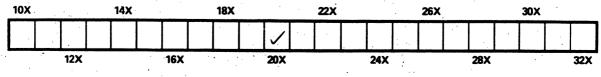
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British Association for the Advancement

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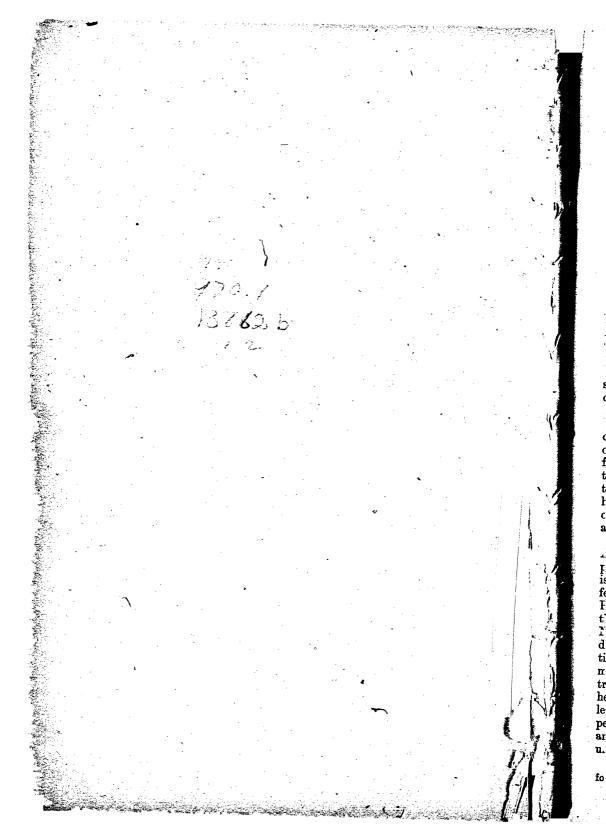
EDINBURGH MEETING, 1892

EIGHTH REPORT

ON THE

NORTH-WESTERN TRIBES OF CANADA

Offices of the Association BURLINGTON HOUSE, LONDON, W. ·61



Section H.

Eighth Report of the Committee, consisting of Dr. E. B. TYLOR, Mr. G. W. BLOXAM, Sir DANIEL WILSON, Dr. G. M. DAWSON, Mr. R. G. HALIBURTON, and Mr. H. HALE, appointed to investigate the physical characters, languages, and industrial and social condition of the North-Western Tribes of the Dominion of Canada.

Remarks on Linguistic Ethnology: Introductory to the Report of Dr. A. F. Chamberlain on the Kootenay Indians of South-Eastern British Columbia. By Mr. HORATIO HALE.

THE report of Dr. Chamberlain derives a special interest from the fact that it is a monograph devoted to the people of a single linguistic stock. or in other words to a people differing totally in speech from all other branches of the human race. In my 'Remarks on North American Ethnology,' prefixed to the Fifth Report of the Committee (1889)which I venture in this connection to recall to mind-the fact was pointed out that 'in America the linguistic stock is the universally accepted unit of classification.' After explaining how, in my opinion, such stocks had originated, namely, 'in the natural language-making faculty of young children,' who in the earliest settlement of a new country had been left, orphaned and isolated from all other society, to frame a new language, and ultimately a new social system and a new religion of their own,¹ I added: 'From what has been said, it follows that in our studies of communities in the earliest stage we must look, not for sameness, but for almost endless diversity, alike in languages and in social organisations. Instead of one "primitive human horde," we must think of some two or three hundred primitive societies, each beginning in a single household, and expanding gradually to a people distinct from every other, alike in speech, in character, in mythology, in form of government, and in social usages.'

