished from each other by all the features represented in the table except the proportions of their trunks and limbs, lengths of heads, and their cephalo-facial indices. As we have already pointed out, we must beware of this index and regard it only in association with its component parts. When these are taken into account, it will be seen that the Oxford House head and face are both approximately 4.5 mm. narrower than the Siouan head and face. The absolute diameters differ very appreciably, but they differ to an equal extent, with the result that the index is unaffected.

Accepting the Oxford House Crees as part-breeds, similar in almost all their general features to the part-breed Sioux, we may note that the features of these part-breed Crees depart from those of the Island and Gods Lake Crees and Saulteaux in the same general direction as the part-breed Sioux do from the pure Sioux. These directions, especially perhaps in the case of the Cree, are towards the Nordic type. Notably is this true of the stature, the width of head, and the width of face, the shortness of the face, the breadth of the hand, and to some extent the breadth of nose and mouth. The high arm stretch of the pure Indian seems to be a dominant trait which persists in the breeds.

The male Crees and Saulteaux of Island lake may be differentiated from the pure Sioux in most of the tabulated features, the length and

breadth of head, the length of face and width of nose, alone excepted, and, between the women of these tribes, differences are detectable in probably all dimensions but the biparietal.

An endeavour has been made to group the people of the three regions in northeastern Manitoba into linguistic divisions; into those who are said to speak Saulteaux, and who were encamped at Smooth Rock on Island lake; into those who are said to speak mixed Saulteaux and Cree, and who dwelt partly at Island lake and partly at Gods lake; and into those who spoke Cree and who lived partly at Gods lake and partly at Oxford House. This grouping is certainly not perfect, since, for example, there are known instances of sisters being married into the two linguistic areas of Island lake, and, to some extent, all areas have been penetrated by intruders from neighbouring bands.

The average stature and sitting height index, together with the different diameters and indices of the head are presented in the accompanying table V, and though the table deals with persons between twenty and fifty-nine years of age, in the case of Gods Lake area those of sixty years and over have been included in order to make the numbers a little more presentable. To have calculated the standard deviations and the probable errors on this new basis would have entailed much labour and time. On that account, means only are recorded.

TABLE V

Average Measurements and Indices of Adults, Arranged According to the Dialect Spoken

| Dialect spoken | No. of cases | Stature | Sitting height index | Cephalic index | Cephalo-facial index | Facial index | Head length | Head breadth | Face length | Face breadth | Location |
|--------------------------|----------------------|---------|----------------------|----------------|----------------------|--------------|-------------|--------------|-------------|--------------|--|
| MALES | | | | | | | | | | | |
| Saulteaux..... | 25 | 1710 | 52.7 | 80.3 | 93.9 | 84.0 | 195.7 | 157.0 | 147.3 | 123.7 | Island lake Gods lake Oxford House |
| Mixed Saulteaux and Cree | 37 (43) ¹ | 1690 | 53.1 | 79.0 | 94.7 | 85.4 | 196.1 | 154.8 | 146.5 | 125.1 | |
| | 9-10 | 1718 | 52.3 | 80.0 | 94.9 | 87.0 | 193.6 | 154.8 | 146.8 | 127.6 | |
| Cree..... | 9-10 | 1722 | 52.1 | 77.8 | 95.5 | 86.0 | 199.6 | 155.3 | 148.2 | 126.6 | |
| | 55 | 1725 | 51.3 | 76.9 | 95.9 | 85.2 | 195.9 | 150.7 | 144.4 | 123.0 | |
| FEMALES | | | | | | | | | | | |
| Saulteaux..... | 32 | 1578 | 52.3 | 80.1 | 92.5 | 84.6 | 188.6 | 150.4 | 139.1 | 117.8 | Island lake Gods lake |
| Mixed Saulteaux and Cree | 68 | 1574 | 53.7 | 79.3 | 93.0 | 85.0 | 188.4 | 150.4 | 140.8 | 119.1 | |
| | 11 (15) ¹ | 1533 | 52.8 | 79.6 | 94.9 | 84.0 | 189.6 | 150.9 | 141.7 | 118.9 | |
| Cree..... | 17 (18) ¹ | 1613 | 52.4 | 79.8 | 93.1 | 86.1 | 188.1 | 150.1 | 139.7 | 120.3 | |

¹ Though the mean statures and sitting height indices of only 37, 11, and 17 individuals, respectively, are available, the head measurements apply to 43, 15, and 18.

Of the two linguistic groups at Island lake, those who speak the mixed dialect have been supposed to be descendants of the Cree Indians who, a hundred and fifty years, or six generations, ago, intermarried with the Eskimo women at the mouth of Severn river as was stated on page 4. If the people at Island lake who speak the mixed dialect are descendants of those who committed the desperately romantic act tradition attributes to them, we might expect the figures in the accompanying table to give some indication of the fact. If the figures relating to the proportions of the males and females of this group (recorded in the second line of each section of table V) be compared with the figures in the top line of each section of the same table, which refers to those who speak Saulteaux, it will be seen that they have the semblance of belonging to two slightly different types. The figures in the top line of each section, for the most part, rise and fall in unison, as do those of the second line of each section. Only in breadth of face is there complete discord amongst them. The men and women who speak Saulteaux are taller, have a smaller sitting height index, a larger cephalic index, smaller cephalo-facial and facial indices, and shorter faces than the men and women who speak the mixed dialect. In the diameters of the head the women are of identical or of almost identical proportions; in the men, these diameters differ somewhat. Regarded individually, most of the differences appear to be slight; collectively they are suggestive of some meagre difference in build. No measurement of those who speak the mixed dialect of Island lake in any way savours of Eskimoid admixture, neither do the frequency distribution tables appear to lend any support to the story but—this is not to refute it.

Even when divided into linguistic groups, these Indians still display a remarkable degree of homogeneity which is more marked among the women than among the men. Those at Oxford House stand somewhat apart, due doubtlessly, to intermarriage with the European.

The sitting height index, both of the Island Lake men and of the Island Lake women, it will be remembered, was of a bi-modal type. This seemed to be a presage that this region would be found to be inhabited by two distinct types.

It can hardly be said that this forecast has come true, for no other frequency distribution lends it support.



FREQUENCY DISTRIBUTION TABLES

Frequency Distribution of Stature

| Stature in cm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 148..... | | | | 6 | 1 |
| 151..... | | | | 13 | 3 |
| 154..... | 1 | | | 17 | 4 |
| 157..... | 3 | | | 15 | 3 |
| 160..... | 1 | | 1 | 29 | 10 |
| 163..... | 4 | | 1 | 11 | 1 |
| 166..... | 6 | 1 | 4 | 6 | 2 |
| 169..... | 17 | 5 | 5 | 2 | 0 |
| 172..... | 13 | 1 | 6 | 1 | 1 |
| 175..... | 12 | 3 | 6 | | |
| 178..... | 4 | 2 | 6 | | |
| 181..... | 0 | | 1 | | |
| 184..... | 1 | | 1 | | |
| Mean..... | 170.0 | 172.0 | 172.5 | 157.6 | 158.2 |
| σ | ± 5.65 | ± 3.87 | ± 5.39 | ± 5.22 | ± 5.30 |
| E_m | ± 0.48 | ± 0.75 | ± 0.65 | ± 0.35 | ± 0.71 |
| V..... | 3.32 | 2.25 | 3.13 | 3.31 | 3.35 |
| N..... | 62 | 12 | 31 | 100 | 25 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-------|-------|-------|-------|
| Mean..... | 165.7 | 171.9 | 164.1 | 160.0 | 157.9 |
| σ | ± 5.27 | | | | |
| E_m | ± 1.12 | | | | |
| V..... | 3.18 | | | | |
| N..... | 10 | 6 | 2 | 7 | 5 |

Distribution of Stature According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 129.8 | | | 1 | 132.9 | | | | | 1 | 130.0 |
| 11..... | 2 | 139.7 | | | 1 | 132.4 | | | | | 1 | 133.6 |
| 12..... | 2 | 138.2 | | | 1 | 133.9 | | | | | 1 | 143.9 |
| 13..... | 8 | 146.3 | | | 2 | 145.2 | 4 | 145.7 | | | 2 | 145.7 |
| 14..... | 6 | 149.2 | | | 3 | 141.5 | 2 | 147.5 | | | 3 | 149.8 |
| 15..... | 1 | 158.2 | | | 2 | 163.2 | 4 | 151.5 | 1 | 163.2 | 4 | 154.7 |
| 16..... | 4 | 159.5 | | | 0 | | 5 | 158.0 | 3 | 152.6 | 1 | 140.3 |
| 17..... | 5 | 170.0 | | | 3 | 149.9 | 4 | 160.4 | | | 0 | |
| 18..... | 4 | 169.1 | | | 2 | 162.2 | 5 | 154.0 | | | 0 | |
| 19..... | 3 | 168.1 | | | 1 | 167.5 | 8 | 156.2 | | | 2 | 156.1 |
| 20-59..... | 62 | 170.0 | 12 | 172.0 | 31 | 172.5 | 100 | 157.6 | 25 | 158.2 | | |
| 60+..... | 10 | 165.7 | 6 | 171.9 | 2 | 164.1 | 7 | 160.0 | 5 | 157.9 | | |

Frequency Distribution of Arm Stretch¹

| Arm stretch in cm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 154..... | | | | 2 | |
| 157..... | | | | 6 | |
| 160..... | | | | 7 | 1 |
| 163..... | | | | 20 | 2 |
| 166..... | | | | 20 | 7 |
| 169..... | 3 | | | 19 | 11 |
| 172..... | 5 | | 2 | 13 | 1 |
| 175..... | 6 | 2 | 2 | 4 | 3 |
| 178..... | 6 | 2 | 3 | 4 | |
| 181..... | 21 | 2 | 4 | 0 | |
| 184..... | 12 | 1 | 6 | 1 | |
| 187..... | 3 | 4 | 9 | | |
| 190..... | 4 | 1 | 3 | | |
| 193..... | 0 | | 2 | | |
| 196..... | 1 | | | | |
| Mean..... | 180.5 | 182.5 | 183.7 | 166.6 | 168.2 |
| σ | ± 5.52 | ± 4.97 | ± 5.51 | ± 5.62 | ± 3.55 |
| E_m | ± 0.48 | ± 0.97 | ± 0.67 | ± 0.39 | ± 0.48 |
| V..... | 3.06 | 2.73 | 3.00 | 3.38 | 2.11 |
| N..... | 61 | 12 | 31 | 96 | 25 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-------|-------|-------|-------|
| Mean..... | 177.4 | 183.9 | 178.6 | 167.3 | 171.9 |
| σ | ± 6.12 | | | | |
| E_m | ± 1.31 | | | | |
| V..... | 3.45 | | | | |
| N..... | 10 | 6 | 1 | 7 | 5 |

Distribution of Arm Stretch According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 136.8 | | | 1 | 150.0 | | | | | 1 | 144.6 |
| 11..... | 2 | 144.5 | | | 1 | 142.6 | | | | | 1 | 141.6 |
| 12..... | 2 | 145.4 | | | 1 | 151.9 | | | | | 1 | 158.8 |
| 13..... | 8 | 153.5 | | | 2 | 159.4 | 4 | 151.6 | | | 2 | 162.0 |
| 14..... | 6 | 154.9 | | | 3 | 155.4 | 2 | 156.2 | | | 3 | 166.0 |
| 15..... | 1 | 166.3 | | | 2 | 176.8 | 4 | 163.5 | 1 | 166.7 | 4 | 168.0 |
| 16..... | 4 | 167.1 | | | 0 | | 5 | 167.3 | 3 | 150.9 | 1 | 155.4 |
| 17..... | 5 | 177.9 | | | 3 | 166.0 | 4 | 168.0 | | | 0 | |
| 18..... | 4 | 180.0 | | | 2 | 175.6 | 3 | 160.6 | | | 0 | |
| 19..... | 3 | 174.5 | | | 1 | 181.0 | 8 | 167.8 | | | 2 | 172.3 |
| 20-59..... | 61 | 180.5 | 12 | 182.5 | 31 | 183.7 | 96 | 166.6 | 25 | 168.2 | | |
| 60+..... | 10 | 177.4 | 6 | 183.9 | 1 | 178.6 | 7 | 167.3 | 5 | 171.9 | | |

¹For correction See p. 23, or Table of Means, p. 20.

Frequency Distribution of Index of Arm Stretch¹

| Index | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 100..... | 1 | | | 2 | |
| 101..... | 0 | | | 0 | |
| 102..... | 1 | | | 7 | 1 |
| 103..... | 4 | | 2 | 6 | 0 |
| 104..... | 4 | 2 | 3 | 13 | 2 |
| 105..... | 9 | 3 | 6 | 14 | 5 |
| 106..... | 12 | 3 | 5 | 21 | 7 |
| 107..... | 13 | 2 | 6 | 13 | 4 |
| 108..... | 7 | 0 | 4 | 10 | 3 |
| 109..... | 4 | 1 | 3 | 6 | 3 |
| 110..... | 3 | 1 | 0 | 3 | |
| 111..... | 1 | | 0 | 1 | |
| 112..... | 1 | | 0 | | |
| 113..... | 1 | | 1 | | |
| Mean..... | 106.5 | 106.2 | 106.3 | 105.7 | 106.2 |
| σ | ± 2.34 | ± 1.77 | ± 2.18 | ± 2.22 | ± 1.68 |
| E_m | ± 0.20 | ± 0.35 | ± 0.26 | ± 0.15 | ± 0.23 |
| V..... | 2.19 | 1.67 | 2.06 | 2.10 | 1.58 |
| N..... | 61 | 12 | 31 | 96 | 25 |

| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
|---------------------------------|------------|-------|-------|-------|-------|
| Mean..... | 106.8 | 107.0 | 105.6 | 104.6 | 108.9 |
| σ | ± 1.47 | | | | |
| E_m | ± 0.31 | | | | |
| V..... | 1.38 | | | | |
| N..... | 10 | 6 | 1 | 7 | 5 |

Distribution of Index of Arm Stretch According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 105.4 | | | 1 | 112.9 | | | | | 1 | 111.2 |
| 11..... | 2 | 103.5 | | | 1 | 107.7 | | | | | 1 | 106.0 |
| 12..... | 2 | 105.2 | | | 1 | 113.4 | | | | | 1 | 110.4 |
| 13..... | 8 | 104.9 | | | 2 | 109.7 | 4 | 104.1 | | | 2 | 111.2 |
| 14..... | 6 | 103.8 | | | 3 | 109.7 | 2 | 105.9 | | | 3 | 110.8 |
| 15..... | 1 | 105.1 | | | 2 | 108.3 | 4 | 107.9 | 1 | 102.1 | 4 | 108.7 |
| 16..... | 4 | 104.9 | | | 0 | | 5 | 105.9 | 3 | 98.8 | 1 | 110.8 |
| 17..... | 5 | 104.7 | | | 3 | 110.8 | 4 | 104.7 | | | 0 | |
| 18..... | 4 | 106.5 | | | 2 | 108.2 | 3 | 104.2 | | | 0 | |
| 19..... | 3 | 103.8 | | | 1 | 108.1 | 8 | 107.4 | | | 2 | 110.4 |
| 20-59..... | 61 | 106.5 | 12 | 106.2 | 31 | 106.3 | 96 | 105.7 | 25 | 106.2 | | |
| 60+..... | 10 | 106.8 | 6 | 107.0 | 1 | 105.6 | 7 | 104.6 | 5 | 108.9 | | |

¹For correction See p. 23, or Table of Means, p. 20.

Frequency Distribution of Sitting Height

| Sitting height in cm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 76.0 | | | | 2 | |
| 77.5 | | | | 1 | 2 |
| 79.0 | | | | 8 | 2 |
| 80.5 | | | | 5 | 3 |
| 82.0 | 1 | | | 16 | 5 |
| 83.5 | 1 | 2 | 1 | 19 | 2 |
| 85.0 | 3 | 0 | 4 | 12 | 5 |
| 86.5 | 7 | 0 | 5 | 10 | 2 |
| 88.0 | 10 | 1 | 6 | 4 | 3 |
| 89.5 | 9 | 2 | 5 | 1 | 1 |
| 91.0 | 16 | 3 | 5 | | |
| 92.5 | 7 | 3 | 4 | | |
| 94.0 | 5 | 0 | 1 | | |
| 95.5 | 2 | 1 | | | |
| 97.0 | 1 | | | | |
| Mean | 89.9 | 90.0 | 88.7 | 83.2 | 83.3 |
| σ | ± 3.00 | ± 3.43 | ± 2.69 | ± 2.82 | ± 3.32 |
| E_m | ± 0.26 | ± 0.67 | ± 0.33 | ± 0.22 | ± 0.45 |
| V | 3.34 | 3.81 | 3.03 | 3.38 | 3.99 |
| N | 62 | 12 | 31 | 78 | 25 |

| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
|---------------------------------|------------|------|------|------|------|
| Mean | 87.0 | 89.1 | 85.5 | 84.0 | 81.7 |
| σ | ± 2.65 | | | | |
| E_m | ± 0.59 | | | | |
| V | 3.04 | | | | |
| N | 9 | 6 | 2 | 6 | 6 |

Distribution of Sitting Height According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10 | 4 | 68.5 | | | 1 | 71.6 | | | | | 1 | 73.9 |
| 11 | 2 | 73.9 | | | 1 | 71.4 | | | | | 1 | 73.5 |
| 12 | 2 | 72.2 | | | 1 | 74.3 | | | | | 1 | 78.6 |
| 13 | 8 | 76.6 | | | 2 | 76.3 | 4 | 76.3 | | | 2 | 78.1 |
| 14 | 6 | 78.2 | | | 3 | 77.6 | 2 | 77.5 | | | 3 | 81.5 |
| 15 | 1 | 81.5 | | | 2 | 89.0 | 4 | 79.8 | 1 | 86.5 | 4 | 82.9 |
| 16 | 4 | 83.5 | | | 0 | | 4 | 82.8 | 3 | 80.6 | 1 | 79.4 |
| 17 | 5 | 89.8 | | | 3 | 80.9 | 3 | 83.8 | | | 0 | |
| 18 | 4 | 89.0 | | | 2 | 88.2 | 3 | 82.6 | | | 0 | |
| 19 | 3 | 89.7 | | | 1 | 91.2 | 7 | 82.5 | | | 2 | 85.8 |
| 20-59 | 62 | 89.9 | 12 | 90.0 | 31 | 88.7 | 78 | 83.2 | 25 | 83.3 | | |
| 60+ | 9 | 87.0 | 6 | 89.1 | 2 | 85.5 | 6 | 84.0 | 6 | 81.7 | | |

Frequency Distribution of Sitting Height Index

| Index | Male | | | Female | |
|-------------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 48.0 | | 1 | | | |
| 48.7 | | 0 | 3 | | |
| 49.4 | | 1 | 2 | 1 | 1 |
| 50.1 | | 0 | 3 | 2 | 1 |
| 50.8 | 4 | 1 | 6 | 6 | 1 |
| 51.5 | 15 | 1 | 10 | 16 | 4 |
| 52.2 | 8 | 1 | 5 | 20 | 7 |
| 52.9 | 15 | 5 | 2 | 9 | 5 |
| 53.6 | 11 | 1 | | 17 | 4 |
| 54.3 | 9 | 1 | | 6 | 0 |
| 55.0 | | | | 0 | 1 |
| 55.7 | | | | 1 | |
| Mean | 53.0 | 52.3 | 51.3 | 52.8 | 52.6 |
| σ | ± 1.07 | ± 1.74 | ± 1.14 | ± 1.18 | ± 1.19 |
| Em | ± 0.09 | ± 0.34 | ± 0.14 | ± 0.09 | ± 0.16 |
| V | 2.01 | 3.33 | 2.23 | 2.23 | 2.26 |
| N | 62 | 12 | 31 | 78 | 24 |

| | | | | | |
|--|------------|------|------|------|------|
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean | 52.7 | 51.9 | 53.6 | 52.5 | 52.0 |
| σ | ± 1.47 | | | | |
| Em | ± 0.33 | | | | |
| V | 2.79 | | | | |
| N | 9 | 6 | 1 | 5 | 6 |

Distribution of Sitting Height Index According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10 | 4 | 52.8 | | | 1 | 53.9 | | | | | 1 | 56.8 |
| 11 | 2 | 52.9 | | | 1 | 53.9 | | | | | 1 | 55.0 |
| 12 | 2 | 52.3 | | | 1 | 55.5 | | | | | 1 | 54.6 |
| 13 | 8 | 52.4 | | | 2 | 52.5 | 4 | 52.3 | | | 2 | 53.6 |
| 14 | 6 | 52.4 | | | 3 | 54.8 | 2 | 52.5 | | | 3 | 54.5 |
| 15 | 1 | 51.5 | | | 2 | 54.5 | 4 | 52.7 | 1 | 53.0 | 4 | 53.6 |
| 16 | 4 | 52.3 | | | 0 | | 4 | 52.1 | 3 | 52.8 | 1 | 56.6 |
| 17 | 5 | 52.8 | | | 3 | 54 | 3 | 52.6 | | | 0 | |
| 18 | 4 | 52.7 | | | 2 | 54.4 | 3 | 53.8 | | | 0 | |
| 19 | 3 | 53.4 | | | 1 | 54.5 | 7 | 53.0 | | | 2 | 55 |
| 20-59 | 62 | 53.0 | 12 | 52.3 | 31 | 51.3 | 78 | 52.7 | 24 | 52.6 | | |
| 60+ | 9 | 52.6 | 6 | 51.9 | 1 | 53.6 | 5 | 52.5 | 6 | 52.0 | | |

Frequency Distribution of Cephalic Index

| Index | Male | | | Female | |
|---------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 65.1..... | | | 1 | | |
| 66.4..... | | | 0 | | |
| 67.7..... | | | 0 | | |
| 69.0..... | | | 0 | | |
| 70.3..... | | | 2 | | |
| 71.6..... | | | 1 | | |
| 72.9..... | 1 | | 6 | | |
| 74.2..... | 6 | 1 | 5 | 2 | |
| 75.5..... | 5 | 4 | 8 | 7 | 3 |
| 76.8..... | 10 | 1 | 12 | 14 | 4 |
| 78.1..... | 8 | 4 | 9 | 26 | 5 |
| 79.4..... | 18 | 2 | 6 | 18 | 8 |
| 80.7..... | 8 | 2 | 4 | 11 | 4 |
| 82.0..... | 4 | 2 | 1 | 10 | 3 |
| 83.3..... | 5 | 1 | | 6 | |
| 84.6..... | 3 | | | 5 | |
| 85.7..... | | | | 0 | |
| 87.2..... | | | | 1 | |
| Mean..... | 79.4 | 79.0 | 76.9 | 79.9 | 79.4 |
| σ | ± 2.81 | ± 2.62 | ± 3.06 | ± 2.59 | ± 1.92 |
| E_m | ± 0.23 | ± 0.43 | ± 0.28 | ± 0.17 | ± 0.25 |
| V..... | 3.54 | 3.32 | 3.98 | 3.24 | 2.41 |
| N..... | 68 | 17 | 55 | 100 | 27 |
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 80.0 | 79.3 | 80.4 | 79.8 | 80.6 |
| σ | ± 2.91 | | | ± 3.61 | ± 1.08 |
| E_m | ± 0.52 | | | ± 0.63 | ± 0.24 |
| V..... | 3.63 | | | 4.52 | 1.34 |
| N..... | 14 | 7 | 4 | 15 | 9 |

Distribution of Cephalic Index According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 80.5 | | | 1 | 78.5 | | | | | 1 | 79.8 |
| 11..... | 2 | 80.4 | | | 1 | 81.7 | | | | | 1 | 79.3 |
| 12..... | 2 | 80.8 | | | 1 | 80.9 | | | | | 1 | 80.6 |
| 13..... | 8 | 81.4 | | | 2 | 79.4 | 4 | 77.8 | | | 2 | 76.4 |
| 14..... | 6 | 81.0 | | | 3 | 80.0 | 2 | 79.2 | | | 3 | 80.0 |
| 15..... | 1 | 75.4 | | | 2 | 76.8 | 4 | 80.8 | 1 | 77.7 | 4 | 78.7 |
| 16..... | 4 | 78.4 | | | 1 | 85.6 | 5 | 81.1 | 3 | 79.7 | 1 | 84.8 |
| 17..... | 5 | 78.3 | | | 3 | 78.1 | 5 | 78.7 | | | 0 | |
| 18..... | 4 | 77.5 | | | 2 | 79.0 | 5 | 80.0 | | | 0 | |
| 19..... | 3 | 82.4 | | | 3 | 74.9 | 8 | 81.4 | | | 2 | 78.4 |
| 20-59..... | 68 | 79.4 | 17 | 79.0 | 55 | 76.9 | 100 | 79.9 | 27 | 79.4 | | |
| 60+..... | 14 | 80.0 | 7 | 79.3 | 4 | 80.4 | 15 | 79.8 | 9 | 80.6 | | |

