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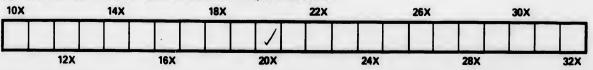
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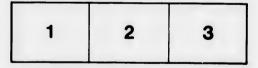
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British Association for the Advancement of Science

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BRISTOL MEETING, 1898

TWELFTH AND FINAL REPORT

ON THE

NORTH-WESTERN TRIBES OF CANADA

LONDON OFFICES OF THE ASSOCIATION BURLINGTON HOUSE, W.

Price 1s. 6d.



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The North-Western Tribes of Canada.—Twelfth and Final Report of the Committee, consisting of Professor E. B. TYLOR (Chairman), Sir CUTHBERT E. PEEK (Secretary), Dr. G. M. DAWSON, Mr. R. G. HALIBURTON, Mr. DAVID BOYLE, and Hon. G. W. Ross, appointed to investigate the Physical Characters, Languages, and Industrial and Social Conditions of the North-Western Tribes of the Dominion of Canada.

						T WO W
I.	Physical Characteristics of the Tribes of British	Columbia,	by	FRANZ	BOAS	3
	and LIVINGSTON FABRAND					. 1
	The Chilcotin, by LIVINGSTON FARRAND .		•			18
III.	The Social Organisation of the Haida, by FRANZ	BOAS				. 21
						27
v.	Summary of the Work of the Committee in British	Columbia,	by	FRANZ	BOAS	3 40
	APPENDIX Index to Reports IV XII		-			57

THE following Report contains the results of field-work undertaken under the auspices of the Committee during the summer of 1897. The work was carried out by Messrs. Franz Boas and Livingston Farrand. A brief summary of the results of the work of the Committee has been drawn up by Dr. Boas, and forms part of this Report.

While the work of the Committee has materially advanced our knowledge of the tribes of British Columbia, the field of investigation is by no means exhausted. The languages are known only in outline. More detailed information on the physical types may clear up several points that have remained obscure, and a more detailed knowledge of the ethnology of the northern tribes seems desirable. Ethnological evidence has been collected bearing upon the history of development of the culture-area under consideration; but no archaeological investigations have been carried on which would help materially in solving these problems.

For these reasons it is a matter of congratulation to know that the ethnological investigation in British Columbia will not cease with the operations inaugurated by the Committee. Ethnological and archaeological work in the Province, in the adjoining States and Territories of the United States, and on the coast of Siberia is being carried on by expeditions the expense of which is borne by Mr. Morris K. Jesup, President of the American Museum of Natural History. It is hoped that these investigations may carry the work initiated by this Committee a step farther.

I. Physical Characteristics of the Tribes of British Columbia. By FRANZ BOAS and LIVINGSTON FARRAND.

The anthropometric measurements made during the season of 1897 were arried out by both of us according to the system applied in the previous Reports of the Committee. Before entering into a discussion of the results 56

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it is necessary to show that the measurements of the two observers are comparable. We have carried out this comparison for the head measurements in which the personal equation is liable to attain considerable value. We give here the averages of the various measurements taken on I., StEmqö'. lequmq men; II., StEmqō'lequmq women; III., Chilcotin men. When we call A the averages and E the mean errors, we find :--

No. of Cases

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Stature of Men.

		Length	of Head	Breadth	of Head	Height	of Faco
-		Boas A. E.	Farrand A. E.	Boas A. E.	Farrand A. E.	Boas A. E.	Farrand A. E.
I. II.	•	$\frac{186.0 \pm 0.9}{179.6 \pm 1.4}$	187.1 ± 0.9 177.9 ± 1.4	158.5 ± 0.8 149.8 ± 0.9	157.9 ± 1.2 151.9 ± 1.1	119.9 ± 1.0 114.5 + 1.4	121.5 ± 1.5
111.	:	187 ⁽¹⁾ ±1 ⁽⁰⁾	186.1 ± 1.0	159.6 ± 1.2	157.9 ± 0.9		

		Breadth	of Face	Height	of Nose	Breadth	of Nose
-		Boas A. E.	Farrand A. E.	Boas A. E.	Farrand A. E.	Boas A. E.	Farrand A. E.
I. II. III.	•	$\begin{array}{c} 149.0 \pm 0.8 \\ 138.0 \pm 0.7 \\ 149.1 \pm 0.7 \end{array}$	$\begin{array}{c} 148.8 \pm 0.9 \\ 139.9 \pm 1.2 \\ 147.2 \pm 1.0 \end{array}$	$52.5 \pm 0.6 \\ 49.1 \pm 1.1 \\ 53.4 \pm 0.6$	$50.9 \pm 0.8 \\ 48.6 \pm 0.9 \\ 52.9 \pm 0.6$	$\begin{array}{c} 40.6 \pm 0.5 \\ 35.5 \pm 0.6 \\ 39.9 \pm 0.5 \end{array}$	$\begin{array}{c} {\bf 39} \cdot 4 \pm 0 \cdot 5 \\ {\bf 35} \cdot 2 \pm 0 \cdot 6 \\ {\bf 38} \cdot 7 \pm 0 \cdot 5 \end{array}$

The differences between these averages are throughout slight. In order to show the comparability of the measurements still more clearly we give here the values of the differences and their errors, and the average difference and its error for each measurement which have been obtained by weighting the individual differences.

Differences between Measurements taken by Boas and Farrand and their Errors.

-	Length of Head	Breadth of Head	Height of Face	Breadth of Face	Height of Nose	Breadth of Nose
I II III	$+1.1 \pm 1.3$ -1.7 ± 2.0 -0.9 ± 1.4	$- \frac{0.6 \pm 1.4}{+ 2.1 \pm 1.4}$ $- 1.7 \pm 1.5$	0.0 ± 2.0	$-0.2 \pm 1.1 \\ + 1.9 \pm 1.1 \\ - 1.9 \pm 1.2$	-0.5 ± 1.4	-0.3 ± 0.8
Average.	$+0.1\pm0.8$	-0.1 ± 0.8	$+0.6 \pm 1.1$	-0.3 ± 0.7	-0.8 ± 0.2	-0.9 ± 0.4

It appears from this table that the measurements are strictly comparable, and that the personal equation may be neglected.

The tribes which were principally studied are the Northern Shuswap, the Lillooet, the Chilcotin, and the northern tribes of the coast. The Shuswap are divided into divisions in a manner similar to the divisions of the Ntlakya'pamuq. We have collected measurements of the StlEmqö'lequmq, the division of the tribe living on Fraser River, north of the town of Lillooet, of the Sti'atEmq of North Thompson River, of the Shuswap'ö'e of Kamloops, and a few of the group inhabiting Buonaparte River. We have treated the Lillooet of Fraser River, who are mixed with Shuswap, and Ntlakya'pamuq separately from the purer groups of Seton and Anderson Lakes. Following are the tables of measurements :--

ON THE NORTH-WESTERN TRIBES OF CANADA.

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Breadth of Face of Men.

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Height of Face of Men.

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ON THE NORTH-WESTERN TRIBES OF CANADA.

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Adam

Canoe Creek

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¹ In the corresponding table of the Tenth Report of the Committee (p. 16) there is a misprint. 7-0, number of cases 17; for the Nthakyapannucióe 47:3 and 29.

Breadth of Nose of Men.

The average for the Uta'mk't must read

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REPORT-1898.

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Breadth of Nose of Men.

ON THE NORTH-WESTERN TRIBES OF CANADA.

Number of Cases Average 48 - | | 111111 11 1 47 1 1 1 1 11 46 1111 | ---1 -1 -1 45 1111 111 1111 44 11 -1 | | ~ – 43 1 42 4 41 40 04 - 1 10 4 0 0 0 0 0 0 0 39 - - -00 | 1- 10 - 10 10 1 38 0.000 0046340367 37 01-01 - 4--- | | 4 00 36 - + - m + | 0 35 - m + m - m | | | - | | -34 L 1 1 L 1 33 1 11 -• Lillooct (Anderson Lake). Lillooct (Fraser River) . Nass River Indians Kamloops . StlEmqo'lEqum? • Nkamtci'nEmuQ Aw1'ky'ēnôq Kwakiutl . Bilqula . Hē'iltsuk•. Tsimshian Chilcotin Haida ٠ Tribe: Mm.

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Breadth of Nose of Women.

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Adam

Canoe Creek

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В.

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REPORT-1898.

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Facial Index of Men.

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ON	THE	NORTH-WESTERN	TRIBES	OF	CANADA.	
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Women.
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Index
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Per cent.	Tribe:	Haida	Tsimshian .	Lillooet (Anderson I	Lillooet (Fraser R.)	Shuswap (StlEmqo'- lEqumq)	Chilcotin

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Canoe Creek

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mm. 1,640 1,333 735 1,696 807

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Men.	
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Per cent.	Prite: Lillooet (Anderson Lake) • Lillooet (Fraser River) • Shuawap (Stikmgölfaqumq) Chilootin • •
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Nasal Index of Women.

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Nasal Index of Men.

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REPORT-1898.

ON THE NORTH-WESTERN TRIBES OF CANADA.

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	Per cent.	Tribe: Lillooet (Anderson L.) Lillooet (Fraser R.) . Shuswap (StlEmqo'- lEqunq) .	Chilcoti	Per cent.	Trihe : Lillooet (Lillooet	Shuswap (StlEm- qo'lEqumQ)	

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Canoe Creek

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Index of Height sitting of Women.

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A short analysis of the material contained in the preceding tables and in previous Reports of the Committee allows us to distinguish with certainty three distinct types of man among the natives of British Columbia. These are the northern type, embracing the Haida, Nass River Indians, and Tsimshian ; the Kwakiuti type, embracing the Bilqula, Hē'iltsuk', Awī'ky'ēnôq, and the tribes of the Kwakiuti ; and the Thompson River type, embracing the Lillooet and Thompson River Indians. These types may be characterised by the following measurements :—

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Lilleoet (Anderson Lake) Lilleoet (Fraser River) . Shuswap(StlEmqé/lEqumq) Chilcotin

_		Northe	rn Type	wakit	atl Type		on River vpe
		Average	Mean Error	Average	Mean Error	Average	Mean Error
I. Men.							
Stature Length of Head Breadth of Head Breadth of Face Height of Face	•	mm. 1675 194.6 160.6 153.7 121.6	± 7.40 ± 0.80 ± 0.67 ± 0.85 ± 0.85	mm. 1645 188 7 159 0 151 4 128 0	$\pm 5.90 \\ \pm 1.19 \\ \pm 1.00 \\ \pm 0.54 \\ \pm 0.67$	mm. 1634 186 5 155•9 147•4 120•3	± 7.90 ± 0.55 ± 0.52 ± 0.41 ± 0.71
		I	I. Women	ı.			
Stature Length of Head Breadth of Head Breadth of Face Height of Face	• •	$153.2 \\ 143.9 \\ 114.2$	± 5.70 ± 0.88 ± 0.90 ± 0.80 ± 0.93	1£37 186·9 154·3 144·3 119·3	± 5.90 ± 1.64 ± 1.41 ± 0.64 ± 0.82	1540 179·5 150·0 138 8 112·5	± 5.00 ± 0.53 ± 0.41 ± 0.40 ± 0.54

There are good indications of the existence of other types, but they cannot be distinguished with absolute certainty from the types enumerated here. It seems very probable that an examination of the Lillooet of Pemberton Meadows will establish beyond a doubt the existence of the peculiar type which in the Seventh and Tenth Reports of the Committee was named the Harrison Lake type, which is characterised by a very broad and very short head, small stature, large nose, and small face. Our measurements of the Lillooet were undertaken with a view of determining the existence of this type, but they did not extend far enough south. The characteristics of the Coast Salish of Washington and Southern British Columbia are doubtful, because the prevalent practice of deforming the head does not vermit us to compare their head measurements with those of other tribes. Their faces show the same breadth as those of the other coast tribes, but their noses are much lower and flatter than those of the Kwakiutl. The Kamloops and other Shuswap tribes are closely allied to the Thompson River type, but it seems that the dimensions of their heads are a little larger, their statures a little higher. The Chilcotin resemble the Shuswap much, but their faces are flatter, their noses not so highly elevated over the face.

A study of the profiles of these types shows several important phenomena that are not elucidated in the tables of measurements. The northern type shows, on the whole, a rounded forehead; a nose which tends rather to be concave than convex, with the exception Doe

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mm. 1,640

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of a few individuals; short point of the nose, slight elevation of nose, long upper lip, and rather thick mouth. The Kwakiutl type shows a flat forehead, which is largely due to artificial deformation; a decidedly convex nose with short point, highly elevated over the face, and a less protruding mouth. It is very remarkable that the characteristic features of this type are so strongly marked in the female that the differences between the northern type and this type are more strongly noticed in women than in men. The Thompson River type has a very prominent, convex nose, with long point. The nose has a great elevation over the face.

IV. Half-blowl boys

III. Half-blood girls

September 1894 to June 1897. 11. Full-blood boys

Full-blood girls

We give the cross-sections of the face, laid through the tragus and lower rim of orbits for the various types. In order to make the differences clearer we have drawn a middle or composite outline for each type, which show clearly the considerable breadth of face prevailing on the coast and the flatness of the nose of the northern type.

Cross-sections of Face laid through the Tragus and the Lower Rim of the Orbit. —— Average cross-section of the Kwakiutl, Haida, and Tsimshian. ---- Average cross-section of the Ntlakyapamuq and Kamloops.

The following table contains a number of repeated measurements, the first measurement having been taken in September 18.4, the second in June 1897, the interval being two years and nine months. It will be seen that on the whole the measurements show a close agreement; but it appears that the error of observation for the measurements of the body, except for stature and finger-reach, is very considerable. The nasal index is also very unsatisfactory on account of the smallness of the measurements that are contained in it :-- vation of kiutl type mation; a face, and a racteristic e that the e strongly has a very e elevation

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ements, the second in It will be ent; but it the body, nasal index e measure-

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hoys	Alex Alex	13	1427 1126 1126 1127 1127 1128 1288 1428 1428 1428 1428 1428 1428	$\begin{array}{c c} + & + & + & + \\ + & + & + & + & + \\ + & + &$	42.4 + 2.4 + 2.3 - 55.1 - 1.9 - 1.9 - 1.9
Half-blood	Fallardeau Fallardeau	12	$\begin{array}{c} 1330\\ + 54\\ + 54\\ + 1105\\ + 1105\\ 590\\ - 590\\ - 590\\ - 1448\\ - 738\\ + 738\\ + 738\\ - 197\\ - 307\\ - 4\\ - 4\\ - 4\\ - 4\\ - 106$	+ + + + + + + + + + + + + + + + + + +	+ 4-1 + 4-1 - 0-1 - 0-1
IV. H	André Naurél	6	1218 +142 +142 +143 +163 +163 +117 1273 +143 + 33 + 33 + 33 + 33 + 33 + 33 + 33 +	$\begin{array}{c c} + & + & + & + \\ + & & & & \\ + & & & & \\ + & & & &$	+ 40-5 104-3 104-3 1- 3 5 5 5 6 5 5 6 5 5 6 6 7 6 7 6 7 6 7 6 7
girla	fitedexila	10	$\begin{array}{c} 1341 \\ +165 \\ +166 \\ +146 \\ +146 \\ +140 \\ +166 \\ +165 \\ +727 \\ +51 \\ +5$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c} 44.1 \\ + 1.9 \\ + 0.5 \\ - 0.8 \\ $
Half-blood	oomi A Ionna M	13	$\begin{array}{c} 1468 \\ + 54 \\ + 728 \\ + 728 \\ - 773 \\ + 156 \\ + 156 \\ + 156 \\ + 156 \\ + 156 \\ + 168 \\ + 108 \\ - 108 \\ + 108 \\ - 108 \\ + 108 \\ -$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	44.6 44.6 44.6 44.6 44.6 44.6 44.6 4.0 105.2 105.2 100.2 10000000000
111. H	Maggie Vallarden	8 or 9	$\begin{array}{c} 1213\\ + 115\\ + 115\\ - 252\\ + 522\\ + 49\\ - 252\\ + 49\\ - 252\\ + 12\\ - 252\\ + 12\\ - 252\\ $	$\begin{array}{c c} + & + & + \\ 134 \\ - & 104 \\$	43:1 43:1 101:9 54:9 54:9 54:9 54:9 54:9 54:9 54:9 54
boys	Toburax91A dol1	13	1350 1077 1077 1077 1077 1077 1077 1077 10	$\begin{array}{c} \begin{array}{c} + & + \\ 128 \\ + & 48 \\ + & 48 \\ + & 31 \\ + & 32 \\ + & $	+ 1:1 + 1:1 555 21:5 555 555 555 555 555 555 555 555 555
Full-blood	Harry neonuC	=	$\begin{array}{c} 1301\\ 1381\\ 14135\\ 14135\\ 14147\\ 11296\\ 12286\\ 1238$	$\begin{array}{c} + & + & + & + & + \\ + & + & 5 & + & 5 & + \\ - & 5 & 3 & 1 & 5 & + \\ - & 5 & 3 & 1 & 5 & + \\ - & 5 & 3 & 1 & 5 & + \\ - & 5 & 3 & 1 & 5 & + \\ - & 5 & 5 & 3 & 1 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & 5 & 5 & + \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 \\ - & 5 & 5 & 5 & 5 & 5 & 5 &$	$\begin{array}{c} + & +2\\ - & -252 \\ - & -257 \\ - & -25$
11. 1	George Alexis	10	$\begin{array}{c} \begin{array}{c} 1257\\ +108\\ +108\\ +97\\ 539\\ +38\\ +110\\ -284\\ +110\\ +12\\ +13\\ +13\\ +13\\ +13\\ +13\\ +13\\ +13\\ +13$	$\begin{array}{c c} + & + & + \\ + & & + & + \\ + & & & & \\ & & & &$	$+ \frac{42}{100}$
	9119si.I	16	$\begin{array}{c} 1449\\ 1449\\ 1174\\ 1174\\ 1174\\ 1174\\ 1174\\ 1174\\ 1174\\ 1174\\ 1174\\ 1174\\ 1298\\ 1298\\ 1298\\ 1298\\ 1298\\ 1298\\ 1298\\ 1284\\ 1384$	$\begin{array}{c} + & + & + & + \\ + & + & + & + & + \\ - & 8 & + & 3 \\ - & 2 & - & - & - \\ - & 2 &$	+ 1 + 4 + 1 + 4 55 0 0 - 2 - 5 - 2 5 - 2 -
	ollu L	13	$\begin{array}{c} 1437\\ +113\\ +113\\ +116\\ +186\\ +84\\ +166\\ +27\\ +276\\ +$	$\begin{array}{c} + & + \\ + & + & + \\ + & + & + \\ + & + &$	42:7 + 0:5 103:1 - 2:8 571 - 0:8
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girls	onitenzuA	12	$\begin{array}{c} 1340\\ +115\\ +116\\ +78\\ +78\\ +747\\ +133\\ +133\\ +133\\ +133\\ +2305\\ +305\\ +305\\ +142\\ +142\\ +142\\ +142\\ +142\\ +142\\ +142\\ +106\\ $	$\begin{array}{c c} & & & & & & \\ & & & & & & & \\ & & & & $	$\begin{array}{c} 45.7\\ 45.7\\ 105.1\\ +0.9\\ -55.7\\ -0.1\\ 22.8\\ 100\\ -1.0\\ \end{array}$
Full-blood g	ailut	10	$\begin{array}{c} 1308 \\ 1308 \\ + 185 \\ - 138 \\ -$	$\begin{array}{c} + & + & + \\ + & + & + & + \\ + & + & + &$	1040 + 1:9 - 1:7 - 22:7
I. Fu	oilssoff	11	1376 +1108 +1108 +1112 +1112 +1112 +1112 +1112 +1112 +1112 +1112 +112 +112 +1146 +1146 +1146 +1146 +1146 +1146 +1146 +1146 +1112 +112 +1	$\begin{array}{c c} + & - & + \\ + & - & + \\ & - & - & - \\ & - & - & - \\ & - & - &$	$\begin{array}{c} 45.5 \\ 45.5 \\ \mathbf{-1.11} \\ \mathbf{-1.11} \\ \mathbf{-1.11} \\ \mathbf{-2.26} \\ -2.2$
	Marlanue	6	$\begin{array}{c} 1172\\ +160\\ +160\\ +132\\ +132\\ 509\\ +166\\ +185\\ +185\\ +185\\ +185\\ +185\\ +235\\ +235\\ +235\\ +14\\ +14\\ +14\\ +14\\ +14\\ +14\\ +29\\ +29\\ +29\\ +29\\ +29\\ +29\\ +29\\ +29$	$\begin{array}{c c} & 120 \\ & 120$	43-5 99-7 1-7 55-6 55-6 218
	Names	Age 1894	Stature	Breadth of face	Index of length of arm Index of finger-reach Index of height sitting Index of width of shoulders !

ON THE NORTH-WESTERN TRIBES OF CANADA.

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Adam

Canoe Creek

B. 58 mm. 1,640 1,333 735 1,696 _807

II. The Chilcotin. By LIVINGSTON FARRAND.

The Chilcotin tribe occupies a territory lying chiefly in the valley of the Chilcotin River. They are somewhat isolated in situation, though on the east they are only separated from the Shuswap by the Fraser River. Between these two tribes, however, there is little intercourse. Toward the north their nearest neighbours are the related Tinneh tribe of Carriers or Porteurs; and while distance prevents frequent communication, they regard each other as more or less akin, and the relations are cordial On the west a pass leads over the coast range to Bella Coola; and, as many Chilcotin make annual expeditions to the coast, they are fairly familiar with the people of that region. Toward the south the only tribe at present with whom they come in contact is the Lillooet, and with them but seldom.

Intercourse with the coast Indians, and particularly with the Bella Coola, was formerly much more frequent than now, for the reason that the early seat of the Chilcotin was considerably farther west than at present, while the Bella Coola extended higher up the river of that name into the interior. The results of this early intercourse is seen very clearly in certain of their customs, and particularly in details of their traditions. In former times and down to within about thirty years the centre of territory and population of the Chilcotin was Anahem Lake, and from here they covered a considerable extent of country, the principal points of gathering beside the one mentioned being Tatlah, Puntze, and Chizaikut Lakes. They extended as far south as Chilco Lake, and at the time of the salmon fishing were accustomed to move in large numbers down to the Chilcotin River to a point near the present Anahem Reservation, always returning to their homes as soon as the fishing was over. More recently they have been brought to the eastward, and to day the chief centres of the tribe are four reservations-Anahem, Stone, Risky Creek, and Alexandriathe first three in the valley of the Chilcotin, and the last named, consisting of but a few families, somewhat removed from the others, on the Fraser. Besides these there are a considerable number of families leading a seminomadic life on the old tribal territory in the woods and mountains to the westward. These latter, considerably less influenced by civilisation than their reservation relatives, are known by the whites as Stone Chilcotin or Stonies.

Although subjected to more or less intimate intercourse with the whites for a comparatively short period, the Chilcotin have assimilated the customs and ideas of their civilised neighbours so completely that their own have largely disappeared except possibly among the families still living in the mountains, whom it was not practicable to reach.

The following notes were obtained with considerable difficulty, but the information was for the most part confirmed by the independent testimony of different individuals.

As regards the social organisation, persistent inquiry failed to disclose any traces of a clan system. The family unit was the family in the contracted sense, viz., the parents and unmarried children. Marriage was ordinarily monogamous, but many men had two wives. Recognised blood relationship was and is always an absolute bar to marriage, and at present this recognition seems to extend no further than first cousins. There seem to have been no local preferences in contracting marriages. Marriage with an individual of the same village was not regarded as more desirable than one with a person from another locality, nor vice vered.

Of laws of inheritance information is rather doubtful. It was stated that in former times upon the death of a man the widow received nothing. while his relatives as far as cousins divided the estate equally. It did not descend to the children alone. To-day if a man dies the widow inherits all, apparently in trust for the children, the sons, if there be such, managing the property. No information was obtained as to the procedure in case the widow remarries. The above change of custom, if true, strongly suggests missionary influence. If an unmarried man dies leaving property it is said that his relatives as far as cousins divide the estate. A man never married his brother's widow—she was still regarded as his own sister

Social ranks are not apparent at present, but there were formerly nobility, common people, and slaves, corresponding to a great extent to the system of the coast tribes. Wealth and the giving of feasts were the means of obtaining higher rank, and this seems to have been open to the lower class provided they had the means. Slaves were captives. From time immemorial, before the splitting up and settling upon the reservations, there seems to have been a head chief known as A'nahem, whose seat was at Anahem Lake, and whose influence extended over the whole tribe. The last great chief of that name died a few years ago, and his son is now the so-called chief of the Anahem Reservation.

Shamans, or medicine-men, are known by the term 'di'yi'n,' which denotes any person of extraordinary powers who is supposed to have extrahuman aid, and he becomes such by reason of some remarkable dream or experience. The deliberate candidate for such honours was accustomed to go away alone to the top of some mountain or other desolate place and there fast for several days, during which time the favourable dream might or might not come to him. The favourable dream was usually a vivid one of some animal or bird, and this became his protector and helper ever afterward. The divi'n would then always wear some distinctive mark of his protector, such as teeth, claws, wings, feathers, &c. Aside from success in hunting and war, special powers were obtained in the cure of disease. The method of treatment was first the singing of the particular song of the di'yi'n, which was his own property and used by no one else. The song was usually accompanied by dancing, but not always. Then followed the application of the hands to the body of the patient, and usually sucking through the hands placed over the diseased spot, thus drawing out the The hands were then held up in front of and above the face, sickness. and, being suddenly opened, the sickness would be sharply blown out into the air, and so expelled. Occasionally, after sucking the di'yi'n would open his hands and show a grasshopper or other object, which he exhibited as the cause of the illness, and which had been thus removed. During such treatment the di'yi'n usually carried a pouch containing certain charms, and, while wearing certain insignia as above stated, he did not dress in any particular robe as far as could be learned. Anyone might become dī'yĭ'n, even young boys and girls.

In former times the winter houses of the Chilcotin were the ordinary circular subterranean lodges, the excavation being about the rection depth. There are none of these in existence to-day. The summer lodges were rectangular in shape, made of bark stretched over poles, and with only the roof and back covered, the front and two sides being thus left open. They

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were ordinarily built in pairs facing each other and with a common fire between. At the present time the winter houses are of logs, often very well built and in summer tents are used, canvas for the purpose being obtained from the whites.

It was said that formerly the canoes of this tribe were made of bark stretched over wooden ribs. Both bow and stern were sharp, and were not raised above the level of the rest of the canoe. The largest of these canoes would carry about ten men. Later and at the present time the canoes are dug-outs from single logs.

Cooking was done by roasting or boiling, the latter by means of hot stones in water tight baskets of bark or woven fibre. The hot stones were manipulated by tongs of wood.

The weapons used in war were bows and arrows and war clubs, the latter made of a stout stick about the length of the arm with a stone head fastened by leather thongs. None of these weapons are now in existence apparently. Spears with points made of the horn of the mountain sheep were used in hunting, but not in war. The arrow points were of stone. Fishing spears with detachable heads of bone were formerly very common, but are now rarely seen, and a large bone hook fastened to a rod like a gaff was also sometimes used.

In war a sort of wooden armour was worn over the chest and back as far down as the waist. This protection, in shape like a sleeveless shirt, was made of tough sticks about an inch in diameter, fastened together with leather thongs, and was sufficient to turn arrows. The head was also protected by a thick leather cap covering the entire head except the face. According to the only obtainable account of war decorations, the upper part of the face was painted black and the lower part red. Besides the leather helmet, war head-dresses were worn of the skins of birds and of the heads of animals, so arranged that the beak or mouth came forward over the forehead. The most popular skin for such head-dresses was said to have been that of the raven. Any man who was a di'yi'n would wear the skin of his own protecting bird or animal.

Ear ornaments were formerly quite universally worn by both sexes, and usually in the form of small buttons of various materials attached to short strings and suspended from the lobes of the cars, which were pierced for the purpose. Older people are still found with pierced ears, but the pendants are seldom seen. Rings were also worn in the ears, but the Chilcotin say that this was a coast custom which they adopted, and was not so common as the other.

Nose ornaments of rings and straight bars inserted through the septum were also worn. One old man further described a lip ornament as a small straight ba piercing the upper lip, but this was not confirmed, and no description of labrets was obtained.

Tattoo g appears to have been pretty universal, the face, chest, arms, and legs b ig the parts most favoured. Little information as to designs could be obtained, but it was asserted that there was no difference in the designs use by the two sexes. This is of course doubtful. The materials used in the tattooing process were bone needles and charcoal.

In general the decorative art of the Chilcotin was very slightly developed. They did not carve their weapons or utensils, and the basketry designs were and are of the simplest character.

It was said that in the old days cremation was used in the disposal of the dead, the ashes being afterwards buried. Since the arrival of the mmon fire often very pose being

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missionaries ordinary burial has been practised, the graves being protected by a low fence of logs.

The traditions of the Chilcotin are particularly interesting as showing the influence of their coast and inland neighbours, details of foreign origin being clearly traceable. Their chief tradition is of Lendix teux, a being half man and half dog, who came to the Chilcotin country from the north-west, and is their culture-hero. The story recites the adventures of Lendix teux and his three sons on their journey through the land. These adventures are chiefly with animals who before that time had been dangerous to man, but who were now overcome and made harmless. Methods of hunting and various arts were then taught to the people who previously had been wretched and ignorant. The widespread conception of the culture-hero as a trickster is especially well exemplified in this tale.

In the other traditions obtained, none of which are as full nor as important as the Lendîx teux myth, but which cover a wide range of subjects, the raven is possibly the chief character, some of the stories in which he figures being identical with the raven tales of the coast, while others are apparently independent in origin. Few myths regarding natural phenomena were heard, and those which were told are of doubtful origin. The general impression was made of a not very rich independent mythology, but of surprising receptivity to foreign influences.

III. The Social Organisation of the Haida. By FRANZ BOAS.

In the Fifth Report of the Committee I briefly described the social organisation of the Haida according to information obtained from a few Indians from Skidegate. I pointed out (p. 27) that the tribe is divided into two phratries, each of which consists of a number of clans the members of which are connected by ties of consanguinity, not by an imaginary relationship through the totem. I also pointed out that the clans sometimes bear the names of the places at which their houses stand. Since this statement was made I have had opportunity to investigate the social organisation of the Tsimshian and of the Kwakiutl in greater detail. The result of these inquiries on the Tsimshians was published in the Tenth Report of the Committee, and of those on the Kwakiutl in the Report of the United States National Museum for 1895 (pp. 311-738). These investigations proved that among the southern tribes of the Pacific coast the village community was the primitive unit, and that clans originated through the coalition of village communities.

During the past summer I had an opportunity of investigating the social organisation of the Haida in somewhat greater detail, although not as thoroughly as might be desired. The information thus obtained corroborates the views expressed in the Fifth Report of the Committee, and emphasises the fact that the village community is the constituent element of the phratry.

In order to make this clear I will first of all give a list of the Haida families. 'The two Haida phratries are called Gyit'ina' and K 'oā la, and every family belongs either to the one or to the other group. Each family has a number of emblems which are commemorative of certain events in the earliest history of the family. The name of the chief of each family is hereditary. For purposes of comparison I give the list of villages recorded by Dr. G. M. Dawson in his Report on Queen Charlotte Islands (Report of Progress, Geological Survey of Canada, 1878-79, Montreal, 1880). 56

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Как-он (Dawson, *l.c.*, р. 162 В).

Not in my list ; perhaps identical with Iā'k'ō ? (see below).

Ky'iū'st'A (Dawson : Kioo-sta, p. 162 B).

- Gyit'ina': Sta'stas or Sañgatl lā'nas. Chief: Ē'dEnsâ (=glacier). Crests: Frog, beaver, raven, eagle. Chief's grave: Frog. An ancestor of the Sta'stas family met a giant frog in Tsiqoa'gEts. Girls when reaching maturity wear a hat that is painted green (tlt'E'ndadjang), the paint being obtained in the river NaēdE'n. Houses: 1, K'ēgEngg nas. 2, K'oē'kyitsgyit. 3, Kun nas. 4, Nakhodā'das.' 5, Skyil nās. Skyil is the mistress of copper who endows with wealth those who meet her. 6, Sk'ōlhahā'yut. 7, Naxa'was.
 - K'ā'was. Chief: Ētltenē'. Crests: Beaves sg'a'ngö, eagle. The sg'a'ngö is a man who was transformed into a monster because he was living on raw fish and birds. He lives in a cave. He has long ears and wears a high hat. He carves birds as though they were large game and carries the parts home separately. When he throws them down it gives a loud noise. House: G'ötnās.
 - K'a'nguatl lā'nai. Chief : Tāgyia'. Crests : Frog, eagle, beaver.

Togyit'inai'. Chief: Kuns. Crest: Eagle.

K'oā'la: Tostlengilnagai'. Chief: Gwaisganengk'aiwa's. Crests: Ts'iliā'las (killer whale with raven wings), killer whale, bear, thunder bird.

(The two last named belong to the village Too of Dawson, p. 170 B.)

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- K'oā'la: Yak' lā'nas. Chief: GEsawa'k. Crests: Bear, moon, dogfish, killer whale, wolf, devilfish.
 - Kaok ē'owai. Chief: Gatsō'En. Crests: Killer whale, owl, bear, woodpecker.