Since these remarks were written three publications relating to American ethnology, each of peculiar value and authority, have appeared. The earliest and in many respects the most important of these is the volume on 'The American Race,' by Dr. Daniel G. Brinton, Pro-fessor of American Archæology and Linguistics in the University of Pennsylvania. The general scope of the work is shown by its second title: 'A Linguistic Classification and Ethnographic Description of the Native Tribes of North and South America.' The author has condensed within the limit of 400 pages an immense mass of information concerning the numbers and locations, the physical, mental, and moral traits, and the languages, religions, and social systems of the tribes of the western continent. It is the first and the only comprehensive work embracing all the septs of the new world, and will doubtless long remain the standard and indispensable authority. Of 'independent stocks or families,' we are told, 'there are about eighty in North and as many in South America. These stocks,' the author adds, ' offer us without doubt our best basis for the ethnic classification of the

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'See the Presidential Address of Prof. Sayce in the Report of the Association. for 1887. Pacific N. W. History De_{Dt} , H 6

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American tribes—the only basis, indeed, which is of any value. The efforts which have been heretofore made to erect a geographic classification, with reference to certain areas, political or physical; or a craniological one, with reference to skull forms; or a cultural one, with reference to stages of savagery and civilisation, have all proved worthless. I select, therefore,' he concludes, 'the linguistic classification of the American race as the only one of any scientific value, and, therefore, that which alone merits consideration.'

The 'introductory chapter' of Dr. Brinton's work contains many valuable data and interesting suggestions.' But I am disposed to think that his view of the general resemblance pervading the American tribes in their social institutions is rather a reflex of earlier opinions than a deduction from the facts collected with judicial and impartial accuracy in the subsequent chapters. Thus, while holding that Mr. Morgan's assertions on this subject were too sweeping, he yet remarks (p. 45) that 'Morgan was the first to point out clearly that ancient American society was founded, not upon the family, but upon the gens, totem, or clan, as the social unit.' In the next page, however, further consideration leads him to observe that this 'gentile system' is by no means universal, and that 'it is an error of theorists to make it appear so. Subsequently (on p. 99), in treating of the Dakotas, he states that some of the tribes of this stock had no gentes, while others possessed them with widely differing systems of descent; and he then adds his final decision on this point in terms which completely dispose of the elaborate theories of Morgan and his disciples. He holds that, according to the evidence we possess, 'the gentile system is by no means a fixed stadium of even American ancient society, but is variable-present or absent as circumstances may dictate.'

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Another recent publication of great importance is the paper of Major J. W. Powell, the distinguished Director of the U.S. Bureau of Ethnology, on 'The Linguistic Families of America North of Mexico,' which appears in the 'Seventh Annual Report of the Bureau,' nominally for 1885-86, but published in 1891, and actually coming down to that date in its information. The terms 'linguistic families' and 'stocks' are used by the author as synonymous. He finds the total number of such stocks on the continent north of Mexico to be fifty-eight; and while he thinks it is not improbable that this number may on further study be reduced by the fusion. of some of these stocks, it is equally likely, in his opinion, that the number in the list will be made good by the discovery of new stocks in portions of the region which have not yet been fully explored. A catalogue as complete as can now be obtained is given, not only of the families, but of their tribes and dialectical subdivisions, with their leading names and the various synonyms by which they have been known. Major Powell does not think it necessary to give a reason for adopting the linguistic classification. He evidently regards the question as settled since the appearance of Gallatin's great work, the well-known 'Synopsis of Indian Tribes' (1836), by the general acquiescence of ethnologists. His preliminary remarks are chiefly, but not entirely, devoted to linguistic subjects, and present many facts and conclusions-the result of twenty years' study-which students of ethnology will find of special value and interest. It should, of course, be kept in view that in reminding his readers that, 'after all, the Indian is a savage, with the characteristics of a savage,' he must be regarded as referring in strictness only to the tribes

north of Mexcio, and that he is too experienced an ethnologist to hold that all savages are alike in their characteristics.¹ His paper, it should be added, is illustrated by a 'linguistic map,' which in clearness and fulness is a model of what such a map should be.

The third recent work of special importance in connection with this study is the monograph of Mr. A. S. Gatschet, the eminent linguist of the Bureau of Ethnology, on 'The Klamath Indians of South-Western. Oregon,' which fills two quarto volumes of over 700 papes each in the series of ' Contributions to North American Ethnology.' The work bears series of ' Contributions to North American Ethnology.' date in 1890, but was not distributed until the following year. It is doubtless the most complete and scientifically exact account of the character, language, and mythology of a people composing a single 'stock ' that has ever been published. Of their social organisation less is told. The author had made large collections on this subject, but lack of space has compelled him to defer their publication. He has, however, told enough to enable us to compare the main features in the social life of these Indians, who are surely 'primitive' and 'typical' savages, if there are any such, with the systems devised by McLennan, Bachofen, Morgan, and other ingenious theorisers. Mr. Gatschet, as becomes an investigator, is strictly impartial, and has no special system to maintain; but by a simple statement of facts he is able in four lines to upset as many theories. 'The Klamath Indians,' he tells us, 'are absolutely ignorant of the gentile or clan system as prevalent among the Haida, Tlingit, and Eastern Matriarchate is also unknown among them. Indians of North America. Everyone is free to marry within or without the tribe, and the children inherit from the father.