Frequency Distribution of Length of Head (Glabella Ad Maximum)

| Length of head in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 174..... | | | | 3 | |
| 177..... | 1 | | | 4 | |
| 180..... | 1 | | 1 | 8 | 1 |
| 183..... | 4 | 1 | 0 | 13 | 7 |
| 186..... | 1 | 1 | 0 | 22 | 4 |
| 189..... | 7 | 3 | 12 | 24 | 8 |
| 192..... | 15 | 4 | 11 | 9 | 5 |
| 195..... | 13 | 2 | 14 | 9 | 2 |
| 198..... | 8 | 1 | 6 | 8 | |
| 201..... | 7 | 5 | 3 | | |
| 204..... | 6 | | 5 | | |
| 207..... | 3 | | 3 | | |
| 210..... | 2 | | | | |
| Mean..... | 196.1 | 194.9 | 195.9 | 188.4 | 188.7 |
| σ | ± 6.95 | ± 5.63 | ± 5.65 | ± 5.81 | ± 4.03 |
| Em..... | ± 0.57 | ± 0.92 | ± 0.51 | ± 0.39 | ± 0.52 |
| V..... | 3.54 | 2.89 | 2.88 | 3.08 | 2.13 |
| N..... | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-------|-------|-------------|------------|
| Mean..... | 196.4 | 200.0 | 195.5 | 190.0 | 190.3 |
| σ | ± 6.40 | | | ± 10.39 | ± 3.59 |
| Em..... | ± 1.15 | | | ± 1.75 | ± 0.81 |
| V..... | 3.26 | | | 5.47 | 1.89 |
| N..... | 14 | 7 | 4 | 15 | 9 |

Distribution of Length of Head According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 182.0 | | | 1 | 186.0 | | | | | 1 | 178.0 |
| 11..... | 2 | 179.0 | | | 1 | 175.0 | | | | | 1 | 176.5 |
| 12..... | 2 | 185.0 | | | 1 | 181.0 | | | | | 1 | 175.5 |
| 13..... | 8 | 184.0 | | | 2 | 189.0 | 4 | 183.0 | | | 2 | 188.0 |
| 14..... | 6 | 186.0 | | | 3 | 182.0 | 2 | 183.0 | | | 3 | 186.0 |
| 15..... | 1 | 197.5 | | | 2 | 194.0 | 4 | 186.0 | 1 | 193.0 | 4 | 185.5 |
| 16..... | 4 | 187.0 | | | 1 | 181.0 | 5 | 187.0 | 3 | 184.0 | 1 | 174.0 |
| 17..... | 5 | 193.0 | | | 3 | 181.5 | 5 | 187.0 | | | 0 | |
| 18..... | 4 | 196.0 | | | 2 | 188.5 | 5 | 184.0 | | | 0 | |
| 19..... | 3 | 189.5 | | | 3 | 195.0 | 8 | 182.0 | | | 2 | 185.0 |
| 20-59..... | 68 | 196.1 | 17 | 194.9 | 55 | 195.9 | 100 | 188.4 | 27 | 188.7 | | |
| 60+..... | 14 | 196.4 | 7 | 200.0 | 4 | 195.5 | 15 | 190.0 | 9 | 190.3 | | |

Frequency Distribution of Width of Head (Biparietal Maximum)

| Width of head in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 135..... | | | 1 | | |
| 138..... | | | 2 | | |
| 141..... | | | 1 | 2 | 1 |
| 144..... | 3 | | 5 | 14 | 3 |
| 147..... | 6 | 2 | 11 | 26 | 12 |
| 150..... | 6 | 4 | 13 | 28 | 5 |
| 153..... | 18 | 8 | 15 | 20 | 4 |
| 156..... | 19 | 1 | 5 | 10 | 2 |
| 159..... | 6 | 1 | 2 | | |
| 162..... | 8 | 0 | | | |
| 165..... | 2 | 1 | | | |
| Mean..... | 155.6 | 153.8 | 150.7 | 150.4 | 149.6 |
| σ | ± 4.95 | ± 4.18 | ± 4.94 | ± 3.75 | ± 3.59 |
| E_m | ± 0.40 | ± 0.68 | ± 0.45 | ± 0.25 | ± 0.47 |
| V..... | 3.18 | 2.71 | 3.28 | 2.49 | 2.40 |
| N..... | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-------|-------|------------|------------|
| Mean..... | 157.2 | 158.5 | 157.0 | 152.1 | 153.0 |
| σ | ± 4.00 | | | ± 2.57 | ± 2.00 |
| E_m | ± 0.72 | | | ± 0.43 | ± 0.45 |
| V..... | 2.55 | | | 1.69 | 1.31 |
| N..... | 14 | 7 | 4 | 16 | 9 |

Distribution of Width of Head According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 146.0 | | | 1 | 146.0 | | | | | 1 | 142.0 |
| 11..... | 2 | 144.0 | | | 1 | 143.0 | | | | | 1 | 140.0 |
| 12..... | 2 | 149.5 | | | 1 | 146.5 | | | | | 1 | 141.5 |
| 13..... | 8 | 150.0 | | | 2 | 150.0 | 4 | 142.5 | | | 2 | 144.0 |
| 14..... | 6 | 150.0 | | | 3 | 145.5 | 2 | 144.5 | | | 3 | 149.0 |
| 15..... | 1 | 149.0 | | | 2 | 149.0 | 4 | 150.5 | 1 | 150.0 | 4 | 146.0 |
| 16..... | 4 | 146.5 | | | 1 | 155.0 | 5 | 151.0 | 3 | 147.0 | 1 | 147.5 |
| 17..... | 5 | 151.0 | | | 3 | 142.0 | 5 | 147.0 | | | 0 | |
| 18..... | 4 | 152.0 | | | 2 | 149.0 | 5 | 147.0 | | | 0 | |
| 19..... | 3 | 156.0 | | | 3 | 146.0 | 8 | 148.0 | | | 2 | 145.0 |
| 20-59..... | 68 | 155.6 | 17 | 153.8 | 55 | 150.7 | 100 | 150.4 | 27 | 149.6 | | |
| 60+..... | 14 | 157.2 | 7 | 158.5 | 4 | 157.0 | 16 | 152.1 | 9 | 153.0 | | |

Frequency Distribution of Width of Face (Bizygomatic Maximum)

| Width of face in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 132..... | | | 1 | 8 | 3 |
| 135..... | | 2 | 4 | 18 | 3 |
| 138..... | 4 | 2 | 8 | 27 | 11 |
| 141..... | 14 | 1 | 13 | 22 | 7 |
| 144..... | 16 | 4 | 10 | 23 | 1 |
| 147..... | 17 | 3 | 9 | 2 | 2 |
| 150..... | 7 | 4 | 5 | | |
| 153..... | 8 | 0 | 5 | | |
| 156..... | 2 | 1 | | | |
| Mean..... | 146.8 | 145.7 | 144.4 | 140.2 | 139.7 |
| σ | ± 4.52 | ± 5.69 | ± 5.26 | ± 3.87 | ± 3.77 |
| E_m | ± 0.37 | ± 0.93 | ± 0.48 | ± 0.26 | ± 0.49 |
| V | 3.08 | 3.90 | 3.64 | 2.76 | 2.70 |
| N | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-----|-----|------------|------------|
| Mean..... | 149.5 | 151 | 148 | 141.3 | 143.7 |
| σ | ± 3.89 | | | ± 3.27 | ± 4.92 |
| E_m | ± 0.70 | | | ± 0.55 | ± 1.11 |
| V | 2.60 | | | 2.31 | 3.43 |
| N | 14 | 7 | 4 | 16 | 9 |

Distribution of Width of Face According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 4 | 126.5 | | | 1 | 128.0 | | | | | 1 | 122.5 |
| 11..... | 2 | 125.5 | | | 1 | 125.0 | | | | | 1 | 122.5 |
| 12..... | 2 | 134.0 | | | 1 | 135.5 | | | | | 1 | 128.0 |
| 13..... | 8 | 133.0 | | | 2 | 134.0 | 4 | 130.5 | | | 2 | 128.0 |
| 14..... | 6 | 132.5 | | | 3 | 127.5 | 2 | 132.5 | | | 3 | 134.0 |
| 15..... | 1 | 135.5 | | | 2 | 138.5 | 4 | 140.5 | 1 | 137.0 | 4 | 131.5 |
| 16..... | 4 | 136.0 | | | 1 | 141.5 | 5 | 139.0 | 3 | 135.0 | 1 | 127.5 |
| 17..... | 5 | 144.0 | | | 3 | 133.0 | 5 | 137.5 | | | 0 | |
| 18..... | 4 | 141.5 | | | 2 | 140.0 | 5 | 135.0 | | | 0 | |
| 19..... | 3 | 142.5 | | | 3 | 139.0 | 8 | 137.5 | | | 2 | 131.0 |
| 20-59..... | 68 | 146.8 | 17 | 145.7 | 55 | 144.4 | 100 | 140.2 | 27 | 139.7 | | |
| 60+..... | 14 | 149.5 | 7 | 151.0 | 4 | 148.0 | 16 | 141.2 | 9 | 143.7 | | |

Frequency Distribution of Biparietal-Bizygomatic (Cephalo-Facial) Index

| Index | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 88.0 | 1 | 1 | ..... | 2 | ..... |
| 89.5 | 0 | 1 | 1 | 6 | 2 |
| 91.0 | 6 | 1 | 2 | 18 | 4 |
| 92.5 | 12 | 3 | 7 | 22 | 5 |
| 94.0 | 19 | 4 | 15 | 28 | 7 |
| 95.5 | 20 | 1 | 6 | 18 | 8 |
| 97.0 | 7 | 3 | 8 | 6 | 1 |
| 98.5 | 2 | 1 | 8 | ..... | ..... |
| 100.0 | 1 | 2 | 5 | ..... | ..... |
| 101.5 | ..... | ..... | 1 | ..... | ..... |
| 103.0 | ..... | ..... | 1 | ..... | ..... |
| 104.5 | ..... | ..... | 1 | ..... | ..... |
| Mean | 94.4 | 94.5 | 95.9 | 93.2 | 93.5 |
| σ | ± 2.08 | ± 3.33 | ± 3.10 | ± 2.08 | ± 2.00 |
| Em. | ± 0.17 | ± 0.55 | ± 0.28 | ± 0.14 | ± 0.26 |
| V. | 2.20 | 3.52 | 3.23 | 2.24 | 2.14 |
| N. | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------|------------|-------|-------|------------|------------|
| Mean | 95.1 | 95.4 | 94.4 | 92.7 | 93.8 |
| σ | ± 2.30 | | | ± 2.24 | ± 2.29 |
| Em. | ± 0.41 | | | ± 0.38 | ± 0.51 |
| V. | 2.42 | ..... | ..... | 2.42 | 2.44 |
| N. | 14 | 7 | 4 | 16 | 9 |

*Distribution of Biparietal-Bizygomatic (Cephalo-Facial) Index
According to Age*

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|-------|--------------|------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10 | 4 | 86.6 | ..... | ..... | 1 | 87.7 | ..... | ..... | ..... | ..... | 1 | 86.3 |
| 11 | 2 | 87.3 | ..... | ..... | 1 | 87.4 | ..... | ..... | ..... | ..... | 1 | 87.5 |
| 12 | 2 | 89.6 | ..... | ..... | 1 | 92.5 | ..... | ..... | ..... | ..... | 1 | 90.5 |
| 13 | 8 | 88.9 | ..... | ..... | 2 | 89.5 | 4 | 91.6 | ..... | ..... | 2 | 89.2 |
| 14 | 6 | 88.1 | ..... | ..... | 3 | 87.9 | 2 | 91.7 | ..... | ..... | 3 | 89.8 |
| 15 | 1 | 90.9 | ..... | ..... | 2 | 93.0 | 4 | 93.5 | 1 | 91.3 | 4 | 90.2 |
| 16 | 4 | 93.0 | ..... | ..... | 1 | 91.3 | 5 | 92.1 | 3 | 92.1 | 1 | 86.4 |
| 17 | 5 | 95.4 | ..... | ..... | 3 | 94.1 | 5 | 93.6 | ..... | ..... | 0 | ..... |
| 18 | 4 | 93.2 | ..... | ..... | 2 | 93.8 | 5 | 91.8 | ..... | ..... | 0 | ..... |
| 19 | 3 | 91.4 | ..... | ..... | 3 | 95.3 | 8 | 93.1 | ..... | ..... | 2 | 90.4 |
| 20-59 | 68 | 94.4 | 17 | 94.5 | 55 | 95.9 | 100 | 93.2 | 27 | 93.5 | ..... | ..... |
| 60+ | 14 | 95.1 | 7 | 95.4 | 4 | 94.4 | 16 | 92.7 | 9 | 93.8 | ..... | ..... |

Frequency Distribution of Width of Forehead (Frontal Minimum)

| Width of forehead in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 91..... | 1 | | | | |
| 94..... | 3 | | 2 | 5 | |
| 97..... | 4 | | 5 | 19 | 4 |
| 100..... | 12 | 2 | 11 | 23 | 9 |
| 103..... | 16 | 6 | 15 | 32 | 8 |
| 106..... | 20 | 6 | 11 | 13 | 5 |
| 109..... | 6 | 1 | 7 | 6 | 1 |
| 112..... | 3 | 2 | 4 | 2 | |
| 115..... | 2 | | | | |
| Mean..... | 104.7 | 106.1 | 104.5 | 102.7 | 102.9 |
| σ | ± 4.78 | ± 3.38 | ± 4.47 | ± 4.01 | ± 3.18 |
| Em..... | ± 0.39 | ± 0.55 | ± 0.41 | ± 0.27 | ± 0.41 |
| V..... | 4.57 | 3.18 | 4.23 | 3.91 | 3.09 |
| N..... | 67 | 17 | 55 | 100 | 27 |

| | | | | | |
|---------------------------------|------------|-----|-----|------------|------------|
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 103.4 | 107 | 108 | 102.1 | 105.0 |
| σ | ± 2.82 | | | ± 2.78 | ± 3.46 |
| Em..... | ± 0.51 | | | ± 0.47 | ± 0.78 |
| V..... | 2.73 | | | 2.72 | 3.30 |
| N..... | 14 | 7 | 4 | 16 | 9 |

Distribution of Width of Forehead According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 99.0 | | | 1 | 101.0 | | | | | 1 | 101.0 |
| 11..... | 0 | | | | 1 | 97.0 | | | | | 1 | 96.0 |
| 12..... | 2 | 100.0 | | | 1 | 106.0 | | | | | 1 | 101.0 |
| 13..... | 8 | 102.0 | | | 2 | 103.0 | 4 | 100.0 | | | 2 | 101.5 |
| 14..... | 6 | 104.0 | | | 3 | 100.0 | 2 | 103.5 | | | 3 | 104.0 |
| 15..... | 1 | 105.0 | | | 2 | 105.0 | 4 | 105.0 | 1 | 111.0 | 4 | 102.5 |
| 16..... | 4 | 103.5 | | | 1 | 101.0 | 5 | 106.5 | 3 | 103.0 | 1 | 95.0 |
| 17..... | 5 | 103.0 | | | 3 | 99.0 | 5 | 101.5 | | | 0 | |
| 18..... | 4 | 107.0 | | | 2 | 101.5 | 5 | 102.5 | | | 0 | |
| 19..... | 3 | 105.0 | | | 3 | 103.0 | 8 | 103.0 | | | 2 | 101.0 |
| 20-59..... | 67 | 104.7 | 17 | 106.1 | 55 | 104.5 | 100 | 102.6 | 27 | 102.9 | | |
| 60+..... | 14 | 103.4 | 7 | 107.0 | 4 | 103.0 | 16 | 102.1 | 9 | 105.0 | | |

Frequency Distribution of Length of Face (Menton-Crinion)

| Length of face in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 155..... | | | | 2 | 1 |
| 160..... | | | 1 | 2 | 6 |
| 165..... | 3 | | 2 | 20 | 2 |
| 170..... | 4 | 2 | 2 | 18 | 6 |
| 175..... | 15 | 2 | 12 | 27 | 5 |
| 180..... | 11 | 0 | 13 | 16 | 5 |
| 185..... | 14 | 7 | 8 | 11 | 0 |
| 190..... | 14 | 3 | 8 | 3 | 2 |
| 195..... | 6 | 3 | 5 | 1 | |
| 200..... | 1 | | 4 | | |
| Mean..... | 184.4 | 186.7 | 184.6 | 176.0 | 178.1 |
| σ | ± 8.20 | ± 7.76 | ± 9.22 | ± 7.85 | ± 9.16 |
| Em..... | ± 0.67 | ± 1.27 | ± 0.84 | ± 0.53 | ± 1.19 |
| V..... | 4.45 | 4.16 | 5.00 | 4.46 | 5.14 |
| N..... | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-------|-------|------------|------------|
| Mean..... | 186.3 | 187.0 | 187.0 | 176.3 | 173.1 |
| σ | ± 7.76 | | | ± 9.29 | ± 4.58 |
| Em..... | ± 1.40 | | | ± 1.62 | ± 1.03 |
| V..... | 4.17 | | | 5.27 | 2.65 |
| N..... | 14 | 7 | 4 | 15 | 9 |

Distribution of Length of Face According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 166.0 | | | 1 | 163.0 | | | | | 1 | 147.0 |
| 11..... | 0 | | | | 1 | 162.0 | | | | | 1 | 162.0 |
| 12..... | 2 | 168.5 | | | 1 | 160.0 | | | | | 1 | 159.0 |
| 13..... | 8 | 165.0 | | | 2 | 169.5 | 4 | 160.5 | | | 2 | 164.0 |
| 14..... | 6 | 169.0 | | | 3 | 168.0 | 2 | 169.0 | | | 3 | 182.0 |
| 15..... | 1 | 184.0 | | | 2 | 185.5 | 4 | 171.5 | 1 | 157.0 | 4 | 173.0 |
| 16..... | 4 | 173.5 | | | 1 | 174.0 | 5 | 175.0 | 3 | 169.0 | 1 | 160.0 |
| 17..... | 5 | 186.5 | | | 3 | 176.0 | 5 | 173.0 | | | 0 | |
| 18..... | 4 | 180.5 | | | 2 | 189.0 | 5 | 177.5 | | | 0 | |
| 19..... | 3 | 184.0 | | | 3 | 182.0 | 8 | 174.5 | | | 2 | 173.0 |
| 20-59..... | 68 | 184.3 | 17 | 186.7 | 55 | 184.6 | 100 | 175.9 | 27 | 178.1 | | |
| 60+..... | 14 | 186.3 | 7 | 187.0 | 4 | 187.0 | 15 | 176.4 | 9 | 173.1 | | |

Frequency Distribution of Length of Face (Menton-Nasion)

| Length of face in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 104..... | 1 | | | 1 | |
| 107..... | 0 | | 1 | 2 | 1 |
| 110..... | 2 | | 2 | 5 | 0 |
| 113..... | 1 | | 1 | 20 | 2 |
| 116..... | 5 | | 6 | 25 | 8 |
| 119..... | 9 | 2 | 13 | 15 | 9 |
| 122..... | 13 | 4 | 13 | 21 | 3 |
| 125..... | 19 | 5 | 6 | 10 | 1 |
| 128..... | 5 | 1 | 8 | 1 | 2 |
| 131..... | 9 | 3 | 4 | | 1 |
| 133..... | 2 | 1 | 0 | | |
| 137..... | 2 | 1 | 0 | | |
| 140..... | | | 1 | | |
| Mean..... | 124.7 | 127.1 | 122.9 | 118.5 | 119.9 |
| σ | ± 6.16 | ± 5.03 | ± 5.90 | ± 4.77 | ± 4.93 |
| E_m | ± 0.50 | ± 0.82 | ± 0.54 | ± 0.32 | ± 0.64 |
| V..... | 4.94 | 3.96 | 4.80 | 4.03 | 4.11 |
| N..... | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-------|-------|------------|------------|
| Mean..... | 127.3 | 125.5 | 126.0 | 118.1 | 119.0 |
| σ | ± 6.96 | | | ± 4.85 | ± 5.48 |
| E_m | ± 1.26 | | | ± 0.82 | ± 1.23 |
| V..... | 5.47 | | | 4.10 | 4.60 |
| N..... | 14 | 7 | 4 | 16 | 9 |

Distribution of Length of Face According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|-------|-----------|-------|--------------|-------|-------------|-------|-----------|-------|--------------|-------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 107.0 | | | 1 | 102.0 | | | | | 1 | 101.0 |
| 11..... | 1 | 101.0 | | | 1 | 102.0 | | | | | 1 | 109.0 |
| 12..... | 2 | 113.5 | | | 1 | 109.0 | | | | | 1 | 101.0 |
| 13..... | 8 | 111.5 | | | 2 | 112.5 | 4 | 107.0 | | | 2 | 110.5 |
| 14..... | 6 | 112.0 | | | 3 | 113.0 | 2 | 109.5 | | | 3 | 118.0 |
| 15..... | 1 | 121.0 | | | 2 | 123.0 | 4 | 111.0 | 1 | 114.0 | 4 | 115.5 |
| 16..... | 4 | 116.0 | | | 1 | 118.0 | 5 | 115.0 | 3 | 113.0 | 1 | 101.0 |
| 17..... | 5 | 127.0 | | | 3 | 116.0 | 5 | 117.5 | | | 0 | |
| 18..... | 4 | 123.5 | | | 2 | 128.0 | 5 | 118.5 | | | 0 | |
| 19..... | 3 | 120.0 | | | 3 | 122.0 | 8 | 115.0 | | | 2 | 115.0 |
| 20-59..... | 68 | 124.7 | 17 | 127.1 | 55 | 122.9 | 100 | 118.5 | 27 | 119.9 | | |
| 60+..... | 14 | 127.3 | 7 | 125.5 | 4 | 126.0 | 16 | 118.1 | 9 | 119.0 | | |

*Frequency Distribution of Facial Index (Menton-Nasion-
Bizygomatic Maximum)*

| Index | Male | | | Female | |
|---------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 69.3..... | 1 | | | | |
| 71.4..... | 0 | | | | |
| 73.5..... | 0 | | | 1 | |
| 75.6..... | 1 | | 3 | 1 | 1 |
| 77.7..... | 4 | 1 | 2 | 6 | 0 |
| 79.8..... | 10 | 1 | 6 | 18 | 4 |
| 81.9..... | 15 | 2 | 11 | 15 | 2 |
| 84.0..... | 12 | 2 | 10 | 23 | 9 |
| 86.1..... | 12 | 3 | 6 | 20 | 6 |
| 88.2..... | 6 | 3 | 9 | 9 | 1 |
| 90.3..... | 3 | 1 | 4 | 5 | 2 |
| 92.4..... | 2 | 3 | 1 | 2 | 1 |
| 94.5..... | 1 | 1 | 1 | | 0 |
| 96.6..... | 1 | | 1 | | 1 |
| Mean..... | 84.8 | 87.7 | 85.2 | 84.6 | 85.8 |
| σ | ± 4.49 | ± 4.65 | ± 4.74 | ± 3.71 | ± 4.24 |
| Em..... | ± 0.37 | ± 0.76 | ± 0.43 | ± 0.25 | ± 0.55 |
| V..... | 5.30 | 5.31 | 5.57 | 4.38 | 4.95 |
| N..... | 68 | 17 | 55 | 100 | 27 |
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 85.6 | 83.0 | 85.0 | 84.1 | 82.4 |
| σ | ± 4.66 | | | ± 3.86 | ± 4.29 |
| Em..... | ± 0.84 | | | ± 0.65 | ± 0.96 |
| V..... | 5.44 | | | 4.59 | 5.20 |
| N..... | 14 | 7 | 4 | 16 | 9 |

Distribution of Facial Index According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 85.0 | | | 1 | 79.7 | | | | | 1 | 82.5 |
| 11..... | 1 | 81.5 | | | 1 | 81.6 | | | | | 1 | 89.0 |
| 12..... | 2 | 84.8 | | | 1 | 80.4 | | | | | 1 | 78.9 |
| 13..... | 8 | 83.6 | | | 2 | 83.8 | 4 | 81.9 | | | 2 | 86.3 |
| 14..... | 6 | 84.4 | | | 3 | 88.8 | 2 | 82.6 | | | 3 | 88.2 |
| 15..... | 1 | 89.3 | | | 2 | 88.8 | 4 | 78.8 | 1 | 83.2 | 4 | 87.8 |
| 16..... | 4 | 85.3 | | | 1 | 83.4 | 5 | 82.8 | 3 | 83.4 | 1 | 79.2 |
| 17..... | 5 | 88.3 | | | 3 | 87.2 | 5 | 85.4 | | | 0 | |
| 18..... | 4 | 87.3 | | | 2 | 91.6 | 5 | 87.9 | | | 0 | |
| 19..... | 3 | 84.1 | | | 3 | 88.1 | 8 | 83.4 | | | 2 | 87.9 |
| 20-59..... | 68 | 84.8 | 17 | 87.7 | 55 | 85.2 | 100 | 84.6 | 27 | 85.8 | | |
| 60+..... | 14 | 85.6 | 7 | 83.0 | 4 | 85.0 | 16 | 84.1 | 9 | 82.4 | | |

Frequency Distribution of Length of Upper Lip

| Length of upper lip in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island Lake | Gods Lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 9..... | 3 | | | | |
| 11..... | 3 | | 1 | 2 | |
| 13..... | 7 | 2 | 8 | 7 | 6 |
| 15..... | 20 | 2 | 15 | 16 | 6 |
| 17..... | 19 | 7 | 13 | 18 | 6 |
| 19..... | 11 | 3 | 11 | 14 | 8 |
| 21..... | 4 | 3 | 3 | 10 | 1 |
| 23..... | 1 | | 1 | | |
| 25..... | | | | | |
| Mean..... | 16.5 | 17.9 | 17.0 | 17.4 | 16.9 |
| σ | ± 2.90 | ± 2.40 | ± 2.55 | ± 2.63 | ± 2.42 |
| Em..... | ± 0.24 | ± 0.39 | ± 0.24 | ± 0.22 | ± 0.31 |
| V..... | 17.54 | 13.44 | 15.01 | 15.08 | 14.33 |
| N..... | 68 | 17 | 52 | 67 | 27 |

| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
|---------------------------------|------|----|----|------------|------------|
| Mean..... | 19.7 | 20 | 19 | 16.8 | 18.8 |
| σ | | | | ± 2.63 | ± 3.40 |
| Em..... | | | | ± 0.63 | ± 0.76 |
| V..... | | | | 15.72 | 18.05 |
| N..... | 6 | 7 | 4 | 8 | 9 |