K'oē'tas. Chief: HōtsElE'ng. Crests: Bear, killer whale, moon.

Gyit'ina': Ts'ātl lā'nas. Chief: Gyit'îng oda' and Kunkoya'n. Crests: Halibut, eagle, beaver, land otter (the last said to have been adopted recently).

> S'ale'ndas. Chief: Îldzaunak a'tlē. Crests: Frog, beaver, starfish, evening sky.

NEAR DA'DENS.

K.'oā'la: Tās lā'nas. Chief: Sk'anā'l. Crests: Land otter, killer whale, woodpecker, cirrus.

K'ANG (Dawson: Kung, p. 163 B).

Gyit'ina': Sak'lā'nas. Chief: Gula'c. Crests: Eagle, sculpin, beaver. K'oā'la: Kyā'nusla. Chief: Hā'nsgyinai. Crest: Killer whale.

Wī'ts'a.

Gyit'ina': Wī'ts'a gyit'inai'. Chief: Ētlgyiga. Tōtlgya gyit'inai'. Chief: Stētlta. Tsēts gyit'inai'. Chief: Nasgä'tl. Dzōs hāedrai'. Chief: Gûnia'. Crests: Eagle, humming-bird, beaver, sculpin, skate (ts'ētg'a).

These families have the same crests. They live short distances apart.

IA'AN (near Wi'ts'a. Dawson: Yān, p. 163 B).

- K'oā'la: Stl'Enge lā'nas. Chief: NEnā'k''enas. Crests: Killer whale, hawk, bear.
- Gyit'ina': (Tsēts gyit'inai', moved to Ia'an from Wī'ts'a a few years ago).

G'AT'AIWA'S (Dawson: Ut-te-was, p. 163 B).

- K'oā'la: Skyit'au'k ō. Chief: Cīgai'. Crests: Killer whale, grizzly bear, black bear.
- Gyit'ina': Gyit'i'ns. Chief: Sk a-ina'. Crests: Eagle, beaver, sculpin.

Sg'adzē'guatl lā'nas. Chief : Skyîltk'atsō. Crests : Eagle, beaver, scul_Fin.

K'oā'la: Sg'āga'ngsilai. Crests: Killer whale, bear.

HAI'TS'AU.

K·'oā'la : G·anyakoîlnagai. Chief : Kyîlstlak·. Crests : Killer vhale, bear.

K'ĀYA'NG (Dawson : Kā-yung, p. 163 B).

- K·'oā'la: Yāgun kunîlnagai'. Chief: Skyîlk·iê's. Crests: Bear, ts'em'â's, killer whale.
- Gyit'ina': Saqguī' gyit'inai'. Chief: Naok adzō't. Crests : Eagle, Ky'iā ltkoangas. Chief: K'odai'. beaver, sculpin.

These two groups are considered branches of one family.

K'oā'la: T'ēs kunîlnagai'. Chief: Yätl'înk'. Dl'iā'len kunîlnagai'. Chief: Sēna't. Crests: Bear, ts'em'â's, killer whale.

The three groups Kunîlnagai' in K'aya'ng are branches of one family.

IA'GEN (about three miles north-east of Masset).

- Gyit'ina': Dl'iā'len k'ēowai'. Chief: Hā'yas. Crests: Eagle, raven, sculpin, frog. Said to be related to the Sta'stas.
- K·'oā'la : Kun lā'nas. Chief : K·ogī's. Crests : Bear, ts'Em'â's, killer whale.

NAEKU'N (Dawson : Nai-koon, p. 165 B).

- Gyit'ina': Naēku'n stastaai'. Chief: Ts'ön. Crests the same as those of the Sta'stas, of whom they are the branch from Naēku'n.
 - Tsiquā'gis stastaai'. Chief: Skyilā'ō. Crests the same as those of the Sta'stas, of whom they are the branch from the river Tsiquā'gis.

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K'oā'la: Qua'dōs. Chief: tl'eā'ls. Crests: Bear, killer whale, hawk, rainbow, stratus. The Stl'EngE lā'nas are considered a branch of the Qua'dōs, who are at present in Asegoa'n, Alaska. It is said that the Qua'dōs were in the habit of catching eagles in snares. One day a man caught a hawk in his snare. Another one stole it, leaving, however, one of the hawk's talons. This led to a quarrel, and a fight ensued, during which the family divided. Those who emigrated became the Stl'EngE lā'nas. For this reason both use the hawk and also the same personal names.

(Dawson : A-se-guang, p. 165 B.)

K'oā'la: I was told that there was a branch of the Qua'dos at the place who moved to Skidegate.

TLK'AGÎLT (Skidegate).

Gyit'ina' : Gyit'î'ns. Na yū'ans qā'edra ; Na s'ā'gas qā'edra. Chief : Sg'ēdegî'ts. Crests : Raven, wasq, dogfish, eagle, sculpin. Gyit'îngyits'ats. Chief : Sg'ā'nigyik ē'do. Crests : Sculpin,

eagle, wā'ts'at (a fabulous personage.)

Tsāagwī' gyit'inai'. Chief : Winā'ts. Crests : Sculpin, eagle.

K'oā'la : Tsāagwīsguatl'adegai'. Chief : Log'ō't. Crests : Killer whale, gyitg'a'lya (a fabulous being), ts'Em'â's.

Tlg aio la nas. Chief : Dō'anä'. Crests the same as the preceding family.

Tai'otl lā nas. Chief : K aäga'o. Crests : Black bear, killer whale.

Koğ a'ngas. Chief: Koē'sgutneng'e'ndāls. Crests: Killer whale, ts'em'â's.

TLG'A'IT (Gold Harbor ; Dawson : Skai-to, p. 168 B).

K'oā'la : Tlg'ā'itgu lā'nas. Chief : NEnkyîlstla's. Crests : Moon, killer whale.

Gyīt'ina': Tlg'ā'it gyit'inai'. Chief: Ganā'i. Crests: Raven, eagle, sculpin.

K'oā'la : Stasausk'ē'owai : Chief : Sg'anayū'en. Crest : Ts'iliā'las (killer whale with raven wings).

> Skoa'tl'adas. Chief: G olentkyîngā'ns. Crests: Sea-lion, killer whale, ts'EM'â's, thunder.

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K'AI's'un (Dawson : Kai-shun, p. 168 B).

Gyit'ina' : K'ai'atl lā'nas. Chief : Nanā'rîskyîlqō'es. Crests : Beaver, frog, eagle.

(Dawson: Cha-atl, p. 168 B.)

K.'oā'la : tlg ā'itgu lā'nas. (Same as above, under Tlg ā'it.)

K.'u'NA (Skidans, Dawson : Koona, p. 169 B).

K'oā'la : Tlk'înōtl lā'nas or K agyalsk ē'owai. Chief : Gudēk a îngā'o. Crests : Bear, moon, mountain goat, killer whale, storm

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Sea-lion,

s : Beaver,

ra îngă'o. .le, storm cloud, cirrus, rock slide. Part of this family is called Kyîls qā'edrai. (Dawson : Tlkinool, p. 168 B.)

Gyit'ina': K-'unak-ë'owai. Chief: Gyitk'ö'n. Crests: Dogfish, eagle, frog, monster frog, beaver.

T'ANO' (Tlō, Dawson : Tanoo, p. 169 B).

Gyit'ina' : K''unak'ē'owai (same as in K''u'na). Tsēgoatl lā'nas or Laqskī'yek.

K·'oā'la : K·'adas k·ē'owai. Chief : Gyaqkutsā'n. Crests : Killer whale, wolf, ts'Em'â's.

Sg'a'nguai (NEnstī'ns, Dawson : Ninstance, p. 169 B).

Gyit'ina' : Gyit'î'ns. Chief : NEnstī'ns. Crests : Beaver, eagle. K-'oā'la. Qaldā'ngasal. Chief : Ts'îµi'. Crests : Bear, killer whale, ts'Em'â's.

The villages on Hippah Island are not contained in my list. A comparison of the list of families given here with that of the Skidegate families published in the Fifth Report of the Committee, p. 26, shows that the lists are fairly reliable. I give here both lists for purposes of comparison :--

Skidegate.

	(Fifth Report. Informant Johnny Swan)	Informant: E'densâ of Masset
Gyit'ina :	Nayū'ans qā'etqa. Na'sā'yas qā'etqa.	Gyit'î'ns { Na yū'ans qā'edra Na s'ā'gas qā'edra.
	Djāaquigi't'enai'.	Tsāagwī' gyit'inai'.
	Gyitingits'ats.	Gyit'ingyits'ats.
K·'o'āla :	Naēkun k erauā'i.	-
	Djāaqui'sk uatl'adagā'i.	Tsāagwīsguatl'adegai'.
	Tlgaiu lā'nas.	Tlg aio la nas.
	K·āstak·ērauā'i.	
		Taiötl lā'nas.

K'og'ā'ngas.

It will be noticed that the Gyit'ina' families agree in both lists, while the K·'oā'la show certain discrepancies. It may be that the Naēkunk·erauai' are the family from Asegua'n referred to above as removed to Skidegate.

It will be noticed that a great many family names are town names. Such names are Sangatl lā'nas, K'a'nguatl lā'nas, Yak' lā'nas, Tlg'aiō là'nas, &c. Others signify 'the gyit'inai' of a certain place'; for instance : Tō gyit'inai', Wīts'a gyit'inai', Tsāagwī gyit'inai'. Still others seem to signify 'the k''oā'la of a certain place,' for instance : Tō stlEngilnagai', Ya'gun kunilnagai, Dl'iā'len kunilnagai. Another series of names signify 'the people of a certain place,' or 'those born at a certain place,' such as Dl'iā'len k'ēowai', K''una k'eowai', and Dzōs hāedrai'.

These facts indicate that each family formed originally a local unit, so that each village would seem to have been inhabited by one family only. The present more complex village communities originated through the 56

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It is clear, therefore, that the present arrangement of families is the result of a long historical development, and that in the orginal organisation of the tribe the village community was a much more important element than it is at present.

It is also instructive to investigate the distribution of totems among these families.

I. Gyit'ina' (18 distinct families).

Eagle .	•	. 17 families	Starfish		1 family
Beaver .	•	. 13 "	Humming-bird		1 "
Sculpin .	•	. 9 "	Skate (?).		1 "
Frog .		. 5 "	Monster-frog .	•	1 ,,
Raven .	•	. 3 "	Wā'ts'at	•	1 "
Dogfish .	•	. 2 "	Wasq	•	1 "
Halibut .	•	. 1 family	Sg ^{·a'n} go . Evening sky .	•	1 "
Land-otter	•	. 1 "	Evening sky .	•	1 "

II. K'oā'la (22 distinct families).

Killer whale		. 21	families	Devilfish	•		1 far	nily
Black bear	•	. 14		Owl .	•	•	1	,,
Ts'em'â's .		. 7	33	Land-otter	•	•	1	,,
Moon .	•	. 4	"	Grizzly bear	•	•	1	,,
Woodpecker		. 2	**	Sea-lion .			1	,,
Tsiliā'las		. 2	33	Mountain-goat	t	•	1	,,
Thunder-bird		. 2	,,	Gyitg a'lya		•	1	"
Hawk .		. 2	,,	Rainbow.			1	,,
Wolf .	•	. 2		Stratus cloud			1	,,
Cirrus cloud		. 2		Storm cloud			1	,,
Dogfish .	•	. 1	family	Rock slide		•	1	,,

This table shows a strong prevalence of two crests in each group: eagle and beaver among the Gyit'ina', killer whale and black bear among the J_{x} 'oa'la. The sculpin and ts'Em'A's, which are next in importance, are not found among the tribes of the extreme north-western part of the islands. All the others occur only once or twice among the different families, and for this reason resemble in character the totems of the s own name are for this the Sta'stas, kun stastaai' Yak' lā'nas (Klinquan, G'augyā'n fted to the among the aā'ri family otte Islands .ccording to 1730). The 'ale'ndas to ok'ē'owai to 0

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Kwakiutl. Since the characteristic features of the traditions explaining the acquisition of these crests are also the same among the Tlingit, Haida, Tsimshian, and Kwakiutl, it is likely that they may have had the same origin. I have tried to show at another place ('Report United States National Museum for 1895,' p. 336) that among the Kwakiutl the crest is the hereditary manitou, and I am inclined to consider the isolated totems of the Haida and of the other northern tribes of similar origin. It is very doubtful if this theory holds good for the more frequent totems which evidently form the bond between the members of each group. It seems more likely that they represent the oldest totemic organisation of the tribe which may have antedated their settlement in their present locations. It is, however, worth remarking that one of the totems of secondary frequency, the ts'em'a's, is evidently of Tsimshian origin. The name is clearly a corrupted form of ts'em'a'ks=in the water, a fabulous monster, probably the personified snag. The four primary totems, eagle and beaver, and killer whale and bear, certainly represent the two oldest divisions of the tribe which split up in village communities that later on combined again in more complex groups.

IV. Linguistics. By FRANZ BOAS.

The Ntlakya'pamuq.

The material for the following sketch was obtained in part directly from Mr. James Teit, in part from Indians whose statements were interpreted by Mr. Teit. The writer is, however, alone responsible for the systematic presentation of the material.

GRAMMATICAL NOTES.

THE ARTICLE.

The Ntlakya'pamuq has an article which is similar in character to the one found in the dialects of the Coast Salish. In the Sixth Report of the Committee I briefly described the use of this article in the Bella Coola (p. 128). Its forms in other coast dialects are given in the following list:

Bilqula.	Masculin	e, ti	Feminin	e, tsi
Çatlo'ltq.	,,	ta	,,	tla
Pentlate.	,,	ti		tla
Nanaimo.	**	ti	33	80
Sk qo'mic.	,,	te	,,	the
Lku'ngEn.	,,	ti	**	si
Tillamook.	13	ta	**	tla

The Calispelm has the article *tlu*, which is used in the same manner. It is described by Mengarini in his 'Grammatica Linguæ Selicw,' 1861, p. 80.

The Ntlakya' pamuq has a number of articles.

ta is used for connecting adjectives and nouns :

stE'ptEp (1) ta (2) spEzu'zo (3), a (2) black (1) bird (3).

aqa (1) kEs (2) ta (3) tlosk a'yuq (4) kaq (5) pui'stemos (6), [it is] that (1) bad (2) Indian (4) who (5) killed him (6).

ha and a seem to precede nonns that are not accompanied by attributes:

ha (1) chai'tkEnEmuq (2) kau(3) tla'k atEm (4), the (1) Indians (2) who (3) have killed them (4).

ha (1) Nkamtel'nEmuq (2) ta chai'tkEnEmuq (3) kaq (4) tla'k at Em (5), the (1) Nkamtel'nEmuq (2) Indians (3) [who (4)] killed them (5). Janoe Creek

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REPORT-1898.

atla'kos (1) ha (2) ko'kpi (3) akswa'watcip (4), when (1) the (2) chief (3) comes (1), call me (4).

a (1) sk'à'un (2) ph'ists (3) ha (4) ntltcask'a'qa (5), the (1) wolf (2) killed (3) the (4) horse (5).

ha (1) ntitcask a'qa (2) pū'ists (3) a (4) sk a'um (5), the (1) hurse (2) hilled (3) the (4) wolf (5).

a John pu'ists a Sam, John struck Sam.

tik seems to be more definite than ha, but the distinction between the two forms is by no means quite clear:

pui'zEna (1) ha (2) kô'kpi (3), I killed (1) the (2) chief (3).
pui'zEna (1) aqa'tik (2) kô'kpi (3), I killed (1) this (2) chief (3).
wa'zgEna (1) tik (2) stsuk: (3), I shored him (1) the (2) picture (3).
na'qEna (1) tik (2) stsuk: (3), I gave him (1) the (2) letter (3).
tā'we (1) aqa'tik (2) kô'kpi (3) tik (4) tlô'sk:a'yuq (5) l what a (1, 2) chief (3).
this (4) man (5) [is]

THE DISTRIBUTIVE.

The distributive form of the noun is formed by amplification of the stem, most frequently by reduplication. Irregular distributives of nouns are rare. Plurals of verbs are formed in the same way, but the verbal plural is frequently derived from a separate stem. The verbal plural seems to have had a distributive meaning originally, but in the intransitive verb particularly the distinction between distributive and plural is easily lost.

1. Distributives and verbal plurals formed by reduplication:

house, tcitq	distributive.	teitei'to.
tree, cirā'p	27	cipcirā'p.
pieture, stsuk.	,,	stsutsu'k.
stone, cä'EnQ	,,	cEncä'EnQ.
mountain, skoum	,,	sk·umk·u'm.
ground, temû'q	,,	tEmtEmû'Q.
dog, sk'ā'k'qa	,,	sk'ak'â'k'qa.
cattle, stEmâ'lt	,,	stEmtEmâ'lt.
<i>calf</i> , stEmâltitēit	,,	stEmtEmâlti'tēit.
camp fire, spam	**	spEmpa'm.
coyote, snikia'p	,	sniknikia'p.
animal, spEzo'	,,	spezpezo'.
bird, spezu'zð	,,	spEpEzu'zō.
friend, snu'ko a	"	snukEnu'koa.
musk-rat, skikela'qoa	,,	skikikEla'qoa.
man, skai'yuq	,,	sk ai'k euq.
male of animal, ska'k ayuq	,,	skaka'kayuq.
sick, kEnu'Q	plural	kEnkEnu'Q.
crumpled, skö'um	,,	skõumkõ'um.
to walk, squasi't	,,	squsquasi't.

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These examples show that the laws which reduplication follows are very irregular. On the whole we may say that the prefixed s which is found in a very large number of Salish words is not affected by reduplication. Very often the first syllable, including the first consonant following the first vowel, is repeated with shortened vowel. But there are many exceptions to this rule. Reduplicated words may be reduplicated a second time (see musk-rat, male of an animal, in the preceding list).

2. Many nouns have the same form for the absolute and the distributive. It seems that many names of animals belong to this class:

beaver, tlk'o'pa (Uta'mk't dialect).

braver, snū'ya (Nkai	ntci'nem	uq dialect).
wolf, sk 'a'ðm	**	"
fax, Ecqua'yuq	,,	,,
black bear, spêô'tc	**	"

ON THE NORTH-WESTERN TRIBES OF CANADA.

deer, cmē'its (Nkamtei'nemuq dialect).

all stants		ununu
elk, stqats	17	**
earibou, slEquä'qan	,,	**
grizzly bear, eugeu'g	,.	,,
panther, smö'a	,,	,,
buffalo, kô sp	17	,,
antelope, stataā'luk	,,	,,
porcupine, cutl'a	,,	,,
porcupine, skwi	**	,,
rabhit, sk ok ii'ts	,,	,,
river, kowē'	**	,,
fire, tukti'k.	,,	,,
<i>water</i> , kõu	,,	,,
<i>star</i> , nkoku'cEn	,,	

ief (3) comes (1), olf (2) killed (3) se (2) killed (3)

he two forms is

3).

(1, 2) chief (3)

the stem, most are, Plurals of by derived from utive meaning tween distribu-

it.

very irregular. large number first syllable, with shortened words may be eceding list). stributive. It 3. Different stems are used for forming distributive, viz. plural and absolute forms :

horse, ntlteaska'qa Indian, tlöskai'yuq

to weep, wawi'iQ to staud, stē'dliQ to die, zôk· to kill, pui'stEm to lie down, pū'it Distributive sk·aqk·a'qa. s'ai'ıkênEanuq.

Plural k·oê'k t. tsē'ìQ. Qô'it. tlE'k'EtEm. nmê'QîQ.

DIMINUTIVES.

Diminutives are also formed by means of reduplication. It seems that the prevailing form of reduplication consists in a repetition of the first syllable as far as the first vowel, with a tendency of throwing back the accent of the word to the reduplicated syllable.

deer, cmē'its black bear, spôô'te friend, snu'koa bad, kEs large, qzu'm bird, spEzu'zu Diminutive cmE'mēits. spā'paats. nu'nkoa. kEkEEst. qEzu'zum. spEyu'zu.

NUMERALS.

There are three sets of numerals: simple cardinals used for counting inanimate objects; and two reduplicated series, one used for counting animals, the other for counting human beings.

	Inanimate	Animate	Personal
	pai'a, pé'ia	piä'a	pa'pea.
-2,	sê'ia	sê'sia	sisai'a.
3,	k aatlā's, k êak tlā's	{ k êak tlā's { k ·êk ·aak tlā's	} k'ak'aak'tlâ's.
4,	mûs	mō'ms	mū'smust.
5,	teī'ikst	teï'teiEkst	tci'tciEkst.
6,	tlā'k amakst	{ tlā'k amakst tlatlā'k amakst	} tlatlā'k amakst.
7,	teū' ľ k'a	{ tcū'tcłk•a { tcutcū'łk•a	} teū'teułk·a.
	piō'ps(t)	{ piō'ps(t) } pipiō'ps(t)	} pipiō'ps(t).
9,	tE'mEl pai'a	t E'mEl piä'a	tE'mEl pa'pea.
10,	ō'pEnakst	{ ō'pEnakst } op'ō'pEnakst	} õp'õ'pEnakst.
11,	ō'pEnakst El pê'ia	o'pEnakst El piä'a	op'o'penakst el pa'pea.

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REPORT-1898.

Same as inanimate.

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- 30, k al o'pEnakst
- 40, mūt o'pEnakst
- 50, tel'êks ö'pEnakst 60, tlâ'k umakst ö'pEnakst
- 70, teu'ik at o'pEnakst
- 80, piopsi o'penakst
- 90, temel pero'punakst
- tEmet pi ö'pEnakst
- 100, qatst pê'k Enakst qatst pê'k Enakst

200, sä'as qatst pê'k Enakst

300, k'ä'ak'la's qatst pê'k Enakst

400, mūs gatst pê'k Enakst

The numerals five, six, ten, one hundred, are clearly compounds of -akst, hand. I presume five is a compound of the stem tea, which is found in the numeral one in Sicial netetä'le, Snanaimuq $n\epsilon' ts'a$, Sk'qö'mic $nte' \bar{v}' i$, Lku'ñgEn $n\epsilon' ts a$; so that $te\bar{i}'i'sst$ would mean one hand. Nine may be translated literally 'less one.'

The same classification that is used in the cardinal numbers is used in indefinite numerals; for instance-

	Inanimate	Animate	Personal
few	kwē'ni Q	kwi'kwinEQ	kwē'nkwing.

DISTRIBUTIVE NUMERALS.

Distributive numerals are formed from the cardinals by means of reduplication, They have the same three classes that were found in the cardinal series.

		nanimate	Animate	Personal
1 t	o each	paapai'a	pēapai'a	papä'pia.
2	,,	sēasai'a	asiasê'sea	siasai'a.
3	,,	k·aak·aatlā's k·aatlā's	k aak aatlā's	k aak aatlā's.
4	,,	musEmn's	moamo'ms	musmū'smust.
5	,,	tciatel'Ekst	1	
5 6	,,	tlaatlä'k amakst		
7	,,	tcūatcū't'k:a	Same as inanimate.	
8	**	pepiō'pst	foame as manmate.	
9	,,	tE'mEl pēapai'a		
10	,,	opeo'penakst	,	

THE PRONOUN.

PERSONAL PRONOUN.

I	Independent ntcā'wa	Dependent (k)Eu.
thou	awē'	(k) ^u , Q.
he	tcinī'tl	
we	EnEmē'mutl	kt.
ye	pia'pst	-p or -mp.
they	tcînku'st	-

POSSESSIVE PRONOUN.

The possessive pronoun has a number of forms analogous to those of the Shuswap. Their use has not become clear to me. I give here the various forms and a few examples of their use.

my	n	tlEn-	lEn-	QEn —
thy	a-	tla-	la-	Qa —
his	S			Q-s
our	-kt,-ut			
your	- p, - mp			
their	- eqs			

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ON THE NORTH-WESTERN TRIBES OF CANADA.

Examples : ncu'tEm, my object.

nsk l'Qaza, my mother. ntcltQ, my house. aqa'a tla kamu't, this is thy hat. to'a la kamu't, that is thy hat. kunu'Q tlian ska'qa, my horse is sich. kunu'Q nska'qa, my horse is sich.

The two plural forms in -kt and in -ut are not exclusive and inclusive.

ska'tsont, *vur father*. ska'tsäkt, *our father*. tci'tQut aqa', *that is our house*.

I am inclined to consider the prefixes tl, l-, and q- which appear combined with the possessive pronoun as verbal particles. The close relation between possessive pronoun and intransitive verb becomes clear in the imperfect sense, in which the object possessed is incorporated between the verb and the pronominal suffix:

	kEnuQska'qakEn, my horse was sick = sick horse 1.
but	kenu'q tlen ska'qa, my horse is sick.
	kEnugska'gak", thy horse mas sick = sick horse thou.
but	kEnu'o tla ska'ga.
	kEnu'Q a ska'qa, thy horse is sick.
or	KENU Q a Ska ya, ing norse is sick.

These constructions may be compared with the inflexion of the adverb that accompanies the verb (see below).

The prefix Q- seems to indicate the relation to the indirect object of the sentence :

pipili'tsen Qa kamu't, I lost it for thee thy hat. pipsta'na nkamu't, I lost my hat.

But I found also:

tla ska'qa pü'istqicems tlen katsk, thy hurse killed for me my clder brother.

INTRANSITIVE VERB.

The intransitive verb may be inflected by means of suffixes or by means of auxiliary verbs, which latter form various tenses.

Aorist kEnu'QkEn, I am sick. kEnu'Qk^u, thou art sick. kEnu'Q, he is sick. kEnu'kt kEnkEnu'Qkt } we are sick. kEnkEnu'Q, ye are sick. kEnkEnu'Q (teinku'st) kEnv Q teinku'st } they are sick.

(0)aqkt (kEn)kEnu'q, *re are sick.* (0)aqp (kEn)kEnu'q, *ye are sick.* (0)ax kEnkEnu'q, *they are sick.*

(0) aq kEnu'q, he is sick.

Present

(o)aqkEn kEnu'Q, I am sick.

(o)aqk" kEnu'Q, thou art sick.

Future I. hwi'kEn(tca)râ'it, I shall sleep. hwiku(tca)râ'it, thou wilt sleep. &c. Future II. râ'itkEn hwī, *I shall sleep* râitk^u hwī, *thou milt sleep*. &c.

Imperfect

oa'qkEn tlEm tlaha'ns, I was eating. &c.

When the intransitive verb is accompanied by an adverb the latter takes the pronominal ending, being treated like an auxiliary verb.

tlakamë'Q(k)En skEnu'Q, I am always sick. tlakamë'Q(k)a skEnu'Q, thou art always sick. tlakamë'Q(k) skEnu'Q, thou art always sick. tlakamë'Q(k) skEnu'Q, we are always sick. tlakamë'Q(k)ap skEnu'Q, ye are always sick. tlakamë'Q(k) skEnkEnu'Qs, they are always sick.

f -akst, hand. imeral one in 'tsa; so that one.' in indefinite

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The verb with negative is treated in the same manner :

tatā'ken skenu'o, I am not sick. &c.

The conditional mode is characterised by the prefix a- and the suffix -u.

tcu'ktcon, to finish cating (= to finish with month).

atcu'ktcEnuEn, if I finish cating. atcu'ktcEnuQ, if thou finishest cating. atcu'ktcEnus, if he finishes rating. atcu'ktcEnut, if no finish cating. atcu'ktcEnup, if ye finish cating. atcutktcu'ktcEnus, if they finish cating.

The negative conditional present is formed in the following way :

ate'mos(ta)ken skenu'Q, if I am not siek. ate'mos(ta)ka skenu'Q, if thou art not siek. ate'mos(ta)k skenu'Q, if he is not siek. ate'moskakt skenu'Q, if we are not siek. ate'moskap skenu'Q, if ye are not siek. ate'mos(tä)ks kenkenu'Q, if they are not siek.

The negative conditional past :

tasketa'ken skenu'q, if I had not been sick.

The interrogative is formed by the suffix -En :

kEnu'QKENEN, am I sick? kEnu'Qkoan, art thou sick? kEnu'QEn, is he sick? kEnu'QktEn, are we sick? kEnu'Qp'En, are ye sick? kEnkEnu'QEn, are they sick?

A periphrastic interrogative is formed by the dubitative particle ska :

skaka skEnu'Q, perhaps thou art sick. skaak skEnu'Qs, perhaps he is sick. skagap skEnu'Q, perhaps ye are sick.

It will be noticed that wherever the verb appears with an adverb or a particle it has the prefix s-, which makes verbal nouns, and that the third person has the suffix -s, which corresponds to the possessive pronoun. These forms are therefore identical with possessive nominal forms.

TRANSITIVE VERB.

The transitive verb incorporates the pronominal object as follows :

	to	see.
--	----	------

Object			Subje	et		
Object	I	thou	he	we	ye	they
me thee him us ye them	wī'ktern wī'ktene wī'ktimen wīktē'Qsene	wī/ktckmuQ wīktQ ? wīktē/QsEmuQ	wl'kteEms wiktst wikts wi'ktis wi'ktimEs {wikts {wikts {wikts}} }	wīktst wi'ktem wī'ktimet witē'Qsetem	wī/kteEp wīktp wl/ktip (?) wIktp	wiktē'QsFtcina wiktē'QsEtst wiktē'QsEtEm wiktē'QsEtEm wiktē'QsEtEm wiktē'QsEtEm

ON THE NORTH-WESTERN TRIBES OF CANADA,

Verbs which have the accent on the last syllable form the following series :

k ôiEntou't, to talk to someone.

Object			Subject		
Object	I	theu	he	we	ye
me theo him us ye them	k'ôigntel'n k'ôignta'na k'ôigntô'imgn k'ôigntô'imgn	k ôiEnter/muQ k ôiEnta/uQ k ôiEnteë'ip k ôiEnteëyeEmuQ	kůlenteľms kůlenteľs kůlenteľs (kůlentěľs kůlentěľt kůlentůľmas kůlesteľs	k-ôlentei t k-ôlente'm 	k-ôlEnteëi'p k-ôlEnta'p k-ôlEntê'ip k-ôlEnta'p

An analysis of these forms shows that most of them originate by composition, the pronominal object following the verb, the pronominal subject following the pronominal object. The pronominal object suffixes seem to have the following forms:

me, - teem	<i>us</i> , — ti
thee, te	ye, -tim (for -tip)
him	them, teqs

The pronominal subject suffixes have the following forms:

<i>I</i> , —En	nc, -t
thou, -Q	<i>ye</i> ,p
hc, -s	they,

But they are much more irregular than the objective suffixes.

The conditional is formed in the same manner as that of the intransitive verb by means of the prefix a- and the suffix -us:

awi'kteenus, if I see thee. awiktipus, if thou seest us. awikte'QsEnous, if I see them.

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PASSIVE PARTICIPLE.

lon'm, to stab. ni'kEm, to cut. tot, st ibled. nikt, cut.

From this participle the passive is formed :

oaq tot, he has been stabbed.

IMPERATIVE.

The imperative of the transitive and intransitive verbs are formed in the same manner, second p rson singular by -a, second person plural by -osa:

> tlaha'nza, cat ! tlaha'nzōsa, cat ye!

ō'pita, eat it ! o'pitoza, cat ye it !

The future serves as an exhortative :

Qwikt tlaha'ns, let us cat ! or, we shall cat.

The Ntlakya'pamuQ distinguishes between the transitive verb with determined object and without object. The latter is derived from the stem of the transitive verb by the ending -EM :

aqkEn teŭ'um, I am working. aqkEn pê'qEm, I am hunting. Qwe'îm, he is looking. tl'Emô'pEm, to chop. më'qîma, kiek! e'tlem, to sing. pü'ist Em, to kill (one). qost E'm, to lore.

aq teuta'na, I work at it. aq pê'qEna ksmē'its, I am hunting deer. Qwe'ês, he is looking for it. aq tl'Emô'pEna, I chop it. me'Qita, kick it ! ê'tlEna, I sing it. pu'istEna, I kill it. agostE'na, I lure it. н 1—5

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ye are sick.

r a particle it erson has the are therefore

they

viktē'QsFteina iktë'qsEtst

ikte'osetem

viktē'QsEtēis

iktē'QsEtEmis

iktē'QsEtEm

The relation to the indirect object is expressed by the suffix -Q, which precedes the pronominal ending :

na'qtEm, <i>to gire.</i> k·ôlEnteù't, <i>to talk.</i>	na'q ena, 7 gire it. k'ôiEntcu'tEmst, he talks about thee.	na'qtQEna, I yive it to him. k ôiEntcu'tEmQst, he talks in thy behalf.
ë'tlem, to sing. aq e	tlena, I sing it. aq ö'tleqna, it for him	

pů'istem, to kill. på'istEna, I kill it. phisqEna, I kill it for some.

Qui tsuk he'toEmuQ, write me a letter. paists skakyas, he kills his own dog.

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Qui tsuk'Qe'tcEmuQ, write a letter for me. pü'istQts sk'ā'k qas, he kills his (another man's) dog (= he kills his dog for him).

body.

u, ut, tor tu, tut, f Examples

DERIVATIVES.