To those who possess Mr. Gatschet's volumes the comparison between their contents and those of Dr. Chamberlain's equally authentic and careful observations will be highly interesting. But probably to most students the comparison of this report on the Kootenays with the no less careful and accurate descriptions of the coast tribes of British Columbia belonging to the Tlingit, Tsimpshian, and Kwakiutl-Nootka stocks, as furnished to our committee by Dr. Franz Boas in his successive reports, will be still more instructive. The notable difference of character which

'I may be allowed to quote here a note from my 'Ethnography and Philology' of the U.S. Exploring Expedition (p. 13), which has been thought worthy of citation by various writers on anthropological subjects :-- 'Nothing is more common in the writ-ings of many voyagers than such phrases as the following: "These natives, like all savages, are cruel and treacherous"; "The levity and fickleness of the savage character"; "The tendency to superstition which is found among all uncivilised tribes"; "The parental affections which warm the most savage heart," &c. These expressions are evidently founded on a loose idea that a certain sameness of character prevails among barbarous races, and especially that some passions and feelings are found strongly developed in all. A little consideration will show that this view must be erroneous. It is civilisation that produces uniformity. The yellow and black races of the Pacific, inhabiting nearly contiguous islands, differ more widely from each other than do any two nations of Europe. The points of resemblance between the negroes of Africa and the Indians of America, even under the same latitudes, are very few. In delineating the character of the different races of the Pacific an attempt will be made, by contrasting them with one another, to show more closely the distinguishing characteristics of each.' And further on (p. 198), in the description of the tribes of Oregon, a remark to the same effect is made :--' To one ascending the Columbia the contrast presented by the natives above and below the Great Falls (the Chinooks and Wallawallas) is very striking. No two nations of Europe differ more widely in looks and character than do these neighbouring subdivisions of the American race.'

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is pointed out in my remarks introductory to the Sixth Report (1890), on the authority of missionary records and official documents, is fully confirmed by Dr. Chamberlain's observations. The contrast between the very complex social system of the coast tribes and the simple organisation of the Kootenays is particularly striking. The whole social life and frame of government of the coast stocks are wrapped up in their totem or clan systems and their secret societies. Among the Kootenays, according to Dr. Chamberlain, 'totems and secret societies do not exist, and probably have not existed.'

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It is satisfactory to be able to add that both Dr. Brinton and Major. Powell, in their recent publications, have referred to the reports presented to the Association by our committee as records of the best authority. I may venture to affirm that they will retain this authority with a constantly increasing reputation, not merely from my knowledge of the talents and experience of the authors of these reports, but from the fact that they have based their researches and classifications on the only scientific foundation, that of language—or, more strictly speaking, of comparative philology—a basis which in modern anthropology is too often disregarded.

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I wo. points of minor importance, but still of much interest, in Dr. Chamberlain's report seem to merit notice. His statement that, 'as compared with white men, the Indians, with rare exceptions, must be considered inferior physically,' may be misunderstood. As regards those Indians to whom it was intended to apply, namely, the Kootenays and their neighbours, it is undoubtedly correct; but the author had certainly no purpose of including in his statement all the aborigines of America. He is well aware that these, like the communities of the eastern continent, vary physically as well as intellectually, not only from stock to stock, but from branch to branch. Of the Iroquois Dr. Brinton, in his 'American Race' (p. 82), states :--- 'Physically the stock is most superior, unsurpassed by any other on the continent, and, I may even say, by any other people in the world; for it stands on record that the five companies (500 men) recruited from the Iroquois of New York and Canada during our civil war stood first on the list among all the recruits of our army for height, vigour, and corporeal symmetry.' The other recruits, it should be remembered, comprised great numbers of emigrants from almost all the nations of Europe.