Distribution of Length of Upper Lip According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 0 | | | | 1 | 13.0 | | | | | 1 | 10.0 |
| 11..... | 0 | | | | 1 | 15.0 | | | | | 1 | 13.0 |
| 12..... | 2 | 16.0 | | | 1 | 18.0 | | | | | 1 | 12.0 |
| 13..... | 5 | 15.0 | | | 2 | 16.5 | 2 | 14.0 | | | 2 | 16.5 |
| 14..... | 2 | 16.0 | | | 3 | 18.0 | 0 | | | | 3 | 13.0 |
| 15..... | 1 | 16.0 | | | 2 | 17.5 | 2 | 15.5 | 1 | 19.0 | 4 | 16.0 |
| 16..... | 1 | 18.0 | | | 1 | 18.0 | 3 | 15.0 | 3 | 14.0 | 1 | 14.0 |
| 17..... | 5 | 17.0 | | | 3 | 13.0 | 3 | 15.0 | | | 0 | |
| 18..... | 3 | 20.0 | | | 2 | 15.5 | 2 | 13.0 | | | 0 | |
| 19..... | 3 | 18.0 | | | 3 | 18.0 | 6 | 16.5 | | | 2 | 14.0 |
| 20-59..... | 68 | 16.5 | 17 | 17.8 | 52 | 17.0 | 67 | 17.4 | 27 | 16.9 | | |
| 60+..... | 6 | 19.7 | 7 | 20.0 | 4 | 19.0 | 8 | 16.7 | 9 | 18.8 | | |

Frequency Distribution of Height of Nose

| Height of nose in mm. | Male | | | Female | |
|------------------------------|-------------|-----------|--------------|-------------|-----------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 41..... | | | | 1 | 1 |
| 44..... | | | 2 | 8 | 1 |
| 47..... | 4 | 1 | 3 | 27 | 7 |
| 50..... | 18 | 2 | 10 | 36 | 11 |
| 53..... | 19 | 7 | 21 | 19 | 6 |
| 56..... | 14 | 4 | 12 | 8 | 1 |
| 59..... | 10 | 2 | 6 | | |
| 62..... | 3 | 1 | | | |
| 65..... | | | | | |
| Mean..... | 54.8 | 55.2 | 54.1 | 50.7 | 50.6 |
| S.D..... | ±3.83 | ±3.57 | ±3.56 | ±3.27 | ±3.13 |
| P.E..... | ±0.31 | ±0.58 | ±0.33 | ±0.22 | ±0.41 |
| C. of V..... | 6.99 | 6.47 | 6.58 | 6.46 | 6.19 |
| No..... | 68 | 17 | 54 | 99 | 27 |

| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
|---------------------------------|-------|------|------|-------|-------|
| Mean..... | 57.6 | 55.5 | 56.5 | 52.6 | 52.3 |
| S.D..... | ±3.62 | | | ±3.61 | ±2.05 |
| P.E..... | ±0.65 | | | ±0.63 | ±0.46 |
| C. of V..... | 6.28 | | | 6.87 | 3.93 |
| No..... | 14 | 7 | 4 | 15 | 9 |

Distribution of Height of Nose According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 47 | | | 1 | 46 | | | | | 1 | 41 |
| 11..... | 0 | | | | 1 | 44 | | | | | 1 | 48 |
| 12..... | 2 | 51 | | | 1 | 47 | | | | | 1 | 48 |
| 13..... | 8 | 48 | | | 2 | 45 | 3 | 44 | | | 2 | 45 |
| 14..... | 2 | 49 | | | 3 | 46 | 1 | 46 | | | 3 | 49 |
| 15..... | 1 | 52 | | | 2 | 53 | 3 | 45 | 1 | 48 | 4 | 47 |
| 16..... | 3 | 50 | | | 1 | 52 | 4 | 49 | 3 | 47 | 1 | 43 |
| 17..... | 5 | 52 | | | 3 | 52 | 5 | 48 | | | 0 | |
| 18..... | 3 | 54 | | | 2 | 53 | 4 | 50 | | | 0 | |
| 19..... | 3 | 51 | | | 3 | 50 | 8 | 49 | | | 2 | 50 |
| 20-59..... | 68 | 54.7 | 17 | 55.2 | 54 | 54.1 | 99 | 50.7 | 27 | 50.5 | | |
| 60+..... | 14 | 57.6 | 7 | 55.5 | 4 | 56.5 | 15 | 52.6 | 9 | 52.3 | | |

Frequency Distribution of Width of Nose

| Width of nose in mm. | Male | | | Female | |
|-------------------------------------|-------------|-----------|--------------|-------------|-----------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 29..... | | 1 | | 2 | 2 |
| 31..... | | 0 | | 10 | 4 |
| 33..... | | 2 | 3 | 24 | 6 |
| 35..... | 5 | 2 | 10 | 36 | 10 |
| 37..... | 14 | 4 | 15 | 17 | 3 |
| 39..... | 23 | 3 | 12 | 9 | 2 |
| 41..... | 18 | 2 | 9 | 0 | |
| 43..... | 6 | 3 | 4 | 1 | |
| 45..... | 1 | | 1 | | |
| 47..... | 1 | | | | |
| Mean..... | 39.9 | 38.2 | 38.6 | 35.3 | 34.5 |
| S.D..... | ±2.41 | ±3.82 | ±2.79 | ±2.46 | ±2.57 |
| P.E..... | ±0.20 | ± | ±0.26 | ±0.17 | ±0.33 |
| C. of V..... | 6.04 | 9.99 | 7.23 | 6.97 | 7.45 |
| No..... | 68 | 17 | 54 | 99 | 27 |

| | | | | | |
|--|-------|------|------|-------|-------|
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 39.9 | 43.8 | 39.5 | 37.2 | 39.3 |
| σ | ±2.64 | | | ±2.05 | ±3.46 |
| E _m | ±0.48 | | | ±0.36 | ±0.78 |
| V..... | 6.61 | | | 5.50 | 8.80 |
| N..... | 14 | 7 | 4 | 15 | 9 |

Distribution of Width of Nose According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 30 | | | 1 | 31 | | | | | 1 | 32 |
| 11..... | 0 | | | | 1 | 34 | | | | | 1 | 30 |
| 12..... | 2 | 33 | | | 1 | 31 | | | | | 1 | 31 |
| 13..... | 8 | 32 | | | 2 | 33 | 3 | 32 | | | 2 | 31 |
| 14..... | 2 | 33 | | | 3 | 32 | 1 | 35 | | | 3 | 32 |
| 15..... | 1 | 36 | | | 2 | 35 | 3 | 34 | 1 | 38 | 4 | 33 |
| 16..... | 3 | 36 | | | 1 | 38 | 4 | 35 | 3 | 34 | 1 | 35 |
| 17..... | 5 | 37 | | | 3 | 34 | 5 | 35 | | | 0 | |
| 18..... | 3 | 38 | | | 2 | 35 | 4 | 36 | | | 0 | |
| 19..... | 3 | 38 | | | 3 | 36 | 8 | 35 | | | 2 | 34 |
| 20-59..... | 68 | 39.9 | 17 | 38.2 | 54 | 38.6 | 99 | 35.3 | 27 | 34.5 | | |
| 60+..... | 14 | 39.9 | 7 | 43.8 | 4 | 39.5 | 15 | 37.2 | 9 | 39.3 | | |

Frequency Distribution of Nasal Index

| Index | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 45..... | | 1 | | | |
| 50..... | | 0 | | | 1 |
| 55..... | | 0 | | 3 | 1 |
| 60..... | 9 | 3 | 10 | 16 | 3 |
| 65..... | 13 | 3 | 10 | 26 | 10 |
| 70..... | 16 | 5 | 14 | 34 | 9 |
| 75..... | 19 | 4 | 16 | 15 | 0 |
| 80..... | 9 | 1 | 3 | 2 | 1 |
| 85..... | 2 | | 0 | 3 | 2 |
| 90..... | | | 1 | | |
| Mean..... | 72.9 | 69.6 | 71.6 | 70.0 | 69.2 |
| σ | ± 6.64 | ± 8.07 | ± 6.59 | ± 6.19 | ± 7.49 |
| E_m | ± 0.54 | ± 1.32 | ± 0.60 | ± 0.42 | ± 0.97 |
| V..... | 9.11 | 11.58 | 9.20 | 8.84 | 10.83 |
| N..... | 68 | 17 | 54 | 99 | 27 |

| | | | | | |
|---------------------------------|------------|----|------|------------|------------|
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 69.9 | 79 | 70.2 | 71.3 | 75.9 |
| σ | ± 6.74 | | | ± 6.55 | ± 8.75 |
| E_m | ± 1.21 | | | ± 1.14 | ± 1.97 |
| V..... | 9.65 | | | 9.18 | 11.53 |
| N..... | 14 | 7 | 4 | 15 | 9 |

Distribution of Nasal Index According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 63.9 | | | 1 | 67.4 | | | | | 1 | 78.1 |
| 11..... | 0 | | | | 1 | 77.3 | | | | | 1 | 62.5 |
| 12..... | 2 | 64.7 | | | 1 | 66.0 | | | | | 1 | 64.6 |
| 13..... | 8 | 66.8 | | | 2 | 72.3 | 3 | 72.9 | | | 2 | 69.6 |
| 14..... | 2 | 67.1 | | | 3 | 69.6 | 1 | 76.1 | | | 3 | 66.3 |
| 15..... | 1 | 69.2 | | | 2 | 65.1 | 3 | 75.1 | 1 | 79.2 | 4 | 69.9 |
| 16..... | 3 | 71.6 | | | 1 | 73.1 | 4 | 73.5 | 3 | 72.5 | 1 | 81.4 |
| 17..... | 5 | 70.1 | | | 3 | 64.9 | 5 | 73.8 | | | 0 | |
| 18..... | 3 | 69.9 | | | 2 | 65.9 | 4 | 71.7 | | | 0 | |
| 19..... | 3 | 74.7 | | | 3 | 71.8 | 8 | 72.7 | | | 2 | 68.8 |
| 20-59..... | 68 | 72.9 | 17 | 69.6 | 54 | 71.6 | 99 | 70.0 | 27 | 69.2 | | |
| 60+..... | 14 | 69.8 | 7 | 79.0 | 4 | 70.2 | 15 | 71.3 | 9 | 75.9 | | |

Frequency Distribution of Length of Mouth

| Length of mouth in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 36..... | | | | 2 | |
| 39..... | | | | 0 | |
| 42..... | | | | 0 | |
| 45..... | | | | 0 | |
| 48..... | | | | 6 | |
| 51..... | 3 | | 2 | 18 | 2 |
| 54..... | 8 | 2 | 7 | 29 | 5 |
| 57..... | 17 | 2 | 10 | 27 | 11 |
| 60..... | 17 | 8 | 25 | 15 | 7 |
| 63..... | 16 | 4 | 9 | 1 | 1 |
| 66..... | 6 | 0 | 2 | 1 | 1 |
| 69..... | 0 | 0 | | 1 | |
| 72..... | 1 | 1 | | | |
| Mean..... | 60.6 | 65.6 | 60.1 | 55.8 | 58.3 |
| σ | ± 4.16 | ± 6.62 | ± 3.33 | ± 4.68 | ± 3.30 |
| Em..... | ± 0.34 | ± 1.08 | ± 0.30 | ± 0.32 | ± 0.43 |
| V..... | 6.86 | 10.09 | 5.54 | 8.39 | 5.66 |
| N..... | 68 | 17 | 55 | 100 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|------|------|------------|------------|
| Mean..... | 58.2 | 70.0 | 63.5 | 56.5 | 63.3 |
| σ | ± 3.42 | | | ± 4.47 | ± 3.40 |
| Em..... | ± 0.64 | | | ± 0.75 | ± 0.76 |
| V..... | 5.88 | | | 7.92 | 5.37 |
| N..... | 13 | 7 | 4 | 16 | 9 |

Distribution of Length of Mouth According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 47.0 | | | 1 | 48.0 | | | | | 1 | 50 |
| 11..... | 0 | | | | 1 | 53.0 | | | | | 1 | 52 |
| 12..... | 2 | 52.0 | | | 1 | 57.0 | | | | | 1 | 51 |
| 13..... | 8 | 52.3 | | | 2 | 53.0 | 4 | 49.8 | | | 2 | 50 |
| 14..... | 2 | 53.0 | | | 3 | 50.0 | 1 | 49.0 | | | 3 | 50 |
| 15..... | 1 | 57.0 | | | 2 | 54.0 | 4 | 53.0 | 1 | 55.0 | 4 | 50 |
| 16..... | 3 | 56.0 | | | 1 | 56.0 | 4 | 52.0 | 3 | 56.0 | 1 | 45 |
| 17..... | 5 | 55.4 | | | 3 | 54.0 | 5 | 53.4 | | | 0 | |
| 18..... | 3 | 60.0 | | | 2 | 59.0 | 5 | 56.0 | | | 0 | |
| 19..... | 3 | 57.0 | | | 3 | 56.0 | 8 | 53.9 | | | 2 | 52 |
| 20-59..... | 68 | 60.6 | 17 | 65.6 | 55 | 60.1 | 100 | 55.8 | 27 | 58.3 | | |
| 60+..... | 13 | 58.2 | 7 | 70.0 | 4 | 63.5 | 16 | 56.5 | 9 | 63.3 | | |

Frequency Distribution of Length of Ear

| Length of ear in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|-----------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 32..... | | | | 1 | |
| 35..... | | | | 0 | |
| 38..... | | | | 0 | |
| 41..... | | | | 0 | |
| 44..... | | | | 0 | |
| 47..... | | | | 0 | |
| 50..... | 1 | | | 0 | |
| 53..... | 0 | | | 14 | 1 |
| 56..... | 1 | 1 | | 27 | 1 |
| 59..... | 9 | 1 | 5 | 31 | 3 |
| 62..... | 12 | 7 | 8 | 15 | 1 |
| 65..... | 18 | 2 | 14 | 4 | |
| 68..... | 16 | 4 | 13 | | |
| 71..... | 10 | 2 | 11 | | |
| 74..... | | | 4 | | |
| 77..... | | | | | |
| Mean..... | 65.9 | 65.3 | 67.6 | 58.7 | 59.0 |
| σ | ± 4.30 | ± 4.05 | ± 4.16 | ± 4.16 | |
| Em..... | ± 0.35 | ± 0.66 | ± 0.38 | ± 0.29 | |
| V..... | 6.53 | 6.21 | 6.15 | 7.09 | |
| N..... | 67 | 17 | 55 | 92 | 6 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|------|------|------------|------|
| Mean..... | 68.5 | 73.0 | 69.0 | 63.0 | 69.0 |
| σ | ± 3.30 | | | ± 4.24 | |
| Em..... | ± 0.62 | | | ± 0.76 | |
| V..... | 4.81 | | | 6.73 | |
| N..... | 13 | 7 | 4 | 14 | 2 |

Distribution of Length of Ear According to Age

| Age in years | Male | | | | | | Female | | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|--|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | |
| 10..... | 2 | 59.0 | | | 1 | 59.0 | | | | | | 0 | |
| 11..... | 0 | | | | 1 | 72.0 | | | | | | 0 | |
| 12..... | 2 | 59.0 | | | 1 | 61.0 | | | | | | 0 | |
| 13..... | 7 | 55.4 | | | 2 | 64.0 | 3 | 56.0 | | | | 0 | |
| 14..... | 2 | 58.0 | | | 3 | 62.0 | 1 | 56.0 | | | | 0 | |
| 15..... | 1 | 60.0 | | | 2 | 66.0 | 4 | 56.8 | | | | 0 | |
| 16..... | 3 | 62.0 | | | 1 | 62.0 | 3 | 60.0 | 2 | 57.0 | | 0 | |
| 17..... | 5 | 62.6 | | | 3 | 61.0 | 4 | 56.0 | | | | 0 | |
| 18..... | 3 | 62.0 | | | 2 | 62.0 | 3 | 60.0 | | | | 0 | |
| 19..... | 3 | 62.0 | | | 3 | 65.0 | 7 | 56.7 | | | | 0 | |
| 20-59..... | 67 | 65.9 | 17 | 65.3 | 55 | 67.6 | 92 | 58.7 | 6 | 59.0 | | | |
| 60+..... | 13 | 68.5 | 7 | 73.0 | 4 | 69.0 | 14 | 63.0 | 2 | 69.0 | | | |

Frequency Distribution of Width of Ear

| Width of ear in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|-----------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 29..... | 1 | | 1 | 4 | 1 |
| 31..... | 7 | 3 | 6 | 25 | 3 |
| 33..... | 15 | 5 | 10 | 27 | 2 |
| 35..... | 24 | 6 | 23 | 27 | |
| 37..... | 14 | 2 | 9 | 9 | |
| 39..... | 3 | 1 | 6 | | |
| 41..... | 3 | | | | |
| Mean..... | 35.4 | 34.7 | 35.4 | 33.8 | 31.8 |
| σ | ± 2.50 | ± 2.18 | ± 2.35 | ± 2.11 | |
| E_m | ± 0.21 | ± 0.36 | ± 0.21 | ± 0.15 | |
| V..... | 7.07 | 6.27 | 6.64 | 6.25 | |
| N..... | 67 | 17 | 55 | 92 | 6 |

| | | | | | |
|---------------------------------|------------|----|------|------------|----|
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 35.8 | 37 | 36.5 | 34.5 | 34 |
| σ | ± 2.81 | | | ± 2.48 | |
| E_m | ± 0.53 | | | ± 0.45 | |
| V..... | 7.85 | | | 7.18 | |
| N..... | 13 | 7 | 4 | 14 | 2 |

Distribution of Width of Ear According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 34 | | | 1 | 36 | | | | | 0 | |
| 11..... | 0 | | | | 1 | 36 | | | | | 0 | |
| 12..... | 2 | 36 | | | 1 | 33 | | | | | 0 | |
| 13..... | 7 | 33 | | | 2 | 36 | 3 | 32 | | | 0 | |
| 14..... | 2 | 35 | | | 3 | 33 | 1 | 36 | | | 0 | |
| 15..... | 1 | 32 | | | 2 | 32 | 4 | 32 | | | 0 | |
| 16..... | 3 | 35 | | | 1 | 36 | 3 | 33 | 2 | 34.5 | 0 | |
| 17..... | 5 | 34 | | | 3 | 33 | 4 | 34 | | | 0 | |
| 18..... | 3 | 36 | | | 2 | 32 | 3 | 33 | | | 0 | |
| 19..... | 3 | 37 | | | 3 | 35 | 7 | 34 | | | 0 | |
| 20-59..... | 67 | 35.4 | 17 | 34.7 | 55 | 35.3 | 92 | 33.8 | 6 | 31.8 | | |
| 60+..... | 13 | 35.8 | 7 | 37.0 | 4 | 36.5 | 14 | 34.5 | 2 | 34.0 | | |

Frequency Distribution of Ear Index

| Index | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|-----------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 43..... | | | 3 | | |
| 46..... | 5 | 3 | 9 | | |
| 49..... | 12 | 4 | 12 | 6 | 1 |
| 52..... | 22 | 5 | 15 | 16 | 3 |
| 55..... | 22 | 3 | 11 | 23 | 0 |
| 58..... | 4 | 0 | 4 | 27 | 2 |
| 61..... | 2 | 2 | 0 | 12 | |
| 64..... | | | 1 | 7 | |
| 67..... | | | | 0 | |
| 100..... | | | | 1 | |
| Mean..... | 53.6 | 52.8 | 52.1 | 57.9 | 54.5 |
| σ | ± 3.38 | ± 4.42 | ± 4.31 | ± 5.98 | |
| Em..... | ± 0.28 | ± 0.72 | ± 0.39 | ± 0.42 | |
| V..... | 6.30 | 8.37 | 8.26 | 10.32 | |
| N..... | 67 | 17 | 55 | 92 | 6 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|------|------|------------|------|
| Mean..... | 52.1 | 50.8 | 52.7 | 54.7 | 49.4 |
| σ | ± 3.41 | | | ± 4.04 | |
| Em..... | ± 0.64 | | | ± 0.73 | |
| V..... | 6.54 | | | 7.39 | |
| N..... | 13 | 7 | 4 | 14 | 2 |

Distribution of Ear Index According to Age

| Age in years | Male | | | | | | Female | | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|--|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | |
| 10..... | 2 | 56.8 | | | 1 | 61.0 | | | | | | 0 | |
| 11..... | 0 | | | | 1 | 50.0 | | | | | | 0 | |
| 12..... | 2 | 60.2 | | | 1 | 54.1 | | | | | | 0 | |
| 13..... | 7 | 60.1 | | | 2 | 56.0 | 3 | 56.6 | | | | 0 | |
| 14..... | 2 | 59.5 | | | 3 | 52.7 | 1 | 64.3 | | | | 0 | |
| 15..... | 1 | 53.3 | | | 2 | 47.7 | 4 | 56.4 | | | | 0 | |
| 16..... | 3 | 56.4 | | | 1 | 58.1 | 3 | 55.5 | 2 | 60.6 | | 0 | |
| 17..... | 5 | 54.0 | | | 3 | 54.5 | 4 | 60.5 | | | | 0 | |
| 18..... | 3 | 57.9 | | | 2 | 51.6 | 3 | 55.6 | | | | 0 | |
| 19..... | 3 | 60.3 | | | 3 | 53.6 | 7 | 60.0 | | | | 0 | |
| 20-59..... | 67 | 53.6 | 17 | 52.8 | 55 | 52.1 | 92 | 57.9 | 6 | 54.5 | | | |
| 60+..... | 13 | 52.1 | 7 | 50.8 | 4 | 52.7 | 14 | 54.7 | 2 | 49.4 | | | |

Frequency Distribution of Length of Hand

| Length of hand in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 165..... | | | | 6 | 1 |
| 170..... | | | | 10 | 4 |
| 175..... | 3 | 1 | 2 | 32 | 9 |
| 180..... | 7 | 2 | 4 | 27 | 11 |
| 185..... | 13 | 3 | 10 | 16 | 2 |
| 190..... | 18 | 4 | 18 | 4 | |
| 195..... | 14 | 5 | 12 | 2 | |
| 200..... | 7 | 2 | 8 | 1 | |
| 205..... | 4 | | 0 | | |
| 210..... | | | 1 | | |
| Mean..... | 192 | 192 | 193 | 180 | 179 |
| σ | ± 7.43 | ± 6.96 | ± 6.84 | ± 6.75 | ± 4.71 |
| Em..... | ± 0.62 | ± 1.14 | ± 0.62 | ± 0.46 | ± 0.61 |
| V..... | 3.86 | 3.63 | 3.55 | 3.75 | 2.64 |
| N..... | 66 | 17 | 55 | 98 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|-----|-----|------------|------------|
| Mean..... | 191 | 196 | 196 | 181 | 181 |
| σ | ± 8.28 | | | ± 8.93 | ± 6.82 |
| Em..... | ± 1.49 | | | ± 1.74 | ± 1.63 |
| V..... | 4.33 | | | 4.94 | 3.76 |
| N..... | 14 | 7 | 4 | 12 | 8 |

Distribution of Length of Hand According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 148 | | | 1 | 157 | | | | | 1 | 156 |
| 11..... | 0 | | | | 1 | 146 | | | | | 1 | 157 |
| 12..... | 2 | 159 | | | 1 | 167 | | | | | 1 | 173 |
| 13..... | 7 | 166 | | | 2 | 167 | 3 | 168 | | | 2 | 174 |
| 14..... | 2 | 166 | | | 3 | 165 | 1 | 156 | | | 3 | 179 |
| 15..... | 1 | 182 | | | 2 | 189 | 4 | 179 | 1 | 187 | 4 | 177 |
| 16..... | 3 | 178 | | | 1 | 190 | 4 | 180 | 3 | 170 | 1 | 161 |
| 17..... | 5 | 193 | | | 3 | 183 | 5 | 182 | | | 0 | |
| 18..... | 4 | 193 | | | 2 | 183 | 3 | 176 | | | 0 | |
| 19..... | 3 | 187 | | | 3 | 195 | 8 | 180 | | | 2 | 184 |
| 20-59..... | 66 | 192 | 17 | 192 | 55 | 193 | 98 | 180 | 27 | 179 | | |
| 60+..... | 14 | 191 | 7 | 197 | 4 | 196 | 12 | 181 | 8 | 181 | | |

Frequency Distribution of Width of Hand

| Width of hand in mm. | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 70..... | | | | 5 | 1 |
| 73..... | | | | 18 | 0 |
| 76..... | 1 | | | 26 | 10 |
| 79..... | 5 | 1 | 1 | 36 | 8 |
| 82..... | 12 | 2 | 4 | 10 | 7 |
| 85..... | 26 | 7 | 12 | 2 | 1 |
| 88..... | 13 | 4 | 13 | 1 | |
| 91..... | 9 | 3 | 19 | | |
| 94..... | | | 4 | | |
| 97..... | | | 2 | | |
| Mean..... | 86.0 | 87.0 | 90.0 | 78.0 | 80.0 |
| σ | ± 3.49 | ± 3.24 | ± 3.80 | ± 3.50 | ± 3.13 |
| Em..... | ± 0.29 | ± 0.53 | ± 0.35 | ± 0.24 | ± 0.41 |
| V..... | 4.05 | 3.73 | 4.24 | 4.48 | 3.94 |
| N..... | 66 | 17 | 55 | 98 | 27 |