I recorded the following derivatives :

-	ie tonowing dett		
Quotative	okō	kEnu'Q'oko, it is said he is sick.	
Putative	-nka	kEnu'Qnka, he may be sick.	
Dubitative	nuk	kEnu'Qnuk, he is sick, I think.	pet, and
Aflirmative	<u>-n</u>	kEnu'QEn, indeed, he is sick.	
		pia'pstEn, indeed, it is ye !	snukua'u
Exhortative	-matl	ruitamatl, do lie down !	Frie
Causative		pū'it, to lie down. pū'itsEna, I lay it down.	
		nkā'iq, to swim. nkā'iqsena, I swim a horse,	Et, and, et
Inchoative	-wlîQ	snuyawi'iQ, to become possessed of money.	squ'its E
	•	kieten io	squites E.
		kEstuwe'Eq to turn bad.	
		iawl'iQ, to turn good,	
		Qinuwl'iQ, it begins to be a long time.	I designa
Durative	mîQ	kEnuQEmi'QkEn, I am always sick.	
Frequentative :		skenkenu'q, one who is repeatedly sick.	specifying ad
r requentative.	reaupreation	k'eak'ea'ap, one who is repeatedly indisposed.	-k'en, head.
		oaq nikeni'kena, I cut it repeatedly.	-us, face.
			-ane, car.
		totoata'na, I stabled him repeatedly.	tino, our
Detent 1	-1-	qaquatsta'na, I tie it repeatedly.	-aks, nose.
Potential	—z'a	hai'mz'akEn, I might do the same.	-tcin, mout
73 34 47 -		tcu'umz'aken, I might work, I ought to work.	
Facultative	-Enwatlen	tlahansEnwatlEn, to be able to eat.	
		rôitEnwa'tlEn, to be able to sleep.	
Desiderative	—mam En	tlahansma'mEnkEn, I desire to eat.	
		rô'itma'mEnkEn, I desire to sleep.	ann doubh
Intensive	—ap	stlahans'a'p, to eat much.	-anz, tooth.
		nmanqEma'p, to smoke much.	-iapsam, nc
Copulative	-a-us	stlk-a'us, together.	
		cinzia'us, brothers.	-āqEn, uppe
		snukua'us, friends.	
		gamana'us, enemies.	
		ktoua'usEs, he breaks it in two (= he halves it).	-äqkEn, bod
Reciprocal	-tuaq	getstua's, tied to each other.	
		puistua' Q, to kill one another.	-ikEn, back.
		tla'k tuag, to kill each other.	-akst, hand
		iamintua'Q, to have friendly feelings towards one	
		another.	
		stlk auzemtua'q, to put together.	-ist, stone.
Reflexive	-tcut	mEQEtcü't, to kick oneself (also to kick without	-uciap, fire.
nenearve	-icui	hitting and hing)	—kō, atkō
		hitting anything).	
		wikentcu'tken, I see myself.	
		nikentcu'tken, I cut myself.	
The reflexive	e is sometimes u	sed as a simulative :	—ūimuq, lan
		nikiapEntcü't, to make oneself like a coyote = to act	
		foolishly.	
		kEnugsten't, to make oneself sick, or to act like a	
		at a house of the method one boy over of the to the tom	

sick person.

PREPOSITIONS.

u, ut, towards, to. tu, tut, from

Examples : uil's, towards here, this way.

utqkEn ut teitq, I go into the house. ut stkamlo'ps anê'soan, (when) I went to Kamloops. tû'a kakā'o awi'kEna-us, (when) I saw it from far away. tuqai'a, tukai'a, from here. tutoi'a, tuktoi'a, from there. tuto'a, tuktoi'a, from there. tla'kEn tut Nkamtel'n, I came from Spences Bridge. ktei'qkEn tut Nkamtel'n, I departed from Spences Bridge. tlak-tut extettq, I came from the house. tlak tut extettq, I came from a house.

CONJUNCTIONS.

pet, and, connecting words designating persons:

snukua'us (1) aē't (2) a (3) SEQUā'pamuq (4) pEt (5) ha (6) Psqä'qEnEm (7), Friends together (1) now (2) the (3) Shuswap (4) and (5) the (6) Chilcotin (7).

Et, and, connecting all words not designating persons:

squ'its El caEnq, wood and stone.

SUBSTANTIVALS.

I designate by the term substantivals nominal suffixes, which are used for specifying adjectives, substantives, and verbs :

-k·ēn, head. -us, face. -ane, oar.

-aks, nose. -tein, mouth, language.

-anz, tooth. -iapsam, ncck.

-aqEn, upper part of arm.

--- iiqkEn, body.

-ikEn, back. -akst, hand.

—ist, stone. —uciap, fire. —kō, — atkō, watcr.

-ūimuq, land.

qazumk'ē'n, big-headod. ihus, pretty. qazuma'ne, big ear. k'oa'nêtEm, he has piercing pains in his ear. telawa'ks, nose bleeds. ntlakyapamuqtel'n, Atlakyapamuq langungo. teuktein, to finish with month, i.e., to finish eating. pêatel'n, one word. kliquttel'n, another language.

zaqiapsa'm, long neck. nzaqiapsa'm, long neck. kūnpā'qEn, broken arm. tska'qEn, ving, armpit. zaqa'qEn, long-armed. qzumö'qkEn, big body. piü'qkEn, one body. mitcaki'kEn, to sit on back. pāuta'kst, snollen hand. tcumEna'kstEn, to point with hand.

käupa'kstken, I hare broken my hand.

piê'ist, one stone.

piu'ciap, one fire.

ksū'imuQ, bad land. ihū'imuQ, nice land. kaQū'imuQ, dry land. piū'imuQ, one country.

nkui'skō, to fall into mater. qazuma'tkō, great lake. nza'qkō, lony lake. ntlk'a'tkō, wide lake.

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REPORT-1898.

qa õõ En to

-äiuk, tree.

-atly, house.

-aus, trail.

-tlp, species of trees and bushes.

-atldziq, bush.

-zanz, driftwood.

-qans, board, plank.

- -alks, clothing for upper part of body.
- -Itsa, covering for body.

-autl, canoe.

-als, knife.

-lEmuq, sack, bottle, box. -ka, spoon, cup, bucket, pail. -aken, bug, bundle. -äiqEn, rope. -tim, hollow thing. -uza, round thing.

uzEm, group of.
aski, song.
mēn, instrument.

qazuma'tlq, large house. õõpä'tlq, house burn: down. Eniamin: 'vs, traii fir hauling = waggon-road, tcutlquà'usEnuq, thov pointest out the way to him. ihii'iuk', a niee tree. kunEqii'iuk', hov many trees? mitcak'ā'iuk', sitting on a tree. ok'ona'yuk', rotten tree, wood. k'aya'yuk', green wood. k'aya'yuk', hard mood tree. zu'qiak', long tree. s'atk'tlp, yellow pine. sk'atlp, fir. pea'tldziq, one hush. kunEqa'tldziq, how many bushes?

k'unEqa'ns, how many planks?

smütlatsa'lks, moman's gown. spEk'I'tsa, white blanket. ntltsask agai'tsa, horse skin. pak-ui'tsa, to shirer with fear. qzuma'utl, big canoe. pia'utl, one canoe. spēia'ls, one knife. qzuma'ls, large knife. tlina'tlEmnq, birch bark ressel. pia'ka, one spoon. pia'ken, one bag. piä'iqEn, one rope. ntsikti'm, empty ressel. pin'za, one round thing. spek o'za, white round thing. piu'zEm, one group of things. stliica'ski, daneing song. tsuk me'n, pencil. niame'n, tool for hauling.

Substantivals sometimes appear in combination :

-tcinatly door = mouth of house. pkamtcinā'tlq. entrance of house. mitcaktcinā'tlq, to sit in the doorway.

Some of the substantivals are developing into classificatory terms, such as are found in the Tsimshian :---

-aks	nuse; point of a horizontal pole.
—k·ēn	mitcak a'ks, to sit on a point. head ; top of a long, upright object.
	mitcak k e'n, to sit on top of.
—ikEn	back; middle of long thing. mitcak·i'kEn, to sit in middle of a long thing.
-aiuk	tree, long thing.
	piai'uk tik sqëts, one (long thing) salmon. piai'uk tik tinq, one (long thing) vein.
-a-itQ	flat thing.
	pia'itQ stsuk, one sheet of paper.
— k'én	pia'itq ma'nta, one piece of canvas (manta, Spanish). head, round thing.
	piak é'in tkau'za, one (round thing) egy.

Vocabulary of the Chilcotin Language.

The Chilcotin form a branch of the Tinneh stock. The following vocabulary is designed on the lines of the vocabularies given in the Sixth and Tenth Reports of the Committee. Since I am not familiar with the grammatical structure of the language, the vocabulary must be held subject to revision:

English	Chilcotin	English	Chilcotin
man	tînnē, ta'yañ.	all houses	kaunētlañ k·hō.
roman	tsē'k ē.	kettle	nõsai'.
oy	kyēnl.	bow	atlthe'n, datsa'nk'a.
ny girl	êsk ê tsê k ê (= fe-	arrow	k'a.
	male child).	awe	tshēntl.
ather	ā'pa	knife	palâ'.
hy mother	i'nku'l.	jack-knife	gyi'nalk i'k.
ny husband	sak a'n.	canoe	ts'ē.
ny wife	saa't.	moccasins	k·e.
ny child	sEsk ē'i.	pipe	k'ā'tsai,
ny elder brother	sō'nar.	wooden pipe	tītcen k'ā'tsai.
ny younger brother	sik·i'l.	tobacco	tsrilyo'.
ny clder sister	sä'tē.	glore	bāt.
ny younger sister	sitē'z.	sky	vê't'a.
Indian	tentlxöte'n.	sun	sha.
y people	sêtltê's.	moon	a'ldzi.
ny head	sertse'.	star	sEn.
ny hair	sErtsa'ra.	cloud	k'ôs.
ny face	senê'm.	smake	tlit.
ny forehead	sEtsēEku'tl.	day	k'antsī'u.
	hētsa'ra (?).	night	êtl'i'.
ny ear	sEna'ra.		
ny eye	sētsī'nîli'.	morning	k'apEna'q. ngaratlra'tl.
ny nose	serô'.	eveniny	sâtsana's.
ny mouth		noon	sötêzni'.
ny tongue	sertsôll.	midnight	
uy tooth	sero'.	spring	Erotlts'E'n.
ny beard	sEta'ra.	summer	dan.
ny neck	sEk'ô's.	autumn	d'Enk'ī'z.
ny arm	sEka'n.	winter	qa'i.
ny hand	sEla'.	wind	në'nts'E.
ny fingers	sElats'ê'i.	thunder	ē'ndī.
hy fingers	nēlats'é'i.	lightning	tou'e.
my thumb	sElaitchôr.	rain	nagutlti'x.
ny first finger	sElāskE't.	snow	nā ljû's.
ny second finger	sElanē'.	fire	k ôn.
ny third finger	selāra'.	water	thō.
my fourth finger	seläste't.	ice	ku'dlu.
tinger nail	lak'E'n.	earth	nEn.
my body	sEnê's.	seu	ya thô.
my chest	sēdzī'y.	river	tsirë'nli, yik o'.
my belly	sEbE't.	lake	pēĩ.
my breasts	sEts'ô'r.	snow mountain	tsatl.
my leg	sEts'E'n.	hill	tētlku'tl.
my fout	sEk'ê'.	island	nnu.
big toe	k elaitchô'r.	salt	lesa'l (Chinook jar-
toe nail	k člak'E'n.		gon).
my bono	sEku't.	stune .	tshê.
my heart	sEtsi'y (? see chest)		titcî'n.
	sEti'l.	black pine	tcintī' (?).
my blood			
wy blood chirf	nētc'il'i'n.	all trees	titcingā'ts'êi.

¹ This 'z' is exceedingly weak, so much so that part of the breath escapes laterally, giving it a decided 'l' tinge.

= naggon-road. t out the way

8?

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Adam

Canoe Creek

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REPORT—1898.

English tail dog black bear der, buck fly mosquito snake bird feather ning tail of bird foot of bird. foolhen q0080 duck loon teal duck bald-headed eagle young eagle tish salmon trout fish tail white black red blue yellow, green large large river small small lake small creek strong old man young good bad a bad man dead sick

Chilcotin kye. tlēn. sEs, tãyê's. nēsî'ñy. asts'E'z. ts'IH. tlarasE'n. pE (?). tcus. pet'a', pet'se'n. pEkye'. pEk é'. ðîн. qaq. nāt'ê'i. dāndzE'n. nād'atsE'l. dā'kîн. shaiky. tlū'i. kyêrs. dEk'a'i. pEkyilarai't. tlēyê'l. tlEt'ê's. dîldî'l. detltsa'. deltsô'r. întcā'. kuntcak ô. ntsôdl. pēngō ntsôdl. tcarenligo ntodl. nadēnt'i dagöldHin. k'ā'nēralitl (?). tlaago'su. pēkunidvi't. denē'tla ātltsE'n. daltsha'n. dEnëita'.

English cold warm I thou he ne two 100 all many far near below to-day to-morrow yesterday he speaks the truth yes. no nothing one tro three four five sia seven eight nine ten twenty thirty forty one hundred to eat to drink I walk to dance to sing I mant to sleep I sleep to speak

Chilcotin gEzk'a'z. gõzē'lgun. sī'it. nē'în. gū'yîñ. nantinī'ltē (?). kaqonētla'n. kāts'ê'i. tlaä'tla. tlaagosE't. intltidyil. kugyaq. k'andzi'n. k'āpE'n. atlgatlda'. atl'a'risEn. ha'a. qā'tada'. đāq. ēntli'y. nã'k ê. tha'i. de'i. äskönla'. tlgyanthai'. gyētlqatlgyanð'lt'ê. k'анinē'lt'ð. tlgyalagontane'lt. tlt'a'una. nātl'a'una. thatlya'una. detlyauna. nēlagau'nēldētl'auna, ats'ive'. thatsêtë. sētrasts'a'tl. tsEnadai'H. tsîgdyê'n. ntāstHē'tl. satlagaitlqë'n (?). iazêtld'i'ky.

In the Tenth Report of the Committee (p. 33) I have compiled the known words of the Tinneh dialect that in former times was spoken in the Nicola Valley. I have compared these words with Chilcotin and Nětcā'ut'in words, first by asking for the equivalents of the English words, then by pronouncing the Nicola Valley words. In a number of cases I obtained equivalents which showed close correspondence.

English	Nicola Valley	Chilcotin	Nētcā'ut'in
woman	tsik'hi, tsē-akai'	tsē'k·ē	ts'ē'ku
black bear	sass, sus, sas	SES	sas
ram of mountain sheep	sisia'ni	cicia'n	sriya'n
ene of mountain sheep	tpai	çôpai'	spai'a
mountain sheep	ti-pi	te'pi	
lake trout	sipai'i	sā'pai	sapai'
snake	tlosho'	tlaras E'ñ	tlagE's
bear berry	ti'neh	tî'niH	tEnî'H
horn	(atē)	atē'	atē
arrow	k e	ka	k'a
child	(qe)	k·ēi	
take it !	etltcot (I may give you)	ëntlton'i	yfgö'itltent.

-

ON THE NORTH-WESTERN TRIBES OF CANADA.

These words agree very closely on the Nicola Valley dialect and in Chilcotin. Only three among these twelve words differ in a manner which cannot well be explained by difference of perception and transcription. They are the following:

ewe of mountain sheep	Nicola : tpai	Chilcotin:	çôpai'	Nētcā'ut'in :	spai'a.
snake	tlosH0'		tlarasE'ñ		tlagE's.
laks trout	sipai'i	•	sā'pai		sapai'.

Since three words were collected from more than one individual, and by three different collectors, it seems likely that there existed an actual difference between these dialects in regard to these words.

The following words of the Nicola Valley dialect was not understood by either Chilcotin or Nētcā'ut'in when read by me. In a number of cases I obtained the equivalents of the English words in the two last-named dialects.

Nicola Valley	English	Chilcotin	Nētcā'ut'in
t-haeh	man	tînnē, ta'yañ	tîne'
tet'-hutz	man		
thatc	man	-	
nootl	man	-	
húlh últ u'täi	a fish	-	-
taki'nktein	a jish		
zûlke' ke	ground-hog	tēti'ny	têtni'
tsho	buck of deer	nësi'ny	yêsts'êtîne'
tEqo'ztz	soap-berry	nō'ruc	nawa'c
notl-ta-ha't-se)	•	
notlqa'tzi	svild currant	tqaltse'l (?)	
qtlona'zi	}		
ta-ta-ney,'			the second second
tēt-ta-ā-nē'	knife	palâ'	ali's
ta-a'-ni]		
tsaē	spoon	k ā'ni H	sE'nts'atl
ska-kil-ih-kane	rush mat	gultl'i's	hutlE's
naltsi'tse	arrow-head	düntai'	nü'ntai
tlutl	packing linc	qētlā'nt'iy	qētlā't'iy
ti-li-tsa-in	give me the spoon !	nnan tē kā'ni	
n-shote	give it to me !	nna	te
pin-a-lē-ēl-ī-ītz	take care !	sötsêlnē'tlē	wô'nli
a'we qe	come here, child		

I have omitted the numerals in the comparison, because I suspect that those recorded by Mr. Mackay (l.c., p. 33) are not numerals, but various words which the informant enumerated as known to him. I think that this is the case, because many of them agree nearly or quite accurately with other words of our list. Mr. James Teit, who collected a number of words from the Indians, first called my attention to this fact. The following list shows these agreements:

Numerals	Other words
	sa-pie, trout.
	tin-ili, bear-berry.
	tlotl, packing line (Teit).
	-
	n-shote, give it to me!
	t-pae, ene of mountain sheep.
	sass, bear.

These agreements and the fundamental differences between these numerals and those of all other Tinneh dialects make the series more than doubtful.

Although the apparent differences of a small vocabulary like the present have no great weight, I am inclined to think that there was a difference between the Chilcotin and the Nicola Valley dialect. The language was, however, evidently very closely related to the Chilcotin, while it differed considerably from the Carrier dialects.

Chilcotin z. un.

i'ltē (?). tla'n. ı. E't. yîl.]. 'n. 1. dã'. En.

٢.

une, sa-pe ino, tun-ih

three, tlohl four, na-hla-li-a

tire, e-na-hlē sir, hite-na-ke

nine, sas

seven, ne-shote cight, k-pao

x'. hei'. tlgyanð'lt'ê. 'lt'8. göntanē'lt. a. na. 'una. ına. 'něldětl'auna. 'a'tl. ιі'н. 'n. 'tl. tlqē'n (?). i'ky.

known words alley. I have sking for the Valley words. bondence.

Nētcā'ut'in tu.

'n

tltcut.

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V. Summary of the Work of the Committee in British Columbia. By FRANZ BOAS.

At the time when the Committee instituted their investigations, the inhabitants of the Pacific coast of Canads were less known than those of any other part of the North American Continent, with the exception, perhaps, of the tribes of California. What little we knew was based on the brief descriptions of early travellers, or on indirect information obtained from investigators who had been working in the regions to the north and to the south. The only noteworthy work done in recent times was that by Dr. G. M. Dawson during his frequent geological expeditions to British Columbia. But three important problems remained to be solved; the numerous languages of the coast were still unclassified, and the number of their dialects was not definitely known ; the physical characteristics of the tribes had never been investigated; it was not known if they represented one homogeneous type, or if several types were found in the Province. Finally, the study of the customs of the various tribes offered a number of difficult problems in regard to the origin and significance of several phenomena.

has been made by the efforts of the Committee in Material ad The number of languages and dialects is now known, all these directions. and it does not seem likely that additional ones will be discovered. The following languages are spoken in British Columbia:—Athapaskan or Tinneh in eight dialects; Tsimshian in three dialects; Haida in two dialects; Wakashan in two divisions, the Kwakiutl with three dialects. and the Nootka with two dialects; the Salish in four main divisions with eleven dialects, and the Kootenay. In this enumeration, dialects which may be classed as well developed and pronounced provincialisms have not been counted, but only such dialects as show distinct differences in vocabulary and grammar, so that intercommunication between the tribes speaking them is, even in the case of the most closely affiliated dialects, We count, therefore, in all, thirty dialects, which have not easy. been here classed, according to their affinities, under six linguistic stocks. Grammatical sketches of all these dialects have been obtained; but a few only are known tolerably well. These are the Kwakiutl and the Tsimshian. All the others require much fuller investigation than they have heretofore received.

While the present state of our knowledge of these languages does not permit us to assume that the number of stocks to which they belong is smaller than the number given above, we may call attention at this place to the morphological relations of some of these languages, which suggest the desirability of further inquiries into their early history.

Haida and Tlingit—which latter is spoken in southern Alaska—have a number of morphological traits in common. While all the other languages of the North Pacific coast use reduplication for grammatical purposes, no trace of reduplication is found in these two languages. There is no gender, and no well-defined form for a plural or distributive. Compound nouns are very numerous, the composition being effected by juxtaposition. Words of two, three, and more components, which do not modify each other, occur. Local adverbs, which always retain their independent forms, frequently enter into compound words of this kind. In both languages there are four forms of the personal pronoun. In the umbia.

gations, the nan those of exception, as based on on obtained e north and es was that is to British solved; the the number theristics of they reprend in the ibes offered significance

mmittee in ow known, ered. The ipaskan or ida in two e dialects. isions with ects which s have not es in vocathe tribes d dialects, hich have tic stocks. but a few simshian. heretofore

does not belong is this place h suggest

ka—have he other mmatical . There b. Comy juxtado not in their is kind. In the independent pronoun, the selective and the ordinary forms may be distinguished. The pronoun of the transitive verb differs from that ef intransitive verbs, the latter being identical with the objective form of the former. In this respect there is a close analogy between the Haida and Tlingit, and the Siouan languages.

The Tsimshian presents an entirely different type of language. We find a plural based largely on reduplication. The pronouns are suffixed to the verb. Words are formed almost exclusively by means of prefixes. The system of numerals is very complex, as there are different sets of numerals for various classes of objects.

The southern group of languages-the Kwakiutl, Salish, and Chemakum (which last is spoken in the northern part of the State of Washington) have a series of very peculiar traits in common. Most prominent among these is the occurrence of what Trumbull has called 'substantivals,' which play so important a part in the Algonkin languages. Such are, primarily, parts of the body; furthermore, designations of localities, of fire, water, road, blanket, domesticated animals (i.e., in olden times, the dog), and many others. These substantivals do not occur in any other northern language, and must be considered one of the most important characteristics of the languages in question. All these languages use reduplication and diæresis ior forming collective forms and plurals of verbs. The demonstrative pronoun is used very extensively, and serves for distinguishing locations of object or action according to the three forms of the personal pronoun; namely, such as are located near the first, second, or third person. Besides these, a great many locative suffixes are used. Whenever an adverb accompanies the verb, the former is inflected, while the verb remains unchanged. When a transitive verb is accompanied by an adverb, the latter always takes the suffix of the pronominal subject, while the verb takes that of the pronominal object.

The Kootenay presents still another type of language. It incorporates the object in the same way as the Mexican does, the noun itself being embodied in the verb. It has very few substantivals, if any, but forms compounds by verbal composition, like the Tinneh (Athapascan) and Siouan. While in the preceding class we find, for instance, compounds expressing states of the hand, of water, fire, &c., we find here compounds expressing actions done with the hand, the foot, or other instrumentalities ; and in the water, the fire, or in other localities. It seems that there is no reduplication.

It is worth remarking that these types of language are characterised by a few very general features that they have in common, and that distinguish them from the other groups that are found in contiguous areas. The Haida and Tsimshian are spoken in the extreme north ; the Kwakiutl, Salish, Chemakum, in the whole southern portion of the Province, and they adjoin the Algonkin, with whom they have a few peculiarities in common. The Kootenay is not far separated from the Shoshonean languages, which resemble it in several particulars. We may therefore well say that the languages of the North Pacific coast belong to several morphological groups, each of which occupies a continuous area.

The investigation of the physical characteristics of the Indians of British Columbia has resulted in establishing the fact that the people are by no means homogeneous. As compared to the Indians east of the Rocky Mountains and farther south, they have in common a lighter complexion and lighter hair; but the shapes of their heads and faces differ B.

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considerably. Three types may easily be distinguished—the northern type, represented by the Haida, the Indians of Nass River, and the Tsimshian; the Kwakiutl type; and the Thompson River type.

These types may be characterised by the following measurements :-

		Norther	n Type	Kwakiu	ll Type	Thompso Ty	
		Average	Mean Error	Average	Mean Error	Average	Mean Error
			I. Men.				
		mm.		mm.		mm.	
Stature.		1675	± 7.40	1645	± 5.90	1634	± 7.90
Length of head		194.6	± 0.80	188.7	± 1.19	186.5	± 0.55
Breadth of head		160.6	± 0.67	159.0	± 1.00	155.9	± 0.52
Breadth of face		153.7	± 0.85	151.4	± 0.54	147.4	± 0.41
Height of face	• •	121.6	± 0.87	128.0	± 0.67	120.3	± 0.71
			II. Wom	en.			
Stature.		1 1542	± 5.70	1537	± 5·90	1540	± 5.00
Length of head	• •	185.6	± 0.88	186 9	± 1.64	179.5	± 0.00 ± 0.23
	• •			1			
Breadth of head	• •	153.2	± 0.90	154.3	± 1.44	150.0	± 0.41
Breadth of face	• •	143.9	± 0.80	144.3	± 0.64	138.8	± 0.10
Height of face	• •	114.3	± 0.93	119.3	± 0.82	112.5	±051

They may be described as follows: All these types are of medium stature, and their arms are relatively long, their bodies short. Among the northern type we find a very large head. The transversal diameter is very great. The same may be said of the face, which has an enormous breadth. The height of the face is moderate, and therefore its form appears decidedly low. The nose is often concave or straight, seldom convex. The noses of the women are decidedly concave. Its elevation over the face is slight. The point of the nose is short.

The dimensions of the head of the Kwakiutl are similar to those of the northern types, but the head seems to be slightly smaller. The face shows a remarkably different type, which distinguishes it fundamentally from the faces of all the other groups. The breadth of face is nearly the same as that of the northern type, but its height is enormous. The same may be said of the nose, which is very high and comparatively narrow. The point of the nose is short: its elevation is also very great. The nasal bones are strongly developed, and form a steep arch, their lower ends rising high above the face. For this reason convex noses are found very frequently among this type. Convex noses also prevail among the women, and for this reason the difference between the female form of the Kwakiutl and the female form of the northern type is very great.

The Thompson River type is characterised by a very small head, both diameters being much shorter than those found on the coast, while the proportions are nearly the same. The transversal diameter of the face is much shorter than that of the coast Indians, being nearly the same as that found among the Indians on the plains. The face is much lower than that of the Kwakiutl type, and also slightly lower than that of the northern type. The nose is convex and heavy. Its point is much longer and heavier than the point of the noses of the coast types.

There are good indications of the existence of a few other types, but they cannot be distinguished with certainty from the types enumerated -the northern River, and the type. urements :---

Thompso Ty	on River pe
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types, but numerated here. It is probable that further measurements will show that the tribes of Harrison Lake and the Gulf of Georgia represent a fourth type.

The distribution of the types of man in British Columbia has an important bearing upon the much discussed question of the classification of mankind; while some anthropologists have maintained that all classification must be based upon considerations of language, others maintain as rigorously that the main consideration must be that of physical type. The data collected by the Committee show clearly that neither of these contentions is entirely correct. We have seen that certain tribes—such as the Bilqula, who linguistically belong to the Salish group-physically belong to another group. This shows that the two phenomena do not go hand in hand, but that they constantly overlap. The classification of mankind according to physical characteristics takes into consideration only the effects of heredity and environment upon the physical type of man. Race mixture, isolation, and effect of environment will be reflected in the results of these classifications. But there are evidently cases in which a slow infiltration of foreign blood takes place, while language and customs remain unaltered or changed to but a slight extent. The Bilqula branched off from the Coast Salish at an early time, and retain the Salish language; but there has been an infiltration of Kwakiutl blood and of Athapaskan blood, which has entirely changed the physical features of the tribe. With this infiltration of foreign blood came foreign words and foreign cultural elements, but they were not sufficiently powerful to change the original speech of the people.

It is clear, from these considerations, that the three methods of classifying mankind—that according to physical characters, according to language, and according to culture—all reflect the historical development of races from different standpoints; and that the results of the three classifications are not comparable, because the historical facts do not affect the three classes of phenomena equally. A consideration of all these classes of facts is needed when we endeavour to reconstruct the early history of the races of mankind.

It will be sufficient to point out in this place a few of the more general results of the studies conducted by the Committee on the cultures of the primitive people of British Columbia. In the Reports of the Committee only brief abstracts were given of the mythologies and traditions of the tribes, but full collections were made; and a comparison of these has led to the following results :—The culture of the coast tribes of the Province is quite uniform. It has reached its highest development in the district extending from Queen Charlotte Islands to northern Vancouver Island. As we depart from this region, a gradual change in arts and customs takes place, and together with it we find a gradual diminution in the number of myths which the distant tribes have in common with the people of British Columbia. At the same time a gradual change in the incidents and general character of the legends takes place.

We can in this manner trace what we might call a dwindling-down of an elaborate cyclus of myths to mere adventures, or even to incidents of adventures, and we can follow the process step by step. Wherever this distribution can be traced, we have a clear and undoubted example of the gradual dissemination of a myth over neighbouring tribes. The phenomena of distribution can be explained only by the theory that the tales have been carried from one tribe to its neighbours, and by the tribe which has newly acquired them in turn to its own neighbours. It is not Canoe Creek

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necessary that this dissemination should always follow one direction; it may have proceeded either way. In this manner a complex tale may dwindle down by gradual dissemination, but new elements may also be embodied in it.

It may be well to give an example of this phenomenon. The most popular tradition of the North Pacific coast is that of the raven. Its most characteristic form is found among the Tlingit, Tsimshian, and Haida. As we go southward, the connection between the adventures becomes looser, and their number less. It appears that the traditions are preserved quite fully as far south as the north end of Vancouver Island. Farther south the number of raven-tales which are known to the Indians diminishes very much. At Nahwitti, near the north point of Vancouver Island, thirteen tales out of a whole of eighteen exist. The Comox have only eight, the Nootka six, and the Coast Salish only three. Furthermore, the traditions are found at Nahwitti in the same connection as farther north, while farther south they are very much modified. The tale of the origin of daylight, which was liberated by the raven, may serve as an instance. He had taken the shape of the leaf of a cedar, was swallowed by the daughter of the owner of the daylight, and then born again ; afterwards he broke the box in which the daylight was kept. Among the Nootka, only the transformation into the leaf of a cedar, which is swallowed by a girl and then born again, remains. Among the Coast Salish the more important passages survive, telling how the raven by a ruse compelled the owner of the daylight to let it out of the box in which he kept it. The same story is found as far south as Grey's Harbour in Washington. The adventure of the pitch, which the raven kills by exposing it to the sunshine, intending to use it for calking his canoe, is found far south, but in an entirely new connection, embodied in the tradition of the origin of sun and moon.

But there are also certain adventures embodied in the raven myths of the north, which probably had their origin in other parts of America. Among these may be mentioned the tale of how the raven was invited and reciprocated. The seal puts his hands near the fire, and grease drips out of them into a dish, which he gives to the raven. Then the latter tries to imitate him, but burns his hands, &c. This tale is found, in one or the other form, all over North America, and there is no proof that it originally belonged to the raven myth of Alaska Other examples may be found in the collection of traditions published by F. Boas.¹

The proposition that dissemination has taken place among neighbouring tribes will probably not encounter any opposition. Starting from this point of view, we may advance the following considerations :—

If we have a full collection of the tales and myths of all the tribes of a certain region, and then tabulate the number of incidents which all the collections from each tribe have in common with any selected tribe, the number of common incidents will be the larger the more intimate the relation of the two tribes, and the nearer they live together. This is what we observe in a tabulation of the material collected on the North Pacific coast. On the whole, the nearer the people, the greater the number of common elements of traditions; the farther apart, the less their number.

¹ Indianische Sagen von der Nord-Pacifischen Küste Amerikas, pp. vi-363. Berlin, 1895. irection ; it x tale may nay also be

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But it is not the geographical location alone which influences the distribution of tales. In some cases, numerous tales which are common to a certain territory stop short at a certain point, and are found beyond it in slight fragments only. These limits do not by any means coincide with the linguistic divisions. An example of this kind is the raven legend, to which reference has been made. It is found in substantially the same form from Alaska to northern Vancouver Island; then it suddenly disappears almost entirely, and is not found among the southern tribes of Kwakiutl lineage, nor on the west coast of Vancouver Island, although the northern tribes, who speak the Kwakiutl language, have it. Only fragments of these legends have strayed farther south, and their number diminishes with increasing distance. There must be a cause for such a remarkable break. A statistical inquiry shows that the northern traditions are in close accord with the tales of the tribes as far south as the central part of Vancouver Island, where a tribe of Salish lineage is found ; but farther they do not go. The closely allied tribes immediately south do not possess them. Only one explanation of this fact is possible, viz., lack of assimilation, which may be due to a difference of character, to continued hostilities, or to recent changes in the location of the tribes, which has not allowed the slow process of assimilation to exert its deepacting influence. The last may be considered the most probable cause. The reason for this opinion is, that the Bilqula, another Salish tribe, who have become separated from the people speaking related languages, and who live in the far north, still show in their mythologies close relations to the southern Salish tribes, with whom they have many more traits in common than their neighbours to the north and to the south. If their removal had taken place very long ago, this similarity in mythologics would probably not have persisted, but they would have been quite amalgamated with their new neighbours.