ADULTS (AGED 60 YEARS AND OVER)

| | | | | | |
|----------------|------------|------|------|------------|------------|
| Mean..... | 88.0 | 89.0 | 89.0 | 79.0 | 82.0 |
| σ | ± 3.72 | | | ± 3.77 | ± 1.45 |
| Em..... | ± 0.67 | | | ± 0.73 | ± 0.35 |
| V..... | 4.25 | | | 4.78 | 1.77 |
| N..... | 14 | 7 | 4 | 12 | 8 |

Distribution of Width of Hand According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 65 | | | 1 | 66 | | | | | 1 | 65 |
| 11..... | 0 | | | | 1 | 64 | | | | | 1 | 65 |
| 12..... | 2 | 68 | | | 1 | 71 | | | | | 1 | 76 |
| 13..... | 7 | 70 | | | 2 | 77 | 3 | 70 | | | 2 | 70 |
| 14..... | 2 | 73 | | | 3 | 74 | 1 | 72 | | | 3 | 77 |
| 15..... | 1 | 80 | | | 2 | 88 | 4 | 77 | 1 | 77 | 4 | 76 |
| 16..... | 3 | 78 | | | 1 | 85 | 4 | 78 | 3 | 77 | 1 | 71 |
| 17..... | 5 | 86 | | | 3 | 82 | 5 | 77 | | | 0 | |
| 18..... | 4 | 86 | | | 2 | 82 | 3 | 77 | | | 0 | |
| 19..... | 3 | 83 | | | 3 | 88 | 8 | 76 | | | 2 | 78 |
| 20-59..... | 66 | 86 | 17 | 87 | 55 | 90 | 98 | 78 | 27 | 80 | | |
| 60+..... | 14 | 88 | 7 | 89 | 4 | 89 | 12 | 79 | 8 | 82 | | |

Frequency Distribution of Hand Index

| Index | Male | | | Female | |
|------------------------------|-------------|------------|--------------|-------------|------------|
| | Island lake | Gods lake | Oxford House | Island lake | Gods lake |
| ADULTS (AGED 20 TO 59 YEARS) | | | | | |
| 37..... | | | | 1 | |
| 39..... | 1 | | | 6 | 1 |
| 41..... | 3 | 1 | | 21 | 3 |
| 43..... | 26 | 5 | 7 | 42 | 8 |
| 45..... | 26 | 7 | 24 | 21 | 12 |
| 47..... | 9 | 4 | 14 | 7 | 2 |
| 49..... | 1 | | 9 | | 1 |
| 51..... | | | 1 | | |
| Mean..... | 44.8 | 45.1 | 46.5 | 43.5 | 44.5 |
| σ | ± 1.76 | ± 1.71 | ± 1.94 | ± 2.05 | ± 2.06 |
| E_m | ± 0.15 | ± 0.28 | ± 0.18 | ± 0.14 | ± 0.27 |
| V..... | 3.94 | 3.79 | 4.17 | 4.72 | 4.63 |
| N..... | 66 | 17 | 55 | 98 | 27 |

| | | | | | |
|---------------------------------|------------|------|------|------------|------------|
| ADULTS (AGED 60 YEARS AND OVER) | | | | | |
| Mean..... | 45.6 | 45.1 | 45.2 | 43.8 | 45.0 |
| σ | ± 2.33 | | | ± 2.29 | ± 1.32 |
| E_m | ± 0.42 | | | ± 0.45 | ± 0.32 |
| V..... | 5.10 | | | 5.21 | 2.94 |
| N..... | 14 | 7 | 4 | 12 | 8 |

Distribution of Hand Index According to Age

| Age in years | Male | | | | | | Female | | | | | |
|--------------|-------------|------|-----------|------|--------------|------|-------------|------|-----------|------|--------------|------|
| | Island lake | | Gods lake | | Oxford House | | Island lake | | Gods lake | | Oxford House | |
| | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean | No. | Mean |
| 10..... | 2 | 43.6 | | | 1 | 42.0 | | | | | 1 | 41.7 |
| 11..... | 0 | | | | 1 | 43.8 | | | | | 1 | 41.4 |
| 12..... | 2 | 42.8 | | | 1 | 42.5 | | | | | 1 | 43.9 |
| 13..... | 7 | 42.2 | | | 2 | 46.0 | 3 | 41.8 | | | 2 | 40.3 |
| 14..... | 2 | 43.7 | | | 3 | 44.9 | 1 | 46.2 | | | 3 | 42.9 |
| 15..... | 1 | 44.0 | | | 2 | 46.4 | 4 | 43.0 | 1 | 41.2 | 4 | 42.9 |
| 16..... | 3 | 43.8 | | | 1 | 44.7 | 4 | 43.2 | 3 | 45.3 | 1 | 44.1 |
| 17..... | 5 | 44.4 | | | 3 | 45.1 | 5 | 42.3 | | | 0 | |
| 18..... | 4 | 44.6 | | | 2 | 44.8 | 3 | 44.0 | | | 0 | |
| 19..... | 3 | 44.3 | | | 3 | 45.3 | 8 | 42.2 | | | 2 | 42.4 |
| 20-59..... | 66 | 44.8 | 17 | 45.1 | 55 | 46.5 | 98 | 43.5 | 27 | 44.5 | | |
| 60+..... | 14 | 45.6 | 7 | 45.1 | 4 | 45.2 | 12 | 43.8 | 8 | 45.0 | | |

APPENDICES

APPENDIX I
Particulars of Island Lake Men

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Mouth (length) | Ear | | Upper lip (length) | Hand | | Colour of iris ² | |
|---------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|--------|----------------|-------|--------|--------------------|-------|--------|-----------------------------|-------|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crimion | Height | Width | Length | | Width | Length | | Width | Length | | Width |
| | | | | | | | | | | | | | | | | | | | | | |
| AGED 20 TO 59 YEARS | | | | | | | | | | | | | | | | | | | | | |
| 2 | 21 | 1685 | 1808 | 915 | 197.0 | 157.0 | 146.0 | 112 | 123 | 177 | 57 | 39 | 57 | 66 | 36 | 18 | 192 | 88 | D | | |
| 5 | 45 | 1776 | 1866 | 929 | 193.0 | 163.0 | 149.0 | 111 | 131 | 185 | 62 | 43 | 66 | 70 | 38 | 14 | 200 | 93 | M | | |
| 7 | 26 | 1621 | 1738 | 869 | 190.0 | 156.0 | 143.0 | 107 | 116 | 177 | 50 | 40 | 58 | 64 | 37 | 17 | 184 | 79 | D | | |
| 8 | 30 | 1707 | 1854 | 891 | 193.0 | 144.0 | 142.0 | 101 | 125 | 183 | 57 | 42 | 65 | 64 | 35 | 11 | 205 | 89 | D | | |
| 9 | 34 | 1721 | 1847 | 917 | 196.0 | 157.0 | 151.0 | 107 | 126 | 199 | 61 | 42 | 62 | 66 | 37 | 14 | 201 | 93 | D | | |
| 10 | 30 | 1583 | 1732 | 861 | 182.0 | 145.0 | 140.0 | 96 | 121 | 179 | 59 | 38 | 53 | 67 | 38 | 15 | 188 | 86 | D | | |
| 15 | 45 | 1683 | 1878 | 911 | 198.0 | 153.0 | 151.0 | 104 | 105 | 188 | 64 | 40 | 68 | 67 | 40 | 17 | 200 | 82 | D | | |
| 16 | 45 | 1672 | 1796 | 854 | 185.0 | 157.0 | 149.0 | 95 | 117 | 178 | 56 | 42 | 60 | 72 | 41 | 12 | 185 | 86 | D | | |
| 17 | 42 | 1657 | 1765 | 876 | 202.0 | 163.0 | 149.0 | 106 | 121 | 190 | 51 | 44 | 64 | 67 | 33 | 16 | 194 | 90 | D | | |
| 18 | 35 | 1657 | 1822 | 860 | 193.0 | 163.0 | 144.0 | 105 | 121 | 175 | 51 | 41 | 56 | 62 | 36 | 17 | 187 | 91 | D | | |
| 20 | 42 | 1648 | 1776 | 878 | 198.0 | 161.0 | 153.0 | 107 | 123 | 191 | 55 | 42 | 59 | 71 | 36 | 16 | 187 | 87 | D | | |
| 23 | 35 | 1714 | 1807 | 887 | 197.0 | 155.0 | 142.0 | 100 | 125 | 179 | 55 | 42 | 58 | 69 | 37 | 14 | 192 | 87 | D | | |
| 24 | 26 | 1736 | 1817 | 897 | 190.0 | 153.0 | 144.0 | 106 | 122 | 185 | 52 | 40 | 60 | 71 | 37 | 13 | 192 | 91 | D | | |
| 29 | 45 | 1764 | 1892 | 930 | 194.0 | 158.0 | 157.0 | 108 | 135 | 201 | 61 | 47 | 64 | 70 | 34 | 16 | 203 | 90 | D | | |
| 30 | 40 | 1736 | 1837 | 895 | 201.0 | 158.0 | 144.0 | 107 | 132 | 190 | 52 | 43 | 61 | 70 | 37 | 19 | 201 | 90 | D | | |
| 32 | 35 | 1848 | 1912 | 952 | 207.0 | 162.0 | 149.0 | 113 | 118 | 188 | 55 | 43 | 58 | 66 | 36 | 17 | 198 | 88 | Bl-D | | |
| 33 | 50 | 1723 | 1825 | 917 | 205.0 | 151.0 | 145.5 | 103 | 119 | 179 | 51 | 45 | 64 | 73 | 38 | 11 | 199 | 86 | D-M | | |
| 34 | 26 | 1746 | 1802 | 942 | 194.0 | 159.0 | 150.0 | 108 | 123 | 188 | 55 | 40 | 67 | 65 | 37 | 15 | 190 | 87 | D-M | | |
| 35 | 28 | 1681 | 1772 | 902 | 204.0 | 161.0 | 151.0 | — | 122 | 181 | 51 | 41 | 63 | 68 | 39 | 15 | 192 | 91 | D-M | | |
| 36 | 26 | 1739 | 1852 | 895 | 195.0 | 156.0 | 144.0 | 102 | 133 | 190 | 58 | 42 | 59 | 66 | 35 | 19 | 191 | 86 | D | | |
| 37 | 21 | 1777 | 1817 | 910 | 183.0 | 153.0 | 142.0 | 100 | 112 | 168 | 52 | 36 | 54 | 63 | 35 | 14 | 195 | 84 | D | | |
| 38 | 42 | 1679 | 1797 | 910 | 203.0 | 166.0 | 157.0 | 110 | 126 | 197 | 58 | 41 | 60 | 64 | 35 | 17 | 199 | 91 | Gr | | |
| 40 | 30 | 1703 | 1764 | 904 | 196.0 | 152.0 | 146.0 | 107 | 122 | 176 | 54 | 40 | 58 | 66 | 33 | 22 | 191 | 85 | D-M | | |
| 43 | 24 | 1759 | — | 965 | 201.0 | 164.0 | 154.0 | 105 | 128 | 193 | 57 | 37 | 55 | 73 | 41 | 18 | — | — | M | | |
| 45 | 24 | 1742 | 1897 | 903 | 201.0 | 154.0 | 147.0 | 103 | 122 | 181 | 55 | 41 | 54 | 72 | 37 | 19 | 195 | 87 | M | | |
| 47 | 31 | 1790 | 1855 | 930 | 194.0 | 154.0 | 147.0 | 99 | 127 | 189 | 57 | 39 | 56 | 70 | 39 | 15 | 202 | 89 | Bl-D | | |
| 48 | 28 | 1642 | 1720 | 870 | 195.0 | 163.0 | 149.0 | 104 | 128 | 190 | 51 | 40 | 55 | 68 | 35 | 21 | 179 | 84 | D | | |
| 49 | 32 | 1688 | 1793 | 883 | 185.0 | 149.0 | 143.0 | 100 | 119 | 179 | 49 | 40 | 56 | 65 | 35 | 16 | 192 | 84 | D-M | | |
| 50 | 30 | 1632 | 1737 | 871 | 192.0 | 153.0 | 145.5 | 98 | 122 | 180 | 54 | 42 | 62 | 60 | 32 | 18 | 184 | 80 | M | | |
| 51 | 28 | 1737 | 1825 | 905 | 197.0 | 151.0 | 141.5 | 101 | 124 | 182 | 55 | 41 | 60 | 71 | 37 | 10 | 191 | 84 | D-M | | |
| 52 | 24 | 1678 | 1789 | 913 | 193.0 | 160.0 | 148.0 | 101 | 127 | 189 | 52 | 40 | 51 | 69 | 36 | 15 | 194 | 83 | Bl-D | | |
| 53 | 40 | 1605 | 1720 | 875 | 189.0 | 150.0 | 143.0 | 96 | 125 | 182 | 60 | 38 | 57 | 68 | 35 | 13 | 184 | 80 | M | | |
| 56 | 36 | 1652 | 1777 | 841 | 195.0 | 158.0 | 148.0 | 102 | 132 | 186 | 54 | 41 | 65 | 65 | 41 | 20 | 189 | 85 | D | | |
| 59 | 35 | 1679 | 1817 | 896 | 196.5 | 157.0 | 148.0 | 104 | 126 | 190 | 52 | 40 | 65 | 65 | 36 | 13 | 199 | 88 | — | | |
| 60 | 40 | 1698 | 1822 | 908 | 192.0 | 157.0 | 151.0 | 103 | 132 | 190 | 63 | 39 | 63 | 64 | 35 | 17 | 196 | 86 | D-M | | |
| 63 | 50 | 1742 | 1847 | 926 | 191.0 | 157.0 | 151.0 | 104 | 126 | 186 | 52 | 40 | 60 | 70 | 36 | 21 | 196 | 90 | M | | |
| 65 | 21 | 1706 | 1829 | 900 | 195.0 | 165.0 | 153.0 | 106 | 126 | 193 | 56 | 39 | 57 | 65 | 36 | 16 | 194 | 88 | M | | |
| 66 | 23 | 1717 | 1837 | 887 | 205.0 | 160.0 | 153.0 | 116 | 133 | 187 | 55 | 37 | 58 | 60 | 33 | 23 | 197 | 89 | M | | |
| 67 | 21 | 1686 | 1807 | 904 | 197.0 | 153.0 | 143.0 | 107 | 127 | 174 | 54 | 36 | 59 | 61 | 34 | 19 | 197 | 89 | D | | |
| 68 | 26 | 1732 | 1818 | 940 | 201.0 | 155.0 | 151.0 | 105 | 125 | 176 | 50 | 38 | 63 | 65 | 34 | 22 | 191 | 87 | D | | |
| 69 | 26 | 1743 | 1967 | 913 | 192.0 | 154.0 | 145.5 | 106 | 116 | 176 | 54 | 37 | 61 | 61 | 35 | 15 | 208 | 88 | D-M | | |
| 70 | 34 | 1726 | 1822 | 940 | 210.0 | 163.5 | 153.0 | 108 | 126 | 194 | 54 | 40 | 65 | 69 | 35 | 18 | 194 | 86 | D-M | | |
| 73 | 55 | — | — | — | 199.0 | 153.0 | 153.5 | 109 | 124 | 192 | 56 | 41 | 68 | 73 | 36 | 20 | 187 | 83 | D-M | | |
| 75 | 35 | 1666 | 1804 | 888 | 204.0 | 155.0 | 148.0 | 103 | 132 | 197 | 52 | 37 | 59 | 63 | 34 | 19 | 197 | 85 | D | | |
| 76 | 28 | 1752 | 1824 | 949 | 207.0 | 154.5 | 148.5 | 113 | 126 | 183 | 50 | 40 | 63 | 66 | 31 | 15 | 194 | 87 | D | | |

APPENDIX I (Continued)
Particulars of Island Lake Men (Continued)

| Serial number ¹ | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Ear | | Upper lip (length) | Hand | | Colour of iris ² | |
|-------------------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|----------------|--------|-------|--------------------|--------|-------|-----------------------------|---|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crimion | Height | Width | Mouth (length) | Length | Width | | Length | Width | | |
| AGED 20 TO 59 YEARS—Continued | | | | | | | | | | | | | | | | | | | | |
| 78 | 20 | 1635 | 1686 | 864 | 199.0 | 155.0 | 143.5 | 106 | 115 | 172 | 47 | 39 | 60 | 61 | 37 | 16 | 176 | 83 | D | |
| 80 | 50 | 1558 | 1727 | 846 | 191.0 | 156.0 | 148.0 | 103 | 119 | 181 | 53 | 37 | 57 | 62 | 33 | 18 | 181 | 84 | D-M | |
| 81 | 20 | 1689 | 1827 | 864 | 178.0 | 151.5 | 141.5 | 98 | 129 | 188 | 57 | 37 | 54 | 60 | 33 | 16 | 189 | 87 | D | |
| 83 | 28 | 1721 | 1814 | 933 | 210.0 | 161.0 | 153.5 | 116 | 127 | 186 | 53 | 41 | 72 | 56 | 32 | 18 | 194 | 93 | D | |
| 84 | 50 | — | — | — | 185.0 | 149.0 | 145.5 | 108 | 135 | 199 | 58 | 36 | 67 | 73 | 34 | 18 | 192 | 92 | D-M | |
| 85 | 40 | — | — | — | 194.0 | 162.5 | 153.0 | 107 | 139 | 197 | 60 | 43 | 65 | 66 | 32 | 17 | 207 | 92 | M | |
| 87 | 25 | 1730 | 1818 | 891 | 190.0 | 147.0 | 140.5 | 97 | 123 | 177 | 52 | 42 | 59 | 62 | 32 | 17 | 195 | 85 | D-M | |
| 90 | 42 | — | — | — | 193.5 | 155.5 | 144.0 | 103 | 123 | 194 | 53 | 41 | 61 | 62 | 34 | 17 | 189 | 85 | D | |
| 91 | 40 | 1682 | 1787 | 905 | 198.0 | 156.0 | 149.0 | 105 | 125 | 177 | 57 | 39 | 68 | 69 | 36 | 19 | 182 | 87 | D | |
| 92 | 24 | 1795 | 1897 | 933 | 194.5 | 156.0 | 144.0 | 109 | 125 | 178 | 54 | 43 | 62 | 61 | 35 | 19 | 209 | 86 | D-M | |
| 93 | 45 | 1686 | 1857 | 887 | 207.5 | 154.0 | 146.0 | 107 | 120 | 182 | 52 | 39 | 64 | 72 | 33 | 15 | 188 | 85 | — | |
| 94 | 24 | — | — | — | 202.0 | 152.0 | 142.5 | 107 | 110 | 173 | 47 | 37 | 59 | 62 | 32 | 16 | 184 | 86 | M | |
| 95 | 48 | 1689 | 1765 | 879 | 197.0 | 156.5 | 148.0 | 102 | 126 | 184 | 60 | 42 | 67 | 69 | 37 | 10 | 179 | 84 | M | |
| 96 | 26 | 1694 | 1797 | 882 | 198.0 | 147.5 | 143.0 | 101 | 128 | 184 | 60 | 36 | 59 | 69 | 34 | 15 | 184 | 79 | D-M | |
| 97 | 24 | 1713 | 1844 | 917 | 193.0 | 155.0 | 145.0 | 105 | 127 | 191 | 55 | 39 | 61 | 61 | 35 | 16 | 189 | 84 | D-M | |
| 99 | 30 | 1730 | 1852 | 923 | 199.5 | 158.0 | 147.5 | 103 | 132 | 197 | 61 | 38 | 61 | 61 | 33 | 15 | 200 | 87 | D | |
| 104 | 26 | 1719 | 1823 | 924 | 204.0 | 152.5 | 141.0 | 101 | 137 | 187 | 56 | 39 | 65 | 66 | 35 | 15 | 199 | 86 | M | |
| 105 | 34 | — | — | — | 187.0 | 144.0 | 138.0 | 92 | 131 | 172 | 59 | 38 | 62 | 68 | 34 | 20 | 192 | 77 | M-L | |
| 106 | 23 | 1569 | 1702 | 854 | 192.0 | 149.5 | 139.5 | 107 | 120 | 168 | 48 | 36 | 53 | 51 | 30 | 9 | 185 | 83 | D | |
| 107 | 28 | 1749 | 1756 | 925 | 205.0 | 157.0 | 145.0 | 106 | 124 | 186 | 55 | 38 | 61 | 68 | 37 | 18 | 197 | 86 | D | |
| 108 | 26 | 1681 | 1734 | 907 | 199.0 | 158.0 | 147.5 | 110 | 119 | 179 | 61 | 38 | 63 | 63 | 35 | 17 | 188 | 85 | D | |
| 109 | 32 | 1544 | 1703 | 824 | 189.0 | 148.0 | 144.5 | 101 | 128 | 190 | 58 | 40 | 63 | 67 | 32 | 18 | 186 | 81 | D | |
| 110 | 26 | 1680 | 1828 | 873 | 196.0 | 154.0 | 142.0 | 110 | 118 | 169 | 52 | 39 | 60 | — | — | 19 | — | — | D | |
| AGED 60 YEARS AND OVER | | | | | | | | | | | | | | | | | | | | |
| 4 | 60 | 1705 | 1857 | 867 | 192.0 | 157.0 | 150.0 | 106 | 121 | 186 | 57 | 43 | 60 | 71 | 41 | 20 | 200 | 89 | D | |
| 21 | 60 | — | — | — | 198.0 | 158.0 | 155.0 | 105 | 120 | 176 | 57 | 43 | 55 | — | — | 19 | 193 | 94 | M-L | |
| 25 | 60 | 1653 | 1752 | 868 | 194.0 | 164.0 | 152.0 | 102 | 145 | 204 | 65 | 35 | 56 | 71 | 40 | 20 | 187 | 89 | D | |
| 26 | 65 | 1601 | 1727 | 809 | 198.0 | 162.0 | 153.0 | 108 | 133 | 185 | 57 | 41 | 59 | 69 | 33 | 19 | 191 | 86 | D | |
| 31 | 60 | 1592 | 1687 | 881 | 191.0 | 155.0 | 143.0 | 102 | 128 | 186 | 61 | 40 | 54 | 69 | 35 | 19 | 173 | 83 | D | |
| 39 | 70 | 1700 | 1772 | — | 208.0 | 163.0 | 156.0 | 102 | 135 | 193 | 57 | 42 | 58 | 73 | 40 | 23 | 201 | 91 | D-M | |
| 46 | 70 | — | — | — | 196.0 | 150.0 | 149.0 | 103 | 116 | 191 | 52 | 36 | — | 75 | 38 | — | 181 | 82 | D-M | |
| 57 | 65 | 1598 | 1712 | 875 | 195.0 | 159.0 | 146.0 | 106 | 126 | 192 | 55 | 39 | 55 | 67 | 35 | — | 188 | 83 | Bl-D | |
| 62 | 60 | 1625 | 1757 | 860 | 207.0 | 151.0 | 147.0 | 105 | 123 | 179 | 54 | 44 | 55 | 67 | 35 | 20 | 191 | 85 | D | |
| 64 | 60 | — | — | — | 186.0 | 155.0 | 144.0 | — | 99 | 124 | 182 | 57 | 38 | 56 | 64 | 33 | 16 | 199 | 82 | D |
| 71 | 65 | 1744 | 1872 | 913 | 201.0 | 154.0 | 150.0 | 102 | 133 | 197 | 63 | 41 | 62 | 67 | 34 | 22 | 193 | 86 | D | |
| 74 | 60 | 1708 | 1842 | 880 | 200.0 | 159.5 | 151.0 | 105 | 133 | 179 | 57 | 37 | 64 | 66 | 35 | 24 | 203 | 90 | D-M | |
| 77 | 60 | — | — | — | 194.0 | 156.0 | 147.0 | 100 | 127 | 178 | 59 | 40 | 61 | 66 | 32 | 18 | 192 | 90 | — | |
| 86 | 60 | 1658 | 1742 | 875 | 188.0 | 155.5 | 149.0 | 107 | 123 | 182 | 56 | 40 | 64 | 69 | 34 | 18 | 182 | 91 | D-M | |

¹Serial Nos. 15-55 inclusive were measured at Smooth Rock, where the Saulteaux dialect was spoken. All others, men and old men, spoke the mixed dialect.

²Colour of iris: Bl. = black; D = dark brown; M = medium brown; L = light brown; Gr = grey.