We may also extend our comparisons beyond the immediate neighbours of the tribes under consideration by comparing the mythologies of the tribes of the plateaus in the interior, and even of those farther to the east, with those of the coast. Unfortunately, the available material from these regions is very scanty. Fairly good collections exist from the Athapaskan tribes, from the tribes of Columbia River, and-east of the mountains-from the Omaha, and from some Algonkin tribes. When comparing the mythologies and traditions which belong to far-distant regions, we find that the number of incidents which they have in common is greater than might have been expected; but some of those incidents are so general that we may assume that they have no connection, and may have arisen independently. There is, however, one very characteristic feature which proves beyond cavil that this is not the sole cause of the similarity of tales and incidents. We know that in the region under discussion two important trade routes reached the Pacific coast - one along the Columbia River, which connected the region inhabited by Shoshonean tribes with the coast, and indirectly led to territories occupied by Siouan and Algonkin tribes ; another one which led from Athapaskan territory to the country of the Bilqula. A route of minor importance led down Fraser River. A study of the traditions shows that along these routes the points of contact of mythologies are strongest, and rapidly diminish with increasing distances from these routes. On Columbia River the points of contact are with the Algonkin and Sioux ; among the Bilqula they are with the Athapaskan. This phenomenon can hardly B.

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be explained in any other way than by assuming that the myths followed the line of travel of the tribes, and that there has been dissemination of tales all over the continent. The tabulations which have been made include the Micmac of Nova Scotia, the Eskimo of Greenland, the Ponca of the Mississippi Basin, and the Athapaskan of Mackenzie River; and the results give the clearest evidence of extensive borrowing.

The identity of a great many tales in geographically contiguous areas has led to the assumption that, wherever a great similarity between two tales is found in North America, it is more likely that it is due to dissemination than to independent origin.

But without extending these theories beyond the clearly demonstrated truths of transmission of tales between neighbouring tribes, we may reach some further conclusions. When we compare, for instance, the legend of the culture hero of the Chinook, and that of the origin of the whole religious ceremonial of the Kwakiutl Indians, we find a very farreaching resemblance in certain parts of the legends, which makes it certain that these parts are derived from the same source. The grandmother of the divinity of the Chinook, when a child, was carried away by a monster. Their child became the mother of the culture-hero, and by her help the monster was slain. In a legend from Vancouver Island a monster, the cannibal spirit, carries away a girl, and is finally slain by her Their child becomes later on the new cannibal spirit. There are help. certain intermediate stages of these stories which prove their identity beyond doubt. The important point in this case is that the myths in question are perhaps the most fundamental ones in the mythologies of these two tribes. Nevertheless, they are not of native growth, but -partly at least-borrowed. A great many other important legends prove to be of forcign origin, being grafted upon mythologies of various tribes. This being the case, it follows that the mythologies of the various tribes as we find them now are not organic growths, but have gradually developed and obtained their present form by accretion of foreign material. Much of this material must have been adopted ready made, and has been adapted and changed in form according to the genius of the people who The proofs of this process are so ample that there is no borrowed it. We are therefore led to the opinion that, reason to doubt the fact. from mythologies in their present form, it is impossible to derive the conclusion that they are mythological explanations of phenomena of nature observed by the people to whom the myths belong, but that many of them, at the places where we find them now, never had such a meaning. If we acknowledge this conclusion as correct, we must give up the attempts at offhand explanation of myths as fanciful, and we must admit that also explanations given by the Indians themselves are often secondary, and do not reflect the true origin of the myths.

It may be well to explain this point of view a little more fully. Certainly the phenomena of nature are the foundation of numerous myths, else we should not find that the sun, moon, clouds, thunderstorm, the sea, and the land play so important a part in all mythologies. But it seems that the specific myth cannot be simply interpreted as the result of observation of natural phenomena. Its growth is much too complex. In most cases the present form has undergone material change by disintegration and by accretion of foreign material, so that the original idea is at best much obscured.

Perhaps the objection might be raised to this argument that the simi-

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larities of mythologies are due, not only to borrowing, but also to the fact that, under similar conditions which prevail in a limited area, the human mind creates similar products. While there is a certain truth in this argument, so far as elementary forms of human thought are concerned, it seems quite incredible that the same complex product should originate twice in a limited territory. The very complexity of the tales and their gradual dwindling down, to which reference has already been made, cannot possibly be explained by any other theory than by that of dissemination. Wherever geographical continuity of the area of distribution of a complex ethnographical phenomenon is found, the laws of probability exclude the theory that in this continuous area the complex phenomenon has arisen independently in various places; but they compel us to assume that the distribution of this phenomenon in its present complex form is due to dissemination, while its composing elements may have originated here and there.

In the Old World, wherever investigations on mythologies of neighbouring tribes have been made, the philological proof has been considered the weightiest ; that is to say, the proof of borrowing has been considered the most satisfactory whenever, together with the stories, the names of the actors have also been borrowed. We cannot expect to find such borrowing of names to prevail to a great extent in America. Even in Asia the borrowed names are often translated from one language into the other, so that their phonetic resemblance is entirely destroyed. The same phenomenon is observed in America. In many cases the heroes of myths are animals, whose names are introduced in the myths. In other cases, names are translated, or so much changed, according to the phonetic laws of various languages, that they can hardly be recognised. Cases of transmission of names are, however, by no means rare. We will give only a few examples from the North Pacific coast.

Almost all the names of the Bilqula mythology are borrowed from the Kwakiutl language. A portion of the great religious ceremony of the Kwakiutl has the name 'tlôkoa'i.t.' This name, which is also closely connected with a certain series of myths, has spread northward and southward over a considerable distance. Southward we find it as far as the Columbia River, while to the north it ceases with the Tsimshian; but still farther north another name of a part of the ceremonial of the Kwakiutl is substituted, viz., 'nō'ntlɛm.' This name, as designating the ceremonial, is found far into Alaska. But these are exceptions; on the whole, the custom of translating names and of introducing names of animals excludes the application of the linguistic method of investigating the borrowing of myths and eustoms.

We will next consider the social organisations of the coast tribes in connection with certain peculiar customs which have been described in the Reports of the Committee, viz., the secret societies.

The northern tribes have maternal institutions, and are divided into a number of clans, which have animal totems. The clans are not considered descendants of the totem animal, but claim that the ancestor of each clan had a meeting with the totem animal, in which the latter became his friend and helper. The Kwakiutl are divided into a number of clans, most of which have animals for their totems. Most of these totems are explained in the same manner as those of the northern tribes, while others are considered direct descendants of the totem animal. Among the Kwakiutl we find a mixture of paternal and maternal institutions, but the son is not allowed to use his father's totem; he acquires the right to his totem by marriage, receiving at that time the totem of his wife's father. When, later on, his daughter marries, the right to the totem descends upon her husband. In this manner the totem descends is maternal line, although indirectly. Each clan has a certain h. number of names. Each individual has only one name at a time. The bearers of these names form the nobility of the tribe. When a man receives the totem of his father-in-law, he at the same time receives his name, while the father-in-law gives up the name, and takes what is called 'an old man's name,' which does not belong to the names constituting the nobility of the tribe.

Among the Kwakiutl and Bilqula this social organisation holds good during the summer, while during the winter ceremonials it is suspended. During this time the secret societies take the place of the clans. According to tradition, these societies have originated in the same manner as the clan originated. One of the ancestors of the clan met the presiding spirit of one of the societies, and was initiated by him. This seems to be the general form of tradition explaining the origin of secret societies among all North American tribes. All those who have been initiated by the same spirit, and who have received from him the name, privileges, and secrets of the ceremonial, form a secret society. The most important among the societies on the North Pacific coast are those of the cannibals, the bears, the fools, and the warriors. The number of names composing a secret society is limited in the same manner as the number of names composing the clan. Membership in a secret society may be obtained in two ways : by marriage, in the same way as the acquisition of the totem; and by killing the owner of a certain name. Totem and secret society are 5 connected inseparably; but the one may be transferred to one perse e other to another.

In order to understand this curious system clearly we must remember that the Salish tribes which are found south of the Kwakiutl are divided into village communities; while their northern neighbours—the Tsimshian, the Haida, and the Tlingit—are divided into maternal clans. The Kwakiutl have been strongly influenced from both sides.

The traditions explaining the totems and the secret societies refer, as stated before, to the initiation of the ancestor of the clan. They are analogous to the traditions of the acquisition of the Manitou. All the tales referring to this subject have approximately the following incident: A youth undergoes a ceremonial fasting and purification, and thus acquires the faculty of seeing a spirit, who becomes his protector. The traditions of the coast tribes explaining the origin of clans have the same contents. There is only one difference : the protecting spirit has appeared to the ancestor of the clan, and is now inherited by their descendants without personal initiation. In this respect the similarity between the traditions of the secret societies and those referring to the Manitous is much closer, since it is necessary that each new member be initiated by the presiding spirit of the society. Therefore every new member has to undergo the same ceremonies which other Indians undergo at the time of reaching puberty. The beliefs of the Chinooks of Columbia River are similar to those of the northern tribes, although among them the idea of the acquisition of the totem has been more clearly preserved. They believe that a man can acquire only that spirit who belonged to his ancestors in the paternal line, but the relation stitutions, but nires the right of his wife's to the totem escends in the ertain his

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of this spirit to the individual is identical with that of the Manitou to the eastern Indian.

It can be clearly shown that the development of the family Manitou into the family totem has taken place owing to the influence of the northern tribes. In order to make this clear, it is necessary to consider for a moment the clans of the Kwakiutl somewhat closely. In examining the names of the tribes, it will be seen that very often the name of the tribe is the collective form of the name of its ancestor. At the same time a subdivision of the tribe, one of its clans, may have the name 'The Family of the Ancestor,' while the other clans have different names. It seems that this proves that the first clan formed the original stock of the tribe, and that the other clans joined it later on. This theory is strengthened by two considerations : first, it is stated that each clan originally had its village at a certain place, which it left later on in order to join others. Almost all these places can be proved to be ancient village sites. Secondly, many clans have names which may be translated, as 'Inhabitants of such and such a place,' while nowadays they live with the rest of the tribe in the same village, and have no distinct claims to the territory the name of which they bear. This seems to prove that the present social organisation of the tribe is a late development, and that originally the Kwakiutl were in the same stage of development as their southern neighbours, among whom the social unit is the village community, and who have no crests.

The northern tribes have clearly defined totems, which are inherited in the maternal line, and which have animal names and animal crests. While among these tribes the totem of the whole clan is founded on the tradition belonging to the whole clan, the subdivisions of the latter are explained in exactly the same manner as those of the Kwakiutl clans. The artistic bent of these people has taken hold of these traditions, and has thus formed the crest for the clan and for its subdivisions. There is little doubt that the plastic art of the northern tribes was a most important factor in developing their social system. In the south, where this art begins to disappear, the village community takes the place of the clan with animal totem, while among the tribes located between these two groups, among whom the plastic art is well developed, although not as highly as in the north, there is an intermediate form of social system. It is therefore likely that the development of the social system discussed here has taken place in the northern part of British Columbia.

The northern tribes of Kwakiutl lineage show clearly that their ideas have been influenced by the animal totem of the northern tribes. They have adopted to a great extent the maternal descent and the division into animal totems of the northern tribes. The social organisation of the He'iltsuk, one of the most northern tribes of Kwakiutl lineage, is similar to that of the Tsimshian, while their southern neighbours, the inhabitants of Rivers Inlet, who speak the same dialect, retain the more complex organisation of the Kwakiutl; but they have mainly maternal descent.

It is an interesting fact that a great many of the clan legends of the Kwakiutl are very insignificant, while others have important mythical bearings by which they are closely connected with the mythological concepts of the people. It seems probable that clan legends first found their way to the Kwakiutl by marriages with women of northern tribes, whose traditions, according to the customs of the northern region, were inherited by the woman's children. This must have given an important 69

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inpulse to acquiring or inventing similar traditions on the part of other clans, since their possession was undoubtedly considered a prestige. Probably the fastings of young men and the subsequent hallucinations have furnished the greater part of the material for these legends.

It is necessary to consider at this place a few characteristic traditions which belong to the cannibal society of the tribes of the northern and central parts of the coast. The most widely diffused tradition on this subject seems to have originated among the Hē'iltsuk; but it has spread southward to the Kwakiutl. It is told that a young girl was carried away by the cannibal spirit. Her four brothers searched for her, and with difficulty escaped the pursuing cannibal spirit. Finally, they succeeded in killing him, and his ashes were transformed into mosquitoes. In the course of their visit to their sister the brothers learned the songs and secrets of the cannibal society. This tradition is given in most cases initiated in other ways, one by stealing the cedar-bark ornaments of the bathing cannibal spirit, another one by ascending the sky and obtaining the secrets of the society.

These customs have also spread to the northern neighbours of the $H\bar{e}$ 'iltsuk; the Tsimshian. They have the following tradition in regard to the origin of the society: —A hunter pursued a bear, which finally led him into the interior of a rock. Inside he saw people performing the ceremonies of the society, and he was instructed by their chief to repeat the same ceremonies at home. In all the traditions of the Kwakiut the cannibal spirit presides over the society, while he does not appear in the Tsimshian tradition. This shows that different traditions are used for explaining the same ceremonial.

In connection with these facts we will consider the conclusions which were drawn from a consideration of the mythologies of the tribes of British Columbia. We saw that none of these could be considered as the product of a single tribe. All the traditions were full of foreign elements, which it was possible to trace over wide areas. If, therefore, the same ritual is explained by different traditions, we may conclude that the ritual preceded the tradition ; that the former is the primary phenomenon, the latter the secondary.

It seems that the development of the ritual, as well as of the traditions connected with it, is founded in the prestige given by membership in a secret society. There must have developed a desire to become a member of a society, which led, wherever the number of societies was insufficient for the tribe, to the establishment of new ones. It is not meant, of course, that the Indians intentionally invented new traditions, but that the desire stimulated their fancy and excited their mind, and that in this manner, after proper fastings, occasion was given for hallucinations, the material of which was naturally taken from the ideas found among the tribe and its neighbours. Similar phenomena have been treated, from a systematic point of view, by Stoll in his book on Suggestion, and by Tarde in his book on the Laws of Imitation.

It is easily understood how the exciting ceremonial of the cannibal society may have given rise to hallucinations in which a young man thought to see the same spirit under new conditions, and that after his return from the solitude he told his visions. Since the opinion prevailed that the spirit which appeared in this manner had a tondency to reappear to the descendants of the person to whom it once appeared, art of other a prestige. allucinations ads.

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e cannibal pung man that after e opinion tondency appeared, opportunity was given for the formation of a new place in the secret societies. We may assume, therefore, that, psychologically, the development of the complex system of membership in the secret societies must be explained as due to the combined action of the social system and the method of acquiring guardian spirits.

While these considerations may explain the variety of form of the secret societies, and show that the myths on which a ritual is founded are probably secondary, they do not explain the origin of the societies themselves and of the peculiar customs connected with them. There are, however, indications which lead to the opinion that these societies developed from methods of warfare. First of all, i is important to note that the deity Wina'lagyilis of the Kwakiutl presides over the whole ceremonial. This name means 'the one who makes war upon the whole world,' and his spirit controls the mind of the Indians also during the time of war. For this reason the secret societies are in action also on war expeditions, no matter at what senson of the year they may occur. All the idest songs of the secret societies refer to war. The cannibal, as well as the bear dancers and the fool dancers of the Kwakiutl, are considered warriors, and go into ecstasies as soon as an enemy has been killed. All this indicates that originally the secret societies were closely connected with war expeditions.

One thing more must be considered. The customs which we observe to day are evidently the modern development of ancient forms. It is known that the ceremonial cannibalism, which nowadays is the principal part of the whole ceremonial, has been introduced very recently among all the tribes. The Kwakiutl state that this custom was introduced among them not longer than sixty years ago, and that it originated among the Hē'iltsuk[.] We also know that the custom spread from the Hē'iltsuk[.] to the Tsimshian not longer than a hundred and fifty years ago. Therefore there is no doubt that the custom was originally confined to the small territory of the Hē'iltsuk[.] Among the southern tribes the cannibals originally confined themselves to holding with their teeth the heads of enemies which had been cut off.

The form in which the cannibalism spread from the Hé'iltsuk' is mainly the following :—A slave was killed by his owner, then he was torn to pieces and eaten by the cannibals; or pieces of flesh were bitten out of the arms and the chest of people; or, finally, corpses which had been prepared in a particular way were devoured by the cannibals. The first of these customs clearly bears some relation to war. A slave was obtained in war by the relative of a cannibal, and by killing him the owner celebrated the victory before the assembled tribe. It is not possible to prove definitely that the secret societies developed in this manner from customs related to war expeditions, but the close relationship of the two cannot be doubted.

We may say, therefore, that the investigations of the Committee have proved that dissemination of cultural elements has taken place all along the North Pacific coast, and also that the most distant parts of the American continent, and probably even parts of the Old World, have contributed to the growth of the culture of the Indians of British Columbia. This fact shows that we cannot accept the sweeping assertion that sameness of ethnical phenomena is *always* due to the sameness of the working of the human mind, but that it is necessary to consider in all

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anthropological investigations the important element of dissemination of cultural elements.

The decorative art of the Indians of the North Pacific coast differs from the arts of other primitive people in that the process of conventionalisation has not led to the development of geometric designs, but that the ornaments mostly represent animals. It is generally assumed that all the animal representations found on totem poles or on decorations of household utensils and of wearing apparel represent the totems of the various clans. While it is certainly true that in most cases the artists decorate the objects with the totem of the owner, there are a number of cases in which the reason for applying certain animal designs is founded on other considerations. This is very evident in the case of the fish-club, which is used in despatching halibut and other fish before they are hauled into the canoe. Almost all the clubs that I have seen represent the sea-lion or the killer-whale-the two sea animals which are most feared by the Indians, and which kill those animals that are to be killed by means of the club. The idea of giving the club the design of the sea-lion or killer-whale is therefore rather to give it a form appropriate to its function, and perhaps, secondarily, to give it by means of its form great efficiency.

Another instance in which a close relation exists between the function of the object and its design is that of the grease dish. Small grease dishes have almost invariably the shape of the seal, or sometimes that of the sea-lion; that is, of those animals which furnish a vast amount of blubber. Grease of sea animals is considered a sign of wealth. In many cases abundance of food is described by saying that the sea near the houses was covered with the grease of the seal, the sca-lion, and whales. Thus the form of the seal seems to symbolise affinence.

Other grease dishes and food dishes have the form of canoes, and here, I believe, a similar idea has given rise to the form. The canoe symbolises that a canoe load of food is presented to the guests, and that this view is probably correct is indicated by the fact that in his speeches the host often refers to the canoe filled with food which he gives to his guests. The cance form is often modified, and a whole series of types can be established forming the transition between canoe dishes and ordinary trays. Dishes of this sort always bear a conventionalised face at each short end, while the middle part is not decorated. This is analogous to the style of the decoration of the canoe. The design represents almost always the hawk. I am not certain what has given origin to the prevalence of this design. On the whole, the decoration of the canoe is totemistic. It may be that it is only the peculiar manner in which the beak of the hawk is represented which has given rise to the prevalence of this decoration. The upper jaw of the hawk is always shown so that its point reaches the lower jaw and turns back into the mouth. When painted or carved in front view, the beak is indicated by a narrow wedgeshaped strip in the middle of the face, the point of which touches the lower margin of the chin. The sharp bow and stern of a canoe with a profile of a face on each side, when represented on a level or slightly rounded surface, would assume the same shape. Therefore it may be that originally the middle line was not the beak of the hawk, but the foreshortened bow or stern of the canoe. This decoration is so uniform that the explanation given here seems to be very probable.

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On halibut hooks we find very often decorations representing the squid. The reason for selecting this motive must be looked for in the fact that the squid is used for baiting the hooks.

I am not quite certain if the decoration of armour and weapons is totemistic or symbolic. Remarkably many helmets represent the sealion, many daggers the bear, eagle, wolf, and raven, while I have not seen one that represents the killer-whale, although it is one of the ornaments that are most frequently shown on totemistic designs.

I presume this phenomenon may be accounted for by a consideration of the ease with which the conventionalised forms lend themselves to decorating certain parts of implements. It is difficult to imagine how the killer-whale could be represented on the handle of a dagger without impairing its usefulness. On the other hand, the long thin handles of ladles made of the horn of the big horn sheep generally terminate with the head of a raven or of a crane, the beak being the end of the handle. This form was evidently suggested by the slender tip of the horn, which is easily carved in this shape. The same seems to be true in the cases of lances or knives, the blades of which are represented as the long, protruding tongues of animals; but it may be that in this case there is a complex action of a belief in the supernatural power of the tongue, and in the suggestions which the decorator received from the shape of the object he desired to decorate.

To sum up, it seems that there are a great number of cases of decoration which cannot be considered totemistic, but which are either symbolic or suggested by the shape of the object to be decorated. It seems likely that totemism was the most powerful incentive in developing the art of the natives of the North Pacific coast; but the desire to decorate in certain conventional forms once established, these forms were applied in cases in which there was no reason and no intention of using the totemistic mark. The thoughts of the artists were influenced by considerations foreign to the idea of totemism. This is one of the numerous ethnological phenomena which, although apparently simple, cannot be explained psychologically from a single cause, but are due to several factors.

The treatment of the animal design is very peculiar. We may distinguish two principles which govern the form of representation: First, the animal is characterised by a number of symbols; secondly, the artist does not endeavour to render a perspective view of the animal, but rather to show the whole animal.

The first of these principles is probably founded largely on the difficulty encountered in designing realistic representations of various animals which would be clearly recognised as specific animals. For this reason the most characteristic peculiarities of each species become the symbols by which it is recognised. Thus the beaver is always symbolised by two large incisors and a scaly tail; the dog-fish, by an elongated forehead, a mouth with depressed corners, and five curved lines (the gills) on each cheek; the killer-whale, by its tail, flippers, and its large dorsal fin; the sculpin, by two spines which rise over the forehead; the hawk, by a large beak, which is turned backward so that it touches the chin. Probably all these symbols were originally applied to charact rise a portion of a quadruped, bird, or fish; but in course of time they zane to be considered as sufficient to call to mind the form of the whole animal. We find, therefore, that gradually the symbols were to a great extent substituted for representations of the whole animal. A dorsal fin worn on the blanket of a dancer, or painted on his face, indicates that the person so decorated personates the killer-whale. A strongly curved beak painted on a gambling-stick symbolises that the stick is meant to represent the thunder-bird. A protruding tongue painted on the chin symbolises the bear.

The second principle seems to be quite opposed to the first one. When the artist decorates any object with the representation of an animal, he distorts and dissects the animal in such a way as to show the whole body on the decorative field; but a closer examination of this tendency proves that it originates mainly in the necessity felt by the artist of introducing all the symbols, which are distributed over the whole body of the animal, in the decoration. To give a few instances, bracelets are decorated in such a way that the animal is split along its back, and then represented in such a manner as to make it appear as though the arm were pushed through the opening. On tattooings the animals are shown as split through along their backs or along their chests, and then flattened out, so that a symmetrical design results. Carvings on totem poles must be interpreted in the same way, the animal being represented as bisected along the rear side of the totem pole, and extended so that the two margins of the cut appear on the borders of the carved portion of the pole. The distortion and section of animals is nowhere carried further than in representations on boxes, on slate dishes, and on Chilcat blankets; but in all these decorations we recognise the endeavour to bring such forms of the animal into view as are essential for an understanding of the designthat is to say, all those parts of the animal are represented which serve as its symbols.

So far as I am aware, the process of conventionalising has not led to the formation of geometrical designs, which are exceedingly rare on decorated objects from the North Pacific coast. They are found only in certain kinds of basket work and in mattings.

Finally, it may be well to add a brief explanation of the economic system prevailing among these Indians, which was fully set forth in the Fifth Report of the Committee. This system finds its expression in the so-called 'potlatch.' The meaning of this custom has been much misunderstood, and the recent enactment of a law making the potlatch a criminal offence is probably in great measure due to a misconception in regard to its meaning.

The economic system of the Indians of British Columbia is largely based on credit, just as much as that of civilised communities. In all his undertakings the Indian relies on the help of his friends. He promises to pay them for this help at a later date. If the help furnished consisted in valuables, which are measured by the Indians by blankets as we measure them by money, he promises to repay the amount so loaned with interest. The Indian has no system of writing, and therefore, in order to give security to the transaction, it is performed publicly. The contracting of debts, on the one hand, and the paying of debts, on the other, is the potlatch. This economic system has developed to such an extent that the capital possessed by all the individuals of the tribe combined exceeds many times the actual amount of cash that exists; that is to say, the conditions are quite analogous to those prevailing in our community: if we want to call in all our outstanding debts, it is found that there is not worn on the the person so beak painted represent the symbolises the

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It must be clearly understood that an Indian who invites all his friends and neighbours to a great potlatch, and apparently squanders all the accumulated results of long years of labour, has two things in his mind which we cannot but acknowledge as wise and worthy of praise. His first object is to pay his debts. This is done publicly and with much ceremony, as a matter of record. His second object is to invest the fruits of his labour so that the greatest benefit will accrue from them for himself as well as for his children. The recipients of gifts at this festival receive these as loans, which they utilise in their present undertakings, but after the lapse of several years they must repay them with interest to the giver or to his heir. Thus the potlatch comes to be considered by the Indians as a means of insuring the well-being of their children if they should be left orphans while still young. It is, we might say, their life insurance.

The sudden abolition of this system—which in all its intricacies is very difficult to understand, but the main points of which were set forth in the preceding remarks—destroys therefore all the accumulated capital of the Indians. It undoes the carefully planned life-work of the present generation, exposes them to need in their old age, and leaves the orphans unprovided for. What wonder that it should be resisted with vigour by the best class of Indians, and that only the lazy should support it, because it relieves them of the duty of paying their debts ?

But it will be said that the cruel coremonies connected with some of the festivals make their discontinuance necessary. An intimate knowledge of the Indian character leads me to consider that any interference with these very ceremonials is unadvisable. They are so intimately connected with all that is sacred to the Indian that their forced discontinuance will tend to destroy what moral steadiness is left to him. It was during these ceremonies that I heard the old men of the tribe exhort the young to mend their ways; that they held up to reprobation the young women who had gone to Victoria to lead a life of shame; and that they earnestly discussed the question of requesting the Indian Agents to help them in their endeavour to bring the young back to the good, moral life of old.

And the cruelty of the ceremonial exists alone in the fancy of those who know of it only by the exaggerated descriptions of travellers. In olden times it was a war coremony, and captives were killed and even devoured; but with the encroachment of civilisation the horrors of the old ceremonies have died out. An old chief has been heard addressing his people thus: 'How lovely is our time! No longer do we go in fear of each other; peace is everywhere. No longer is there the strife of battle; we only try to outdo each other in the potlatch,' meaning that each tries to invest his property in the most profitable manner, and particularly that they vie with each other in honourably repaying their debts.

The ceremony of the present day is no more and no less than a time of general amusement, which is expected with much pleasure by young and old. But enough of its old sacredness remains to give the Indian, during the time of its celebration, an aspect of dignity which he lacks at other times. The lingering survivals of the old ceremonies will die out quickly, and the remainder is a harmless amusement that we should be slow to take away from the native, who is struggling against the overpowerful influence of civilisation. m

Papers based largely on Investigations carried on for the Committee on the North-Western Tribes of Canada.

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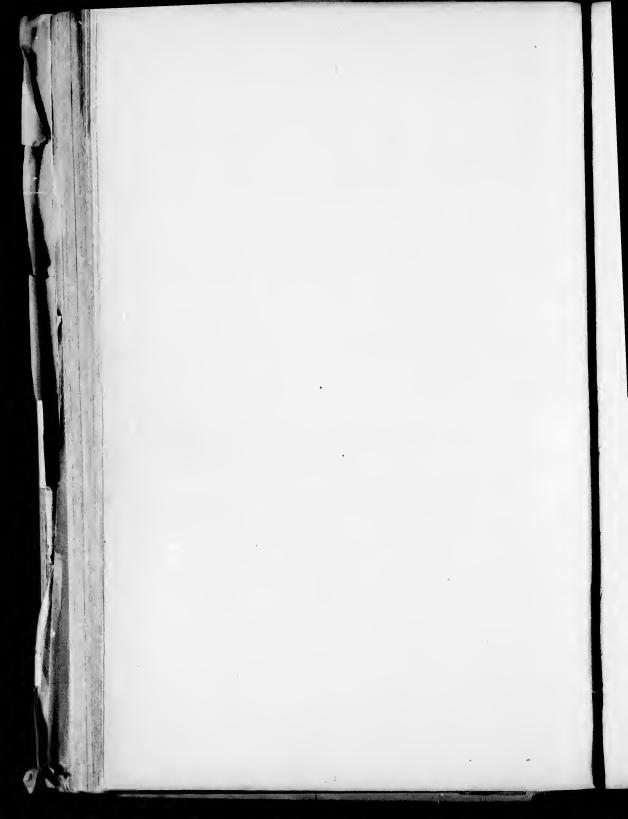
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² Son of No. 16; measured with shoes on spruce boughs.

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68th Report, Brit. Assoc., 1898.]

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1. Stlatliumn.

a. Pemberton Meadows, Anderson La

Number	1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18	19	20	21	22	23	24	25
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Observer	F.	F.	F.	F.	F.	·	F .	F.	F.	F .	F.	F.	F.	F.	F.	F.	F.	F.	F.	В.	F.	F.	F.	F.	F.
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² Son of No. 16; measured with shoes on spruce boughs.

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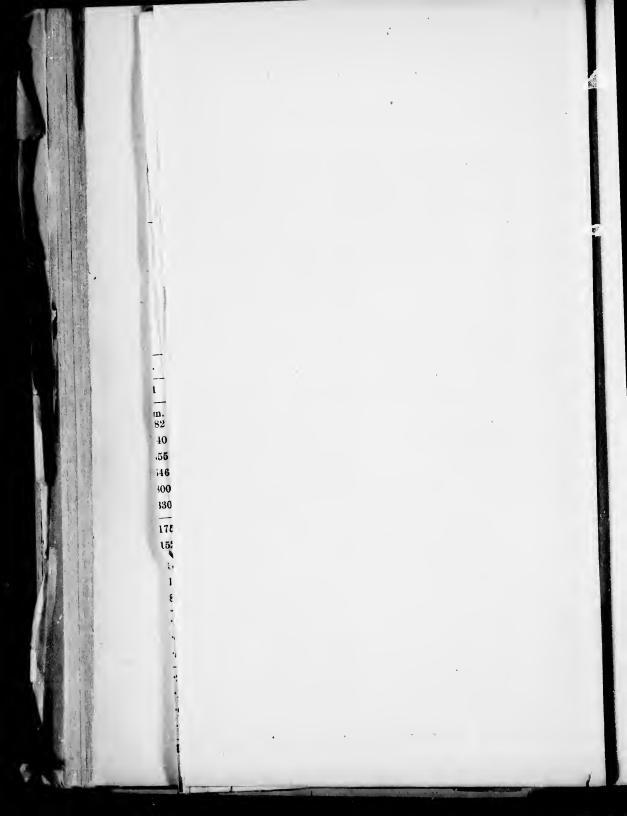
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0	60	65	65	65	70	70	80	80	8	2	18	20	22	23	27	23	28	28	29	29	30	3	33	35	40	50	50	50	55	60	70
m. 76 22)3)3)3)8 (8	mm. 1,582 ° 1,299 572 1,681 828 365	mm. - - -	mm. 1,641 ³ 1,320 609 1,685 830? 367	mm. 1,536 1,266 523 1,691 816 380	nım. 1,475 1,182 500 1,570 770 350 ?	mm. 1,532 1,263 570 1,618 778 380		min.	ma 1,2: 1,C 5:15 1,316 693 280	m. 46 * 14 49 23 ? 46	mm. 1,582 1,322 686 1,622 789 378	mm. 1,520 1,258 695 1,592 839 355	mm 1,504 1,212 644 1,544 766 325	mm. 1,493 1,223 650 1,508 760 364	nim, 1,585 1,323 718 1,605 838 352	1,538	mm. 1,491 1,212 629 1,558 787 359	mm. 1,577 1,305 722 1,623 811 374	mm 1,517 1,282 709 1,679 793 353	mm. 1,498 * 1,233 655 1,515 768 348	666	m. 1,4:3 1,2) 6 1,5 0 3	mm. 1,598 1,334 707 1,604 789 350	mm. 1,621 1,317 699 1,666 836 385	mm, 1,479 1,239 633 1,526 791 348	mm. 1,556 1 326 / 756 1,868 500 310 /	mm. 1,507 1,538 592 1,522 799	mm. 1,463 1,186 636 1,461 714 323	mm. 1,174 1,226 688 1,588 762 330	mm. 1,429	m.n. 1,348 1,096 631 1,161 666 345
2 33 0 -1 0 9	188 161 113 153 55 39	190 164 122 155 57 42	179 156 119 148 57 37	170 148 117 146 53 43	183 157 106 149 52 40	181 143 110 143 51 41	182 156 110 144 54 43	176 157 107 140 52 43	160 150 91 12 41 84	90 28 42 32	175 148 115 139 47 32	183 157 112 138 43 34	169 154 109 136 49 31	176 147 102 139 41 36	188 157 111 144 41 41	186 151 106 142 40 41	173 147 106 135 49 37	174 151 108 146 48 37	183 149 112 138 46 39	175 161 110 131 14 38	177 15: 10! 134 46 32	52	181 147 113 138 49 34	184 146 120 142 44 38	173 161 111 147 49 39	181 148 106 145·5 50 38	180 157 124 147 56 38	172 157 120 139 55 32	178 155 101 137 49 37	183 151 118 112 53 39	183 148 139 110 53 36
•0 •4 •0	85·7 73·9 70·9	86·3 78·7 73·7	87·2 80·4 64·9	87·1 80·1 81·1	85-8 71-1 76-9	79·0 76·9 80·4	85·7 76·4 79·6	89·2 76·4 82·7	92·1 72·4 82·9	00·6 70·8 76·2	84.6 82.7 68.1	85 8 81·2 79·1	91-1 80-1 63-3	83·5 73·1 87·8	83-5 77-1 1-3-2	82-8 74-6 102-5	85-5 78-5 75-5	88·5 71·0 77·1	81-1 81-2 81-8	92-0 82-1 86-4	86·4 81·3 69·6	Sec	81·2 81·9 77·3	79-3 84-5 86-4	94·8 75·5 79 6	81 8 72·8 76 0	87·2 84·4 67·9	91·3 86·3 58·2	87·1 73·7 75·5	80-3 83-1 75-6	80 9 79-2 67 9
5 4 1 3	46.0 106.3 52.4 23.1		43·4 102·7 50·6? 22·4	53·0 24·7	52·4 23·8	45·3 105·6 50·8 2·1·8 of No.		 	58·3 91·5	45.5 07.6 ? 23.4	43·4 102·5 49·9 23·6	45.7 104.7 55.2 23.4	42·9 102·7 51·1 21 7	43.6 101.0 51.0 24.4	45.4 101.3 53.0 22.3	44 0 103.6 50.8 20.9	42.2 104.5 52.8 23.5	45.7 102.9 51.3 23.7	23.8		43.2 1011 525 214 with sl		44.2 100 4 49 3 21.9	43.1 102.8 51.6 23.8	42.8 103.2 53.4 23.5	48.5 ? 107.2 51.3 19.9 ?	39.2 101.0 52.9 23.9	43.6 100.0 51.0 22.1	46-8 107-8 51-8 22-4	48-0 107-7 50-6 23-6	46·7 108 6 19·3 25·6

f No. 1.

* Father of No. 1; measured with sht n spruce boughs.

* Father of No. 41.



b.]

North-Western Tribes of Canada. 2

3		97	98	99	100	101	102	103	104	105
;		Stuwitlka'tkoa	Anne	Annie	Adèle	K'stônī'nek	Elizabeth	Sā'ltkoa	Aline	Caroline
יםאיע אאחונת		Bridge River	Bridge River	Fountain	Fountain	Fountain	Fountain	Fountain	Lillooet	Lillooet
В.		B .	F.	B.	В.	<u>В.</u>	<u>В.</u>	В.	F.	В.
60		40	60	60	60	60	65	65	70	70
1m. 586	10	mm. 1,570	mm. 1,328	mm. 1,487	mm. 1,517	mm.	mm. 1,480	mm. 1,492	mm, 1,480	mm
,322	17	1,274	1,056	1,205	1,241	1,563 1,281	1,226	1,452	1,194	_
748	4	662	584	675	671	667	634	654	676	
,733	11	1,560	1,375	1,571	1,555	1,560	1,456	1,508	1,545	-
815	15	866	708	764	793	792	760	746	720	
369	4	372	295	340	319	348	313	336	332	-
195	36	186	164	176	183	190	178	182	180	189
158	;9	150	153	151	148	159	153	155	148	15
119	.9	118	101	109	114	113	126	114	113	10
153	19	142	133	140	140	150	144	141	143	14
54	51	45	45	52	45	54	54	52	48	50
44	32	37	36	35	33	44	37	38	41	40
81·0	·5	80.6	93-3	85.8	80.9	83.7	86.0	85.2	82.2	81.4
77.8	1.9	83.1	75.9	77.9	81.4	75.3	87.5	80 9	79.0	75.3
81.5	•7	82.2	80.0	67.3	73·3	81.5	68 5	73.1	85.4	80 (
17.1	1.5	42.2	43.9	45.3	44.1	42.8	42.8	43.9	45.7	
)9·2	9·0	99.4	103.6	105.6	102.5	100.0	-	101-1	104.4	-
51.3	3.9	55.2	53.2	51.3	52·2	50.8	51.4	50.1	48.6	-
23.2	22	23.7	22.2	22.8	21.0	22.3	21.1	22.6	22.4	-

B. 58 mm. 1,640 1,333 735 1,696 .807 і 1 369) 178 3 155 0 118 148 7 11 53 42 13 1 87.0 .•6 79.7 1.3 **79**·2 1.5 44.9 5.6 103.4 1.2 49.2 1.3 22.5

No.

Mother of No. 56

1. Stlatliumn (continued). b. Lillooet, Bridge River, Fountain, Par

											•			•					-			1			
												I. Ma	les												
Number	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70		74	75	73	77	78	79
Name	Jacob	Hyacinth	Stanislas	Hyacinthe	Joachim	Stephen	Tubil	Jamie Donald	Johany	Patrick	Henry Audrew	Samson	Sknncto'aq	Charlie	KEntu'qEn	Jackson	Chief Jimmy	John		Tlgape'ê	Capt. Charlie	Pēpayâ'	Celestine	Agnes	Therese
Tribe	Lillooet	Lillooet	Lillooet	Lillooet	Lillooet	Lillooet	M. Stlaqá'yuq F. Lillooet	Fountain	Bridge River	Fountain	F. Ntlakya'pamuq M. Lillooet	Lillooet	Bridge River	Fountain	Bridge River	Lillooet	Lillooet	Lillooet	bridge mrea	Bridge River	Lillooet	Bridge River	Fountain	Fountain	Fountain
Observer		F.	F.		F.	B	B.	B.	B.	В.	 B.	В.	B.	 B.	В.	B.	 B.	В.	8.	B,	B .	В.	B.	B.	Г
Age	7	7	9	9	11	11	131	20	20	23	28	35	35	40	40	40	40	40	60	60	60	70	5	8	1
Height standing	mm. 1,204 958 510 1,230 593 261 174 157 99 127 42 34	mm, 1,160 926 490 1,156 596 254 168 152 101 125 40 31	mm. 1,275 1,007 567 1,311 650 298 176 160 104 127 50 38	mm. 1,203 960 522 1,212 622 266 170 153 105 126 42 31	mm. 1,348 1,080 578 1,380 698 294 173 155 105 130 48 38	mm. 1,296 ² 1,033 550 1,306 704 294 172 149 102 131 44 34	mm. 1,453 3 1,190 658 1,531 736 312 187 145 118 128 51 32	mm, 1,712 1,398 775 1,813 920 391 182 158 120 151 50 42	mm. 1,603 1,320 715 1,661 853 380 179 162 126 148 52 38	mm. 1,774 1,451 815 1,922 923 408 191 167 123 153 55 39	1,601 1,309 698 1,666 886 402 180 151 118 138 51 38	mm. 1,645 1,738 835 382 187 156 119 150 55 33	mm. 1,603 1,340 712 1,654 840 386 189 162 118 156 54 40	mm. 1,631 1,324 725 1,679 850 368 192 157 123 141 56 38	mm. 1,569 1,266 691 1,650 8∂1 385 182 147 111 139 50 43	mm. 1,607 1,294 709 1,630 375 363 190 163 129 149 57 39	mm. 1,6254 1,332 712 1,720 863 396 192 154 123 146 57 34	mm. 1,670* 1,354 711 1,718 908 384 188 159 130 147 57 35	r am. 1 586 1 322 748 1 ,733 815 369 194 154 11 15 5 4	400 192 192 193 15 119 119 15 4 5	828 355 1 157 9 115 0 155 4 51 4 31	187 150 121 144 7 65 7 38	144 9 11 3 3 3 2	641 255 1 15 3 13 1 10 9 11 8 4 8 2	4 1,4 2 3 1,4 5 5 8 7 7 59 91 16 16 12 225
Length-breadth index	90·2 78·0 81·0 42·5	90·5 80·8 77·5 42·2	90·9 81·9 76·0 44·6	90 0 83·3 73·8 43·5	89-6 80-8 79-2 42-8	86·6 77·9 77·3 42·3	77-5 92-2 62-7 45-4	86·8 79·5 84·0 45·3	90·5 85·1 73·1 44·7	87·4 80·4 70·9 46·0	83·9 85·5 74·5 43·6	83·4 79·3 69·1	85·7 75·6 74·1 44·5	81·8 87·2 67·9 44·5	80·8 79·9 86·0 44·0	85·8 86·6 68·4 44·0	80·2 84·2 59·6 43·7	84.6 88.4 61.4 42.6	8 81 8 77 77 81 44 47	8 79 •5 81	·3 75· ·5 64·	2 84 ⁻¹ 9 69 ⁻	0 76 1 73 8 42	·5 87 ·7 59 ·2 42	9-5 7-1 9-5 2-9
Index of finger-reach Index of height sitting . Index of width of shoulders .	102 2 49·4 21·8	99·7 51 4 21·9	102-8 51-2 23-5	100-8 51-8 22-2	102·4 51·7 21·8	100·8 54·2 22·6	105·4 50·8 21·5	105·9 53·8 22·9	103·6 53·3 23·8	108·4 52 1 23·0	103·9 55·4 25·1	105·6 50·6 23·2	103·2 52·5 24·1	102-9 52-1 22-6	105·2 51·2 24·5	101·4 54·3 22·5	105·8 53·0 24·3	102·9 54·7 23·1	104-09 52-51 24-23	2 109 3 50	-7 104 -4 53 -5 22	1 51	5 51	19 54 18 21	9·4 5·1 2·1 Fath

WALL AND A DESCRIPTION OF THE OWNER.

1. Stlatliumu (continued).

															11.	Female	8													
75	73	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Capt. Charlie	Pēpayâ'	Celestine	Agnes	Therese	Louise	Nancy	Lucy	Mathilde	Rosalie	Francisca	Sophie	Lacy	Angelique	Atsiqa'a	Helena	Ethel	Célestine	Susanne	Cécile	Pauline	Louise	Stuwitlka'tkoa	Anne	Annie	Adèle	K'stônl'nek	Elizabeth	Sā'ltkoa	Aline	Caroline
Lillooet	Bridge River	Fountain	Fountain	Fountain	Fountain	Fountain	Bridge River	Fountain	Fountain	Pavilion	Fountain	Fountain	Fountain	Bridge River	Pavilion	Bridge Itiver	Lillooet	Lillooet	Bridge River	Bridge River	Fountain	Bridge River	Bridge River	Fonntain	Fountain	Fountain	Fountain	Fountain	Lillooet	Lillooet
B.	В.	В.	B.	в.	B.	В.	F.	В.	B.	B.	В.	B ,	В.	В.	в.	В.	В.	В.	B.	F.	В,	B.	F.	B.	В.	В.	в.	В.	F.	В.
60	70	5	8	12	13	14	15	16	18	20	20	20	22	22	22	23	25	26	30	30	35	-10	60	60	60	60	65	65	70	70
mm. 1,565	mm. 1,643	mm. 974	mm, 1,174	mm. 1,284	mm. 1,528	mm. 1,520	mm. 1,469	mm. 1,623	mm. 1,570	mm. 1,552	mm. 1,550	mm. 1,470	mm. 1,532	mm. 1,533	mm. 1,606	mm. 1,532 ⁷	mm. 1,575	mm. 1,558*	mm. 1,503	mm. 1,494	mm. 1,550	mm. 1,570	mm. 1,328	mm. 1,487	mm. 1,517	mm. 1,563	mm. 1,480	mm. 1,492	mm. 1,480	mm.
1,260	1,376	747	948	1,030	1,243	1,020	1,182		1,319	1,250	1,296	1,200	1,276	1,282		1,280	1,320	1,282	1,252	1,238	1,297	1,274		1,205		1,281	1,226	1,229	1,194	
700	735	411	502	569	662	687	640	712	681	693	693	651	688	672	675	697	716	689	689	618	674	662	584	675	671	667	634	654	676	-
1,639	1,681	965	1,363	1,307	1,577	1,583	1,515	1,675	1,602	1,590	1606	1,548	1,617	1,603		1,600	1,616	1,614	1,600	1,485	1,581	1,560	1,375	1,571	1,555	1,560	1,456	1,508	1,545	-
828	845	525	615	690	793	785	749	870	827	780	807	764	813	823?	831	808	794	804	774	808	835	866	708	761 340	793 319	792 318	760 313	746 336	720 332	-
355	344	222	258	286	330	342	329	375	356	358	346	345	369	316	370	360	382	380	338	336	344	372	295							
185	187	164	157	166	181	177	168	185	172	185	181	174	178	176	181	181	168	181	179	173	186	186	164	176	183	190	178 153	182 155	180 148	189 154
157 115	150 121	148 91	139 101	141 101	150 112	153 108	146	156 119	155 109	155 116	154 112	153 105	157 107	149 111	149 117	149 117	146 108	156 118	148 113	150 112	159 119	150 118	153 101	151 109	148 114	159 113	126	114	113	109
153	144	119	116	123	133	131	135	141	144	138	143	138	144.5	140	134	140	135	142	141	139	149	112	133	140	140	150	144	141	143	144
57	65	38	42	46	41	52	46	51	44	46	46	42	42	46	48	49	39	45	46	49	51	45	15	52	45	54	54	52	48	50
37	38	28	25	26	32	33	36	39	37	36	36	35	36	34	33	33	34	34	36	36	32	37	36	35	33	44	37	38	41	40
84.9	80.2	90.2	88-5	84.9	8.3-9	86.4	88.0	84.3	90.1	83.8	85.1	89.7	88.2	84.7	82.3	82.3	86.9	86.2	82.7	86.7	85.5	80.6	93 3	85.8	80.9	83.7	86.0	85.2	82.2	81.5
75.2	84.0	76.5	87.1	82.1	81.2	82.4	84.4	81.4	75.7	84.1	78-3	76.1	74.1	79-3	87.3	83.6	80.0	83.1	80.1	80.6	79.9	83.1	75.9	77.9	81.4	75.3	87.5	80.9	79-0	75.7
64.9	69-1	73.7	59.5	56'5	79:7	63.2	78.2	76.5	84.1	78.3	78.3	83.3	85.7	74.0	68·8	67-4	87.2	75.6	78.3	73 5	62.7	82.2	80.0	67.3	73-3	81.5	68 5	73-1	85.1	80.0
44.9	44.8	42.2	42.9	44.5	43.3	45.2	43.5	44.0	43.6	44.7	44.7	44.3	45.0	43.9	41.9	45.6	45.6	44.2	45.6	41.5	43.5	42.2	43.9	45.3	44.1	42.8	42.8	43.9	45.7	-
104.7	102.3	990	99-4	101.8	103-2	104-1	103.1	103-2	102.0	102.5	103-6	105.3	105.6	104.6	103.8	104.4	104.5	103.6	106.3	997	102-0	99-4	103.6	105.6	102.5	100.0	-	101-1	104.4	1 -
5 3·1	51.2	5 3·9	65·1	53·9	61.8	51.6	51.0	53.7	52.7	50.3	52·1	52·0	53-1	53.8	51.6	52.8	50.6	51.2	51 ·3	54.2	5S-9	55.2	53.2	51.3	52.2	50.8	51.4	50.1	48.6	-
22.8	21.0	22.8	22.1	22.3	21.6	22.5	22.4	2:1-1	22.7	23.1	22.8	23.5	24.1	20.7	23.0	23.5	24 3	24.4	22.4	22.6	22 2	23.7	32.5	22.8	21.0	22.3	21.1	22.6	22.4	
			• Fat	her of 1	No. 59.				• 0)ne han	l stiff.				1	Daught	er of N	0. 10 (1	1.).				Motl	her of S	No. 56					



[North-Western Tribes of Canada. Tribes.

3

of Canada.

4

		11. Fe	emales		
11	12	13	14	15	16
Andresi	Athanasie	Christine	K.'ēqpā'tkoa	Kultsi'qa	Nicapa'tko
F. Stlä'tliumH M. Stlaqå'yuQ	F. St'ä'tliumH M. Ntlakyapamu@o'e	F. Shuswap M. Stlä'tliumH	F. Shuswap M. Stla'tliumH	 F. <u>4</u> Shuswap <u>4</u> Stlä'tliumн M. Stlä'tliumн 	 F. ¹/₂ Stlävtliumн ¹/₂ Stlemqo'lequmq M. Stlävtliumн
В.	B.		B.	В.	В.
11	19	23	40	45	55
mm. 1,343 1,080 586 1,373 711 284	mm. 1,587 1,285 682 1,643 786 372	mm. 1,553 1,263 690 1,625 794 332	mm. 1,612 1,360 681 1,618 860 328	mm, 1,503 1,220 672 1,612 800 337	mm. 1,592 1,310 662 1,605 793 354
170 149 107 128 45 29	174 147 116 136 48 34	174 147 114 133 48 34	174 143 120 137 54 41	186 148 103 141 47 36	185 157 106 145 46 36
87·6 83·6 64·4	84·5 85·3 70·8	84·5 85·7 70·8	82·1 87·6 75·9	79·6 73·0 76·6	84·8 73·1 78·3
43·7 102·2 53·1	42·9 103·5 49·4	44 ⁵ 104.6 51.2	42·3 100·4 53·4	44·8 107·3 53·3	41.6 100.8 49.9
21.2	23.4	21.4	20.4	22.5	22-3

	54	_	55		56
Toke	THIOP		906		Adam
Williams Lake		Williams Lake		Canoe Creek	
F.		F.		B.	-
55		55		58	-
mm, l,639 l,351 704 ,704 850 375	1,	mm ,578 ,254 708 666 846 853	3 1 1 1,	m m ,640 ,33: 73: ,696 807 369	D B
179 161 110 152 49	1	190 158 120 .47 51		178 155 118 148 53	
42 19·9 2·4		43 3·1		42 7·0 9·7	
5·7 2·9 4·0	44 105	·6	44 103	-	
1·8 2·9	53 22		49 22		

·).

68th Report, Brit. Assoc., 1898.] 1. StlatliumH. c. StlatliumH Halj-bloods.

2. StlatliumH mix

	Ma	les				I	. Males		
Number	1	2	1	2	3	4	5	6	
Name	Dick Terry	Louis	Duncan	Peter	Liniêz	Johnnie Edward	Daniel	Saul	4
Tribe	F. English M. Stlä'tliumH	F. (?) M. Stlä'tliumH	F. Stlä'tliumH M. Carrier	F. Stlä'tliumн M. ½ Shuswap ዿ Stlä'tliumн	F. Shuswap M. Stlå'tliumH	F. § Shuswap § Stlä'tliumH M. § Shuswap	F. Shuswap M. Stlä'tliumH	F. Shuswap M. Stlå'tliumH	F. Shuswan
Observer,	F.	F.	В.	B.	В.	В.	В.	В.	
Age	7	25	9	11	15	20	24	30	
Height standing.Height of shoulder.Length of arm.Finger-reach.Height sitting.Width of shoulders.	mm, 1,1461 901 471 1,160 636 253	mm. 1,592 1,298 671 1,606 864 392	mm. 1,240 — — 635 274	mm. 1,347 1,098 604 1,390 704 297	mm. 1,582 1,294 704 1,659 830 377	mm. 1,702 1,398 718 1,750 900 378	mm. 1,771 1,462 759 1,834 940 410	mm. 1,679 1,390 765 1,764 864 394	n 1, 1,
Length of headBreadth of headHeight of faceBreadth of faceHeight of noseBreadth of nose	176 145 91 122 35 31	184 165 117 147 52 35	170 151 96 127 44 33	177 158 105 138 43 31	185 156 114 139 45 40	182 164 116 151 46 43	191 157 122 149 49 39	186 160 123 149 53 39	
Length-breadth index Facial index Nasal index	82·4 74·6 88·6	89·7 79·6 67·3	88·8 75·6 75·0	89·3 76·1 72·1	84·3 82·0 88·9	90·1 76·8 93·5	82·2 81·9 79·6	86·0 82·6 73·6	8
Index of arm Index of finger-reach Index of height sitting . Index of width of shoulders .	41.0 101.2 55.3 22.0	42·2 100·9 54·3 24·7	 51·2 22·1	44·7 103·2 52·1 22·0	44·6 104·9 52·5 23·9	42·2 102·8 53·0 22·2	42·9 103·6 53·1 23·2	45.5 105.1 51.4 23.5	4 10 1

¹ Son of No. 37 (1. a).

2. StlatliumH mixed with Shuswap and other Tribes.

Males								II. Fe	males		
5	6	7	8	9	10	11	12	13	14	15	16
Daniel	Saul	Billy Bones	Harry	Michel	Qā'tca	Audresi	Athanasie	C'hristine	K''ēqpā'tkoa	Kultsi'qa	Nicapa'tko
F. Shuswap M. Stla'tliumH	F. Shuswap M. Stlå'tliumH	F. Shuswap M. Stlä'tliumH	F. Shuswap M. Stlå'tliumH	F. Shuswap M. Stlä'tliumH	F. Shuswap M. Stlå'tliumH	F. Stlätliumn M. Stlaqa'yuq	F. St'ä'tliumH M. Ntlakyapamuç'ö'e	F. Shuswap M. Stlå'tliumn	F. Shuswap M. Stlä'tliumH	F. <u>1</u> Stlättliumн M. Stlättliumн	F. <u>4</u> StläufiumH <u>5</u> Stlemqo'lequmq M. Stlä'tliumH
В.	В.	B.	В.	В.	B.	В.	B.		B.	В.	В.
24	30	30	40	65	70	11	19	23	40	45	55
mm. 1,771 1,462	mm. 1,679 1,390	mm. 1,603 1,290	mm. 1,609 1,293	mm. 	mm 1,495 ² 1,222	mm. 1,343 1,080	mm. 1,587 1,285	mm. 1,553 1,263	mm. 1,612 1,360	mm. 1,503 1,220	mm. 1,592 1,310
759	765	682	677	_	686	586	682	690	681	672	662
1,834 940	1,764	1,627	1,645		1,586	1,373	1,643	1,625	1,618	1,612	1,605
540 410	864 394	880 382	873 385	350	783 350	711 284	786 372	794 332	860 328	800 337	793 354
191 157	186 160	185 163	191	187	186	170	174	174	174	186	185
122	123	131	157 119	156 132	156 111	149 107	147 116	147 114	143 120	148 103	157 106
149	149	145	145	152	146	107	136	133	120	141	145
49	53	55	51	53	51	45	48	48	54	47	46
39	39	35	39	39	38	29	34	34	41	36	36
82.2	86.0	88.1	82.2	83.4	83.9	87.6	84.2	84.5	82.1	79.6	84.8
81.9	82.6	90.3	82.1	88·0	76.0	83 [.] 6	85.3	85.7	87.6	73·0	73.1
79 ·6	73·6	63·6	76.5	73 .6	74.5	64.4	70.8	70.8	75.9	76.6	78.3
42.9	45.5	42.6	42.0		46.0	43.7	42.9	44.5	42.3	44.8	41.6
103.6	105.1	101.5	102·2		106 [.] 1	102.2	103.5	104.6	100.4	107.3	100.8
53·1	51.4	55·0	54.2	-	52.6	53·1	49.4	51.2	53·4	53.3	49.9
23.2	23·5	23.9	23.9		23.5	21.2	23.4	21.4	20.4	22.5	22.3

² Father of No. 91 (I. 1).

3



20	44	45	46	47	48	49	50	51	52	53	54	55	56
Felix	Samson	Chief William	Tea	Stanislas	Charlie	Jim Pelyon	Alexis	William	Maurice	Abraham	John	Je	Adam
Pavilion	Alkali Lake	Soda Ureek	Canoe Creek	Canoe Creek	Alkali Lake	F. Dog Ureek M. Alkali Lake	Soda Creek	Canoe Creek	High Bar	Canoe Creek	Williams Lake	Williams Lake	Canoe Creek
B.	B .	F.	F .	 B.	F .	В.	F.	F.	 B.	 B.	F .	F.	 B.
20	48	50	50	50	50	50	55	55	55	55	55	55	58
mm. ,703 ,875	am. 544	mm. 1,683 ¹⁰	 mm.	mm. 1,668	mm. 1,640	mm. 1,633	mm, 1,690	mm. 1,662	mm. 1,630	mm. 1,638	mm. 1,639	mm. 1,578	mm 1,64
747	238	1,354	1,333	1,377	1,319	1,340	1,336	1,361	1,336	1,320	1,351	1,254	1,33
,755	683	740	718	746	741	722	764	771	707	700	704	703	73
894	607	1,752	1,708 846	1,717	1,744 830	1,718 864	1,647 852	1,774 863	1,680 854	1,600 822	1,704 850	1,666 846	1,69 80
402	831 373	838 334	370	846 381	391	403	358	375	378	351	375	353	36
192	182		189	185	185	192	186	189	187	191	179	190	17
158	157	183 157	161	159	165	168	155	157	148	151	161	150	15
128	111	118	122	118	117	118	133	127	115	115	110	120	11
144	152	149	154	146	153	158	143	150	147	144	152	147	14
57	53	53	52	49	55	54	56	55	48	53	49	51	5
41	35	39	38	40	42	44	38	40	39	40	42	43	4
3.3	36.2	85.8	85.2	85.9	89.2	87.5	83.3	83.1	79.1	82.2	89.9	83.1	87.
8·9	73·0	79.2	79.2	80.8	76.5	74.7	93·0	84 7	78.2	79.9	72.4	81.6	79.
1.9	36.0	73.6	73·1	81.6	76.4	81.2	67.9	72.7	81.3	75.5	85.7	84.3	79.
3.9	14.4	44.0	43.5	44.7	45.2	44.3	45.2	46.4	43.4	42.7	42.9	44.5	44.
3.0)4.1	104.1	103.6	102.9	106.3	105.2	97.5	106.7	103.1	97.7	104.0	105.6	103.
2.6	54.0	49.9	51.3	50.7	50.6	53·0	50·4	52.0	52.4	50.1	51.8	53.5	49:
3.6	24.2	19.9	22.8	22.8	23.8	24.7	21.2	22.6	23.2	21.4	22.9	22.3	22.

* Father of No. 15.

" Father of No. 81.

Number	· -	1	2	3	4	5	0	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	2
Name		François	Thomas	Edward	Edward	Willie Dixon	Theodore	Ambrose	James	Heary Dixon	Faul	Sandy	Alex	Johnnie	lisel	Antoine	Anton	Stone	Jack	John	Felix	Ta'ngBu	Edward	Nites	EtoEn	Johnson	Siksi	Maurice
Tribe		Williams Lake	Alkali Lake	High Iar	Alkali Lake	Alkali Lake	Soda Creek	Pavilion	Soda Creek	Alkali Lake	Canoe Creek	Soda Creek	Soda Creek	Alkali Lake	F. Canoe Creek M. Alkali Lake	Soda Creek	Alkali Lake	Soda Creek	Dog Creek	Canoe Creek	Favilion	Alkali Lake	Dog Creek	High Bar	Canoe Creek	Alkali Lake	High Bar	Canoe Creek
Observer , , ,	•	B,	В,	В,	B,	в.	В.	В.	11.	B .	В.	в.	В.	В,	В.	F.	В.	F.	B.	В.	В.	<u></u> <u>1</u> 3.	В,	В.	B.	F.	B,	B
Age	· [6	8	8	9	9	10	10	12	12	13	14	14	15	15	16	17	18	20	20	20	21	22	21	26	27	30	32
Height standing Height of shoulder . Length of arm Finger-reach Height sitting Width of shoulders .	. 1	918 514	mm. 1,145 920 507 1,182 651 265	mm. 1,236 960 510 1,203 628 263	mm. 1,246 983 519 1,243 698 275	mm. 1,277 ² 987 541 1,301 698 263	mm. 1,284 ³ 1,023 563 1,326 672 285	mm. 1,347 1,076 573 1,340 677 300	mm. 1,363 4 1,115 620 1,452 705 303	mm. 1,417 5 1,187 636 1,483 778 272	mm. 1,107 1,150 606 1,402 719 304	mm, 1,560* 1,280 706 1,636 834 328	mm, 1,511 1,213 658 1,573 770 289	mm. 1,450 1,181 657 1,504 780 312	mm. 1,512 1,212 670 1,547 798 335	mm. 1,7067 1,408 774 1,786 858 858 362	mm. 1,536 1,245 707 1,665 837 373	nım. 1,659 1,356 753 1,716 875 381	mm. 1,640 1,364 744 1,732 890 367	mm. 1,642 1,330 714 1,713 864 381	mm. 1,503 1,375 747 1,755 894 402	mm. 1,696 1,404 786 1,869 867 406	mm. 1,612 1,318 685 1,606 885 360	mm. 1,730 1,440 735 1,744 908 422	mm. 1,642 1,352 716 	mm. 1,670 1,348 731 1,770 882 421	mm. 1,666 1,370 722 1,697 904 379	mn 1,60 2,37 73 1,69 86 80
Length of head Brendth of head Height of face Brendth of face Height of nose Breadth of nose	:	165 113 96 124 39 32	160 151 93 128 37 34	168 155 103 126 46 34	176 151 96 128 42 31	178 156 110 132 49 35	173 147 99 130 40 36	171 146 104 130 41 34	179 155 101 134 42 36	182 154 109 134 48 85	178 150 103 128 44 32	188 148 114 139 48 37	178 155 114 142 43 37	177 154 111 134 49 38	173 156 108 138 45 38	189 153 121 143 49 38	180 149 117 139 48 41	182 157 115 143 47 40	183 158 120 150 51 42	183 160 115 144 49 42	192 158 128 144 57 41	179 164 124 153 55 42	186 163 119 148 51 44	187 161 130 154 61 42	184 160 118 146 52 37	184 159 120 148 48 37	181 163 124 150 54 40	18 16 12 14 5
Length-breadth index , Facial index , , , , Nasal Index , , , ,	. :	86·7 77·4 82·1	94-3 72-7 91-9	92·8 81·7 73·9	85:8 75:0 73:8	87.6 83.3 71.4	84-9 76-1 90-0	85·4 80·0 82·9	86°0 75°4 85°7	84·6 81·3 72·9	84·2 80·4 72·7	78·7 82·0 77·1	87·0 80·2 86·0	87·0 82·8 77·6	90·1 78·1 84·5	80·9 84·6 77·6	82·7 84·2 85·4	86·2 80·4 85·1	86·3 80·0 82·4	87·4 79·9 85·7	82·3 88·9 71·9	91.6 81.0 76.1	87.6 80.4 86.3	86·1 84·4 68·9	86-9 80-8 71-2	86·4 81·1 77·1	88.6 82.7 74.1	85 81 76
ludex of nrm. Index of finger-reach Index of height sitting. Index of width of shoulders Son	. 10 . 5	51·4 24·1	44.5 103.2 57.1 23.2	41·1 97·3 50·6 21·2	41.5 99.8 55.8 22.0	42·3 101·8 54·5 20·5	44·0 103·3 52·5 22·3	42·4 99·5 50·1 22·2	45.6 106.5 51.8 22.3	43·9 102·5 53·7 18·8	43·0 99·6 51·0 21·6	45·3 104·9 53·5 21·0	43·6 104·1 51·0 19·1	45·3 103·7 53·8 21·5	44-4 202-3 52-8 22-2	45·3 104·7 50·2 21·2	45·9 108·3 54·4 24·2	45·4 108·4 52·7 23·0	45·4 105·6 54·3 22·4	43·5 104·3 52·7 23·2	43-9 103-0 52-6 23-6	46·2 110·2 51·0 23 9	42·5 99·8 55·0 22·4	42·4 100·8 52·4 24·4	43·7 52·4 23·0	43·8 106·0 52·8 25·2	43·2 101·9 54·1 22·7	44 101 51 23