APPENDIX II

Particulars of Gods Lake Men¹

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Mouth (length) | Ear | | Upper lip (length) | Hand | | Colour of iris |
|------------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|--------|----------------|-------|--------|--------------------|-------|-------|----------------|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crimion | Height | Width | Length | | Width | Length | | Width | | |
| AGED 20 TO 59 YEARS | | | | | | | | | | | | | | | | | | | | |
| 1 | 35 | 1689 | 1837 | 913 | 198.0 | 151.0 | 145.5 | 108 | 126 | 185 | 55 | 39 | 59 | 62 | 33 | 19 | 190 | 85 | D-M | T |
| 3 | 30 | 1773 | 1889 | 921 | 193.0 | 152.5 | 141.0 | 108 | 134 | 197 | 62 | 30 | 62 | 71 | 34 | 14 | 199 | 87 | D-M | T |
| 4 | 40 | — | — | — | 202.0 | 151.5 | 151.5 | 108 | 129 | 171 | 57 | 43 | 64 | 69 | 36 | 18 | 188 | 87 | D | G |
| 8 | 50 | 1709 | 1790 | 828 | 191.0 | 148.0 | 148.0 | 103 | 120 | 186 | 52 | 41 | 62 | 67 | 32 | 18 | 193 | 88 | D | P |
| 9 | 30 | 1756 | 1822 | 924 | 201.0 | 152.0 | 137.0 | 104 | 127 | 189 | 56 | 34 | 60 | 69 | 35 | 17 | 192 | 80 | D-M | G |
| 12 | 28 | 1682 | 1777 | 916 | 186.0 | 148.0 | 138.0 | 102 | 122 | 178 | 53 | 38 | 61 | 68 | 35 | 17 | 184 | 83 | D | P |
| 13 | 50 | 1754 | 1872 | 902 | 197.0 | 154.0 | 150.0 | 103 | 126 | 188 | 57 | 44 | 65 | 62 | 33 | 16 | 196 | 91 | D-M | G |
| 14 | 45 | 1705 | 1875 | 909 | 203.0 | 153.5 | 148.0 | 104 | 131 | 195 | 59 | 43 | 72 | 64 | 39 | 22 | 204 | 87 | D | G |
| 15 | 45 | 1782 | 1861 | 953 | 192.0 | 155.0 | 144.0 | 108 | 133 | 197 | 59 | 38 | 62 | 69 | 38 | 19 | 194 | 89 | ..... | P |
| 16 | 30 | 1696 | 1807 | 900 | 190.0 | 153.0 | 139.0 | 105 | 131 | 193 | 55 | 36 | 55 | 63 | 32 | 18 | 189 | 84 | D | P |
| 17 | 50 | 1682 | 1765 | 834 | 190.5 | 160.5 | 150.0 | 101 | 124 | 188 | 52 | 40 | 62 | 64 | 34 | 21 | 187 | 89 | L | T ² |
| 18 | 40 | 1754 | 1877 | 930 | 195.0 | 154.0 | 151.0 | 114 | 137 | 191 | 57 | 41 | 65 | 73 | 35 | 21 | 203 | 89 | D-M | P |
| 20 | 27 | 1670 | 1750 | 885 | 192.5 | 158.0 | 149.0 | 107 | 123 | 177 | 53 | 34 | 59 | 64 | 35 | 18 | 179 | 85 | D-M | T |
| 21 | 21 | — | — | — | 194.5 | 153.5 | 144.0 | 105.5 | 126 | 190 | 55 | 38 | 62 | 62 | 31 | 16 | 195 | 86 | D-M | ? |
| 22 | 45 | — | — | — | 203.0 | 164.5 | 156.0 | 114 | 122 | 189 | 49 | 39 | 64 | 65 | 37 | 19 | 198 | 92 | D | ? |
| 23 | 20 | — | — | — | 203.0 | 154.5 | 145.5 | 111 | 127 | 187 | 53 | 36 | 54 | 57 | 35 | 17 | 198 | 93 | D | ? |
| 24 | 22 | — | — | — | 184.5 | 153.5 | 135.5 | 107 | 120 | 174 | 53 | 38 | 60 | 61 | 33 | 14 | 183 | 86 | D | ? |
| AGED 60 YEARS AND OVER | | | | | | | | | | | | | | | | | | | | |
| 2 | 65 | 1748 | 1883 | 879 | 194.0 | 154.0 | 149.0 | 107 | 122 | 175 | 56 | 41 | 71 | 75 | 39 | 12 | 209 | 89 | M | G |
| 5 | 60 | — | — | — | 194.0 | 159.5 | 148.0 | 107 | 125 | 181 | 59 | 48 | 68 | 73 | 38 | 18 | 187 | 86 | D-M | P |
| 6 | 65 | 1799 | 1937 | 924 | 207.0 | 161.0 | 156.0 | 102 | 135 | 198 | 58 | 47 | 71 | 79 | 39 | 26 | 220 | 96 | D | T |
| 7 | 60 | 1746 | 1890 | 905 | 206.5 | 158.0 | 154.0 | 110 | 128 | 197 | 55 | 44 | 85 | 75 | 40 | 20 | 198 | 96 | Gr | G |
| 10 | 60 | 1640 | 1741 | 843 | 201.0 | 158.5 | 155.0 | 102 | 117 | 187 | 49 | 43 | 65 | 75 | 34 | 22 | 183 | 82 | M-L | G ³ |
| 11 | 60 | 1743 | 1822 | 930 | 195.5 | 161.0 | 151.0 | 114 | 131 | 182 | 59 | 42 | 63 | 69 | 32 | 22 | 201 | 93 | Gr | G |
| 19 | 60 | 1636 | 1763 | 865 | 203.0 | 158.0 | 146.0 | 107 | 121 | 189 | 53 | 41 | 69 | 65 | 37 | 21 | 184 | 81 | M | G |

¹ T indicates an immigrant from Trout lake.

P " " " Pipikwachoos.

G indicates native to Gods lake.

² Father white; mother breed.³ Children have hazel eyes.

APPENDIX III

Particulars of Oxford House Men

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Ear | | Upper lip (length) | Hand | | Colour of iris |
|---------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|----------------|--------|-------|--------------------|--------|-------|----------------|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-erinion | Height | Width | Mouth (length) | Length | Width | | Length | Width | |
| 1.. | 50 | 1715 | 1878 | 858 | 198.5 | 156.0 | 153.0 | 104.0 | 129 | 192 | 56 | 42 | 62 | 71 | 36 | 20 | 204 | 91 | D-M |
| 2.. | 45 | 1700 | 1818 | 864 | 190.5 | 147.0 | 153.5 | 101.0 | 119 | 179 | 56 | 40 | 63 | 74 | 39 | 21 | 187 | 91 | L |
| 4.. | 35 | 1616 | 1755 | 845 | 198.0 | 146.0 | 141.0 | 101.0 | 123 | 181 | 52 | 37 | 58 | 63 | 31 | 21 | 187 | 86 | L |
| 5.. | 25 | 1757 | 1833 | 857 | 208.5 | 137.0 | 137.0 | 105.5 | 118 | 182 | 53 | 37 | 60 | 60 | 39 | 17 | 193 | 91 | M |
| 6.. | 50 | 1762 | 1857 | 900 | 202.0 | 143.0 | 138.0 | 102.0 | 127 | 177 | 51 | 39 | 58 | 73 | 32 | 15 | 187 | 92 | L |
| 7.. | 21 | 1762 | 1894 | 906 | 195.0 | 149.0 | 148.0 | 106.0 | 120 | 185 | 58 | 39 | 58 | 66 | 37 | 16 | 204 | 93 | M-L |
| 8.. | 25 | 1853 | 1885 | 919 | 206.0 | 152.0 | 146.0 | 108.0 | 129 | 188 | 54 | 41 | 60 | 63 | 34 | 17 | 201 | 91 | M-L |
| 9.. | 55 | 1672 | 1810 | 867 | 201.5 | 155.5 | 151.0 | 102.0 | 123 | 179 | 55 | 45 | 64 | 75 | 37 | 20 | 190 | 96 | M-L |
| 10.. | 35 | 1789 | 1870 | 922 | 191.0 | 154.0 | 148.5 | 101.0 | 130 | 193 | 61 | 42 | 68 | 69 | 38 | 16 | 194 | 87 | D-M |
| 11.. | 45 | 1777 | 1880 | 923 | 208.0 | 154.0 | 145.5 | 108.0 | 142 | 204 | 59 | 37 | 55 | 73 | 33 | 23 | 200 | 91 | M-L |
| 12.. | 25 | 1712 | 1829 | 876 | 205.0 | 157.0 | 145.0 | 111.0 | 121 | 188 | 49 | 34 | 58 | 75 | 36 | 14 | 195 | 90 | D-M |
| 14.. | 28 | 1776 | 1875 | 905 | 198.0 | 155.0 | 147.0 | 102.0 | 109 | 176 | 55 | 39 | 65 | 70 | 35 | 13 | 196 | 94 | Gr |
| 15.. | 50 | 1664 | 1793 | 871 | 194.0 | 149.5 | 139.0 | 107.0 | 124 | 188 | 53 | 41 | 61 | 70 | 36 | 17 | 191 | 89 | M-L |
| 16.. | 26 | 1664 | 1727 | 858 | 189.0 | 147.0 | 140.0 | 104.0 | 126 | 177 | 53 | 38 | 60 | 61 | 32 | 19 | 184 | 81 | D-M |
| 17.. | 45 | 1716 | 1761 | 902 | 196.0 | 157.0 | 155.5 | 106.0 | 129 | 199 | 56 | 35 | 60 | 71 | 40 | ... | 185 | 90 | Gr |
| 18.. | 45 | 1667 | 1788 | 887 | 193.0 | 157.5 | 141.0 | 103.0 | 122 | 197 | 52 | 43 | 60 | 72 | 34 | 19 | 188 | 97 | Gr |
| 19.. | 25 | 1694 | 1918 | 836 | 194.0 | 138.5 | 140.5 | 95.0 | 111 | 174 | 54 | 41 | 62 | 68 | 35 | 12 | 202 | 90 | Gr |
| 20.. | 26 | 1717 | 1804 | 907 | 198.5 | 156.5 | 144.0 | 112.0 | 122 | 178 | 55 | 36 | 60 | 63 | 36 | 18 | 187 | 84 | Gr |
| 21.. | 40 | ... | ... | ... | 209.0 | 151.5 | 149.0 | 107.0 | 128 | 202 | 57 | 40 | 60 | 69 | 33 | 18 | 198 | 95 | D-M |
| 23.. | 40 | 1793 | 1889 | 900 | 206.0 | 154.5 | 145.5 | 101.0 | 121 | 176 | 55 | 40 | 62 | 66 | 34 | ... | 194 | 91 | L |
| 24.. | 26 | 1749 | 1849 | 900 | 195.0 | 148.5 | 144.5 | 105.0 | 133 | 193 | 59 | 38 | 60 | 67 | 35 | 13 | 186 | 91 | L |
| 25.. | 28 | 1773 | 1863 | 913 | 194.0 | 148.0 | 140.0 | 102.0 | 119 | 180 | 56 | 36 | 55 | 67 | 35 | 16 | 197 | 90 | D-M |
| 26.. | 21 | 1753 | 1807 | 906 | 193.0 | 155.0 | 145.5 | 104.0 | 122 | 182 | 53 | 37 | 58 | 64 | 36 | 14 | 195 | 91 | Bl |
| 27.. | 42 | ... | ... | ... | 193.5 | 155.5 | 153.0 | 104.0 | 117 | 179 | 50 | 38 | 60 | 71 | 35 | 21 | 194 | 90 | L |
| 28.. | 24 | 1698 | 1778 | 877 | 196.0 | 150.5 | 139.0 | 100.0 | 125 | 197 | 54 | 36 | 52 | 65 | 31 | 13 | 192 | 93 | D |
| 29.. | 29 | 1704 | 1850 | 884 | 192.0 | 150.5 | 139.0 | 99.0 | 119 | 182 | 55 | 35 | 61 | 60 | 36 | 14 | 190 | 87 | D |
| 30.. | ... | 1734 | 1859 | 878 | 195.5 | 154.0 | 145.5 | 112.0 | 120 | 179 | 54 | 41 | 65 | 64 | 37 | 14 | 200 | 93 | D |
| 31.. | 34 | 1783 | 1913 | 875 | 195.0 | 153.5 | 151.0 | 111.0 | 130 | 197 | 59 | 36 | 62 | 72 | 36 | 16 | 201 | 92 | D-M |
| 32.. | 40 | 1704 | 1848 | 871 | 189.0 | 153.0 | 149.5 | 109.0 | 120 | 181 | 53 | 37 | 63 | 71 | 39 | 20 | 193 | 91 | M |
| 33.. | 48 | 1745 | 1834 | 930 | 204.0 | 153.0 | 143.0 | 110.0 | 118 | 190 | 53 | 38 | 60 | 66 | 36 | 17 | 195 | 95 | M |
| 34.. | 30 | 1821 | 1939 | 934 | 199.0 | 153.0 | 143.0 | 108.0 | 132 | 193 | 59 | 41 | 65 | 67 | 35 | 19 | 197 | 89 | D-M |
| 35.. | 35 | 1720 | 1857 | 888 | 190.5 | 151.5 | 144.0 | 112.0 | 128 | 203 | 57 | 40 | 58 | 66 | 38 | 19 | 190 | 85 | D |
| 36.. | 45 | 1612 | 1713 | 843 | 191.5 | 155.0 | 140.5 | 105.0 | 126 | 193 | 58 | 37 | 54 | 73 | 33 | ... | 179 | 88 | Gr |
| 38.. | 32 | ... | ... | ... | 191.0 | 151.5 | 143.5 | 101.0 | 127 | 190 | 61 | 38 | 56 | 66 | 32 | 17 | 192 | 86 | M |
| 39.. | 38 | ... | ... | ... | 194.0 | 147.5 | 146.5 | 97.0 | 124 | 180 | ... | ... | 63 | 65 | 34 | 17 | 198 | 97 | D |
| 40.. | 28 | ... | ... | ... | 193.0 | 148.5 | 139.0 | 103.0 | 118 | 185 | 53 | 38 | 61 | 64 | 35 | 15 | 187 | 89 | D-M |
| 41.. | 28 | ... | ... | ... | 205.5 | 153.0 | 150.0 | 109.0 | 120 | 170 | 53 | 42 | 56 | 69 | 37 | 17 | 200 | 89 | D-M |
| 42.. | 28 | ... | ... | ... | 197.0 | 144.0 | 136.0 | 105.0 | 131 | 196 | 52 | 38 | 64 | 68 | 37 | 19 | 211 | 91 | D-M |
| 43.. | 28 | ... | ... | ... | 191.0 | 148.0 | 147.0 | 104.0 | 123 | 194 | 50 | 39 | 58 | 69 | 36 | 19 | 193 | 88 | Gr |
| 45.. | 32 | ... | ... | ... | 202.0 | 159.5 | 155.0 | 113.0 | 119 | 177 | 53 | 40 | 64 | 70 | 35 | 16 | 193 | 92 | D |

APPENDIX III (Continued)

Particulars of Oxford House Men (Continued)

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Ear | | Upper lip (length) | Hand | | Colour of iris |
|-------------------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|----------------|--------|-------|--------------------|--------|-------|----------------|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crinion | Height | Width | Mouth (length) | Length | Width | | Length | Width | |
| AGED 20 TO 59 YEARS—Continued | | | | | | | | | | | | | | | | | | | |
| 47.. | 21 | ..... | ..... | ..... | 182.0 | 150.5 | 142.0 | 106.0 | 113 | 164 | 49 | 35 | 60 | 67 | 36 | 14 | 178 | 85 | M |
| 48.. | 32 | ..... | ..... | ..... | 189.0 | 151.0 | 151.0 | 105.0 | 124 | 185 | 56 | 44 | 66 | 73 | 40 | 18 | 195 | 90 | M |
| 49.. | 21 | ..... | ..... | ..... | 196.0 | 155.0 | 143.5 | 105.0 | 122 | 187 | 50 | 34 | 57 | 64 | 35 | 16 | 193 | 84 | D |
| 50.. | 20 | ..... | ..... | ..... | 190.0 | 139.0 | 132.0 | 98.0 | 121 | 169 | 49 | 34 | 52 | 60 | 34 | 16 | 184 | 87 | D |
| 52.. | .. | ..... | ..... | ..... | 194.0 | 145.0 | 143.0 | 95.0 | 119 | 181 | 52 | 43 | 62 | 66 | 31 | 18 | 188 | 86 | D-M |
| 53.. | .. | ..... | ..... | ..... | 196.0 | 150.0 | 141.5 | 98.0 | 126 | 182 | 58 | 38 | 58 | 68 | 33 | 15 | 195 | 85 | D |
| 54.. | 50 | ..... | ..... | ..... | 192.0 | 148.5 | 143.0 | 102.0 | 128 | 184 | 51 | 37 | 56 | 75 | 39 | 15 | 184 | 85 | M-L |
| 55.. | 20 | ..... | ..... | ..... | 197.0 | 151.0 | 137.5 | 104.0 | 117 | 182 | 44 | 41 | 61 | 65 | 35 | 19 | 194 | 87 | M |
| 56.. | 26 | ..... | ..... | ..... | 196.0 | 144.0 | 148.0 | 98.0 | 123 | 189 | 53 | 40 | 57 | 68 | 34 | 16 | 191 | 91 | M |
| 57.. | 30 | ..... | ..... | ..... | 189.5 | 146.5 | 137.5 | 107.0 | 112 | 184 | 46 | 36 | 61 | 64 | 35 | 16 | 192 | 84 | M-L |
| 59.. | 30 | ..... | ..... | ..... | 195.0 | 151.0 | 142.0 | 110.0 | 132 | 203 | 58 | 35 | 60 | 70 | 37 | 17 | 197 | 91 | M |
| 60.. | 40 | ..... | ..... | ..... | 198.0 | 149.0 | 147.5 | 110.0 | 122 | 178 | 57 | 43 | 60 | 70 | 35 | 17 | 195 | 90 | D |
| 61.. | 40 | ..... | ..... | ..... | 196.5 | 160.5 | 151.5 | 107.0 | 121 | 182 | 55 | 35 | 62 | 73 | 35 | 19 | 183 | 86 | M |
| 62.. | 45 | ..... | ..... | ..... | 195.0 | 152.0 | 144.5 | 107.0 | 122 | 178 | 53 | 40 | 60 | 66 | 38 | 16 | 191 | 93 | D |
| 63.. | 21 | ..... | ..... | ..... | 190.5 | 146.0 | 135.0 | 103.0 | 117 | 167 | 50 | 39 | 56 | 61 | 29 | 15 | 187 | 84 | D |
| AGED 60 YEARS AND OVER | | | | | | | | | | | | | | | | | | | |
| 3.. | 65 | 1589 | ..... | 804 | 196.0 | 155.0 | 145.5 | 104.0 | 124 | 186 | 54 | 42 | 62 | 70 | 36 | 18 | 189 | 85 | ? |
| 13.. | 60 | 1692 | 1786 | 906 | 198.5 | 159.0 | 148.5 | 108.0 | 123 | 189 | 60 | 38 | 62 | 67 | 35 | 17 | 185 | 87 | D-M |
| 22.. | 70 | ..... | ..... | ..... | 189.5 | 155.5 | 149.5 | 112.0 | 128 | 183 | 58 | 38 | 62 | 71 | 38 | 22 | 202 | 91 | D-M |
| 44.. | 60 | ..... | ..... | ..... | 198.0 | 159.0 | 149.5 | 107.0 | 129 | 190 | 54 | 40 | 68 | 69 | 37 | 19 | 208 | 91 | Gr |

APPENDIX IV
Particulars of Island Lake Women¹

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | | Nose | | Ear | | Upper lip (length) | Hand | | Colour of iris |
|---------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|-----------------|--------|-------|--------|--------------------|-------|-----|----------------|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Mentor-crinion | Height | Width | Length (length) | Length | Width | Length | | Width | | |
| AGED 20 TO 59 YEARS | | | | | | | | | | | | | | | | | | | | |
| 3. | 40 | 1618 | 1723 | 826 | 198.0 | 157.0 | 146.0 | 105.0 | 124 | 183 | .. | .. | 62 | .. | .. | .. | .. | 195 | 84 | D |
| 8. | 25 | 1593 | 1732 | 841 | 191.0 | 154.0 | 145.0 | 106.0 | 118 | 177 | 48 | 37.0 | 52 | .. | .. | .. | .. | 182 | 73 | D |
| 9. | 30 | 1688 | 1722 | 843 | 182.0 | 143.0 | 136.0 | 98.0 | 116 | 173 | 55 | 38.0 | 58 | 58 | 34 | .. | .. | 175 | 71 | D |
| 10. | 50 | 1526 | 1617 | 790 | 188.0 | 157.0 | 141.0 | 102.0 | 123 | 189 | 54 | 35.0 | 55 | 59 | 35 | .. | .. | 185 | 80 | D-M |
| 12. | 55 | 1591 | 1712 | 822 | 193.5 | 156.0 | 146.0 | 107.0 | 119 | 181 | 50 | 36.0 | 60 | 63 | 31 | .. | .. | 185 | 80 | ..... |
| 14. | 32 | 1607 | 1719 | 858 | 199.0 | 152.0 | 143.0 | 110.0 | 112 | 173 | 48 | 37.0 | 56 | 58 | 35 | .. | .. | 181 | 82 | D |
| 16. | 40 | 1505 | 1632 | 793 | 188.0 | 144.0 | 137.0 | 101.0 | 118 | 167 | 53 | 33.0 | 54 | 54 | 35 | .. | .. | 181 | 81 | B1 |
| 17. | 34 | 1625 | 1657 | 871 | 191.0 | 145.0 | 138.0 | 103.0 | 127 | 177 | 56 | 36.0 | 60 | 59 | 33 | .. | .. | 179 | 75 | B1 |
| 18. | 30 | 1563 | 1622 | 822 | 184.0 | 145.0 | 137.0 | 95.0 | 124 | 177 | 53 | 40.0 | 52 | 63 | 37 | .. | .. | 180 | 77 | D |
| 19. | 25 | 1603 | 1637 | 834 | 190.0 | 153.5 | 136.0 | 99.0 | 117 | 168 | 50 | 40.0 | 52 | .. | .. | .. | .. | 176 | 74 | B1 |
| 20. | 35 | 1589 | 1730 | 829 | 190.0 | 149.0 | 135.0 | 98.0 | 114 | 169 | 52 | 33.0 | 53 | .. | .. | .. | .. | 188 | 75 | D-M |
| 21. | 40 | 1543 | 1627 | 825 | 194.0 | 152.5 | 140.0 | 105.0 | 112 | 168 | 50 | 37.0 | 58 | 58 | 32 | .. | .. | 169 | 81 | B1 |
| 23. | 30 | 1508 | 1667 | 822 | 181.5 | 149.5 | 135.5 | 103.0 | 114 | 178 | 52 | 34.0 | 59 | .. | .. | .. | .. | 175 | 73 | M |
| 24. | 35 | 1561 | 1652 | 822 | 190.0 | 151.0 | 138.5 | 102.0 | 122 | 185 | 52 | 40.0 | 56 | .. | .. | .. | .. | 179 | 79 | B1 |
| 26. | 28 | 1622 | 1692 | 832 | 197.0 | 151.0 | 137.0 | 96.0 | 124 | 186 | 54 | 40.0 | 56 | .. | .. | .. | .. | 177 | 72 | ..... |
| 27. | 35 | 1649 | 1704 | 831 | 186.0 | 154.0 | 138.0 | 100.0 | 115 | 156 | 51 | 35.0 | 52 | 60 | 36 | .. | .. | 184 | 80 | D-M |
| 28. | 30 | 1535 | 1602 | 831 | 188.0 | 149.0 | 139.0 | 104.0 | 116 | 176 | 52 | 34.0 | 56 | 64 | 35 | .. | .. | 174 | 70 | M |
| 29. | 28 | 1493 | 1542 | 822 | 184.5 | 145.0 | 133.0 | 103.0 | 115 | 165 | 47 | 36.0 | 51 | .. | .. | .. | .. | 165 | 75 | D |
| 30. | 30 | 1575 | 1677 | 822 | 186.0 | 149.0 | 139.0 | 97.0 | 119 | 181 | 52 | 33.0 | 55 | 62 | 37 | .. | .. | 176 | 81 | B1 |
| 31. | 26 | 1585 | 1677 | 822 | 191.0 | 151.0 | 144.0 | 105.0 | 117 | 174 | 51 | 38.0 | 55 | 64 | 37 | 188 | 188 | 188 | 78 | D |
| 32. | 45 | 1555 | 1662 | 822 | 185.0 | 152.0 | 141.0 | 101.0 | 126 | 184 | 57 | 34.0 | 54 | 59 | 36 | .. | .. | 168 | 78 | D-M |
| 34. | 45 | 1534 | 1617 | 822 | 186.0 | 154.5 | 144.0 | 105.0 | 109 | 173 | 52 | 38.0 | 57 | 59 | 34 | .. | .. | 174 | 76 | D-M |
| 35. | 26 | 1595 | 1625 | 822 | 194.0 | 150.5 | 138.0 | 105.0 | 120 | 178 | 50 | 37.0 | 55 | 64 | 37 | .. | .. | 182 | 74 | D |
| 38. | 24 | 1506 | 1604 | 822 | 179.5 | 150.0 | 136.0 | 97.0 | 118 | 165 | 50 | 35.0 | 51 | 54 | 35 | .. | .. | 175 | 80 | D |
| 39. | 32 | 1601 | 1707 | 822 | 176.0 | 146.0 | 137.0 | 98.0 | 124 | 181 | 56 | 34.0 | 57 | 60 | 36 | .. | .. | 176 | 78 | B1 |
| 40. | 28 | 1659 | 1752 | 822 | 194.0 | 151.0 | 142.0 | 105.0 | 123 | 168 | 56 | 37.0 | 58 | 67 | 34 | .. | .. | 196 | 83 | B1 |
| 41. | 28 | 1559 | 1677 | 822 | 190.0 | 156.0 | 139.0 | 98.0 | 116 | 176 | 54 | 36.0 | 54 | 59 | 34 | .. | .. | 178 | 78 | B1 |
| 43. | 45 | 1594 | 1627 | 822 | 194.0 | 149.0 | 145.0 | 101.0 | 124 | 173 | 52 | 37.0 | 61 | 63 | 31 | .. | .. | 179 | 83 | D |
| 44. | 22 | 1556 | 1672 | 822 | 191.0 | 150.0 | 137.5 | 106.0 | 117 | 177 | 48 | 37.0 | 57 | 60 | 35 | .. | .. | 183 | 82 | D-M |
| 46. | 30 | 1587 | 1632 | 822 | 178.0 | 149.0 | 138.0 | 101.0 | 114 | 175 | 46 | 33.0 | 50 | 57 | 37 | .. | .. | 185 | 77 | D |
| 48. | 20 | 1606 | 1696 | 822 | 186.0 | 148.0 | 140.0 | 110.0 | 113 | 169 | 46 | 39.0 | 51 | 61 | 34 | .. | .. | 179 | 81 | B1 |
| 49. | 45 | 1650 | 1710 | 822 | 197.0 | 157.0 | 140.0 | 106.0 | 118 | 170 | 50 | 40.0 | 61 | 64 | 34 | .. | .. | 186 | 80 | B1 |
| 52. | 24 | 1552 | 1622 | 822 | 190.0 | 150.0 | 136.0 | 106.0 | 106 | 165 | 47 | 32.5 | 49 | 58 | 36 | .. | .. | 185 | 79 | D |
| 54. | 40 | 1520 | 1619 | 792 | 185.0 | 149.0 | 140.0 | 98.0 | 113 | 169 | 52 | 35.0 | 60 | 60 | 33 | 17 | 176 | 76 | D | |
| 55. | 26 | 1567 | 1564 | 843 | 179.0 | 149.5 | 141.0 | 103.0 | 117 | 173 | 50 | 31.0 | 50 | 55 | 31 | 19 | 168 | 73 | B1 | |
| 56. | 26 | 1595 | 1677 | 822 | 181.0 | 155.0 | 144.0 | 104.0 | 124 | 172 | 55 | 35.0 | 50 | 60 | 32 | 16 | 176 | 80 | D | |
| 58. | 40 | 1468 | 1570 | 788 | 181.0 | 151.0 | 134.0 | 95.0 | 113 | 174 | 45 | 33.0 | 54 | 54 | 32 | 17 | 175 | 75 | B1 | |
| 59. | 25 | 1529 | 1626 | 814 | 191.0 | 148.0 | 134.0 | 103.0 | 115 | 174 | 47 | 35.0 | 52 | 57 | 35 | 15 | 177 | 73 | D-M | |
| 61. | 35 | 1507 | 1627 | 822 | 183.0 | 142.0 | 134.0 | 99.0 | 111 | 165 | 47 | 36.0 | 55 | 57 | 32 | 15 | 174 | 78 | D | |
| 63. | 32 | 1546 | 1657 | 808 | 187.0 | 153.5 | 143.0 | 113.0 | 121 | 173 | 51 | 40.0 | 55 | 63 | 36 | 16 | 177 | 78 | B1 | |

¹ The women and old women whose serial numbers fall between 6 and 53 inclusive were measured at Smooth Rock, where the Sauteux dialect was spoken. The remainder spoke mixed Sauteux and Cree.

² Cannot straighten.

³ Fat, not taken.

APPENDIX IV (Continued)
Particulars of Island Lake Women (Continued)

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Ear | | Hand | | Colour of iris | |
|---------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|--------|-------|--------------------|--------|-------|----------------|-----|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crinion | Height | Width | Length | Width | Upper lip (length) | Length | Width | | |
| 65.. | 24 | 1606 | 1672 | 845 | 193.0 | 151.0 | 142.0 | 108.0 | 118 | 185 | 50 | 36.0 | 54 | 64 | 36 | 18 | 182 | 77 | D |
| 67.. | ... | 1596 | 1662 | 836 | 191.0 | 157.0 | 142.0 | 107.0 | 122 | 187 | 50 | 34.0 | 52 | 53 | 35 | 19 | 173 | 80 | D |
| 68.. | 20 | 1609 | 1690 | 852 | 186.0 | 147.5 | 137.0 | 104.0 | 122 | 181 | 49 | 32.0 | 54 | 55 | 34 | 19 | 182 | 80 | B1 |
| 69.. | 32 | 1636 | 1735 | 875 | 195.0 | 145.0 | 134.0 | 102.0 | 126 | 191 | 54 | 35.0 | 57 | 54 | 30 | 19 | 190 | 79 | B1 |
| 70.. | 36 | 1701 | 1840 | 871 | 185.0 | 149.5 | 144.5 | 105.0 | 116 | 175 | 52 | 34.0 | 57 | 59 | 33 | 17 | 202 | 78 | B1 |
| 72.. | 45 | 1649 | 1725 | 838 | 189.0 | 148.0 | 142.0 | 107.0 | 119 | 177 | 53 | 36.0 | 61 | 64 | 33 | 16 | 190 | 79 | D |
| 73.. | 28 | 1552 | 1687 | 801 | 191.0 | 149.5 | 139.0 | 109.0 | 123 | 185 | 54 | 38.0 | 38 | 60 | 34 | 17 | 180 | 78 | D-M |
| 74.. | 45 | 1496 | 1587 | 815 | 191.0 | 153.0 | 143.0 | 99.0 | 127 | 184 | 51 | 36.0 | 59 | 57 | 32 | 21 | 175 | 82 | D-M |
| 76.. | 30 | 1576 | 1712 | 852 | 188.0 | 149.5 | 140.0 | 100.0 | 118 | 168 | 47 | 34.0 | 54 | 57 | 36 | 21 | 183 | 86 | D-M |
| 77.. | 30 | 1601 | 1679 | 827 | 191.0 | 154.0 | 149.0 | 112.0 | 117 | 189 | 47 | 33.0 | 58 | 59 | 32 | 17 | 187 | 80 | B1 |
| 78.. | 35 | 1557 | 1617 | 845 | 174.0 | 153.5 | 141.0 | 98.0 | 123 | 184 | 52 | 35.0 | 56 | 60 | 37 | 18 | 182 | 79 | D-M |
| 79.. | 36 | 1578 | 1637 | 852 | 178.0 | 152.5 | 140.5 | 99.0 | 119 | 178 | 50 | 33.0 | 58 | 58 | 37 | 17 | 176 | 75 | D |
| 80.. | 38 | 1583 | 1657 | 825 | 190.0 | 152.0 | 143.0 | 104.0 | 116 | 175 | 50 | 36.0 | 38 | 57 | 35 | 18 | 177 | 81 | D |
| 81.. | 25 | 1586 | 1752 | 820 | 198.0 | 151.5 | 147.5 | 110.0 | 129 | 191 | 49 | 37.0 | 62 | 61 | 34 | 22 | 185 | 80 | D-M |
| 82.. | 28 | 1597 | 1657 | 854 | 185.0 | 145.0 | 136.5 | 95.0 | 121 | 182 | 54 | 34.0 | 52 | 61 | 32 | 14 | 184 | 78 | D-M |
| 83.. | 20 | 1594 | 1652 | 865 | 187.0 | 152.0 | 145.0 | 105.0 | 107 | 167 | 45 | 35.0 | 56 | 56 | 32 | 16 | 178 | 79 | D |
| 84.. | 21 | 1591 | 1702 | 830 | 187.5 | 144.0 | 136.0 | 98.0 | 119 | 168 | 49 | 36.0 | 58 | 53 | 34 | 18 | 190 | 84 | D-M |
| 86.. | 42 | 1592 | 1697 | ... | 185.0 | 147.5 | 139.5 | 101.0 | 117 | 172 | 51 | 33.0 | 52 | 56 | 33 | 19 | 172 | 77 | D |
| 87.. | ... | 1499 | 1572 | ... | 177.0 | 146.0 | 139.0 | 99.0 | 113 | 170 | 43 | 32.0 | 50 | 59 | 31 | 15 | 166 | 75 | D-M |
| 88.. | 55 | 1627 | ... | ... | 199.0 | 154.0 | 141.0 | 103.0 | 118 | 176 | 57 | 36.0 | 57 | 55 | 35 | 17 | 192 | 80 | D-M |
| 89.. | 20 | 1626 | 1657 | 888 | 187.0 | 153.0 | 145.0 | 107.0 | 118 | 174 | 47 | 32.0 | 53 | 54 | 31 | 19 | 178 | 83 | D |
| 91.. | 42 | 1537 | 1634 | 826 | 185.0 | 155.0 | 141.5 | 104.0 | 113 | 169 | 51 | 36.0 | 62 | 62 | 37 | 17 | 180 | 76 | D |
| 92.. | 32 | 1548 | 1654 | 842 | 186.0 | 146.5 | 141.0 | 107.0 | 119 | 177 | 51 | 36.0 | 57 | 57 | 32 | 16 | 183 | 80 | D-M |
| 93.. | ... | 1477 | 1577 | 796 | 192.0 | 150.0 | 137.0 | 101.0 | 114 | 177 | 48 | 32.0 | 56 | 57 | 33 | 15 | 174 | 76 | D-M |
| 94.. | 51 | 1485 | 1612 | 767 | 196.0 | 146.0 | 137.5 | 102.0 | 121 | 169 | 51 | 36.0 | 52 | 63 | 32 | 22 | 181 | 80 | D |
| 96.. | 48 | 1512 | 1584 | 794 | 181.0 | 148.0 | 139.0 | 100.0 | 113 | 164 | 49 | 34.0 | 54 | 60 | 34 | 15 | 175 | 75 | D-M |
| 97.. | ... | 1545 | 1656 | 823 | 198.0 | 152.0 | 141.0 | 104.0 | 119 | 185 | 48 | 36.0 | 53 | 54 | 32 | 14 | 178 | 78 | D |
| 98.. | 36 | 1550 | 1672 | 816 | 187.0 | 148.5 | 141.0 | 103.0 | 115 | 176 | 46 | 36.0 | 58 | 57 | 30 | 14 | 188 | 79 | D |
| 99.. | 35 | 1488 | 1559 | 802 | 188.0 | 146.0 | 139.0 | 105.0 | 112 | 167 | 47 | 36.0 | 49 | 55 | 32 | 18 | 169 | 79 | D |
| 100. | 35 | 1502 | ... | 806 | 191.0 | 153.0 | 146.0 | 106.0 | 116 | 157 | 47 | 37.0 | 56 | 60 | 30 | 21 | 181 | 78 | D |
| 102. | 28 | 1599 | 1772 | 833 | 188.0 | 152.0 | 146.0 | 102.0 | 127 | 183 | 57 | 37.0 | 61 | 62 | 32 | 15 | 188 | 89 | D-M |
| 103. | 23 | 1502 | 1632 | 777 | 188.0 | 149.0 | 133.0 | 101.0 | 124 | 187 | 54 | 34.0 | 51 | 34 | 34 | 15 | 186 | 75 | D-M |
| 104. | ... | 1562 | 1663 | 822 | 181.0 | 154.0 | 139.0 | 99.0 | 117 | 182 | 51 | 31.0 | 51 | 58 | 34 | 16 | 187 | 81 | D |
| 105. | 50 | 1551 | 1702 | 819 | 198.0 | 153.5 | 146.5 | 107.0 | 124 | 177 | 52 | 37.0 | 59 | 61 | 36 | 21 | 182 | 78 | D-M |
| 106. | 30 | 1544 | 1677 | 834 | 198.0 | 156.0 | 144.5 | 102.0 | 124 | 171 | 49 | 36.0 | 54 | 58 | 36 | 21 | 184 | 81 | B1 |
| 108. | 26 | 1639 | 1684 | 862 | 196.5 | 158.0 | 144.0 | 105.0 | 126 | 182 | 49 | 35.0 | 57 | 60 | 33 | 19 | 184 | 83 | B1 |
| 109. | 24 | 1666 | 1787 | 844 | 185.5 | 148.0 | 136.0 | 104.0 | 111 | 166 | 46 | 32.0 | 57 | 57 | 35 | 12 | 189 | 72 | D-M |
| 110. | 30 | 1623 | 1662 | 870 | 183.0 | 156.0 | 144.0 | 98.0 | 124 | 186 | 53 | 36.0 | 56 | 60 | 35 | 17 | 181 | 78 | M |
| 111. | 30 | 1573 | 1628 | 847 | 186.0 | 149.0 | 138.0 | 104.0 | 121 | 177 | 48 | 33.0 | 55 | 59 | 33 | 20 | 178 | 75 | D |
| 112. | 30 | 1713 | 1772 | 881 | 190.0 | 150.0 | 139.0 | 102.0 | 124 | 185 | 54 | 36.0 | 58 | 61 | 33 | 13 | 189 | 76 | D-M |
| 114. | 50 | 1550 | 1647 | 815 | 189.0 | 146.0 | 142.0 | 101.0 | 115 | 163 | 47 | 35.0 | 58 | 65 | 32 | 21 | 182 | 79 | B1 |
| 115. | ... | 1557 | 1687 | 821 | 195.0 | 151.5 | 144.0 | 105.0 | 114 | 174 | 49 | 37.0 | 62 | 64 | 34 | 19 | 175 | 80 | D-M |
| 116. | 55 | 1598 | 1672 | 831 | 195.0 | 154.5 | 145.5 | 109.0 | 114 | 167 | 46 | 40.0 | 70 | 60 | 32 | 19 | 175 | 80 | D-M |
| 117. | 36 | 1643 | 1742 | 863 | 199.0 | 151.5 | 145.0 | 111.0 | 127 | 180 | 52 | 44.0 | 60 | 55 | 31 | 19 | 186 | 80 | D-M |
| 118. | 50 | 1568 | 1624 | 840 | 190.0 | 155.5 | 141.5 | 101.0 | 120 | 178 | 56 | 34.0 | 55 | 56 | 35 | 19 | 171 | 76 | D |

AGED 20 TO 59 YEARS—Continued

APPENDIX IV (Continued)

Particulars of Island Lake Women (Continued)

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | Nose | | Ear | | Hand | | Colour of iris | | | |
|-------------------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|--------|-------|--------------------|----------------|--------|-------|-----|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-erinion | Height | Width | Length | Width | Upper lip (length) | | Length | Width | |
| AGED 20 TO 59 YEARS—Continued | | | | | | | | | | | | | | | | | | | |
| 119. | 28 | 1608 | 1687 | 875 | 192.0 | 150.5 | 146.5 | 105.0 | 118 | 178 | 48 | 35.0 | 57 | 57 | 31 | 18 | 177 | 83 | D |
| 121. | 45 | 1516 | 1637 | 800 | 182.0 | 148.0 | 138.0 | 101.0 | 114 | 178 | 50 | 35.0 | 58 | 65 | 38 | 14 | 181 | 74 | D |
| 122. | 30 | 1594 | 1717 | 836 | 186.0 | 153.5 | 144.0 | 104.0 | 126 | 197 | 50 | 36.0 | 57 | 58 | 30 | 19 | 184 | 80 | D |
| 124. | 26 | 1617 | 1615 | 846 | 190.0 | 146.0 | 135.5 | 100.0 | 125 | 181 | 52 | 35.0 | 55 | 56 | 35 | 17 | 179 | 71 | B1 |
| 125. | 40 | 1512 | 1602 | 828 | 196.0 | 154.0 | 140.5 | 107.0 | 114 | 176 | 48 | 34.0 | 60 | 56 | 34 | 22 | 171 | 79 | D-M |
| 126. | 30 | 1610 | 1687 | 838 | 187.0 | 152.0 | 143.5 | 103.0 | 122 | 178 | 56 | 35 | 66 | 57 | 31 | 16 | 182 | 80 | D-M |
| 127. | 35 | 1471 | 1543 | 784 | 183.0 | 144.0 | 134.5 | 99.0 | 118 | 174 | 49 | 34 | 57 | 59 | 33 | 18 | 171 | 73 | D-M |
| 128. | 55 | 1520 | 1612 | 793 | 186.0 | 148.5 | 140.5 | 97.0 | 118 | 170 | 47 | 34 | 63 | 60 | 34 | 21 | 172 | 78 | D-M |
| 129. | 35 | 1607 | 1670 | 836 | 189.0 | 148.0 | 133.5 | 94.0 | 118 | 184 | 51 | 33 | 60 | 60 | 36 | 11 | 176 | 75 | D |
| 130. | 30 | 1587 | 1682 | 820 | 174.0 | 148.0 | 137.5 | 97.0 | 122 | 168 | 54 | 31 | 54 | 54 | 32 | 18 | 182 | 79 | D-M |
| 132. | 24 | 1664 | 1752 | 885 | 190.0 | 147.0 | 140.5 | 103.0 | 126 | 182 | 53 | 34 | 53 | 60 | 35 | 14 | 185 | 86 | D-M |
| 133. | 34 | 1634 | 1767 | 855 | 192.0 | 150.0 | 140.5 | 103.0 | 122 | 177 | 54 | 39 | 60 | 61 | 36 | 15 | 179 | 81 | D-M |
| 134. | 28 | 1609 | 1722 | 835 | 197.0 | 150.0 | 142.0 | 102.0 | 119 | 177 | 51 | 30 | 58 | 57 | 31 | 15 | 181 | 76 | D |
| 138. | 40 | 1610 | 1702 | 869 | 189.0 | 154.0 | 146.0 | 101.0 | 121 | 191 | 53 | 37 | 58 | 67 | 35 | 19 | 182 | 80 | D |
| 139. | 21 | 1538 | 1627 | 858 | 183.5 | 148.5 | 137.5 | 104.0 | 114 | 179 | 46 | 31 | 55 | 57 | 34 | 13 | 176 | 76 | D |
| AGED 60 YEARS AND OVER | | | | | | | | | | | | | | | | | | | |
| 2. | 65 | 1639 | 1571 | 838 | 187.0 | 153.0 | 143.0 | 98.0 | 122 | 180 | ... | ... | 53 | ... | ... | ... | ... | ... | ... |
| 6. | 60 | 1594 | 1672 | 852 | 195.0 | 154.0 | 146.0 | 100.0 | 108 | 182 | 47 | 35 | 52 | 68 | 41 | ... | 179 | 77 | D |
| 7. | 65 | 1567 | 1714 | 824 | 191.0 | 158.0 | 145.0 | 105.0 | 122 | 194 | 56 | 39 | 54 | 67 | 36 | ... | 191 | 75 | D |
| 15. | 60 | 1659 | 1727 | 852 | 192.0 | 148.0 | 142.0 | 103.0 | 117 | 171 | 50 | 42 | 62 | ... | ... | ... | 190 | 85 | D |
| 22. | 60 | 1581 | 1647 | ... | 192.0 | 151.0 | 142.0 | 101.0 | 124 | 175 | 54 | 36 | 58 | 56 | 33 | ... | 174 | 74 | D |
| 33. | ... | ... | ... | ... | 188.0 | 149.0 | 133.5 | 99.0 | 121 | 160 | 53 | 38 | 51 | 66 | 37 | ... | ... | ... | M |
| 42. | ... | 1548 | 1662 | ... | 191.0 | 154.0 | 143.5 | 101.0 | 118 | ... | 51 | 32 | 53 | 65 | 33 | ... | 177 | 80 | B1 |
| 53. | ... | ... | ... | ... | 188.0 | 157.0 | 138.0 | 104.0 | 117 | 167 | 53 | 37 | 58 | 64 | 33 | ... | 167 | 75 | M |
| 75. | 60 | 1610 | 1717 | 867 | 198.0 | 151.0 | 143.0 | 107.0 | 124 | 183 | 61 | 36 | 58 | 61 | 36 | 17 | 193 | 81 | B1 |
| 85. | 65 | ... | ... | ... | 220.0 | 152.0 | 136.0 | 102.0 | 118 | 178 | 53 | 35 | 51 | 55 | 34 | 11 | 177 | 78 | M |
| 95. | 60 | ... | ... | ... | 195.0 | 154.0 | 143.0 | 105.0 | 122 | 170 | 52 | 37 | 58 | 62 | 34 | 19 | 185 | 83 | D |
| 120. | 60 | ... | ... | ... | 183.0 | 152.0 | 144.5 | 101.0 | 124 | 196 | 57 | 40 | 61 | 66 | 31 | 18 | 185 | 78 | D |
| 131. | 65 | ... | ... | ... | 184.0 | 151.5 | 142.0 | 99.0 | 114 | 167 | 49 | 39 | 59 | 70 | 36 | 18 | 165 | 79 | D-M |
| 135. | 60 | ... | 809 | ... | 181.0 | 152.0 | 143.0 | 107.0 | 112 | 174 | 49 | 35 | 57 | 59 | 31 | 14 | 182 | 82 | D-M |
| 142. | 60 | ... | ... | ... | 185.0 | 152.0 | 137.5 | 104.0 | 119 | 179 | 55 | 38 | 62 | 60 | 33 | 18 | ... | ... | D |
| 143. | 65 | ... | ... | ... | 170.0 | 151.0 | 138.0 | 101.0 | 112 | 169 | 49 | 37 | 59 | 64 | 33 | 19 | ... | ... | ... |

APPENDIX V
Particulars of Island Lake Women¹

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Ear | | Upper lip (length) | Hand | | Colour of iris | |
|------------------------|-------|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|----------------|--------|-------|--------------------|--------|-------|----------------|---|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crinion | Height | Width | Mouth (length) | Length | Width | | Length | Width | | |
| AGED 20 TO 59 YEARS | | | | | | | | | | | | | | | | | | | | |
| 1.. | 25 | 1611 | 1673 | 852 | 183.0 | 151.0 | 138.0 | 103.0 | 119 | 181 | 52 | 30 | 53 | 60 | 31 | 14 | 177 | 79 | B1 | G |
| 2.. | 25 | 1647 | 1754 | 866 | 191.0 | 158.0 | 142.5 | 103.0 | 130 | 197 | 55 | 30 | 56 | ..... | ..... | 14 | 178 | 77 | D | G |
| 3.. | 28 | 1626 | 1702 | 881 | 186.0 | 154.0 | 141.0 | 97.0 | 121 | 184 | 52 | 35 | 54 | ..... | ..... | 13 | 181 | 83 | D | D |
| 4.. | 21 | 1615 | 1698 | 843 | 184.0 | 148.0 | 141.0 | 100.0 | 124 | 186 | 47 | 33 | 56 | ..... | ..... | 21 | 181 | 76 | B1 | G |
| 5.. | 21 | 1599 | 1677 | 841 | 184.0 | 142.0 | 135.0 | 99.0 | 118 | 178 | 48 | 31 | 59 | ..... | ..... | 16 | 181 | 77 | D | G |
| 6.. | 40 | 1529 | 1621 | 824 | 189.0 | 150.0 | 143.0 | 105.0 | 117 | 167 | 50 | 35 | 60 | ..... | ..... | 19 | 166 | 82 | D | P |
| 7.. | 45 | 1538 | 1663 | 821 | 197.0 | 149.0 | 140.0 | 107.0 | 118 | 171 | 53 | 34 | 59 | ..... | ..... | 13 | 178 | 82 | D | P |
| 8.. | 55 | 1547 | 1688 | 827 | 183.0 | 147.5 | 133.5 | 100.0 | 131 | 181 | 54 | 36 | 57 | ..... | ..... | 20 | 175 | 79 | M | T |
| 9.. | 35 | 1568 | 1679 | 842 | 191.0 | 153.0 | 149.0 | 105.0 | 121 | 177 | 50 | 35 | 61 | ..... | ..... | 20 | 185 | 84 | D | P |
| 13.. | 35 | 1520 | 1652 | 795 | 192.0 | 149.0 | 139.0 | 100.5 | 119 | 187 | 49 | 36 | 62 | 53 | 32 | 16 | 174 | 80 | D-M | T |
| 16.. | 24 | 1710 | 1737 | 882 | 192.0 | 151.0 | 140.0 | 111.0 | 118 | 175 | 48 | 33 | 58 | 63 | 33 | 19 | 182 | 80 | D-M | G |
| 17.. | 35 | 1525 | 1649 | 817 | 194.0 | 152.0 | 142.5 | 106.0 | 122 | 183 | 51 | 31 | 59 | 60 | 30 | 19 | 180 | 80 | D-M | P |
| 21.. | 30 | 1605 | 1715 | 892 | 183.0 | 146.5 | 139.0 | 107.0 | 119 | 177 | 51 | 38 | 63 | ..... | ..... | 19 | 187 | 77 | D | G |
| 22.. | 35 | 1605 | 1687 | 856 | 190.0 | 155.0 | 144.0 | 102.0 | 121 | 188 | 50 | 40 | 57 | 61 | 32 | 17 | 179 | 84 | D | G |
| 23.. | 45 | 1515 | 1640 | 794 | 184.0 | 145.5 | 139.0 | 102.0 | 114 | 168 | 53 | 36 | 66 | 57 | 34 | 19 | 172 | 78 | D | P |
| 25.. | 30 | 1577 | 1665 | 818 | 189.0 | 144.0 | 137.5 | 99.0 | 121 | 172 | 50 | 36 | 59 | ..... | ..... | 16 | 182 | 81 | D-M | G |
| 26.. | 26 | ..... | ..... | ..... | 192.5 | 147.0 | 138.0 | 106.0 | 107 | 162 | 42 | 37 | 61 | ..... | ..... | 16 | 176 | 71 | D | P |
| 27.. | 30 | 1586 | 1693 | 812 | 186.5 | 146.5 | 134.5 | 105.0 | 117 | 169 | 47 | 40 | 55 | ..... | ..... | 17 | 182 | 78 | D-M | G |
| 28.. | 38 | 1545 | 1690 | 810 | 192.0 | 156.5 | 148.0 | 105.0 | 130 | 177 | 56 | 34 | 62 | ..... | ..... | 14 | 176 | 77 | B1 | P |
| 29.. | 30 | 1604 | 1666 | 843 | 186.0 | 149.0 | 140.0 | 105.0 | 117 | 169 | 51 | 37 | 59 | ..... | ..... | 15 | 178 | 85 | D-M | G |
| 33.. | 30 | 1609 | 1685 | 855 | 189.0 | 146.0 | 139.0 | 102.0 | 117 | 165 | 49 | 32 | 57 | ..... | ..... | 17 | 174 | 81 | D-M | G |
| 35.. | ..... | 1494 | 1594 | 776 | 184.0 | 149.0 | 140.5 | 102.0 | 114 | 166 | 47 | 32 | 60 | ..... | ..... | 17 | 173 | 78 | D | T |
| 36.. | 36 | 1587 | 1686 | 804 | 182.0 | 149.0 | 137.0 | 102.0 | 121 | 185 | 53 | 36 | 59 | ..... | ..... | 14 | 183 | 78 | D-M | T |
| 37.. | 30 | 1562 | 1656 | 778 | 186.5 | 149.0 | 137.0 | 101.0 | 125 | 181 | 51 | 34 | 55 | ..... | ..... | 19 | 182 | 78 | B1 | G |
| 38.. | 30 | ..... | ..... | 877 | 195.0 | 150.5 | 134.0 | 108.0 | 124 | 186 | 53 | 35 | 52 | ..... | ..... | 18 | 180 | 82 | D-M | G |
| 39.. | 30 | 1664 | 1760 | 858 | 190.0 | 149.5 | 143.0 | 104.0 | 117 | 178 | 50 | 35 | 61 | ..... | ..... | 16 | 182 | 82 | M-L | G |
| 40.. | 45 | 1589 | 1688 | ..... | 191.0 | 153.0 | 139.0 | 102.0 | 119 | 197 | 46 | 34 | 59 | ..... | ..... | 17 | 179 | 80 | M | G |
| AGED 60 YEARS AND OVER | | | | | | | | | | | | | | | | | | | | |
| 10.. | 60 | ..... | ..... | ..... | 193.0 | 154.5 | 148.5 | 109.0 | 109 | 170 | 48 | 47 | 65 | ..... | ..... | 13 | 180 | 82 | D | T |
| 11.. | 60 | ..... | ..... | 823 | 190.0 | 154.0 | 142.0 | 100.0 | 122 | 173 | 53 | 40 | 65 | 67 | 35 | 16 | 185 | 84 | D-M | G |
| 12.. | 60 | ..... | ..... | ..... | 188.0 | 151.0 | 139.5 | 100.0 | 116 | 168 | 51 | 40 | 62 | 71 | 33 | 19 | 183 | 80 | D-M | P |
| 18.. | 65 | 1500 | 1624 | 789 | 195.0 | 158.0 | 148.0 | 106.0 | 128 | 182 | 53 | 37 | 60 | ..... | ..... | 22 | 169 | 80 | D | P |
| 24.. | 65 | 1632 | 1745 | 822 | 194.0 | 154.5 | 150.5 | 110.0 | 119 | 169 | 51 | 40 | 66 | ..... | ..... | 25 | 181 | 79 | D-M | 3 |
| 30.. | 65 | 1545 | 1740 | 822 | 184.0 | 151.0 | 142.0 | 105.0 | 118 | 176 | 53 | 34 | 60 | ..... | ..... | 17 | 177 | 82 | D | 3 |
| 31.. | 65 | 1565 | 1669 | 795 | 190.0 | 152.0 | 135.5 | 101.0 | 118 | 174 | 52 | 37 | 58 | ..... | ..... | 22 | ..... | ..... | D-M | G |
| 32.. | 65 | 1654 | 1816 | 853 | 194.0 | 153.0 | 147.5 | 104.0 | 122 | 177 | 54 | 40 | 69 | ..... | ..... | 17 | 190 | 83 | D-M | G |
| 34.. | 70 | ..... | ..... | ..... | 188.5 | 152.5 | 140.0 | 106.0 | 116 | 173 | 53 | 40 | 64 | ..... | ..... | 18 | 184 | 84 | D | P |
| UNDER 20 YEARS | | | | | | | | | | | | | | | | | | | | |
| 14.. | 16 | 1521 | 1452 | 788 | 185.0 | 147.5 | 138.0 | 99.0 | 116 | 169 | 48 | 36 | 59 | 59 | 35 | 17 | 175 | 77 | B1 | |
| 15.. | 16 | 1529 | 1457 | 815 | 187.0 | 147.5 | 137.5 | 111.0 | 109 | 171 | 45 | 35 | 54 | 55 | 34 | 13 | 167 | 77 | D | |
| 19.. | 16 | 1529 | 1617 | 815 | 180.0 | 145.0 | 130.0 | 99.0 | 113 | 166 | 48 | 31 | 56 | ..... | ..... | 13 | 168 | 77 | D-M | |
| 20.. | 15 | 1632 | 1667 | 865 | 193.0 | 150.0 | 137.0 | 111.0 | 114 | 157 | 48 | 38 | 55 | ..... | ..... | 19 | 187 | 77 | D | |