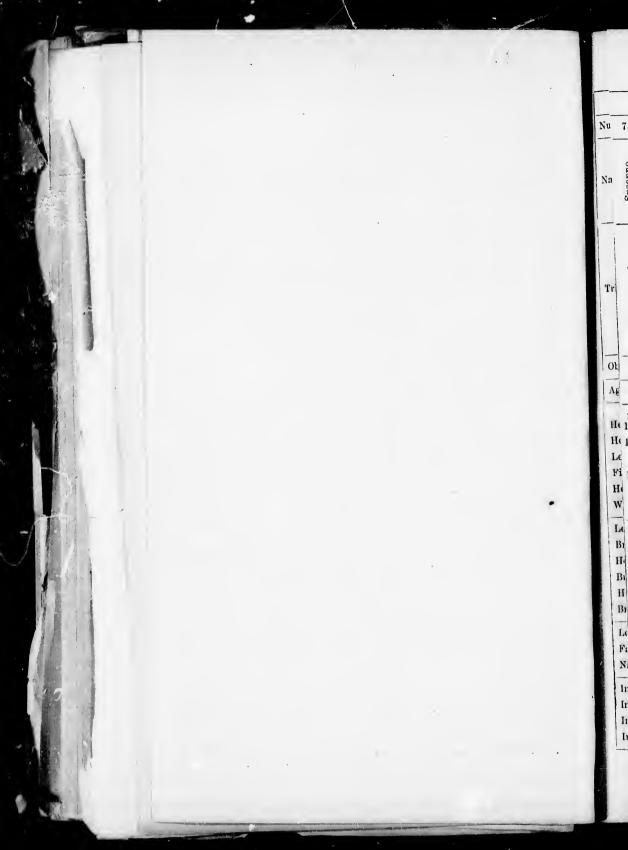
Party in the local day

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					. Male																												
23	24	25	26	27	28	29	30	81	32	83	84	85	86	87	8.7	39	40	41	42	43	41	45	46	47	48	40	50	61	52	53	54	65	58
Niisa	E'toEn	Johnson	Siksi	Maurice	Alec	Capt. Johnnie	Jack	Chief William	Peter	Jean Baptiste	Johnnie	James	Billy Harry	Charlie	K'potn	Wittam	Auguste	Billy	Johnnie	Antoine	Sanison	Chief William	Tea	Stanislas	Charlie	Jim Pelyon	Alexis	William	Maurice	Abraham	John	Joe	Adam
High Bar	Canoe Creek	Alkalî Lake	High Bar	Canoe Creek	Sugar Cane	Canoe Creek	Sugar Cane	Sugar Cane	Alkali Lake	Sugar Cane	F. Dog Creek M. Alkali Lake	High Bar	F. Dog Creek M. Alkali Lake	Soda Creek	Canoe Creek	Alkali Lake	Soda Creek	Alkali Lake	Canoe Creek	Higb Bar	Alkali Lake	Soda Ureek	Canoe Creek	Canoe Creek	Alkalî Lake	F. Dog Creek M. Alkali Lake	Soda Creek	Canoe Creek	High Bar	Canoe Creek	Williams Lake	Williams Lake	Canoe Creek
B.	B.	F.	B.	B.	B.	F.	В.	B.	11.	В.	B.	B.	F.	11.	F.	В.	F.	F.	F.	B.	B.	F.	F.	В.	F.	В.	F.	F,	B,	В,	F.	F.	B.
24	26	27	30	32	35	35	35	86	37	38	40	40	40	40	40	45	45	45	45	45	48	50	50	50	50	50	55	55	53	55	55	55	58
mm. 1,730 1,440 735	mm. 1,642 1,352 716	mm. 1,670 1,348 731	mm. 1,666 1,370 722	mm. 1,665 1,373 734	mm. 1,66J 1,367 737	mm. 1,675 1,340 720	n.m. 1,611 1,322 709	mm. 1,710 1,430 764	mm. 1,560 1,256 710	mm. 1,690 1,7.50 772	nam. 1,617 1,370 737	mm. 1,627 1,325 739	mm. 1,681 * 1,358 757	mm. 1,711 1,355 708	nim. 1,743 1,422 766	mm. 1,637	mm. 1,656 1,339 740	mm. 1,680 1,360 745	mm. 	mm. 1,560 • 1,260 672	mm. 1,511 1,238 683	mm. 1,683 ** 1,354 740	mm. 1,648 (1,333 718	mm. 1,668 1,877 746	mm. 1,640 1,319 741	mm. 1,633 1,340 722		mm. 1,662 1,361 771	mm, 1,630 1,336 707	mm. 1,638 1,320 700			mm. 1,640 1,333 735
i 1,744 i 908 i 422		1,770 882 421	1,697 904 379	1,695 862 398	1,713 893 880	1,739 860 378	1,700 819 869	1,812 942 367	1,697 815 377	1,797 900 406	1,748 859 395	1,699 870 350	1,750 891 895	1,782 929 364	1,780 920 396	1,711 885 874	1,744 866 400	1,796 848 373		1,558 828 336	1,607 831 373	1,752 838 334	1,708 816 370		1,744 830 991	1,718 864 403	1,647 852 358	1,774 863 375	1,080 853 378	1,600 822 351	1,701 850 375		1,696 807 369
i 187 i 161 i 130	184 160 118	184 159 120	184 163 124	187 160 120	186 153 113	187 156 120	184 149 110	184 161 123	187 162 125	196 157 120	190 155 122	189 162 118	192 161 124	191 157 128	182 157 123	189 153 125	187 148 119	185 156 131	187 154 117	181 158 121	182 157 111	183 157 118	189 161 122	185 159 118	185 165 117	192 168 118	186 155 123	189 157 127	187 148 115	191 157 115	179 161 110	190 158 120	178 155 118
154 61 42	146 52 37	148 48 37	150 54 40	148 51 39	147 52 42	148 47 40	138 49 40	148 51 44	146 55 35	151 52 43	151 55 42	155 50 43	153 52 39	153 55 39	145 50 41	142 51 41	145 46 37	144 55 37	143 50 38	151 52 39	152 53 35	149 53 39	154 52 38	146 49 40	153 55 42	158 54 44	143 56 38	150 55 40	147 48 39	144 53 40	152 49 42	147 51 43	148 53 42
i 86°1 84°4 1 68°9	86.9 80.8 71.2	86·4 81·1 77·1	88-6 82-7 74-1	85-6 81-1 76-5	82·3 76·9 80·8	83-4 81-1 85-1	80·9 79·7 81·6	87·5 83·1 86·3	86.6 85.6 63.6	80·1 79·5 82·7	81·5 80·8 76·1	85·7 76·1 86·0	83·8 81·0 75·0	82·2 83·7 70·9	86·2 84·8 82·0	80·9 88·0 80·4	79-1 82-1 80-0	84·3 90·9 67·3	82·3 81·8 76·0	87·3 80·1 75·0	86·2 73·0 66 0	85·8 79·2 73·6	85·2 79·2 73·1	85-9 80-8 81-6	89·2 76·5 76·4	87·5 74·7 81·j	83·3 93·0 67·9	83·1 84 7 72·7	79-1 78 2 81-3	82-2 79-9 75-5	89-9 72-4 85-7	83-1 81-6 84-3	87·0 79·7 79·2
42·4 100·8 52·4 24·4	43·7 52·4 23·0	43.8 106.0 52.8 25.2	43·2 101·9 54·1 22·7	44.0 101.8 51.6 23.8	44·4 103·0 53·8 22·9	42·9 103·8 51·2 22·5	44.0 105.3 52.7 22.9	44·7 106·0 55·1 21·5	45.5 108.8 52.2 24.2	45·7 106·3 53·3 24·0	45·5 108·1 53·0 24·4	45·3 104·4 53·4 21·5	45·1 104·1 53·0 23·5	41·4 102·5 54·3 21·3	44 0 102·1 52·9 22·8	101·5 54·0 22·8	44.6 105.3 52.2 24.1	44·3 106·9 50·5 22·2		43·1 99·9 53·1 21·5	44·4 104·1 54·0 24·2	41.0 104.1 49.9 19.9	43.5 103.6 51.3 22.8	44.7 102.9 50 7 22.8	15-2 106-3 50-6 23-8	44·3 105·2 53·0 24·7	45-2 97-5 50-4 21-2	46·4 106·7 52·0 22·6	43·4 103·1 52·4 23·2	42·7 97·7 50·1 21·4	42.9 104.0 51.8 22.9	44.5 105.6 53.5 22.3	44.9 103.4 49.2 22.5
her of No.				rother c					n of No			1		of No.				• Fath	er of N				Father					Father					

[North-Western Tribes of Canada. 4



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		_											
Nu	78	102	103	104	105	106	107	108	109	110	111	112	113
Na	Susanne	Agathe	Lucy	Cecile	Amy	Madeline	Mary	Anne	Qulēsti'ks	Sarah	Mary	Bridget	Aimée
Tr	Poda Creek	Alkali Lake	Canoe Creek	Canoe Creek	Dog Creek	High Bar	Alkali Lake	Canoe Creek	Canoe Creek	Canoe Creek	Sugar Cane	High Bar	Canoe Creek
OŁ	В.	F.	F.	 F.	В.	в.	F.	В.	<u>—</u> .	<u>.</u>	 F.	<u></u> В.	F.
Λę	12	50	50	50	50	50	55	55	58	60	65	65	70
He	mm. 1,449	mm. 1,589	mm. 1,534	mm. 1,506	mm. 1,470	mm. 1,510	mm. 1,551	mm. 1,520	mm. 1,617	mm. 1,614	mm. 1,495	mm. 1,525	mm.
	1,166	1,289	1,240	1,232	1,208	1,245	1,238	1,234	1,523	1,332	1,226	-	-
Le	649	721	670	664	703	665	708	686	707	751	670	-	-
Fi	1,536	1,638	1,540	1,507	1,570	1,550	1,621	1,571	1,633	1,644	1,520	1,543	-
He	735	866	808	792	769	780	812	800	842	790	750	807	
W	310	345	331	333	318	314	328	330	332	345	312	337	-
Le	177	182	178	172	180	174	178	178	183	175	170	187	190
Bi	154	157	154	145	150	149	154	153	146	155	143	149	155
н	101	117	114	112	110	111	114	115	117	117	108	109	120
Bı	139	144	139	137	135	136	137	139	137	147	138	141	139
H	43	49	50	49	50	45	51	50	54	52	43	52	48
Bi	35	36	37	35	32	35	37	39	38	37	39	35	41
Le	97.0	86.2	86.5	84.3	83.3	85.6	86.5	85 9	79.8	88.6	81.1	79.7	81.5
Fa	87·0 73·4	81.2	82.0	61.8	81.5	81.6	83.2	82.7	85.4	79.6	78.3	77.3	86.3
N	13.4 81.4	73.5	74.0	71.4	64.0	17.8	72.5	78.0	70.4	71.2	90.7	67.3	85.1
In	4.1.8	45.3	43 8	44.0	47.8	44.0	45.7	45.1	43.6	46.6	45.0		
	44.8	103.1	100.4	100.0	106.8	102.6	104.5	103.4	101.0	101.9	101.7	101.2	-
In	50.8	54.5	52.8	52.5	52.3	51.7	52.4	52.6	52.0	49.1	50.3	53.4	-
In	21.4	21.7	21.6	22.1	21.6	20.8	21.2	21.9	20.5	21.4	20.9	22.3	-
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¹⁶ Mother of No. 3.

[North Western Tribes of Canada.

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				I.	Males																							
Number	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	81
Same	Penoit	Charlie	Johnnie	Charlie	Télken	Casimir	Bob	Chief	Thomas	Angelique	Nancy	Susanne	Juliana	Louisa Robbins	Agnes	Eliza	Anastase	Therese	Christine	Ellen	Nellie	Susanne	Katie	Marianne	Marguret	Aberê'n	Pauline	Annie
Tribe	Canoe Creek	High Bar	Alkali Lake	Canoe Creek	Chinney Creck	F. Alkali Lake M. Dog Creek	Williams Lake	Pavilion	F. Sugar Cane M. Alkali Lake	Alkuli Lake	Soda Creek	Williams Lake	Soda Creek	Alkali Lake	Alkali Lake	Sugar Cane	Soda Creek	Alkali Lake	Alkali Lake	Williams Lake	Alkali Lake	Soda Creek	Alkali Lake	Iligh Bar	Canoe Creek	Alkali Lake	Alkali Lake	Alkali Lake
Observer	В.	В.	в.	F.	в,	F.	F.	в,	B,	в.	в.	В,	в.	В,	в.	F.	F.	В.	F.	В.	В,	В.	F.	11.	В,	в.	В,	F.
Age	60	60	60	60	65	65	65	68	75	5	6	7	8	9	9	9	9	10	11	11	12	12	14	15	15	17	17	17
		mm. 1,512 1,185 692	mm. 1,545 1,279 704	1				mm. 1,660 1,362 731	mm. 	mm. 1,018 781 396	mm. 992 754 407	num. 1,084 ¹⁰ 860 451	11177 1,185 ¹¹ 934 514	mm, 1,226 969 521	mm. 1,161 917 487	mm. 1,175 ¹² 921 505	mni. 1,174 ¹³ 945 503	mm. 1,233 967 544		mm. 1,454 1,184 672		mm. 1,149 1,166 649	mm. 1,436 1,142 599	mm. 1 480 1,219 661	mm. 1,553 1,293 704			mm. 1,590 ¹¹ 1,256 706
Finger-reach . . Height sitting . . Width of shoulders . .	901 361	1,683 767 356	1,602 785 339	1,673 833 380	1,703 855 358	1,595 774 368	1,681 816 376	1,692 865 361		998 572 220	985 544 210	1,104 592 227	1,194 636 273	1,245 647 271	1,184 628 261	1,214 652 256	1,219 636 268	1,276 657 273	1,288 670 290	1,522 767 318	1,413 735 310	1,536 735 310	1,410 806 323	1,538 793 342	1,645 822 362	1,590 826 340	3.673 812 372	1,689 826 365
Length of head Breadth of head	189 160	177 159	176 157	193 166	181 151	195 165:5	188 149	193 166	194 164	157 145	159 111	166 148	173 143	172 149	168 144	167 141	170 146	175 158	173 152	174	175 154	177 154	174 153	170 145	180 157	175 146	182 149	185 156
Height of face Breadth of face Height of nose Breadth of nose	120 153 52 41	113 149 55 40	113 150 54 41	122 153 55 41	121 148 51 38	117	117 149 56 41	114 147 59 43	123 157 57 47	79 111 32 31	91 116 39 29	91 121 37 31	93 126 36 33	92 127 37 33	96 122 37 29	98 128 35 34	91 123 39 34	102 134 45 35	102 134 40 34	103 132 46 38	102 139 41 38	102 139 43 35	108 138 47 35	110 132 41 38	114 146 46 38	116 138 45 37	115 137 47 38	121 143 50 35
Length-breadth index Facial index	84 7 78-4	89·8 75·8	89·2 75·3	86 0 79·7	83.1	×5·1 76·5	79°3 78 6	×6·0 77·6	84·5 78·3	92·2 69·3	88·7 78·1	89·1 75·2	82.6 73·8	86-6 72-4	85·7 78·7	84-4 76 6	85·8 73·9	90·2 76-1	87.8 76·1 85·0	85·0 78·0 82·6	88.0 73.4 92.7	87-0 73-4	87·9 78·3	85·2 83·3	87·2 78·1 82·6	83·4 84·1 82·2	83-8 83-9 80-8	84·3 84·6 70.0
Nasal index	816 44·1 52·1	72-7 45-8 111-3 50-8	7549 4547 10347 51.0	74.5 45.5 105.2 52.4	43·2 100·0 50 3	4× 2 10+4 50-6	78.6 13.5 101.1 49.2	72-9 44-0 101-9 52-1	82.5	96·9 39·2 98·0 55·9	74·4 41·0 99·3 51·8	83-8 41-4 101-8 54-8	91·7 43·2 100·7 53·4	89·2 42·4 101·5 52·6	78·4 42·0 101·7 54·1	97·2 42·8 103·3 55·3		77.8 44.2 103.5 53.4	42·8 101·1 52·8	46.3	92.1 44.3 103.6 54.0		73·5 41·6 96·8 56·0	86·4 44·7 103·9 53·6	45-1 105-9	43·8 101·3	453	41-4 106-2 52.0
Index of width of shoulders .	21.0	23.6	22.0	23.9	211	24.1	22.7	21 7		21.6	21.2	21.0	22.9	22 0	22.5	21.7	22.9	22.2	22.8	21.9	22.8	21.4	22-4	23.1	23.4	21.7	21.0	23.0

3. St

3. Stlemaö'leanma (continued).

								1	11. Fen	nales																							
80	81	82	83	81	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113
Marianne	Marguret	Aberê'n	Pauline	Annie	Catherine	Mary	Marguerite	Mathilde	Mary	Margaret	Marianne	Louise	Agathe	Florentine	Cecile	Marianne	Anne	Louise	Julie	Mary	Therese	Agathe	Lucy	Cecile	Amy	Madeline	Mary	Anne	Qulēstī'ks	Sarah	Mary	Bridget	Aîmée
High Bar	Canoe Creek	Alkali Lake	Alkali Lake	Alkali Lake	High Bar	Canoe Creek	Canoe Creck	Alkali Lake	Soda Creek	Alkali Lake	Soda Creek	High Bar	Canoe Creck	High Bar	Alkali Lake	Alkali Lake	High Bar	High Bar	Canoe Creek	Soda Creek	Williams Lake	Alkali Lake	Canoe Creek	Canoe Creek	Dog Creek	High Bar	Alkali Lake	Canoe Creek	Canoe Creek	Canoe Creek	Sugar Cane	High Bar	Canoe Creek
13,	В.	в.	В,	F.	В.	F.	F.	· .	F.	F.	F .		F.	В.	F,	В.	 B.	в	В,	F.	F .	F.	F.	F.	B.	В,	F.	В.		F.	<u></u> .	В,	F.
15	16	17	17	17	18	20	20	22	22	23	25	28	30	35	35	40	-10	40	42	45	45	50	50	50	50	50	55	55	-58	60	65	65	70
am. 480 ,219 661 ,538 793 342	nna. 1,553 1,293 704 1,645 822 362	mm, 1,570 1,280 688 1,590 826 340	1,256 702	mm. 1,590 ¹⁴ 1,256 706 1,689 826 365	mm. 1 615 1,324 7 16 1,703 833 365	mm. 1,5×6 1,288 694 1,620 850 357	mm. 1,581 1,286 717 1,658 825 845	1,204 681	nim. 1,545 ⁴⁵ 1,260 665 1,553 817 336	mm. 1,459 1,170 675 1,538 779 357	mm, 1,622 1,325 709 1,674 855 378	mm. 1,530 1,250 665 1,570 780 354	min. 1,582 1,306 694 1,600 836 348	mm. 1,555 ¹⁰ 1,297 709 1,597 786 358	1,275 679	mm. 1,453 1,168 634 1,501 797 337	mm. 1,505 1,242 625 1,490 836 332	mm. 1,526 1,258 650 1,581 825 375	mm. 1,596 1,310 691 1,638 819 345	mm. 1,619 1,308 785 1,093 821 845	mm. 1,573 1,271 696 1,648 828 375	mm, 1,589 1,289 721 1,638 866 345	mm. 1,534 1,240 670 1,510 808 331	mm, 1,506 1,232 664 1,507 792 333			mm. 1,551 1,238 708 1,621 812 328	mm. 1,520 1,234 686 1,571 800 330	mm, 1,617 1,323 707 1,633 842 332	mm, 1,614 1,332 751 1,611 790 345	mm. 1,195 1,226 670 1,520 750 312	mm. 1,525 	mm.
170 145 110 132 44 38	180 157 114 146 46 38	175 146 116 138 45 37	182 149 145 137 47 38	185 156 121 143 50 35	178 141 108 134 41 33	173 157 111 135 46 34	171 153 107 133 45 33	174 147 106 134 47 33	166 146 105 133 43 30	180 149 112 140 45	184 158 119 147 47 37	181 150 111 143 46 35	* 6 154 118 143 48	183 157 120 135 54 35	181 154 123 145 52 39	174 153 105 139 45 34	190 152 125 141 55 31	181 152 117 111 49 38	169 147 118 136 54 34	171 116 119 134 58 32	183 152 120 150 48 36	182 157 117 144 49 36	178 154 114 139 50 87	172 143 112 137 49 35	180 150 110 135 50 32	174 149 111 136 45 35	178 151 114 137 51 37	178 153 115 139 50 39	183 146 117 137 54 38	175 155 117 117 52 37	170 143 103 138 43 39	187 149 109 141 52 35	190 155 120 139 48 41
85-2 83-3 86-4	*7·2 78·1 82·6	83-4 84-1 82-2	81·8 83·9 80·8	84-3 84-6 70-0	80-8 79-8 75-0	90·7 82·2 73·9	87-9 80-1 73-3	81 5 79·1 70·2	87·9 78·9 69·8	39 82·2 80·0 80·7	85-9 81-0 78 7	82·8 77·6 76·1	35 82·8 82·5 72·9	85-8 88-9 64-8	85.0 84.8 75.0	87·9 75·5 75·6	20 0 88.7 61.8	83-9 83-0 77-6	87.0 86.8 63.0	85-4 88-8 55-2	83-0 80-0 75-0	86·2 81·2 73·5	86.5 82.0 71.0	84-3 81-8 71-4	83·3 81·5 64·0	85-6 81-6 77-8	86-5 83-2 72-5	85 9 82·7 78·0	79·8 85·4 70·4	88.6 79.6 71.2	81:1 78:3 90:7	79-7 77-3 67-3	81.5 86.3 85.4
44.7 03.9 53.6 23.1	45-1 105-9 53-0 23-1	43·8 101·3 52·6 21·7	45 3 107·7 52·4 24·0	44-4 106-2 52 0 23 0	46-3 105-5 51-7 22 7	13.6 102·1 53·5 22.5	45/1 104/9 52/2 21/8	46:3 106:5 54.6 24:1	12·9 100·5 52·7 21·7	43 2 105-4 53-4 24 4	43.8 103.2 52.8 23.3	43 5 102-6 51-0 23-1	43.9 101.1 52.9 22.0	45·7 102·7 50·7 23·1	43.0 101.6 53.6 22.9	43-7 103-3 55-0 23-2	41·4 99·0 55·4 22·0	42.5 103.6 53.9 21.5	43-2 102-6 51-2 21-6	48.5 104.6 50.7 21.3	45·3 104·8 52·7 23·9	45·3 103·1 54·5 21·7	43 8 100·4 52·8 21·6	44 0 100·0 52·5 22·1	47.8 106.8 52.3 21.6	44.0 102.6 51.7 20.8	45.7 104.5 52.4 21.2	45-1 103-4 52-6 21-9	43.6 101.0 52.0 20.5	46.6 101.9 49.1 21.4	45-0 101-7 50-3 20-9	101-2 53-4 22-3	

" Sister of No. 11,

14 Daughter of Ne 11

15 Daughter of No. 7 (IV.)

16 Mother of No. 3,

[North- Western Tribes of Canada. 5





4. Stlemgö'legnma and Other Tribes mixed

5. Stidtema

			1.	Males					II, Fe	emales			I. M	ales						п	Femal	es
Number	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11
Name	Alec	Thomas	IdosoL	Pierre	Alec	Tlm0'lken	Capt. Charlie	Louise	Aline	Louise	Rose	George	Mike	Iom	Narcisse	Helenc	Celestine	Theresa	Maggie	Bridget	Augustine	Julie
Tribe	F. Alkali Lake M. Kenim Lake	F. Aikali Lake M. Kenim Lake	F. Williams Lake M. Kenim Lake	F. Alkali Lake M. Kenim Lake	F. StlEmq0'lEqumq M. Canoe Creek	F. Kenim Lake M. Dog Creek	F. Soda Creek M. Buonaparte	F. Alkali Lake M. Kenim Lake	F. Alkali Lake M. Chilcotin	F. Carrier M. Soda Creek	F. Kenim Lake M. Soda Creek	Kenim Lake	Kenim Lake	Kenim Lake	Kenim Lake	Kenim Lake	Kenim Lake	North Thompson	Kenim Lake	Kenim Lake	North Thompson	North Thompson
Observer ,	F.	B	В.	В.	В.	F.	F.	В.	F.	F.	F.	В,	B.	B.	B.	F.	F.	F.	F.	B.	B,	B.
Age	12	16	16	20	35	40	53	13	33	55	65	10	12	12	13	8	9	9	11,	12	14	16
Height standing Height of shoulder Lenzth of arm Finger-reach Height sitting Width of shoulders	mm. 1,443 ¹ 1,159 673 1,198 728 340	шт. 1,580 1 900 702 1,637 836 378	mm. 1,611 1,318 748 1,764 880 354	mm. 1,630 1,334 751 1,711 893 358	mm. 1,690 1,395 737 1,755 908 378	mm. 1,676 1,384 770 1,752 871 375	mm. 1.656 ² 1,358 740 1.691 839 336	mm. 1,153 1,203 678 1,546 770 343	mm. 1,605 1,312 682 1,602 806 355	mm, 1,567 1,281 706 1,571 755 306	mm. 1,450 1,177 700 1,540 748 320	mm. 1,313 1,060 596 1,353 735 293	mm. 1,285 1,040 595 1,350 696 281	mm. 1,413 ² 1,132 627 1,487 733 323	mm. 1,414 ³ 1,145 622 1,435 753 298	mm. 1,145 905 485 1,174 625 268	mm. 1,255 1,009 554 1,288 705 286	mm. 1,351 1,093 513 1,358 716 340	1		mm. 1,455 1,170 672 1,542 812 347	mm. 1,550 1,244 669 1,554 873 323
Length of head Breadth of head Height of face Breadth of face Iteight of nose Breadth of nose	178 118 111 134 45 28	182 154 108 143 44 38	188 159 122 145 50 41	189 163 121 152 58 42	185 159 115 152 51 37	192 161 119 150 50 39	175 165 120 117 51 38	174 148 105 138 13 13 32	175 157 107 139 46 31	180 146 109 137 52 35	177 150 105 144 48 37	178 155 99 131 41 35	176 150 111 131 47 35	182 159 108 143 39 38	178 158 99 145 41 40	167 148 89 127 37 31	171 150 98 135 40 35	169 151 107 134 44 32		186 152 108 136 40 39	179 146 113 136 47 34	183 153 122 138 51 35
Leugth-breadth index Facial index Nasal index	83-1 82~ 81·5	84-6 75-5 86-4	81·6 81·1 82·0	86-2 81-6 72-1	85·9 75·7 72·6	83·8 79·3 78·0	816 818 818 719	850 764 744	89-7 76-9 73-9	81·1 79·6 67·3	84·7 72.9 77·1	87.0 75.6 79.6	85 2 84·7 74·5	87:9 75:5 97:4	\$8.7 68.3 97.6	88.6 70.1 91.9	87·8 72·6 87·5	89:3 79:9 72:7	3 3 3	81·7 79·4 97·5	81·5 83·1 72·4	83 [.] 6 88 [.] 4 68 [.] 6
h dex of arm Index of finger-reach Index of height sitting Index of width of shoulders .	46.7 103-8 50-5 23-6 n of No.	11+1 103+6 52+9 23+9	16.5 109.5 51.7 22.0	46·1 105·0 51·8 22·0	43°6 103°8 537 22°4	45.8 104.5 51.8 22.3 r of No	$ \begin{array}{c} 11.6 \\ 102.1 \\ 50.5 \\ 20.2 \end{array} $	16·8 106·1 53·1 23·7	12·4 99·8 50·1 22·0	45.0 100*3 48*1 19*5	48·3 106·2 51·6 22·1	$\begin{array}{r} 45.5 \\ 103.0 \\ 56.1 \\ 22.4 \end{array}$	16 1 105 5 54 0 21.8	41.5 105.2 52.0 22.9	41-1 101 5 53-4 21-1	42:5 102:5 54:8 22:5	44.0 102.6 56.0 22.7	40·2 100·6 53·0 25·2 f No. 1.	3 1 P	45·4 103·2 53·2 22·6	46.0 106.0 55.6 23.8 other of	43·2 100·3 56·3 20·8

6

Stī'a	EmQ																6. Ka	mloops	8.								
-	11.	Femal	cs										I. N	lales				-					I1. Fe	emales			
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Maggie	Bridget	Angustine	Julie	Lisette		Celestine	Margaret	Gabriel Narcisse	George Alexis	Cyprian	Alcc Joseph	Harry Duncan	Casimir Michel	Adolph William	Alexander Bob	Allen Edward	Cyprian Antony	Benjamin Thomas	Bob Pavilion	Juliana	Cecile	Mary	Jarianne	Katrine	Julia	Rosalie	Mitnie
Kenim Lake	Kenim Lake	North Thompson	North Thompson	North Thompson	Kenim Lake	Kenim Lake	Kenim Lake	Kamloops	Kamloops	Kamloops	Kamloops	Kamloops	Kanıloops	Kamloops	Kamloops	Kamloops	Kamloops	Kamloops	F. Kamloops M. Buonapurte	Kanloojs	Kamloops	Kamloops	Kamloops	Kamloops	Kamloops	Kamloops	Kanıloops
F.	 B.	 B.			 B,	<u></u> В.	 B.	<u>В.</u>	 B.	F .	 F.	B.	В.	 B.	 B,	 B.	 F.	В.	В.	 B.	<u>В.</u>	В,	F.	 B.	 F.	 F.	 F.
11	12	14	16	18	25		60	10	11	11	13	13	13	14	14	14	15	50 (?)	40	8	9	10	12	12	12	13	16
1	mm. 1,403 1,141 636 1,448 745 317 186 152 108 136 40 39	mm. 1,455 1,170 672 1,542 812 347 179 146 113 136 47 34	mm. 1,550 1,244 669 1,554 873 323 183 153 153 122 138 51 35	min. 1,466 1,184 653 1,529 810 330 185 156 114 143 44 33	mm, 1,559 1,280 710 1,675 833 381 189 151 113 142 48 41	mm. 1,514 1,234 633 1,603 804 357 179 152 110 145 44 40	mm. 1,425 1,175 655 1,470 731 314 171 151 112 134 48 40	mm. 1,238 1,000 520 1,248 663 268 173 155 106 127 44 34	mm, 1,365 1,100 587 1,403 711 303 176 153 112 131 51 33	mm. 1,230 370 556 1,290 290 173 146 97 127 37 31	mm. 1,382 1,118 610 1,144 715 296 183 150 121 134 45 31	mm. 1,136 1,172 634 1,443 755 311 180 147 117 129 49 32	mm. 1,367 1,076 584 1,393 737 294 181 153 105 134 43 33	mm. 1,370 1,105 583 1,373 738 293 171 153 104 136 42 36	mm. 1,426 1,150 614 1,462 754 294 185 155 110 132 48 35	mm. 1,453 1,172 636 1,500 750 331 181 153 114 138 49 36	mm, 1,445 1,132 620 1,507 746 325 175 118 103 128 43 34	mm, 1,700 1,390 768 1,800 885 380 191 158 122 153 56 41	mm. 1,619 1,333 722 1,665 875 388 187 161 130 149 57 38	mm. 1,198 945 521 1,207 638 273 171 145 100 124 42 33	mm. 1,301 1,352 710 301 173 145 101 129 40 30	mm. 1,215 987 521 1,248 681 269 167·5 147 103 127 44 33	mm, 1,332 1,065 609 1,351 182 146 106 126 43 52	mm, 1,362 1,080 604 1,403 735 303 169 145 106 126 42 33	mm. 1,490 1,201 671 1,578 790 344 175 142 117 130 44 35	mm. 1,484 1,214 694 1,560 800 351 180 148 112 135 45 35	mm. 1,538 1,255 722 1,632 830 374 178 151 107 137 47 37
3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	81·7 79·4 97·5 45·4 103·2 53·2 22·6	81·5 83·1 72·4 46·0 106·0 55·6 23·8	83.6 88.4 68.6 43.2 100.3 56.3 20.8	84·3 79·7 75·0 44·4 104·3 55·2 22·4	79.9 79.6 85.4 45.5 107.4 53.4 24.4	84.9 75.9 90.9 41.9 105.9 53.2 23.6	88-3 83-6 83-3 45-8 103-1 51-1 22-0	89.6 83.3 77.4 41.9 100.7 53.5 21.6	86·9 85·5 64·7 42·8 102·8 51·9 22·1	84·4 76·4 - 83·8 45·2 104·8 	81·9 90·3 68·9 46·4 104·5 51·8 21·4	81.6 90.7 65.3 44.0 100.5 52.4 21.6	84.5 78.4 76:7 42.6 101.9 53.8 21.5	89·5 76·4 85·7 42·6 100·2 53·9 21·4	83·8 83·3 72·9 45·0 102·5 52·7 20·6	81.5 82.6 73.5 43.5 103.2 51.7 22.8	84·5 80·4 79·1 42·8 101·3 51·4 22·6	82·7 79·7 73·2 45·2 105·9 52·1 22·4	86·1 87·2 66·7 44·6 102·8 54·0 24·0	84.8 80.6 78.6 13.4 100.7 53.2 22.8	83·8 78·3 75·0 	88.2 81.1 75.0 41.8 100.0 51.5 21.5	80·2 84·1 74·4 46·1 101·4	85.8 84.1 78.6 44.1 103.0 54.0 22.3	81·1 90·0 79·6 45·0 105·9 53·0 23·1	82·2 83·0 77·8 46·9 105·1 54·1 23·7	84·8 78·1 78·7 46·9 106·1 53·9 24·3

³ Brother of No. 6.