¹ T = Immigrant from Trout lake.

P = Immigrant from Pipikwahoos.

G = Native to Gods lake or Hayes river.

² York factory. ³ Oxford House.

APPENDIX VI

Particulars of Island Lake Boys

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | Nose | | Mouth (length) | Ear | | Upper lip (length) | | Hand | |
|---------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|----------------|--------|-------|--------------------|-------|------|--|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-orinion | Height | Width | | Length | Width | Length | Width | | |
| AGED 10 TO 19 YEARS | | | | | | | | | | | | | | | | | | | |
| 3... | 19 | 1699 | 1729 | 917 | 187.5 | 157.0 | 142.5 | 107.0 | 120 | 177 | 53 | 38 | 55 | 61 | 40 | 19 | 183 | 82 | |
| 61... | 19 | 1676 | 1737 | 886 | 187.0 | 151.0 | 141.0 | 103.0 | 122 | 182 | 52 | 38 | 56 | 62 | 37 | 20 | 195 | 89 | |
| 102... | 19 | 1668 | 1770 | 888 | 194.0 | 160.5 | 144.5 | 106.0 | 118 | 192 | 48 | 38 | 61 | 63 | 35 | 14 | 182 | 77 | |
| 41... | 18 | 1696 | 1842 | 908 | 194.0 | 149.0 | 144.0 | 107.0 | 124 | 179 | 54 | 38 | 55 | 62 | 36 | 19 | 193 | 88 | |
| 72... | 18 | 1769 | 1877 | 915 | 197.0 | 151.5 | 146.0 | 108.0 | 123 | 183 | 54 | 38 | 64 | 63 | 36 | 21 | 202 | 88 | |
| 82... | 18 | 1622 | 1677 | 863 | 191.0 | 153.0 | 136.0 | 104.0 | 118 | 171 | ... | ... | ... | ... | ... | ... | 183 | 82 | |
| 101... | 18 | 1676 | 1805 | 875 | 202.0 | 154.0 | 140.0 | 108.0 | 129 | 189 | 55 | 38 | 60 | 60 | 35 | 20 | 194 | 86 | |
| 42... | 17 | 1759 | 1815 | 902 | 198.5 | 152.0 | 150.5 | 103.0 | 126 | 185 | 52 | 36 | 54 | 68 | 35 | 20 | 193 | 90 | |
| 54... | 17 | 1671 | 1783 | 897 | 189.0 | 148.0 | 145.0 | 106.0 | 134 | 187 | 54 | 36 | 56 | 68 | 34 | 15 | 191 | 83 | |
| 55... | 17 | 1759 | 1845 | 959 | 202.0 | 152.0 | 145.0 | 102.0 | 132 | 198 | 55 | 41 | 55 | 66 | 35 | 16 | 209 | 91 | |
| 79... | 17 | 1698 | 1778 | 882 | 187.0 | 152.5 | 142.5 | 102.0 | 122 | 187 | 51 | 37 | 56 | 56 | 33 | 17 | 197 | 88 | |
| 103... | 17 | 1613 | 1674 | 848 | 188.0 | 150.0 | 136.5 | 102.0 | 121 | 175 | 49 | 33 | 56 | 55 | 31 | 15 | 177 | 77 | |
| 27... | 16 | 1614 | 1727 | 838 | 191.5 | 150.0 | 138.0 | 104.0 | 116 | 181 | 50 | 38 | 51 | 66 | 39 | ... | 185 | 84 | |
| 28... | 16 | 1712 | 1742 | 961 | 188.0 | 144.0 | 137.0 | 102.0 | 117 | 177 | ... | ... | ... | ... | ... | ... | ... | ... | |
| 88... | 16 | 1438 | 1543 | 737 | 179.0 | 144.5 | 133.0 | 103.0 | 117 | 172 | 51 | 32 | 59 | 60 | 34 | 18 | 167 | 70 | |
| 3B. | 16 | 1616 | 1672 | 805 | 189.0 | 147.5 | 137.0 | 105.0 | 115 | 164 | 50 | 38 | 57 | 60 | 32 | ... | 182 | 80 | |
| 98... | 15 | 1582 | 1663 | 815 | 197.5 | 149.0 | 135.5 | 105.0 | 121 | 184 | 52 | 36 | 57 | 60 | 32 | 16 | 182 | 80 | |
| 6... | 14 | 1465 | 1526 | 751 | 187.0 | 150.0 | 130.0 | 105.0 | 107 | 167 | ... | ... | ... | ... | ... | ... | ... | ... | |
| 19... | 14 | 1542 | 1597 | 843 | 187.0 | 153.0 | 134.0 | 104.0 | 119 | 177 | ... | ... | ... | ... | ... | ... | ... | ... | |
| 22... | 14 | 1479 | 1567 | 768 | 182.0 | 146.0 | 132.0 | 102.0 | 110 | 163 | ... | ... | ... | ... | ... | ... | ... | ... | |
| 89... | 14 | 1399 | 1450 | 728 | 179.5 | 151.0 | 128.0 | 106.0 | 108 | 169 | 47 | 29 | 52 | 58 | 34 | 16 | 153 | 68 | |
| 12B. | 14 | 1469 | 1525 | 752 | 187.0 | 148.5 | 133.5 | 101.0 | 109 | 165 | ... | ... | ... | ... | ... | ... | ... | ... | |
| 13B. | 14 | 1600 | 1627 | 848 | 191.0 | 153.5 | 137.0 | 108.0 | 118 | 171 | 51 | 37 | 53 | 58 | 35 | 15 | 179 | 77 | |
| 44... | 13 | 1437 | 1487 | 775 | 190.5 | 155.0 | 135.0 | 102.0 | 112 | 172 | 47 | 30 | 47 | ... | ... | ... | ... | ... | |
| 58... | 13 | 1739 | 1832 | 903 | 181.0 | 148.5 | 135.0 | 102.0 | 122 | 180 | 52 | 37 | 53 | 61 | 36 | ... | 195 | 79 | |
| 100... | 13 | 1422 | 1534 | 754 | 175.5 | 143.0 | 130.5 | 100.0 | 109 | 168 | 49 | 34 | 55 | 56 | 34 | 15 | 165 | 71 | |
| 2B. | 13 | 1449 | 1518 | 755 | 186.0 | 148.0 | 130.0 | 100.0 | 108 | 156 | 46 | 30 | 51 | 56 | 34 | ... | 164 | 68 | |
| 6B. | 13 | 1414 | 1479 | 733 | 180.5 | 148.0 | 131.0 | 102.0 | 108 | 154 | 46 | 31 | 51 | 53 | 31 | 15 | 157 | 69 | |
| 9B. | 13 | 1462 | 1527 | 755 | 187.0 | 148.5 | 130.0 | 100.0 | 107 | 159 | 49 | 31 | 56 | 55 | 32 | 12 | 164 | 65 | |
| 10B. | 13 | 1391 | 1440 | 730 | 181.0 | 150.5 | 132.5 | 101.0 | 109 | 155 | 46 | 31 | 52 | 51 | 31 | 16 | 154 | 66 | |
| 11B. | 13 | 1393 | 1460 | 723 | 192.0 | 158.0 | 141.5 | 108.0 | 116 | 175 | 48 | 32 | 53 | 56 | 35 | 17 | 160 | 70 | |
| 7B. | 12 | 1392 | 1440 | 729 | 183.0 | 145.0 | 130.0 | 100.0 | 115 | 164 | 52 | 34 | 53 | 60 | 36 | 15 | 159 | 68 | |
| 8B. | 12 | 1371 | 1467 | 715 | 187.0 | 154.0 | 138.0 | 100.0 | 112 | 173 | 50 | 32 | 51 | 58 | 35 | 17 | 159 | 68 | |
| 11... | 11 | 1371 | 1420 | 724 | 172.0 | 142.0 | 124.0 | ... | 101 | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 12... | 11 | 1422 | 1470 | 754 | 186.0 | 145.5 | 127.0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 13... | 10 | 1368 | 1446 | 696 | 186.0 | 144.0 | 130.0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 14... | 10 | 1258 | 1295 | 678 | 184.0 | 143.0 | 124.0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 4B. | 10 | 1290 | 1371 | 700 | 186.0 | 147.0 | 130.0 | 99.0 | 106 | 164 | 46 | 31 | 50 | 58 | 32 | ... | 149 | 69 | |
| 5B. | 10 | 1277 | 1361 | 666 | 172.0 | 151.0 | 122.0 | 99.0 | 108 | 168 | 48 | 29 | 44 | 60 | 35 | ... | 147 | 60 | |

APPENDIX VII

Particulars of Oxford House Boys

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | Nose | | Mouth (length) | Ear | | Upper lip (length) | Hand | |
|---------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|----------------|--------|-------|--------------------|--------|-------|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crinion | Height | Width | | Length | Width | | Length | Width |
| | | | | | | | | | | | | | | | | | | |
| AGED 10 TO 19 YEARS | | | | | | | | | | | | | | | | | | |
| 4... | 19 | 1675 | 1810 | 912 | 187.0 | 149.0 | 137.0 | 95.0 | 117 | 176 | 49 | 34 | 56 | 60 | 32 | 16 | 183 | 87 |
| 51... | 19 | ..... | ..... | ..... | 199.0 | 147.0 | 140.5 | 108.0 | 127 | 190 | 51 | 39 | 58 | 70 | 38 | 22 | 195 | 90 |
| 58... | 19 | ..... | ..... | ..... | 199.0 | 141.5 | 139.0 | 107.0 | 123 | 179 | 49 | 34 | 54 | 64 | 34 | 17 | 206 | 87 |
| 3B. | 18 | 1629 | 1722 | 884 | 185.0 | 146.0 | 139.0 | 101.0 | 132 | 186 | 56 | 38 | 64 | 66 | 34 | 14 | 186 | 80 |
| 7... | 18 | 1615 | 1789 | 880 | 192.0 | 152.0 | 140.5 | 102.0 | 124 | 192 | 50 | 32 | 54 | 58 | 30 | 17 | 180 | 84 |
| 1B. | 17 | 1528 | 1691 | 825 | 184.0 | 146.0 | 135.0 | 100.0 | 131 | 184 | 59 | 33 | 57 | 59 | 36 | 12 | 186 | 80 |
| 13... | 17 | 1549 | 1680 | 849 | 186.5 | 147.0 | 135.5 | 103.0 | 111 | 176 | 50 | 34 | 56 | 62 | 32 | 14 | 189 | 87 |
| 16... | 17 | 1421 | 1608 | 754 | 174.0 | 132.5 | 129.5 | 93.0 | 107 | 169 | 48 | 34 | 50 | 63 | 32 | 14 | 173 | 80 |
| 46... | 16 | ..... | ..... | ..... | 181.0 | 155.0 | 141.5 | 101.0 | 118 | 174 | 52 | 38 | 56 | 62 | 36 | 18 | 190 | 85 |
| 6... | 15 | 1729 | 1888 | 952 | 198.0 | 154.0 | 141.5 | 107.0 | 129 | 192 | 56 | 36 | 55 | 70 | 34 | 18 | 198 | 94 |
| 9... | 15 | 1534 | 1647 | 827 | 190.0 | 144.0 | 135.5 | 103.0 | 117 | 179 | 50 | 33 | 54 | 62 | 29 | 17 | 179 | 81 |
| 5... | 14 | 1404 | 1570 | 768 | 182.0 | 140.5 | 130.0 | 101.0 | 116 | 166 | 48 | 29 | 50 | 62 | 33 | 20 | 167 | 79 |
| 8... | 14 | 1483 | 1669 | 809 | 182.0 | 145.0 | 132.0 | 99.0 | 116 | 177 | 49 | 33 | 55 | 64 | 34 | 17 | 175 | 78 |
| 12... | 14 | 1358 | 1423 | 750 | 181.5 | 151.0 | 121.0 | 100.0 | 108 | 162 | 42 | 34 | 46 | 60 | 31 | 18 | 152 | 65 |
| 14... | 13 | 1447 | 1577 | 757 | 190.0 | 150.0 | 137.0 | 103.0 | 112 | 165 | 47 | 33 | 51 | 65 | 33 | 16 | 157 | 77 |
| 15... | 13 | 1457 | 1610 | 768 | 188.0 | 150.0 | 131.5 | 103.0 | 113 | 174 | 43 | 32 | 56 | 62 | 38 | 17 | 177 | 76 |
| 2... | 12 | 1339 | 1519 | 743 | 181.0 | 146.5 | 135.5 | 106.0 | 109 | 160 | 47 | 31 | 57 | 61 | 33 | 18 | 167 | 71 |
| 10... | 11 | 1324 | 1426 | 714 | 175.0 | 143.0 | 125.0 | 97.0 | 102 | 162 | 44 | 34 | 53 | 72 | 36 | 15 | 146 | 64 |
| 11... | 10 | 1329 | 1500 | 716 | 186.0 | 146.0 | 128.0 | 101.0 | 102 | 163 | 46 | 31 | 48 | 59 | 36 | 13 | 157 | 66 |

APPENDIX VIII

Particulars of Island Lake Girls

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Mouth (length) | Ear | | Upper lip (length) | | Hand | |
|---------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|-----------------|--------|-------|--------|----------------|-------|--------------------|--------------------|-------|------|--|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-ocrinion | Height | Width | Length | | Width | Upper lip (length) | Length | Width | | |
| AGED 10 TO 19 YEARS | | | | | | | | | | | | | | | | | | | | |
| 11... | 19 | 1498 | 1582 | 800 | 188.0 | 153.0 | 138.0 | 107.0 | 114 | 178 | 47 | 33 | 57 | 60 | 32 | ... | 167 | 75 | | |
| 36... | 19 | 1592 | 1692 | ... | 181.0 | 148.0 | 134.0 | 101.0 | 107 | 157 | 47 | 36 | 53 | ... | ... | ... | 176 | 73 | | |
| 57... | 19 | 1498 | 1588 | ... | 170.0 | 150.0 | 141.5 | 99.0 | 113 | 177 | 47 | 40 | 56 | 59 | 34 | 17 | 173 | 77 | | |
| 60... | 19 | 1533 | 1700 | 796 | 180.0 | 148.0 | 142.0 | 111.0 | 111 | 171 | 46 | 36 | 50 | 58 | 37 | 15 | 187 | 80 | | |
| 62... | 19 | 1551 | 1727 | 821 | 189.0 | 148.0 | 135.5 | 101.0 | 131 | 186 | 51 | 35 | 55 | 62 | 35 | 18 | 184 | 75 | | |
| 66... | 19 | 1672 | 1810 | 865 | 187.0 | 150.5 | 142.0 | 111.0 | 124 | 199 | 54 | 34 | 55 | 52 | 34.5 | 12 | 197 | 78 | | |
| 90... | 19 | 1571 | 1660 | 854 | 190.0 | 148.0 | 141.0 | 104.0 | 112 | 169 | 48 | 36 | 59 | 52 | 33 | 20 | 178 | 77 | | |
| 107... | 19 | 1577 | 1662 | 804 | 170.0 | 137.5 | 127.0 | 90.0 | 106 | 158 | 51 | 33 | 46 | 54 | 32 | 17 | 178 | 72 | | |
| 1... | 18 | 1557 | ... | 814 | 194.5 | 150.0 | 130.0 | 100.0 | 122 | 182 | ... | ... | 60 | ... | ... | ... | ... | ... | | |
| 37... | 18 | 1521 | ... | ... | 180.0 | 151.0 | 132.5 | 101.0 | 117 | 177 | 49 | 33 | 55 | ... | ... | ... | ... | ... | | |
| 50... | 18 | 1577 | 1653 | ... | 188.5 | 145.0 | 140.0 | 103.0 | 121 | 180 | 50 | 36 | 58 | 62 | 32 | ... | 183 | 78 | | |
| 64... | 18 | 1507 | 1572 | 847 | 182.0 | 149.5 | 142.0 | 104.0 | 114 | 177 | 50 | 41 | 53 | 55 | 35 | 14 | 170 | 77 | | |
| 141... | 18 | 1540 | 1593 | 817 | 176.0 | 141.0 | 131.5 | 104.0 | 119 | 172 | 52 | 34 | 54 | 62 | 32 | 12 | 175 | 77 | | |
| 13... | 17 | 1607 | 1647 | 830 | 189.0 | 152.0 | 136.0 | 102.0 | 118 | 177 | 48 | 35 | 54 | ... | ... | ... | 179 | 77 | | |
| 45... | 17 | 1640 | 1765 | ... | 193.0 | 150.0 | 142.5 | 108.0 | 124 | 186 | 51 | 36 | 52 | 63 | 38 | ... | 188 | 77 | | |
| 113... | 17 | 1608 | 1672 | 856 | 187.0 | 145.0 | 138.0 | 101.0 | 113 | 168 | 52 | 34 | 55 | 51 | 35 | 18 | 175 | 77 | | |
| 123... | 17 | 1561 | 1637 | 827 | 181.0 | 141.0 | 136.0 | 99.0 | 119 | 162 | 45 | 37 | 51 | 52 | 31 | 14 | 179 | 74 | | |
| 136... | 17 | ... | ... | ... | 184.0 | 147.0 | 135.0 | 98.0 | 113 | 172 | 45 | 35 | 55 | 58 | 31 | 14 | 187 | 79 | | |
| 4... | 16 | 1650 | 1707 | 870 | 193.0 | 153.0 | 144.0 | 102.0 | 115 | 174 | ... | ... | ... | ... | ... | ... | ... | ... | | |
| 47... | 16 | 1545 | 1617 | ... | 185.0 | 151.0 | 135.0 | 102.0 | 108 | 163 | 44 | 33 | 52 | ... | ... | ... | 170 | 73 | | |
| 71... | 16 | 1647 | 1779 | 800 | 188.5 | 147.0 | 137.0 | 107.0 | 119 | 182 | 53 | 36 | 58 | 65 | 34 | 14 | 198 | 80 | | |
| 140... | 16 | 1556 | 1644 | 848 | 185.5 | 153.0 | 142.0 | 117.0 | 118 | 183 | 44 | 39 | 51 | 58 | 31 | 16 | 180 | 84 | | |
| 144... | 16 | 1501 | 1617 | 792 | 181.0 | 152.0 | 138.0 | 105.0 | 116 | 172 | 53 | 33 | 47 | 56 | 34 | 15 | 171 | 73 | | |
| 101... | 15 | 1508 | 1589 | 816 | 188.5 | 154.0 | 140.0 | 107.0 | 113 | 175 | 44 | 35 | 57 | 56 | 32 | 15 | 176 | 78 | | |
| 1G. | 15 | 1540 | 1626 | 795 | 184.0 | 146.0 | 137.0 | 101.0 | 111 | 167 | ... | ... | 51 | 59 | 32 | ... | 179 | 73 | | |
| 2G. | 15 | 1500 | 1558 | 763 | 190.0 | 147.0 | 140.0 | 104.0 | 107 | 161 | 45 | 35 | 52 | 55 | 33 | ... | 174 | 74 | | |
| 6G. | 15 | 1511 | 1766 | 819 | 183.0 | 155.0 | 145.5 | 108.0 | 112 | 183 | 47 | 32 | 52 | 57 | 31 | 16 | 188 | 83 | | |
| AGED 13 TO 14 YEARS | | | | | | | | | | | | | | | | | | | | |
| 25... | 14 | 1543 | 1647 | 814 | 182.0 | 144.0 | 133.0 | 105.0 | 111 | 162 | ... | ... | ... | ... | ... | ... | ... | ... | | |
| 4G. | 14 | 1407 | 1477 | 735 | 183.0 | 145.0 | 132.0 | 102.0 | 108 | 176 | 46 | 35 | 49 | 56 | 36 | ... | 156 | 72 | | |
| 5... | 13 | 1491 | 1521 | 788 | 183.0 | 144.0 | 130.0 | 100.0 | 108 | 168 | ... | ... | 52 | ... | ... | ... | ... | ... | | |
| 137... | 13 | 1366 | 1432 | 730 | 184.0 | 139.0 | 126.0 | 101.0 | 106 | 161 | 44 | 29 | 45 | 57 | 32 | 14 | 158 | 66 | | |
| 5G. | 13 | 1429 | 1494 | 729 | 178.5 | 142.0 | 129.0 | 94.0 | 100 | 149 | 41 | 33 | 47 | 54 | 33 | ... | 163 | 70 | | |
| 7G. | 13 | 1543 | 1617 | 803 | 188.0 | 145.5 | 137.5 | 105.0 | 114 | 164 | 47 | 34 | 55 | 57 | 30 | 14 | 184 | 75 | | |

APPENDIX IX

Particulars of Oxford House Girls

| Serial number | Age | Stature | Arm reach | Sitting height | Head | | | | | | | Nose | | Mouth (length) | Ear | | Upper lip (length) | Hand | |
|---------------------|-----|---------|-----------|----------------|---------------------|--------------------|---------------------|-----------------|---------------|----------------|--------|-------|--------|----------------|-------|--------|--------------------|-------|--|
| | | | | | Glabella ad maximum | Biparietal maximum | Bizygomatic maximum | Frontal minimum | Menton-nasion | Menton-crinion | Height | Width | Length | | Width | Length | | Width | |
| AGED 10 TO 19 YEARS | | | | | | | | | | | | | | | | | | | |
| 8... | 19 | 1595 | 1727 | 891 | 185.0 | 150.0 | 134.5 | 102.0 | 123 | 184 | 57 | 32 | 50 | .... | .... | 13 | 184 | 80 | |
| 13... | 19 | 1526 | 1718 | 825 | 184.5 | 139.5 | 127.0 | 100.0 | 107 | 162 | 43 | 35 | 55 | .... | .... | 15 | 184 | 76 | |
| 14... | 16 | 1403 | 1554 | 794 | 174.0 | 147.5 | 127.5 | 95.0 | 101 | 160 | 43 | 35 | 45 | .... | .... | 14 | 161 | 71 | |
| 1... | 15 | 1539 | 1698 | 810 | 182.0 | 148.0 | 133.0 | 100.0 | 109 | 162 | 51 | 34 | 51 | .... | .... | 14 | 180 | 76 | |
| 6... | 15 | 1543 | 1646 | 841 | 190.0 | 143.5 | 127.0 | 102.0 | 122 | 186 | 48 | 33 | 50 | .... | .... | 19 | 174 | 74 | |
| 7... | 15 | 1561 | 1657 | 839 | 182.0 | 151.5 | 133.5 | 102.0 | 119 | 176 | 46 | 30 | 49 | .... | .... | 17 | 171 | 76 | |
| 12... | 15 | 1543 | 1720 | 826 | 188.5 | 141.0 | 133.0 | 106.0 | 112 | 169 | 43 | 34 | 51 | .... | .... | 14 | 182 | 77 | |
| 5... | 14 | 1514 | 1691 | 828 | 185.0 | 152.0 | 138.0 | 107.0 | 121 | 187 | 51 | 32 | 49 | .... | .... | 12 | 177 | 78 | |
| 11... | 14 | 1472 | 1602 | 813 | 188.0 | 147.5 | 132.5 | 104.0 | 114 | 176 | 44 | 32 | 50 | .... | .... | 17 | 176 | 77 | |
| 9... | 14 | 1507 | 1688 | 805 | 185.5 | 147.5 | 131.0 | 101.0 | 119 | 184 | 52 | 33 | 52 | .... | .... | 11 | 183 | 75 | |
| 3... | 13 | 1436 | 1614 | 749 | 184.5 | 141.5 | 124.5 | 101.0 | 113 | 162 | 49 | 30 | 48 | .... | .... | 15 | 167 | 66 | |
| 4... | 13 | 1477 | 1626 | 813 | 192.0 | 146.0 | 132.0 | 102.0 | 108 | 166 | 41 | 32 | 52 | .... | .... | 18 | 180 | 74 | |
| 2... | 12 | 1439 | 1588 | 786 | 175.5 | 141.5 | 128.0 | 101.0 | 101 | 159 | 48 | 31 | 51 | .... | .... | 12 | 173 | 76 | |
| 15... | 11 | 1336 | 1416 | 735 | 176.5 | 140.0 | 122.5 | 96.0 | 109 | 162 | 48 | 30 | 52 | .... | .... | 13 | 157 | 65 | |
| 16... | 10 | 1300 | 1446 | 739 | 178.0 | 142.0 | 122.5 | 101.0 | 101 | 147 | 41 | 32 | 50 | .... | .... | 10 | 156 | 65 | |

APPENDIX X

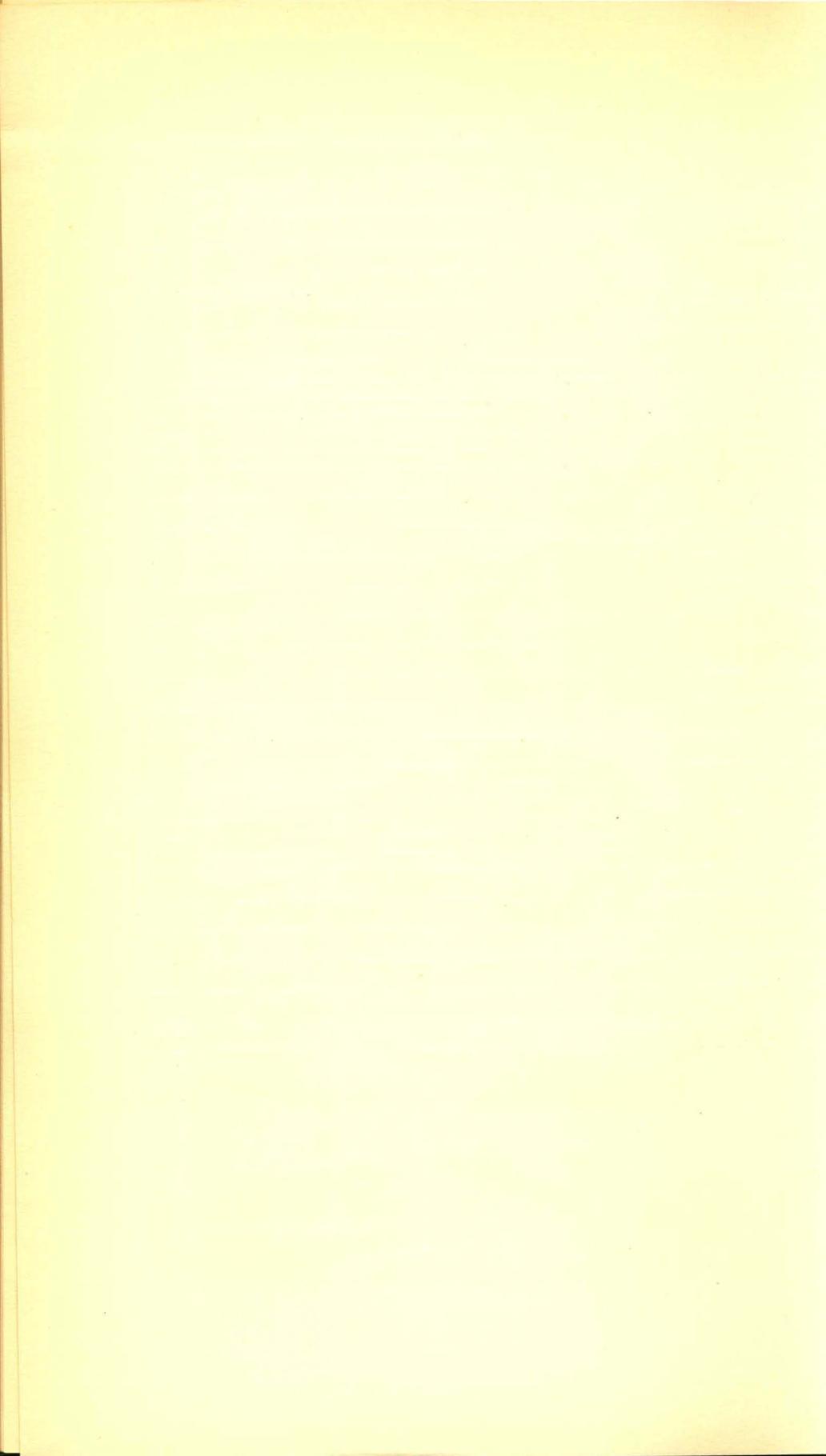
Distribution and Particulars of Carious Teeth

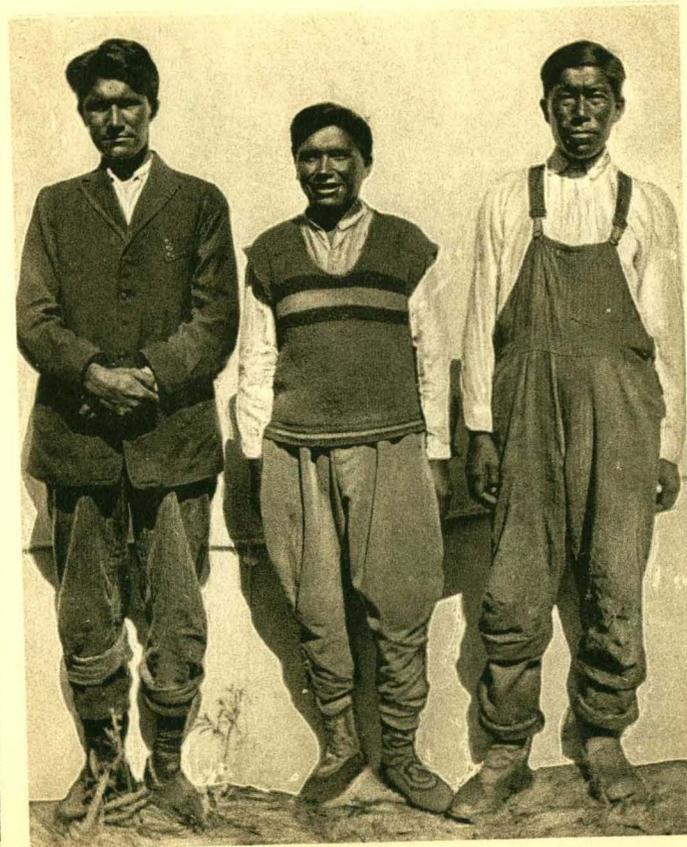
| | Serial number | UPPER TEETH | | | | | | | | | | | | | | | LOWER TEETH | | | | | | | | | | | | | | | Number decayed | | | |
|--------------------------|---------------|-------------|-----|-----|------|------|-----|-----|------|-----|---|------|------|-----|-----|-----|-------------|-----|-----|------|------|---|-----|------|-----|-----|---|------|------|-----|-----|----------------|-----|--|-----|
| | | Right | | | | | | | Left | | | | | | | | Right | | | | | | | Left | | | | | | | | | | | |
| | | M 3 | M 2 | M 1 | Pm 2 | Pm 1 | C 2 | I 1 | I 1 | I 2 | C | Pm 1 | Pm 2 | M 1 | M 2 | M 3 | M 3 | M 2 | M 1 | Pm 2 | Pm 1 | C | I 2 | I 1 | I 1 | I 2 | C | Pm 1 | Pm 2 | M 1 | M 2 | | M 3 | | |
| Island Lake men..... | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | } 1 |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 83 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Island Lake old men..... | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 86 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 77 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 46 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | ? | ? | ? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gods Lake men..... | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gods Lake old men..... | 5 | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

APPENDIX X (Continued)

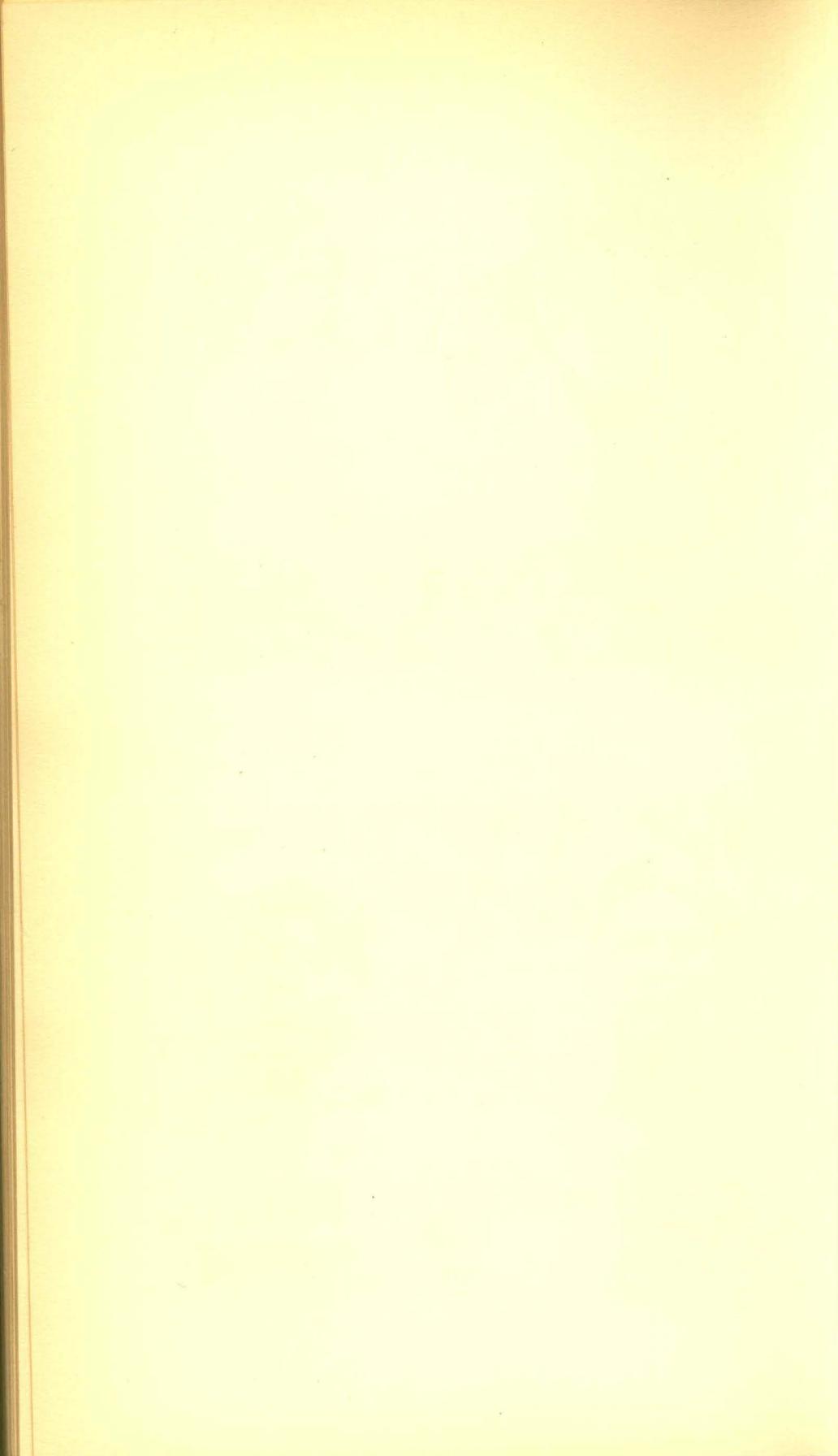
Distribution and Particulars of Carious Teeth (Continued)

| | Serial number | UPPER TEETH | | | | | | | | | | | | | | | LOWER TEETH | | | | | | | | | | | | | | | Number decayed |
|---------------------------|---------------|-------------|-----|-----|------|------|---|-----|------|-----|---|------|------|-----|-----|-----|-------------|-----|-----|------|------|---|-----|------|-----|---|------|------|-----|-----|-----|---|
| | | Right | | | | | | | Left | | | | | | | | Right | | | | | | | Left | | | | | | | | |
| | | M 3 | M 2 | M 1 | Pm 2 | Pm 1 | C | I 2 | I 1 | I 2 | C | Pm 1 | Pm 2 | M 1 | M 2 | M 3 | M 3 | M 2 | M 1 | Pm 2 | Pm 1 | C | I 2 | I 1 | I 2 | C | Pm 1 | Pm 2 | M 1 | M 2 | M 3 | |
| Oxford House men..... | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2 3 4 5 7 8 10 15 |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oxford House old men..... | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



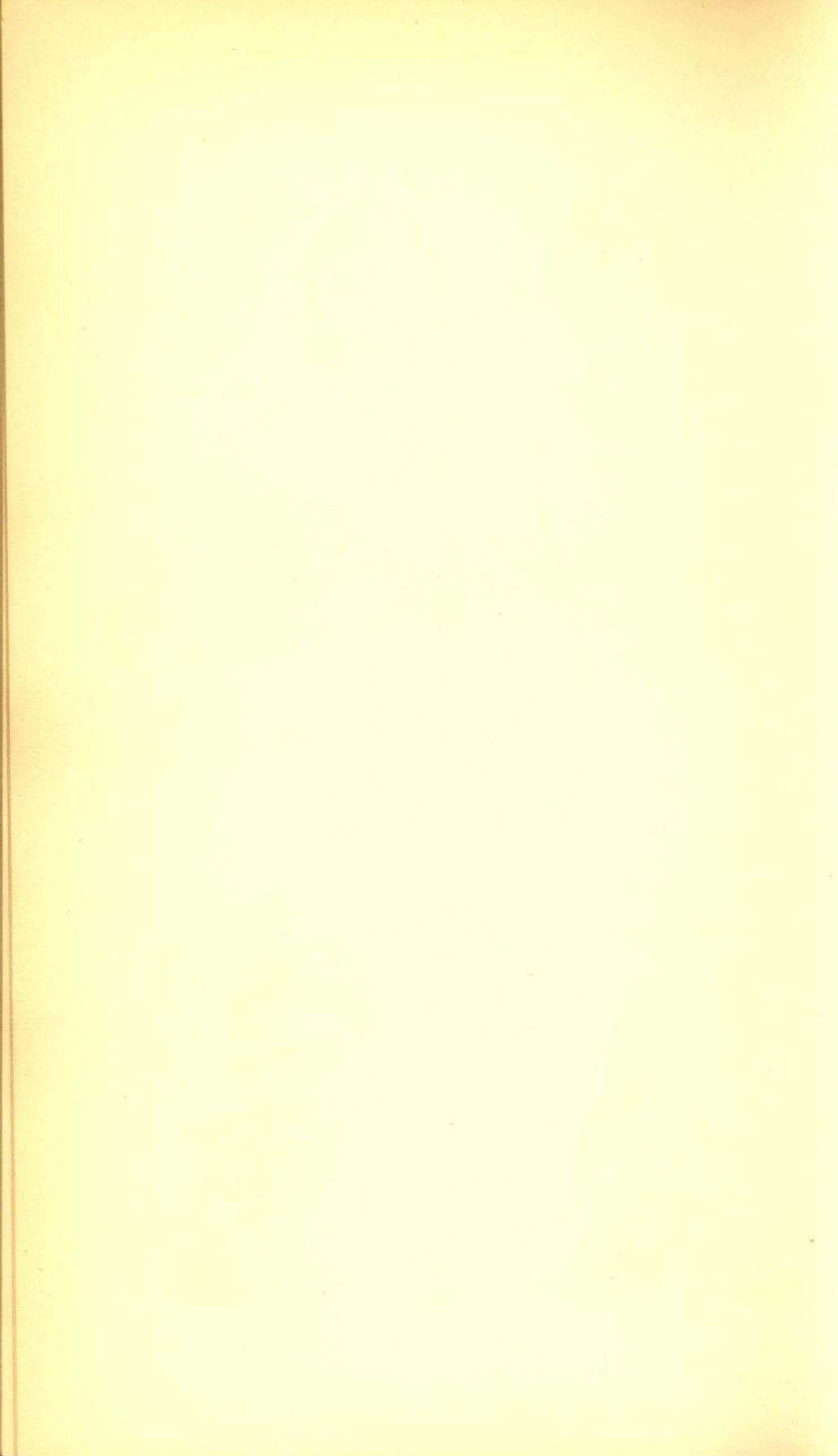


Island Lake Indians.



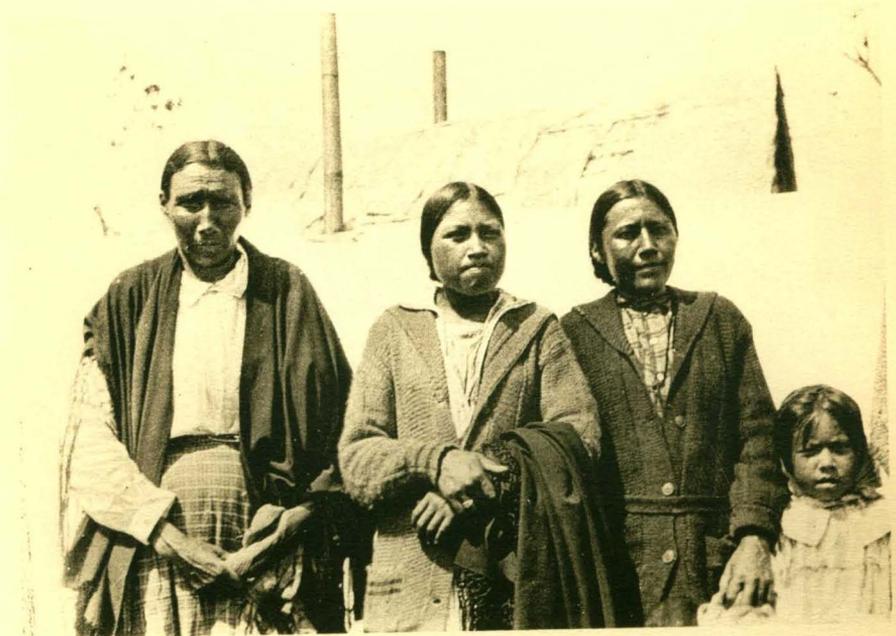
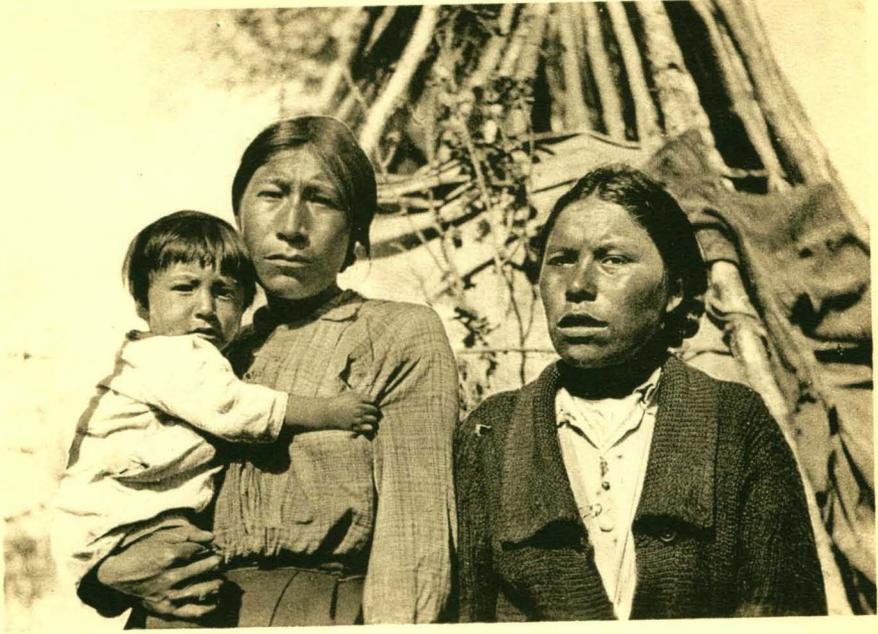


Island Lake Indians.

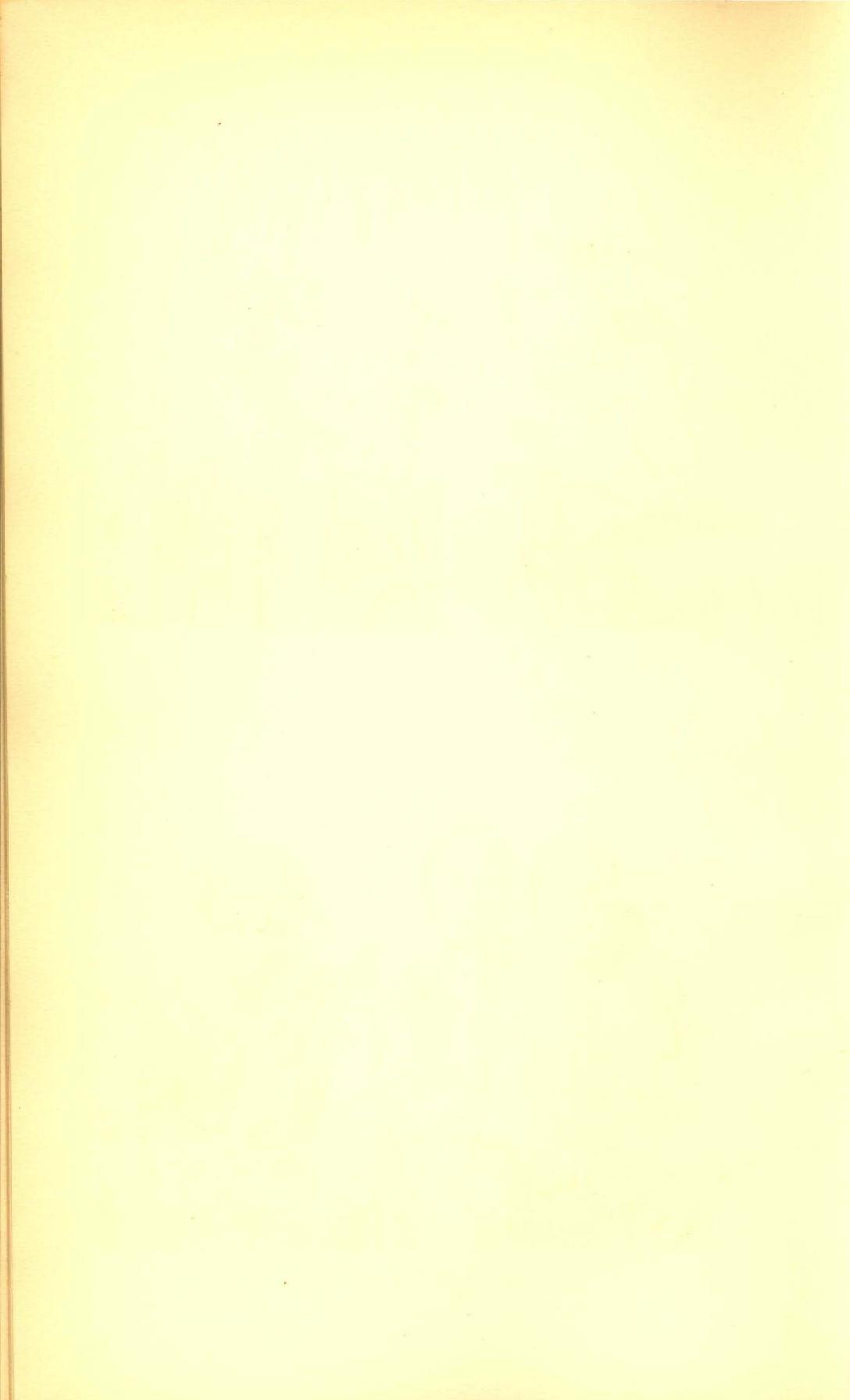




Island Lake Indians.



Island Lake Indians.





Island Lake Indians.

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