	7	-
	Alfred Manuel	
Amamma	M. 2 Kamloops, \$ White	
	В.	
_	14	
.1.2	mm. 1,422 1,135 635 1,493 750 325	3
· · · · · · · · · · · · · · · · · · ·	175 157 111 136 43 37	
* * *	89·8 81·6 86·0	
	44.7 105.0 52.8 22.9	
l	evel g er of 1	

7. Buonaparte.

				1. Male	es				11	. Femal	les					
Number	1	2	3	-1	5	6	7	8	9	10	11	12	1	2	3	
Name	l'ierrez	Hyacinth Jules	Thomas George	Willie Jules	Edward Jules	Spa'laqEn	Edward H y acinth	Alice	Pauline	Agathe	Eliza	Victoria	François	Kristwish	Maurice	David Diama
Tribe	F. Pavilion M. Buonaparte	Deadman's Creek	Deadman's Creek	Deadman's Creek	Deadıran's Creek	F. Pavilion M. Buonaparte	F. Buoraparte M. ¹ / ₂ knonaparte ¹ / ₂ Cawa'qannq	Deadman's Creek	Deadman's Creek	Deadman's Creek	Deadman's Creek	Deadman's Creek	F. Soda Creek M. ¹ / ₄ White, ³ / ₄ Soda Creek	F. ½ Spanish ½ StlEmoõ'lEqumo M. StlEmoõ'lEqumo	F. Soda Creek M. 4 White, 3 Soda Creek	F. & French, & Cree,
Observer	В.	В.	F.	F.	F.	В.	F.	В.	F.	В.	B.	B.	B.	В.	B.	1
Age	4	9	10	13	15	24	34	9	10	11	13	13	6	7	8	
He' ght standing Height of shoulder Length of arm Finger-reach Height sitting Width of shoulders Length of head Breadth of head Height of face	mm. 1,022 755 404 1,064 552 232 161 150 93 124	mm. 1,155 ¹ 901 496 1,163 636 266 173 149 101 122	mm. 1,198 962 527 1,245 633 250 167 149 96 121	mm, 1,378 ² 1,111 627 1,440 730 310 174 150 101 128	nun. 1,427 * 1,142 641 1,506 758 325 173 155 108 133	mm. 1,720 1,405 746 1,800 913 397 189 160 127 149	mun. 1,673 1,330 667 1,727 858 385 181 154 125 141	mm. 1,183 932 510 1,210 663 274 174 145·5 99 126	mm. 1,308 1,042 592 1,328 722 304 166 139 108 127	mm. 1,323 1,058 582 1,382 716 350 171 151 97 131	mm. 1,414 1,113 630 1,500 766 332 176 157 107 138	1,366 1,094 610 1,445 727 318 181 153 106 134	mm. 1,037 803 427 1,014 585 230 168 143 95 121	mm. 1,277 1,033 541 1,288 669 276 174 153 97 133	min. 1,192 930 514 1,205 652 244 174 144 102 123	9 5 1,1 6 2 1 1 1 1
Height of nose	43	45	-11	43	47	53	55	44	43	43	47	43	40	42	46	
Breadth of nose	31	33	32	32	34	41	40	32	32	31	35	34	30	36	32	
Length-breadth index Facial index Nasal index	93·2 75·0 72·1	86·1 82·8 73·3	89·2 79·3 78·0	86·2 78·9 74·4	89.6 81.2 72.4	84·6 85·2 77·4	85·0 88 7 72·7	83·3 78·6 72·7	83·7 85·0 74·4	88·3 74·0 72·1	88.6 77.5 73.5	84.5 79·1 79·1	85·1 78·5 75·0	87·9 72·9 85·7	82·8 82·9 69·6	7
Index of arm Index of finger-reach Index of height sitting . Index of width of shoulders.	39·5 104·1 54·0 22·7	42·8 100·7 54·8 22·9	43·9 103 9 52·8 20·8	$\begin{array}{r} 45 \cdot 4 \\ 104 \cdot 5 \\ 52 \cdot 9 \\ 22 \cdot 5 \end{array}$	$ \begin{array}{r} 44.8 \\ 105.5 \\ 53.0 \\ 22.7 \end{array} $	43·1 104·7 53·1 23·1	39-9 103-2 51-4 23-1	43·2 102·2 56·2 23·2	45.2 101.5 55.1 23.2	44·1 104·4 54·2 26·5	41·7 106·1 51·3 23·5	44.5 105.7 53.1 23.2	41.0 97.5 56.2 22.1	42·3 100·8 52·3 21·6 Brothe		9 5 2

⁶ Brother of No. 5. ¹⁰ Sister of No. 4.

				I. M.	ales									11	. Fema	les				
	2	3	4	õ	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Kristwish	Maurice	David Pierez	André Manuel	Basil Fallardeau	Alfred Manuel	Alec Leonard	Johnnie Peter	Gabriel	Lizzie	Laloise	Augusta	Annie Sam	Maggie Fallardeau	Faustine	Lizzie Ignaz	Catherine	Philomera	Anne	Aimée
M. 4 White, 4 Soda Creek	F. ¹ / ₂ Spanish ¹ / ₂ StlEmqo'lEqumq M. StlEmqo'lEqumq	F. Soda Creek M. 4 White, 3 Soda Creek	F. & French, & Cree, Carrier, & Chilcotin M. Soda Creek	F. Kamloops M. ¹ / ₂ Kamloops, ¹ / ₂ White	F. ¹ / ₃ Shuswap, ¹ / ₃ French M. Shuswap	M. 2 Kamloops, 3 White	F. White M. Shuswap	F. French M. Shuswap	F. French M. Shuswap	4 White, 2 Shuswap	⁴ / ₈ White, ³ / ₈ Shuswap	F. ¹ / ₈ French, ¹ / ₈ Cree, ¹ / ₄ Carrier, ¹ / ₉ Chilcotin M. Soda Creek	White blood $\frac{1}{2}$	F. J. Shuswap, J. French M. Shuswap	4 White, ½ Shuswap	F. English M. Kamloops	White blood	White blood \hat{I}	F. French M. Shuswap	White blood
3.	В.	В.	В.	B.	F.	В.	В,	В.	В.	В.	В.	F.	F.	F.	F.	В.	В.	В.	В.	В,
;	7	8	8	11	13	14	15	23	30	6	9	9	11	11	11	13	14	14	22	?
m. 371 03 27 014 585	mm. 1,277 1,033 541 1,288 669	mm. 1,192 * 930 514 1,205 652	912 501 1,182 665	mm. 1,360 4 1,093 607 1,416 681	nim 1,444 1,16: 669 1,545 75)	mm. 1,422 * 1,135 635 1,193 750	mm. 1,567 1,270 678 1,603 835	mm. 1,737 ⁷ 1,450 705 1,703 877	mm. 1,660 1,336 744 1,760 895	mm. 1,053 * 806 432 1,052 578	mm. 9 	mm. 1,336 ¹⁰ 1,074 600 1,380 702	1000 1000 1000 1000 1000 1000 1000 100	mm. 1,328 ⁴² 1,039 571 1,362 704	mm. 1,368 1,102 602 1,376 739	mm. 1,492 1,208 685 1,573 797	mm. 1,601 ¹³ 1,322 706 1,640 845	mm. 1,510 1,211 530 1,600 97	mm. 1,582 1,290 706 1,645 830	1nm. 1,522 1,255 682 1,603 808
30 68 43 95 21 40 30	276 174 153 97 133 42 36	244 174 144 102 123 46 32	258 176 159 102 133 40 33	299 180 162 105 128 45 34	3)1 177 152 108 123 14. 34	325 175 157 111 136 43 37	347 189 150 115 136 48 35	371 195 152 124 141 52 42	375 189 162 128 152 57 39	231 160 139 91 116 38 27		300 167 154 104 135 38 34	320 177 158 106 136 47 36	292 177 148 100 127 42 34	293 169 144 105 129 46 31	358 181 153 107 141 45 37	353 177 157 112 139 47 36	844 189 146 13 128 47 33	374 182 144 110 140 49 34	331 181 158 108 140 51 36
5·1 8·5 5·0	87·9 72·9 85·7	82·8 82·9 69·6	90·3 76·2 82·5	84·4 82·0 75·5	\$5.8 \$5.7 \$2.9	89·8 81·6 86·0	79·4 84·5 72·9	77·9 88·0 80·8	85·7 84·2 68·4	86·8 78·4 71·1	84·5 75·0 92·1	92·2 77·0 89·5	89·2 77·9 76·6	83·6 78·7 80·9	85·2 81·4 67·4	81·5 75·9 82·2	88·7 80·6 76·6	77·2 88·3 70·2	79·1 78·5 69·4	87·3 77·1 70·6
1.0 7.5 6.2 2.1	42·3 100·8 52·3 21·6	43.2 101.1 54.8 20.5 r of No	99·8 56·4 21·9	44.6 104.1 50.0 22.0	1 41	10 5·0 5 2·8	43.2 102.3 53.2 22.1	40.5 98.0 50.4 21.3	44·8 106·0 53·9 22·6	41·1 100·0 55·0 22·0		44.8 103.3 52.4 22.4	45.0 99.5 52.0 21.8	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	43·9 100·8 72·9 21·4 er of N	$ \begin{array}{c c} 46.0 \\ 105.7 \\ 53.5 \\ 24.0 \\ 0.7 \\ \end{array} $	44·1 102·4 52·8 22·1	46·1 106·0 52·8 22·8	44.7 104.0 52.5 23.7 er of No	$ \begin{array}{c c} 44 \cdot 9 \\ 195 \cdot 3 \\ 53 \cdot 2 \\ 21 \cdot 8 \\ 0. 15. \end{array} $

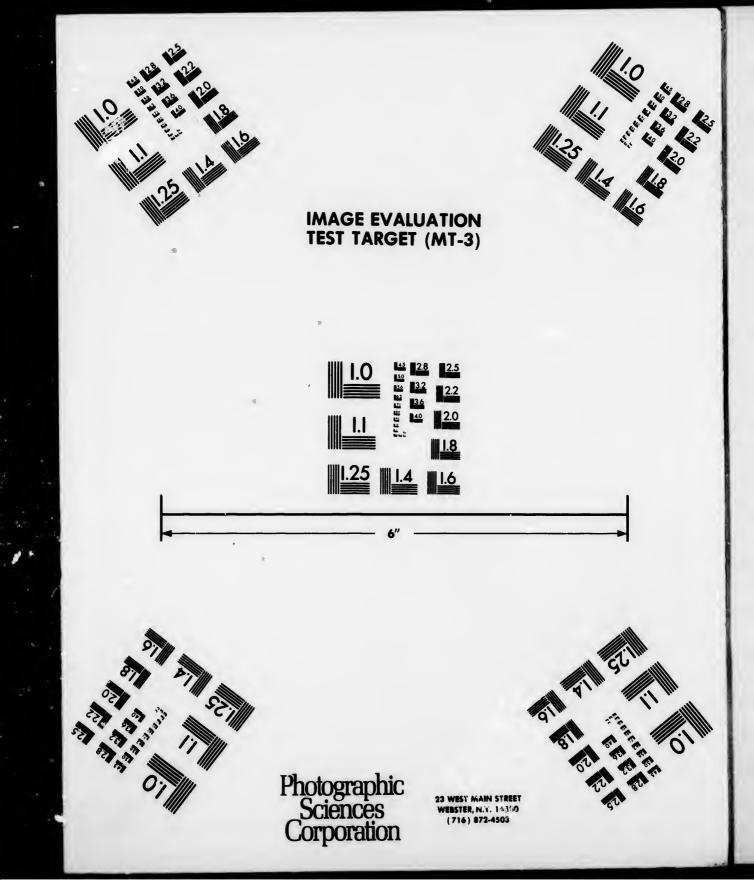
⁷ Not level ground ; measured with shoes. ¹⁰ Sist of No. 18. ¹² Sister of No. 6.

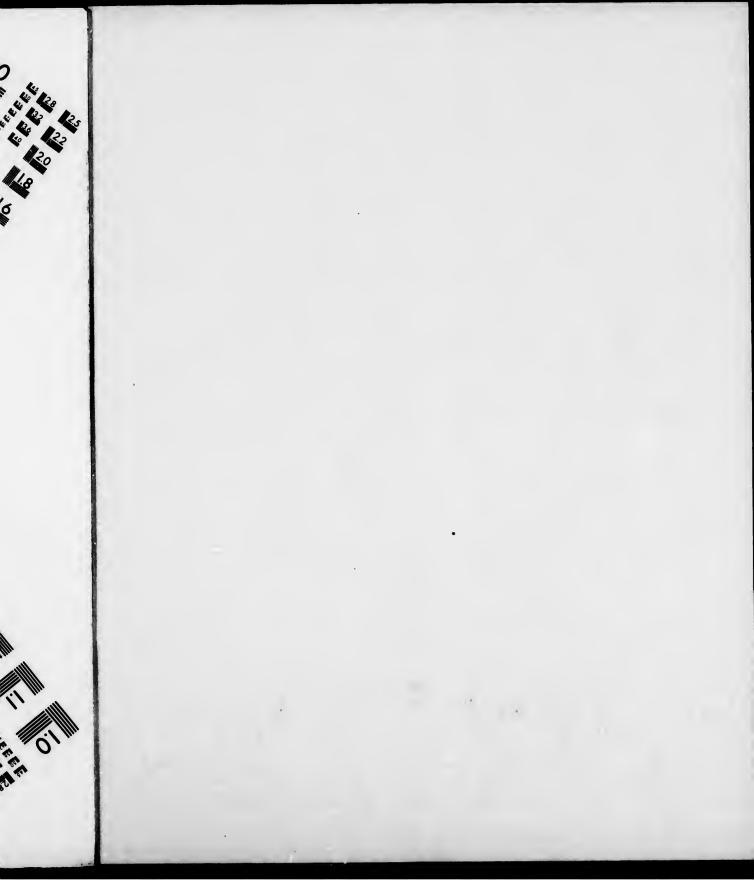
⁸ Sister of No. 12.
¹³ Sister of No. 14.

⁹ Sister of No. 11.

[North-Western Tribes of Canada.

8. Shuswap Half-bloods.







[North-Western Tribes of Canada.

8

							II. Fe	males		
	45	46	47	48	49	50	51	52	53	54
	Chinaman	Dick	Louis	Charlie	Sallie	Susanne	Emmeline	Minnie	Josephine	Lucy
	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin
-	F.	В.	F.	F .		В.	F.	В.	F.	F.
Γ	55	55	55	55	6	9	11	12	13	20
	mm. 1,580	mm» 1,594	mm. 1,588	mm. 1,635 ¹²	mm. 1,097	mm. 1,320**	mm. 1:370 ¹⁵	mm. 1,317	mm. 1,487	mm. 1,580
	1,283	1,293	1,315	1,353	840	1,037	1,131	1,045	1,210	1,315
	705	708	693	731	454	575	647	596	670	722
	1,636	1,686	1,591	1,695	1,092	1,348	1,504	1,383	1,518	1,652
	825	835	839	845	618	727	724	717	788	799
	363	380	346	323	245	266	296	298	300	314
-	183	186	188	184	167	170	173	169	181	181
	162	158	165	157	140	151	149	146	142	145
	129	112	121	125	92	95	110	112	106	112
	149	150	151	145	117	134	133	127	132	133
ł	50	51	54	57	40	40	47	42	42	40
	41	43	39	40	29	36	34	33	36	36
-	88.5	84.9	87 8	85.3	83.8	88.8	86.1	86.4	78.5	80.1
	86.6	74.6	80.1	86.2	78.6	70.9	82.7	88.2	80.3	84.2
•	82.0	84-3	72.2	70.1	72.5	90.0	72.3	78.6	85.7	90.0
F	44.6	44.5	43.6	44.6	41.3	43.6	47.2	45.2	45.0	45.7
	103.5	105 8	100.2	103.7	99.5	102.1	109.8	105.0	102.1	104.6
6	52.2	52.5	52.8	51.5	56.2	55.1	52.8	54.3	52.9	50.6
1	23.0	23.9	21.8	19.7	22.3	20.2	21.6	22.6	20.1	19.9

Number	1	2	3	4	5	8	7	8	9	10		12	13	14	15	16	17	18	19	20	21	22	23	21	25	26
Name	Louis	Willie	Johnnie	Lāsl'z	Baptiste	Isidore	Michel	William	Leo	Tuga'n	Alexander	Timothy	Michel	Jerome	TenachE'z	Charlie	Atati'	Capt. Bobhy	Jack	Johnnie	Charlie Boy	Sailua'n	Toby	Benny	William	Jim
Tribe	Anahem	Anahem	Chizikut Lake	Nimpoh Lake	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chileotin	Chilcotin	Chilcotin	Chilcotin	Chilcotm	Chilcotin	Chilcotin
Observer	.3.	В.	В.	В.		 B.	В.	· B.	В.	F.	В,	B.	F.		B.	F.	F.	B.	F.	B.	F.	B.	F.	F.	F .	B
Age ,	6	7	8	9	10	10	11	12	14	16	17	19	20	20	20	20	20	20	25	25	25	25	25	25	28	28
Height standing Height of shoulders Length of arm Finger-reach Height silting Width of shoulders	mm. 1,101 ¹ 855 474 1,120 606 251	-	mm. 1,266 - 1,014 535 1,263 	mm. 1,346 1,094 571 1,336 735 279		mm. 1,303 1,037 535 1,296 710 277	mm. 1,383 1,120 600 1,373 721 285	mm. 1,276 1,003 536 1,311 689 255	mm. 	mm. 1,654 ⁶ 1,386 729 1,728 857 332	mm. 1,633 1,371 716 1,682 843 355	run. 1,663 ⁷ 1,338 757 1,752 907 385	mm. 1,553 1,260 707 1,624 848 355	nim. 1,730 1,440 752 1,800 862 376	mm. 1,722 1,393 765 1,805 912 368	mm. 1,706 1,378 735 1,752 891 380	mm. 1,677 1,367 787 1,777 877 360	H1m. 1,633 • 1,327 745 1,738 875 367	mm. 1,745 1,444 789 1,832 887 898	1,820* 1,500 770 1,845 941 406	mm. 1,727 1,426 755 1,826 912 372	mm. 1,712 1,424 762 1,773 — 376	нпт. 1 670 1,379 737 1,733 868 366	mm. 1,652 1,340 710 1,657 892 370	mm. 1,656 1,378 723 1,724 825 325	mr 1,64 1,35 74 1,80 87 37
Length of head Breadth of head Height of face Breadth of face Height of nose Breadth of nose	163 153 101 127 40 32	158 141 96 117 36 30	172 152 01 131 30 32	176 155 103 129 44 35	178 148 104 130 43 51	167 152 111 131 46 32	175 117 101 130 46 31	169 149 98 132 39 35	176 152 103 132 14 38	190 149.0 119 142 47 38	190 156 110 140 44 34	181 157 130 147 49 39	187 159 123 145 50 42	192 161 126 147 53 39	192 162 109 151 47 38	188 160 137 141 53 38	184 157 115 153 51 41	185 160 130 147 57 87	1 32 1 33 1 20 1 50 56 38	190 160 131 154 56 41	187 157 130 151 55 38	190 153 127 147 49 38	181 155 123 145 49 36	183 156 120 144 55 39	184 150 132 143 55 41	18 15 11 14 5 3
Length-breadth index Facial index Sasal index	93-9 79-5 80-0	89 2 82·1 83·3	88·4 79·4 82·1	88·1 79·8 79·6	83·1 80·0 72·1	91.0 84.7 69.6	81·0 80·0 67·1	\$8-2 74-2 89-8	864 780 864	78·7 83·8 80·8	82·1 78·6 77·3	86·7 88·1 79·6	85 0 81 8 84 0	83·9 85·7 73·6	84·4 72 2 80 8	85-1 95-1 71-7	85·3 75 2 80·4	86.5 98.4 (14.9	84 9 80 0 67 9	84·2 85·1 73·2	84-0 86-1 69 1	80·5 86·4 77·6	85-6 84 8 73-5	85·2 83·3 70·9	81·5 92·3 74·5	86 80 68
Index of arm	43·1 101·7 55·1 22·8	 99*6 55*0 	42·1 99 8 → 21·6	42-3 99-3 54-4 20-6	43.5 102.9 	41-2 99-5 51-6 21-3	13·5 99 3 52·5 20 7	11-9 -003 0 -53 8 -19 9	-	44.2 104.5 51.9 20.1	43-9 103-0 51-7 21-8	-15-6 105-4 51-6 23-2	45.6 104.6 51.7 22.9	13.5 104.0 49.8 21.7	44.5 104.8 53.0 21.4	43.0 102.7 52.1 22.2	46.8 106.0 52.2 21.4	45·7 106·4 53·7 22·5	45 3 105-0 51-0 22-9	42.6 101.5 52.1 22.3	43.6 105.7 52.7 21.5	44-6 103-6 22-0	44·1 103·8 52·0 21·9	13.0 100.3 51.1 22.4	43-6 101-1 49-7 19-6	45 109 53 22

⁴ Son of No. 18, ² Son of No. 20, ³ Son of No. 23, ⁴ Son of No. 48, ³ Hunchback, ⁸ Son of No. 18, ⁷ Cousin of No. 18,

9a. Chilcotin

		9n	. Chil	cotin.																						[North	- West	ern Tr	ibes of	Canad	ła.	8
				1.	Males																		-						11. F	enales		
22	23	24	25	26	27	28	29	30	31	32	33	34	35	- 36	37	38	39	-10	41	42	43	44	łő	46	47	48	49	50	51	52	53	54
Saiha'n	Toby	Benny	William	Jim	Gilpin	Sam	Bob	Tommy	Tommy	Cant. Frank	Chilpat	Quantl	Shimo	Jeff	Smiza	Charlie	Big John	Doctor	Captain	Little Johnnie	Jin	Quoste'n	Chinaman	Dick	Louis	Charlie	Sallie	Susanne	Emmeline	Minnie	Josephine	Lucy
Chilcotin	Chilcotin	Chileotun	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilentin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chileotin	Chilcotin	Chileotin	('hılcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin
 B.	F.	F .	F.	В.	F.	В.	в.	F .	В.	E	F.	F .	F.	B.	В.	<u>В.</u>	В.	В,	В,	<u>.</u>	В.	F.	F.	В.	F.	F .	В.	B.	F.	 B.	F.	F.
25	25	25	28	28	30	30	30	30	32		35	40	40	40	45	45	45	45	50	50	50	55	55	55	55	55	6	9	11	12	13	20
mm. 1,712 1,424 762 1,773		mm. 1,652 1,340 710 1,657	mm. 1,656 1,378 723 1,724	mm. 1,643 1,353 743 1,805	mm. 1,610 1,317 704 1,688	mm. 1,725 ¹⁶ 1,425 747 1,763	1,360 812 1,751	mm. 1,634 1,311 714 1,698		m 1,6 1,3 6 1,6	10 In. 555 1271 590 307	mm. 1,679 1,378 766 1,806	mm. 1,677 1,380 735 1,747	mm. 1,642 1,370 740 1,733	mm. 1,583 1,324 691 1,637	722 1,672	mm. 1,667 1,375 748 1,774	mm. 1,665 1,376 751 1,770	1,302 682 1,635	614 1,580	mm. 1,605 1,313 733 1,726	nım. 1,510 1,285 641 —	0nm. 1,580 1,283 705 1,636	708 1,686	mm. 1,588 1,315 693 1,591	mm. 1,635 ³ 1,353 731 1,695	mm. 1,097 840 454 1,092	min. 1,320 ³³ 1,037 575 1,318	1,131 647 1,501	596 1,383	mm. 1,487 1,210 670 1,518	nim. 1,580 1,315 722 1,652
376	868 366	892 370	825 325	870 372	877	396	874 875	872 391	891 370	8	350 348	851 351	891 385	803 338	810 855	868 353	910 875	866 380	823 365	813 361	362	816 360	825 363	835 380	839 846	815 323	618 215	727 266	721 296	717 298	788 300	799
190 153 127 147 49 38	181 155 123 145 49 36	183 156 120 144 55 39	184 150 132 143 55 41	183 158 119 147 57 39	195 164 122 148 51 38	191 166 123 152 52 38	188 161 121 152 55 42	181 158 117 153 49 42	195 158 129 148 54 40	1	184 156 121 137 50 34	191 156 132 155 55 41	194 155 126 147 52 37	189 163 130 149 52 37	189 159 123 151 55 40	181 148 131 145 55 41	186 162 126 147 55 44	180 152 121 141 51 40	179 156 125 149 52 42	185 158 120 114 53 36	182 169 124 150 55 41	178 155 124 116 57 36	183 162 129 149 50 41	186 158 112 150 51 43	188 165 121 151 54 39	181 157 125 145 57 40	167 140 92 117 40 29	170 151 95 134 40 36	173 149 110 133 47 34	169 146 112 127 42 33	181 142 106 132 42 36	181 145 112 133 40 36
80·5 86·4 77·6	85.6 84.8 73.5	85·2 83·3 70·9	81.5 92.3 74.5	86·3 80·9 68·4	84·1 82·4 71·5	86·9 80·9 73·1	85-6 79-6 76-4	87·3 76·5 85·7	81·0 87·2 74·1	8 6	4·8 .8·3 9 D	81·7 85·2 74·5	79·9 85·7 71 2	86·2 87·2 71·2	84·1 81·5 72·7	81·8 90·3 74·5	87·1 85·7 80·0	84·4 84·0 78·4	87-2 83-9 80-7	85·4 83·3 67·9	92·9 82·6 74·5	87·1 84·9 63·2	88:5 86:6 82:0	84-9 74-6 81-3	87 8 80·1 72·2	85·3 86·2 70·1	83-8 78-6 72-5	88-8 70-9 90-0	×6·1 82·7 72·3	86:4 88:2 75:6	78·5 80·3 85·7	80·1 84·2 90·0
44-6 103-6 22-0	44·1 103·8 52·0 21·9	43.0 100.3 54.1 22.4	43.6 104.1 49.7 19.6	45·3 109·9 53·0 22·7	43·7 104·8 54·5 24·5	43·2 102·2 22·9	48.0 106.2 52.3 22.5	43 8 103·9 53·5 24·0	45·7 104·3 50·5 20·9	4 10 5 2	4·2 3·3 4·5 2·3	45.6 107.6 50.7 20.9	43·7 104·2 53·0 22·9	45·1 105 5 49·0 20·6	43.7 103.4 51.3 22.5	44.8 103.7 53.9 21.9	44.8 106.4 54.5 22.5	45 0 106·3 51·9 22·8	43.7 104.9 52.8 23.4	40.8 100.0 53.4 22.8	15.5 107.5 22.5	41·8 53·0 23·4	11.6 103.5 52.2 23.0	41+5 105 8 52-5 23-9	13:6 100:2 59:8 ⁹ 8	41-6 103-7 51-5 19-7	41-3 99-5 56-2 22-3	-13.6 102.1 55.1 20.2	47·2 109·8 52·8 21·6	45-2 105-0 54-3 22-6	45.0 102.1 52.9 20.1	45-7 104-6 50-6 19-9

cousin of No. 12; son of Nos. 41 and 67.

1º Fath No. 3. ⁹ Father of No. 2.

" Father of No. 51. " Father of No. 18. " Father of Nos. 5 and 10. " Daughter of No. 68. " Daughter of No. 38.

[North-Western Tribes of Canada. 8

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[North Western Tribes, Cana 9b. Chilcotin, Half-blood. 10. Carrie

			uj-0100			10. 0	
			Male				Males
73	74	75	76		1	2	3
Magdalen	Taraik	Atsekulá	George		Ezitô'l	Gelê'	T'êk Esê'a
Chilcotin	Chilcotin	Chilcotin	F. American M. Chilcotin		Ntcat'i'n	Ntcat'i'n	F. Têslatat'i'n M.Ntcat'i'n
F.	В.	В.	В.		В.	В.	B.
70	70	75	12	-	17	18	50
mm.	mm.	mm.	mm.		mm.	mm. 1,654	mm. 1,775
1,548	-	_	1,495 1,192	11	,364	1,328	1,477
1,288			658	-	751	725	717
1,624			1,577	1	,757	1,702	1,705
818	_		763		855	862	931
330	_	-	339		373	363	374
171	169	175	185	- -	190	185	196
154	149	149	151		164	156	160
114	127	106	107		129	121	141
143	140	136	136		152	146	155
54	58	53	47		59	51	58
36	30	39	35		36	37	39
90.1	88.2	85.1	81.6		86.3	84.3	81.6
79.7	90.7	77.9	78.7		84.9	82.9	
66.7	67.2	73.6	74.5		61.0	72.5	67.2
45.8		-	44.2	2	44.7	43.	
104.9		-	105.0	5	104.3		
52.8	3 -	-	51.	2	50.8		1
21:	3 -	-	22.	8	22.2	22	0 21 ·C

Mother of No. 61.

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9a. Chilcotin (conti

	_									Fe	males (oontinu	ea
Number	55	56	57	58	59	60	61	62	63	64	65	66	_
Name	Christine	Lillie	Lucy	Susanne	Betsy	Sēnt'u'n	Minnie	Nancy	Susanne	Nellie	Marie	Betsy	_
Ť ribe	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	
Observer	. B.	<u></u> В.	В.	<u></u> .	 B.	В.	 B	F.	В.	В.	В.	В.	
Age	. 22	22	25	25	26	30	30	30	35	38	45	47	-
Height standing	mm. 1,547	mm. 1,621	mm. 1,556	mm. 1,604	mm. 1,575 ¹⁶	mm. 1,602	mm. 1,582 ¹⁷	mm. 1,571	mm. 1,508	mm. 1,550	mm, 1,555	mm. 1,543	1
Height of shoulder . Length of arm	. 1,257	1,322 733	1,284 655	1,364 756	1,303	1,306 690	1,304 691	1,294 680	1,228 657	1,281 683	1,308 664	1,264 681	1
Finger-reach	. 1,590	1,718	1,560	1,618	1,679	1,635	1,609	1,567	1,524	1,639	1,616	1,592	1
Height sitting		861	858	846	852	811	852	836	784	799	813	799	
Width of shoulders .	. 348	337	336	332	326	343	373	346	337	362	340	317	
Length of head	. 182	186	179	180	171	176	172	180	183	184	174	171	-
Breadth of head	. 163	150	152	149	146	146	162	157	155	161	157	153	
Height of face	. 110	113	108	114	114	117	120	116	114	131	118	116	
Breadth of face	. 150	145	139	138	134	141	146	139	143	148	144	135	
Height of nose	. 49	44	43	45	49	49	56	39	51	51	51	46	
Breadth of nose	. 36	36	37	35	38	30	38	37	36	41	35	32	
Length-breadth index .	. 89.6	80.6	84.9	82.8	85.4	83.0	94-2	87.2	84.7	87.5	90.2	89.5	
Facial index	. 73.3	77.9	77.7	82.6	85.8	83 0	82.2	83.5	79.7	88.5	81.9	85.9	
Nasal index	. 73.5	81.8	86.0	77.8	77.6	61.2	67:9	94.9	70.5	80.4	68.6	69.6	
Index of arm	. 44.8	45.2	42.0	47.3	46.4	43.1	43.7	43.3	43.5	44.1	42.8	44.2	
Index of finger-reach .	. 102.8	106.0	100.3	100.9	106.6	102.1	101.7	99.7	101-1	105.7	103.9	103.2	
Index of height sitting .		53.1	55.0	52.9	53.9	507	53.9	53.2	51.9	51.5	52.5	51.9	
Index of width of shoulders	. 22.5	20.8	21.5	20.7	20.6	21 4	23 6	22.0	22.3	23.4	21.9	20.6	

16 Partly mixed with Carrier.

¹⁷ Daughter of No. 69.

18 Mother

9a. Chilcotin (continued).

[North-Western Tribes, Canada. 9b. Chilcotin, Half-blood. 10. Carrier.

F	emales	(contin	ued)									Male			Males		
64	65	66	67	68	69	70	71	72	73	74	75	76	1	2	3	4	5
Nellie	Marie	Betsy	Christine	TEtcôH	Lucy	Lucille	Adèle	Sallie	Magdalen	Taraik	Atsekulá	George	Êzitô'1	Gelê'	T'ēk Esē'a	Isaac	Jamie
Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chileotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chilcotin	Chileotin	F. American M. Chilcotin	Ntcat'i'n	Ntcat'i'n	F. Têslatat'î'n M. Ntcat'î'n	Alexandria	F. Alexandria (full ?) M. ½ Carrier, ½ White
В.	В.	В.	F.	В.	В.	в.	В.	В.	F.	В,	В.	В.	В.	В.	В.	F.	В.
38	45	47	55	55	58	60	65	65	70	70	75	12	17	18	50	55	13
mm. 1,550 1,281	mm, 1,555 1,308	mm. 1,543 1,264	mm. 1,527 ¹⁸ 1,273	mm. 19	mm. 1,560 ²⁰ 1,255	mm. 1,543 1,264	mm. 1,540 1,293	mm. 1,502 1,223	mm. 1,548 1,288	mm. 	mm. 	mm. 1,495 1,192	mm. 1,685 1,364	mm. 1,654 1,328	mm. 1,775 1,477	mm. 1,535 1,265	mm. 1,423 1,170
683	664	681	674	-	655	692	716	697	710	-		658	751	725	717	700	658
1,639 799	1,616 813	1,592 799	1,586 780	_	1,576 785	1,644 823	1,632 778	1,595 787	1,624 818	_	_	1,577 763	1,757 855	$\begin{array}{c} 1,702\\ 862 \end{array}$	1,705 931	1,647 775	1,495 765
362	340	317	350	-	336	345	308	325	330	-		339	373	363	374	355	248
184	174	171	178	172	183	184	172	176	171	169	175	185	190	185	196	179	180
161	157	153	153	156	160	157	154	155	154	149	149	151	164	156	160	153	159
131	118	116	123	109	117	122	111	129	114	127	106	107	129	121	141	130	112
148	144	135	139	142	147 54	144	139	144	143	140 58	136 53	136 47	152 59	146 51	155 58	140 53	131
51 41	51 35	46 32	52 34	50 37	54 40	53 39	51 37	58 37	54 36	39	- 55 - 39	35	36	37	39	05 37	44 32
				90.7	87.4	85.3			90.1	88.2	85.1	81.6	86.3	84.3	81.6	85.5	88.3
87·5 88·5	90·2 81·9	89·5 85·9	86·0 88·5	90.7 76.8	81.4 79.6	80°3 84·7	89·5 79·9	88·1 89·6	90·1 79·7	90·7	77·9	78.7	84.9	82.9	91.0	92·8	85.5
80.4	68.6	69.6	65.4	74.0	74.1	73.6	72.5	63.8	66.7	67.2	73·6	74.5	61.0	72.5	67.2	69.8	72.7
44.1	42.8	44.2	44.1		42.0	44.9	46.5	46.5	45.8			44.2	44.7	43.9	40 3	45.5	46.3
105.7	103.9	103.2	103.9		101.0	106.6	106.0	106.2	104.9	_	_	105.5	104.3	102.9	96.1	107.3	105.1
51.5	52.5	51.9	51.0		50.3	53.4	50.2	52.5	52.8	-		51.2	50.9	52.2	52.3	50·3	53·9
23.4	21.9	20.6	22.9	_	21.5	22.4	20.0	21.7	21.3	-	-	22.8	22.2	22.0	21.0	23.1	17.5
of No. 6	0 1	Math	r of No	10	19 Mo	ther of	No FO	20	Mathor	of No.	61						

of No. 69.

¹⁸ Mother of No. 18. ¹⁹ Mother of No. 50.

20 Mother of No. 61.

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9



Man	Man
13	14
A'lusken	TuzlExeskt
Nkamtci'nEmuQ	F. Nkamtci'nEmuq
	N.
В.	В.
60	30
mm. 1,670 1,418 813 1,850	mm. 1,674 1,364 737 1,748
385	898 398
188 155 106	183 153 113
150 48	14:
37	3
82·4 70·7 77·1	81· 83· 73·
48·7 110·8	44.
 23·1	53 [.] 23

of No. 4.

and the second

Q

11c. Utā'mqt.

11d. Utā'mqt and 11e. Ntlakya-Stlaņā'yuu mixed. pamuq'ö'ē.

11f. Ntlakyapamuq'ö'ē and other tribes mixed.

	Ma	les	Female	Fen	ales	Female	Ma	les		1	Females	
Number	1	2	3	4	5	6	7	8	9	10	11	
Name	Philip Felix	Andrew	Christine	Kwa'itko	Waqani'nik	Marie	Zilaqi'tsa	Nokuē'liq	I	Nixpatko	Solpinek	
Tribe	Boston Bar	Skazzy	Skazzy	F. Uta'mqt M. Stlaqâ'yuq	F. Uta'mgt M. Stlaqa'yu q	Ntlakyapamuq`o'ê	F. Nicola Tinneh M. Lytton	Alakyapamuq'0'ê Alakyapamuq'0'ê Alamtcî'nEmuq	F. { ³ / ₂ Nkamtci'nEmuq M. Cawä'qamuq	F. Lytton M. Nicola	F. {	Fr J 2 Lytton
Observer	F.	F.	B.	B.	B.	F.	B.	B.	B.	B.	B.	
Age	14	15	12	60	65 +	25	15	65	35	40	50	
Height standing Height of shoulder Length of arm Finger-reach	mm. 1,403 1,137 599 1,443	mm. 1,402 1,114 619 1,465	mm. 1,410 1,147 595 1,397	mm. 1,460 ¹ 1,205 632 1,492	mm. _ 2 	mm. 1,540 1,278 707 1,628	mm. 1,677 1,390 765 1,733	mm. 1,593 1,323 728 1,710	mm. 1,573 1,282 690 1,610	mm. 1,540 1,278 688 1,600	mm. 1,560 1,273 658 1,563	
Height sitting Width of shoulders	723 333	731 323	765 307	755 306	_	765 340	375	830 382	348	338	844 350	
Length of head Breadth of head Height of face Breadth of face Height of nose Breadth of nose	177 152 99 131 39 37	177 156 101 140 49 37	173 151 104 130 43 32	185 145 112 137 52 37	192 148 120 142 58 37	173 148·5 108 133 48 34	182 152 117 143 49 41	188 151 121 148 61 40	184 151 114 140 53 34	173 146 117 136 50 32	173 147 122 136 52 34	
Length-breadth index Facial index Nasal index	85·9 75·6 94·9	88·1 72·1 75·5	87·3 80·0 74·4	78·4 81·8 71·2	77·1 84·5 63·8	86·1 81·2 70·8	83·5 81·8 83·7	80·3 81·7 65·6	82·1 81·4 64·2	84·4 86·0 64·0	85·0 89·7 65·4	
Index of arm Index of finger-reach Index of height sitting Index of width of shoulders .	42.8 102.9 51.6 23.8	44·2 104·5 52·2 23·1	42·2 99·1 54·3 21·8	43·3 102·2 51·7 21·0	-	45·9 105·7 49·7 22·1	45·5 103·3 22·3	45·8 107·4 52·2 24·0	43·9 102·4 — 22·2	44·7 103·9 21·9	42·2 100·2 54·1 22·4	

¹ Sister of No. 5.

amuq'ō'ē and other s mixed.

11g. 11b Nkamtei'nemua Nkamtei nemua. mixed with Shuswap. 11i. Half-blood Ntlakya'pamuq.

13. Okanagan. 13a. Okanagan half-blood.

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			l)	11	Snusaup.	h						
	1	Females		Man	Man	Ma	les	Female	Ma	les	Female	Male
	10	11	12	13	14	1	2	3	1	2	3	1
	Nixpatko	Solpinek	I	A'lusken	TuzlExcekt	Georgie	Felix	Theresa	Daniel Celestin	Edward Moreno	Julienne	Simon
F Tutton	F. Lytton M. Nicola	F. {	F. $\left\{ \begin{array}{l} \frac{1}{2} & \text{Lytton} \\ \frac{1}{2} & \text{Nkamtci'nEmuq} \\ \text{M.} & \left\{ \begin{array}{l} \frac{1}{2} & \text{Lytton} \\ \frac{1}{2} & \text{Nkamtci'nEmuq} \end{array} \right\}$	Nkamtet'n Emuq	F. Nkamtci'nEmuq M. {	F. ? M. Uta'mqt	F. ? M. Utā'mqt	I	Okanagan	Okanagan	F. Nicola M. Okanagan	4 Okanagan
-	В.	В.	B.	В.	B.	F.	B .	B.	F.	B.	B	F.
-	40	50	60	60	30	15	15	14	11	14	13	12
	nm. ,540	mm. 1,560	mm. 1,467	mm. 1,670	mm. 1,674	mm. 1,412	mm. 1,393	mm. 1,402	mm. 1,292	mm. 1,4·12	mm. 1,554	mm. 1,432
	278	1,273	1,185	1,418	1,364	1,142	1,112	1,127	1,024	1,142	1,256	1,172
1	688	658	624	813	737	609	619	599	564	602	684	634
1,	600	1,563	1,471	1,850	1,748	1,475	1,434	1,433	1,323	1,452	1,622	1,446
		844	786		893	724	746	739	683	783	836	726
	338	350	322	385	398	321	320	316	285	296	362	310
-	173	173	183	188	188	186	180	155	183	188	179	176
	146	147	153	155	158	153	151	143	150	146	155	146
	117	122	117	106	119	107	104	99	100	115	110	95
	136	136	136	150	143	132	133	127	128	127	141	129
	50	52	49	48	49	43	45	41	42	47	44	43
	32	34	37	37	36	33	34	29	31	39	32	31
8	34·4	85.0	83.6	82.4	84.0	82.3	83.9	92.3	82.0	77.7	86.6	83.0
8	36.0	89.7	86.0	70.7	83.2	81.1	78.2	78·0	78.1	90·6	78 0	73.6
e	64.0	65.4	75.5	77.1	73.5	76.7	75·6	707	73·8	83·0	72.7	72.1
4	4.7	42.2	42.4	48.7	44.1	43.2	.4.5	42.8	43.7	41.8	44.1	44.3
10)3·9	100.2	100.3	110.8	104.4	104 5	102.9	102.2	102.4	100.7	104.4	101.0
	_	54 ·1	53.5	-	53.2	51.3	53.7	52.8	52.9	54.4	53·9	5 0·8
2	₽1 •9	22.4	21.9	23.1	23·8	22.8	23.0	22.6	22.1	20.6	23.4	21.7

² Sister of No. 4.

[North-Western Tribes of Canada.



[North Western Tribes of Canada.

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nısı	hian.				1						
1	I. Fema	les					11. F	emales			Half breed
3	4	5		8	9	10	11	12	13	14	15
McKenzie	Jane Bernard	Ida Greene	Paniomin	Nônôqns	Nellie Watson	Sakwē'	Susan	Ida	Alakamilq	Jenny	Harry
M. Gyits'umg'ä'lon	F. Gyits'alā's M. Gyispaqlâ'ôts	Gyits'alā's		F. Istaitq M. Bella Bella	Bella Bella	Istaitq	Istaitq	Istaitq	4	Istaitq	M. Bella Bella
3,		B.	-	F.	F.	F.	F.	F.	F.	F.	F.
20	45	50	9	70	20	25	40	50	55	60	35
m. 194 203 23 15 08 36 32 19 18 37 49 34	mm. 1,515 1,220 668 1,613 818 347 190 155 115 148 51 39	mm. 1,563 1,268 688 1,638 826 369 187 156 121 146 50 42		mm 1,6.3 1,326 743 1,774 358 190 170 127 159 52 42 89.5	mm. 1,571 1,301 718 1,654 810 375 185 155 112 146 45 37 83.8	mm. I,114 1,158 633 1,186 332 181 153 120 141 50 84-5	nim. 1,533 1,265 633 1,528 838 351 179 162 123 155 52 40 90.5	mm. 1,465 1,210 640 1,513 755 360 181 155 113 152 48 38 85.6	mm. 	mm. 1,443 1,181 667 1,535 186 157 114 150 47 40 844	mm. 1,613 1,305 733 1,723 393 185 156 124 143 52 33 84 3
·9 ·1 ·4	81·6 77 7 76·5	83·4 82·9 84·0		89.5 79.9 80.8 45.9	83.8 76.7 82.2 45.7	84.9 85 1 	90 ⁻⁵ 79 ⁻⁴ 76 9 41 ⁻⁴	85.6 74.3 79.2 43.5	90·8 79·7 87·8	84.4 76.0 85.1 46.3	86·7 63·5
·8 ·4 2 6	44·2 106·5 54·2 23·0	44·1 104·8 53·0 23·7		45-5 109-3 	40.1 105.1 51.6 23.9	105·1 	41.4 99.7 54.8 22.9	13.5 105.3 51.4 24.5		40.3	15.5 106.8 21.1

* Mother of No.

	12, T	lingit.				13.	Haide	t											14. 7	ei mshia	n.					
	Full- biood					1.	Males							11.	Female	5		1. Ma	les	и. 1	Female	5				
umber	1	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	2	3	4	5	1	2	3	
ame	Annie McKay	G. H.	Guy	Guy Ts'ā'lôt	John Smith qu'ngola	Wuslě'n (?) Atkô'ng	Samuel	Herbert N Engà'ls	John Rohitson (iau'qEns	Joshua Moody Gā'la	Stevens Kdison Nuwä'it	Emily	Mary	Susie	Louisa	Ruth Etluga'an	Mary	Joshua McKay	David Starr	Cecilia McKenzie	Jane Bernard	Jda Greene	Benjamin Peter Brown	Peter John T)24Enä'utsq	Richard Dowse	- EM
"ribe , , , , , , , , , , , , , , , , , , ,	Auk	F. English M. Tlingit	Masset	Masset	Masset	Kaizani	Manset	Masset	Skidegate	F. Kaigani M. Masset	Skidegate	F. Masset M. ¹ / ₂ Masset ¹ / ₂ Skidegate	Masset	Masset	Masset	Masset	Skidegate	F. Ts'e'niciān M. Gyits'alā's	F. Gyits'alā's M. Gyits'umg'ā'lon	F. Gyits'ulā's M. Gyits'mug a'ton	F. Gyits'ala's M. Gyispaqla''0ts	Gyits'alā's	F. Nisk'a' M. Gyispayô'ks	Gyispayō'ks	F. Gyit'anmâ'kys M. Gyitwun*l@6'l	
Observer ,	В.	В.	В.	в	 В,	<u>В.</u>	В.			 B.	В.		В.	В,	В.	в.	В.	В.	В.	 В.	В.	В.	В,	B.	В.	
Age	28	45	13	11	19	21	30	32	40	40	40	13	11	18	18	28	35	21 ,	23	20	45	50	22	21	25	
leight standing Reight of shoulder Length of arm Finger-reach Height sitting	mm 1,500 1,233 657 1,553 817 355	1,710 5 1,130 7 765 5 1,810 7 915	mm 1,172 1,200 655 1,183 800 328	mm, 1,163 ² 1,190 632 1,486 793 329	mm 1,651 1,365 718 1,700 923 382	mm. 1,668 1,362 757 1,798 890 410	mm. 1,624 1,291 721 1,723 899 403	10 m. 1,610 ³ 1,336 728 1,732 913 287	mm. 1,685 1,360 750 1,800 910 425	num. 1,564 1,294 719 1,663 818 856	mm. 1,512 1,243 680 1,658 881 398	mm. 1,503 1,230 650 1,553 762 332	mm. 1,462 1,181 613 1,501 792 307	mm. 1,590 1,318 713 1,631 828 856	mm. 1,528 1,252 632 1,531 810 346	min. 1,550* 1,246 633 1,551 826 321	mm. 1,550 — 1,560 835 —	mm. 1,750 1,413 761 1,810 921 396	mm. 1,732 1,417 781 1,802 919 381	mm 1,194 1,203 623 1,515 808 336	668 1,613 818	mm. 1,563 1,268 688 1,638 826 369	mm, 1,625 1,333 780 1,765 817 359	mm, 1,629 1,297 687 1,677 892 373	mm. 1,680 1,361 719 1,722 89: 377) ⁵ 1 1 2 1 3
Length of head Breadth of head Height of face Breadth of face Height of nose Breadth of nose	17 15 12 13 5	1 170 1 133 3 155 1 59	111 138	188 151 111 137 42 35	189 163 120 149 52 39	193 169 120 156 50 43	195 169 115 155 48 40	201 161 131 154 55 39	199 160 131 152 55 47	190 171 121 158 49 39	189 158 124 153 48 40	187 155 117 138 48 33	188 152 116 138 46 33	176 147 113 140 46 35	186 153 119 142 46 31	185 156 118 148 52 36	181 148 113 139 45 38	187 167 127 150 56 44	199 168 128 156 54 41	182 119 118 137 49 31	155 115 148 51		131 150 57	157 118 149 51	5	4 1 1 0
Length-breadth index Fncial index	84 894 684	85.8	80·3 82·6 75·0	80-1 81-0 83-3	86-2 80 5 75-0	87·6 76·9 86·0	80·7 74·2 83·3	79·3 85·1 70·9	80·4 86·2 85·5	90·0 76·6 79·15	83-6 81-0 83-3	82·D 84·8 68·8	80·9 84·1 71·7	83·5 80·7 76·1		84·3 79·7 59·2	81·8 81·3 84·1	89-3 81-7 78-6	84-4 82-1 75-9	814 864 694	777	82.9	87.3	79-2	74	0
ndex of arm	43-4 103 1 56-1 23-8	101-0 51-3	44-6 100-8 54-4 22-3	43·3 101·6 54·3 22 5	43 5 102-8 55-9 23 2	45·3 107·8 53·3 21·6	41.5 106.1 55.5 24.9	44 4 105-6 55-7 23-6	106·8 54·2 25·3	46 1 106 3 52 4 22 8	44·2 107·5 57·1 25·8	50.8	12 0 102·7 54·2 21·0	44·8 102·6 52·1 22 4	100·2 52·9			43.7 10:1.4 52.8 22.6	53-1	51 2	1 106-0 2 54-2	101 8 53 0	108-6 50 1	108 (54 () 105 7 53	2

15. Gyitkshan.

16. Niska'. 17. Bilgula,

18. Heiltsuk .

les	Males Males I. Males II. Fe- male 1. Males													11. Fe	emales			Half- breed												
5	1	2	3	4	5	6	7	8	9	10	1	2	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ida Greene	Benjamin Peter Brown	Peter John TJS4Enä'utsq	Richard Dowse	Arthur Wilson	Lazaras Brown Isla'sEn	Albert Dowse	Boston	Charlie Lâts	Mark Greene	Jack Welsh	Sam Williams	Joseph Ford Latimer	Thomas	Jim	Sallie	Moquala	Joe	Charlie	Sam	Tsåqola	Warjait	Malaqus	Nonoque	Nellie Watson	Sakwë'	Susan	lda	Alakamilq	Jenny	llarry
Gyits'alā's	F. Nisk'a' M. Gylspayo'ks	Gyispayō'ks	F. Gyit'anmâ'kys M. Gyitwun'loû'l	Gyitsgyő'ktla	Gy ispayo'ks	Gy it wuntloo'l	Gy ispayô'ks	Gyisgagaias	Gylspayô ^{/i} ts	Gyitwantlqö'l	Nisk'n'	F. Ts'E'meinu M. Nisk'a'	bätsqmQ	SätsqmQ	SātsıjmQ	Bella Bella	lstaitq	liella l'ella	Bella Jiella	Bella Bella	Fella Bella	Bella Bella	F. Istuitq M. Bella Bella	Bella Bella	Istaitq	Istaitq	Istaitq	-	Istaitq	M. Bella Bella
B.	В,	B.	B.	B.	B.	В,	B.	B.	В,	В.		В,	F.		F.	F.	F.	F.	F.	F.	 F.	F.	F.	F.	F.	F.	F.	F.	F.	 F.
50	22	21	25	26	27	32	45	45	48	50	20	28	30	30	30	12	40	50.	50	55	55	60	70	20	25	40	50	55	60	35
mm. 1,563 1,268 688 1,638 826 369	mm. 1,625 1,333 780 1,765 817 359	mm, 1,629 1,297 687 1,677 892 373	mm, 1,680 ³ 1,361 719 1,722 893 375	mm. 1,727 1,830 953 41c	mm. 1,616 1,298 710 1,730 870 377	mm. 1,647* 1,343 751 1,732 890 369	mm. 1,732 1,423 775 1,755 890 341	mm, 1,607 1,302 684 1,687 827 354	mm. 1,660 1.373 773 1,828 878 467	mm, 1,632 1,310 718 1,686 905 351	mm, 1,720 1,105 758 1,773 922 366	mm, 1,629 1,301 741 1,761 927 388	mm. 1,698 1,359 738 1,774 884 422	mm. 1,679 1,388 781 1,816 855 425	mm. 1,608 1,321 701 1,677 	mm, 1,412 1,135 605 1,450 315	mm. 1,676 1,373 737 1.784 	u.m. 1,725 1,417 791 1,825 933 301	mm, 1,650 1,354 769 1,724 841 308	min. 1,637 1,332 746 1,722 868 381	1,607 1,321 725 1,701 811 376	mm. 1,568 1,285 751 1,780 	num 1,6.3 1,326 743 1,774 358	mm, 1,571 1,301 718 1,654 810 375	mile. 1,114 1,158 633 1,186 	mm, 1,533 1,265 633 1,528 838 838 851	mm, 1,165 1,210 610 1,513 755 360	nim.	min. 1,4 13 1,381 667 1,535 	nam. 1,613 1,305 733 1,723
187	192	185	190	1:0	193	189	198	199	194	193	182	203	188	191	191	184	190	180	188	183	181	185	1:10	185	181	179	181	184	186	185
156 121 146 50 42	156 131 150 57 39	157 118 149 51 41	164 114 154 50 87	160 114 150 47 38	154 128 148 59	159 120 149 50 41	160 119 159 50 39	153 122 149 58 41	156 124 153 50 42	143 113 145 55 40	159 119 143 48 36	157 123 151 49 38	166 130 152 52 38	158 124 155 53 41	159 121 146 49 35	162 110 111 42 35	167 129 152 51 42	167 115 153 51 43	170 130 162 50 43	159 124 152 53 41	168 117 154 51 41	170 126 163 58 47	170 127 159 52 42	155 112 146 45 37	153 120 141 50	162 123 155 52 40	155 113 152 48 38	167 118 148 49 43	157 111 150 47 40	156 124 143 52 33
83-1 82-9 81-0	81·2 87·3 68·4	81·9 79·2 80·1	86·3 74·0 74·0	84·2 76·0 80·9	79 8 86-5	81·1 80·5 82·0	80·8 74·8 78·0	76-9 81-9 70-7	80·4 81·0 84·0	74·1 77·9 72·7	87·4 83·2 75·0	77 3 81·5 77·6	88·3 85·5 73·1	82·7 80 0 77·4	83 2 81 9 71 4	88.0 78.0 83.3	87-9 81-9 82-4	92.8 75-2 81.3	90-1 80-0 86-0	86 9 81 6 83 0	92-8 76-0 80-4	91-9 77-3 81-6	89:5 79:9 80:8	83-8 76-7 82-2	84-5 85 1	90-5 79-1 76-9	85-6 74-3 79-2	90-8 79-7 87-8	814 76*0 851	84-3 86-7 63-5
44·1 104·8 53·0 23·7	47.9 108.6 50 1 22.0	42·1 103·0 54·7 22·9	42.8 105.5 53.2 22.3		43·8 107·0 53·7 23·3	45.5 105.2 53.9 22.4	44-8 101-3 51-4 19-7	42.5 104.3 51.1 22.0	46.6 111-1 52-9 28-1	44.0 103.3 55.5 21.7	44·1 103·1 53·6 21·3	45 5 108 3 56 9 23 8	43·4 104·5 52·0 24·8	46·7 108·2 50 9 25·3	43·5 104 3 23·1	42·9 102·7 22·3	43-9 106-4 23-8	46 0 105:8 54:2 17:5	46.6 101.3 51.2 24.1	45.5 105.2 52.9 23.2	45*0 105 8 50 4 23*1	-18-0 111-2 25-4	45*9 109 3 22*1	45-7 105-1 51-6 23.9	419 1054 235	414 997 518 229	43.5 105.3 51.1 24.5	-	463 106 1	15.5 106.8

er of No. 2.

Brother of No. 6.

* Brother of No. 3.



[North-Western Tribes of Canada. $\mathbf{12}$

20. Kwakiutl Men.

	18	19	20	21	22	1	2	3
	Tlā'k oagyi- layuk oa	Tıā'k oask Em	Hē'lēistēs ela	Ha'mlitl	K oë' Hak as	G-0'lsFlas	Po'tlas	NE'msk Emalîs
	Awî'ky'ênôq	Awî'ky'ênôq	F. & So'nqulity, ¹ / ₂ Kwa- kiutl. M. Awi'ky'ên.ôq	Awî'ky'ênôq	F. Awī'ky'ēnôq. M. $\frac{1}{2}$ Hé'iltsuk', $\frac{1}{2}$ Awī'ky'ēnôq	F. Kwakiutl M. Tena'qtaq	F. Kwakiutl M. Tena'qtaq	F. Tena'qtaq M. Awaitlala
	В.	B.	в.	B.	B.	В.	В.	B.
_	40	40	40	52	60	35	45	40
38	mm. 1,457	mm. 1,492	mm 1,508	mm. 1,544	mm. 1,462	mm. 1,540 °	mm. 1,610 ¹⁰	mm. 1,670
ł	1,192	1,222	1,223	1,254	1,203	1,242	1,310	1,357
7	619	669	617	692	679	672	745	764
3	1,505	1,551	1,482	1,634	1,558	1,604	1,727	1,793
5	762	800	828	808	784	863	843	806
7	343	308	356	343	340	369	378	390
3 ²	166 ²	161 ²	1697	176 ²	183 ²	184 ²	189 ²	205 ²
1 2	146 ²	153 ²	144 7	155^{2}	160 ²	155 ²	161 ²	157 3
3	116	114	118	120	119	124	135	130
9	141	138	147	153	150	139	147	157
0	45	49	49	52	54	56	58	53
5	36	35	35	38	36	37	36	42
2 2	88·0 ²	95·0 ²	85.27	88·1 ²	87·4 ²	84·2 ²	85·2 ²	76.6
2	82.3	82.6	80 [.] 3	78.4	79·3	89.2	91·8	82.8
0	80.0	71.4	71.4	73·1	66·7	66·1	62·1	79-2
3	42.4	44.9	40.9	44.9	46.5	43.6	46·3	45.7
9	103.3	104.0	98·3	105.8	106.6	104.2	107.3	107.4
5	52.2	53·7	54.8	52.5	53.7	56.0	52.4?	48·3
0	235	20.7	23.6	22.3	23.3	24.0	23.5	23.4

19. Awī'ky'ēn

				I. Ma	les						
Number	1	2	3	4	5	6	7	8	9	10	11
Name	Albert P'ā'sEla	William Hē'mi- silak'	Wī'na	Charlie	Jaco sen Tl'à' konqsë	K-`o'manakula	Tl'ā'k'oagyila- gyilîs	Mē'iza, Tauas- tā'lakra	Moses Ya'k otlas	Abā'tsEstē	Tradict
Tribe	Awī'ky'ēnôq	Awi'ky'ēnôq	Awī'ky'ēnôq	Awi'ky'ēnôq	Awî'ky'ên ôq	F. Nő'quntsirg M. Awī'ky'ēnôg	Awī'ky'ēnôq	Awī'ky'ēnôq	F. ¹ / ₂ Awi'ky'ēnôq, ¹ / ₂ So'n- qulitq. M. lii'lqula	Au î'ky'ênôq	F. ¹ / ₂ No'quntsitq, ¹ / ₂ Awī'ky'. ēnôq. M. Awī'ky'ēnôq
Observer	B.	B.	в.	F.	В.	В.	В,	B.	В.	В.	B.
Age	14	20	28	30	35	40,	50	55	60	65	17
Height standing Height of shoulder Length of arm Finger-reach Height sitting Width of shoulders	mm. 1,560 1,256 673 1,598 847 334	mm. 1,666 1,367 709 1,688 918 348	mm. 1,633 1,304 704 1,714 913 387	mm. 1617 4 1,301 775 1,780 826 395	mm. 1,613 1,307 689 1,682 893 375	mm. 1,577 s 1,293 718 1,646 857 375	mm. 1,59 3 1,277 701 1,746 831 399	mm. 1,500 1,197 627 1,593 846 359	mm. 1,663 1,345 703 1,695 893 371	mm. 1,624 1,345 743 1,764 856 338	mm. 1,532 1,248 684 1,608 840 328
Length of head	179	189	184 1	190	186 2	196 ²		180 2		1	
Breadth of head Height of face	149 114	159 126	158 ¹ 123	154 135	157 ² 134	156² 131	158 115	161 ² 128	149 ³ 115	157 ³ 134	² 156 111
Breadth of face	138	147	147	152	154	151	115	154	148	154	140
Height of nose	46	54	47	56	57	56	53	56	50	57	49
Breadth of nose	37	37	36	41	40	41	40	43	38	40	33
Length-breadth index	83.2	84.1	85.91	81.1	84.4 2	79.62	85.4	89.4	82.3	81.8	88.6
Facial index	82.6	85.7	83.7	88.8	87.6	84.5	73.7	83.1	77.7	85.9	79.3
Nasal index	80.4	68.5	76.6	732	70.2	73.2	75.5	76.8	76.0	70.2	67.3
Index of arm	43.1	42.5	43.2	47.8	42.8	45.4	44.1	41.8	42.3	45.9	44.7
Index of finger-reach	102.4	101-3	105.0	110.1	104.3	104.4	109.6	106-2	101.9	108.6	105.0
Index of height sitting	54.3	55 0	56.0	51.0	55.5	54.2	52.3	56.4	53.8	52 8	54.9
In dexof width of shoulders .	21.4	20.8	23.3	24.4	23.3	23.7	25.1	23.9	22.3	20.9	20.8

¹ Slightly deformed.

² Deformed.

³ Strongly deformed. ⁴ Head somewhat asymmetrical. 1: ⁹ Mother of No. 11. ⁹ Brother of No.

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19. Awī'ky'ēnôx.

20. Kwakiutl Men.

								II. Fe	males								
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3
-	Moses Ya'k otlas	Abâ'tsEstē	TI'à'litl	Annie, K '- qstalas	Tl'ā'k oitl	Ky'ā'nitlEmē	Kuē'qalagyila	Hā'tlasõ	G-ué'kyēlakwa	Tlā'k oagyi- layuk oa	Tı ā'k oask Em	Hē'lēistēs Bla	Ha'mlitl	K oē' Hak as	G-o'lselas	Põ'tlas	NE'msk Emalîs
	F. ½ Awi'ky'ênôq, ½ So'n- qulitq. M. Bi'lqula	A w ī 'ky'ēnôq	F. ¹ / ₂ Nô'quntsitq, ¹ / ₄ Awī'ky'- ēnôq. M. Awī'ky'ènôq	F. Awī'ky'ēnôq M. So'nquiitq	Awî'ky'ênôq	F. $\frac{1}{2}$ Awi'ky'ënôq, $\frac{1}{2}$ Hē- iltsuk, M. Awi'ky'ënôq	F. So'nqulitq. M. ¹ / ₂ So'nqulitq, ¹ / ₂ Awi'ky'ēnôq	Awī'ky'ēnôq	Awī'ky'ēnôq	Awī'ky'ēnôq	Awī'ky'ēnôq	F. ¹ / ₂ So'nqulity, ¹ / ₂ Kwa- kiutl. M. Awi'ky'ën.6q	Aw1'ky'ênôq	F. Awī'ky'ēnôq. M. ¹ / ₃ Hē'iltsuk', ¹ / ₂ Awī'ky'ēnôq	F. Kwakiutl M. Tena'qtaq	F. Kwakiutl M. Tena'qtaq	F. Tena'qtaq M. Awaitlala
	B.	В.	В.	В.	В.	В.	В.	В.	В.	В.	В.	В.	В.	В.	В,	В.	В.
- -	60	65	17	20	20	21	30	30	35	40	40	40	52	60	35	45	40
	mm. 1,663	mm. 1,624	mm. 1,532 ⁶	mm. 1,520	mm. 1,513	mm. 1,502	mm. 1,572	mm. 1,520	mm. 1,528*	mm. 1,457	mm. 1,492		mm. 1,544	mm. 1,462			mm. 1,670
7	· 1	1,345	1,248	1,240	1,240	1,214	1,304	1,251	1,244	1,192	1,222	1,223	1,254 692	1,203 679	1,242 672	1,310 745	1,357 764
7	703	743	684 1,608	650 1,538	640 1,560	629 1,520	682 1,591	676 1,632	647 1,589	619 1,505	669 1,551	617 1,482	1,634	1,558	1,604		1,793
3 6	1,695 893	1,764 856	840	1,556	843	834	837	843	865	762	800	828	808	784	863	843	806
9	371	338	328	323	347	340	326	351	367	343	308	356	343	340	369	378	390
02	181 2	192 ²	176	170	176	1697	182 ^s	180 2	183*	166 ²	161 2	1697	176 2	183 ²	184 2	189 ²	205 ²
12	149 ²	152 157 ²	156	152	150	1637	151 8	159 ²	1512	146 2	153 ²	144 7	155^{2}	160 ²	155 ²	161 ²	157 ²
8	115	134	111	115	108	113	126	115	118	116	114	118	120	119	124	135	130
4	148	156	140	137	142	139	145	148	149	141	138	147	153	150	139	147	157
6	50	57	49	47	40	53	55	51	50	45	49	49	52	54	56	58	53
3	38	40	33	35	35	31	35	37	35	36	35	35	38	36	37	36	42
•4 2	82.3 2	81.8 2	88.6	89.4	85.2	96.4 7	83.0 5	88.3	2 84.2	88.0	95.0	2 85.27	88·1 ²	87·4 ²	84.22	85·2 ²	76·6 ²
•1	77.7	85.9	79.3	83.9	76.1	81.3	86.9	77.7	79.2	82.3	82.6	80.3	78.4	79·3	89.2	91.8	82.8
·8'	76.0	70.2	67.3	74.5	87.5	58.5	63·6	72 5	700	80.0	71.4	71.4	73.1	66.7	66·1	62.1	79.2
•8	42.3	45.9	44.7	42.8	42.4	41.9	43.4	44.5	42.3	42.4	44.9	40.9	44.9	46.5	43.6	46.3	45.7
·8	42.5	108.6	105.0	101.2	103.1	101.2	101-2	107.4	103.9	103.3	104.0	98.3	105.8	106.6	104.2	107.3	107.4
•4	53.8	52 8	54.9	54.5	55.8	55.6	53.3	55·5	56.5	52.2	53.7	54.8	52.5	53.7	56.0	52.4?	
s·9	22.3	20.9	20.8	21.2	23.0	22.7	20.8	23.1	24.0	23 5	20.7	23.6	22.3	23.3	24.0	23.5	23.4
	1	1		1 ha ail	10.9	h Wat	hor of	No. 11		Daugh	ter of 1	Nos. 6. 1	7.	7 Hea	d flatte	ned beh	ind.

mewhat asymmetrical. 1mbecile? "Brother of No. 2.

Father of No. 11.
 ¹⁰ Brother of No. 1.

• Daughter of Nos. 6, 17.