In the First and Third Reports of the Committee (1885 and 1887) are given the reasons for believing that the Kootenays formerly lived east of the Rocky Mountains, and were driven thence by the Blackfoot tribes in comparatively recent times. Dr. Chamberlain's account of the Kootenay traditions confirms this opinion, and adds a curious and significant circumstance. 'The Kootenays,' he states, ' believe that they came from the east, and their myths ascribe to them an origin from a hole in the ground east of the Rocky Mountains.' My early studies of the myths of the Pacific islanders disclosed the true origin and meaning of the legendary stories which have been common among many peoples in ancient and modern times, from the early Athenians to the Marquesans and Iroquois, who have ascribed to their ancestors an autochthonous origin, bringing them literally from underground. These legends originate in the double, or we might rather perhaps say the threefold, meaning given in most languages to each of the words 'above' and 'below.' This point is fully explained in an article contributed to the 'Journal of

American Folk-lore,' for July-September 1890.1 It will be sufficient to sav here that the words in question, when used by any islanders (and sometimes by coast tribes) in a myth ascribing a celestial or an underground origin to their ancestors, are found to have meant originally 'from the windward' and 'from the leeward.' When used by inland tribes they have usually signified, in the first instance, "down-stream' and 'up-stream.' Thus the Iroquois have two traditions of their origin. the one purely historical and the other merely mythical-the latter derived from the former by a perversion of the sense of these terms. The former describes their ancestors as ascending the St. Lawrence River in canoes from the neighbourhood of Quebec to the southern coast of Lake Ontario, at or near Oswego. The mythical legend makes them literally 'come from below' by finding their way through an opening which led upward from a subterranean abode beneath a mountain near Oswego. So the curiously combined tradition and myth of the Kootenays inform us that, in their opinion, their ancestors formerly dwelt in some locality east of the Rocky Mountains, and had arrived at that locality by an earlier ascent, doubtless up the Saskatchewan River. That they had been steadily forced westward by their persistent enemies and supplanters, the warlike Algonkians of the powerful Blackfoot confederacy, seems clear from the concurring traditions of both parties.

Report on the Kootenay Indians of South-eastern British Columbia. By Dr. A. F. CHAMBERLAIN.

INTRODUCTORY.

The present report contains a summary of the results of the investigations of the writer on behalf of the British Association for the Advancement of Science during the summer of 1891 in South-eastern British Columbia. The Indians visited were the various tribes of the Ki'tōnā'ça, or Kootenays, about whom comparatively little was previously known. They were studied in regard to physical characteristics, sociology, folklore, and language.

The investigations were conducted under all the difficulties incidental to scientific research in a new country, and the writer takes this opportunity of thanking Mr. Michael Philipps, the Indian agent, and his good friends in the Kootenay district who did all in their power to make his sojourn pleasant and to advance the objects of his visit. Particularly does he desire to express to the Hon. R. L. T. Galbraith, ex-M.P.P., of Fort Steele, his gratitude for the many courtesies shown him, and for the hearty manner in which he endorsed and encouraged the writer in his movements amongst the Indians; to Father Coccolo and the Sisters of the Mission of St. Engène he returns thanks for their hospitality and the willingness with which they used their influence with the Indians on behalf of science. To Mr. David McLaughlin, of Idaho, his thanks are also due for turning to good use, in favour of the writer, the great influence which he possesses over the Lower Kootenay Indians, and for useful information concerning these aborigines.²

¹ 'Above and Below': a Mythological Disease of Language. By H. Hale.

² To Dr. Franz Boas, of Clark University, Worcester, Mass., the writer desires to acknowledge his indebtedness for much kind advice, and to express his appreciation of his courtesy in placing at his disposal, during the preparation of this report, his manuscript vocabulary of the Upper Kootenay language.

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I. ETHNOGRAPHICAL.

COUNTRY AND PEOPLE.

The Ki'tōnā'ça, or Kootenays, inhabit the country included between the Rockies and the Selkirks, stretching from the forty-ninth to the fiftysecond parallel of north latitude, and watered by the Upper Kootenay and Upper Columbia Rivers and their tributaries. They preserve, however, a distinct recollection of having formerly lived east of the Rocky Mountains. The ethnic and tribal names are as follows :--

An Indian is called $\bar{a}qkts'm\bar{a}'kinik$,¹ and a Kootenay Indian, tsen $\bar{a}qkts'm\bar{a}'kinik$, *i.e.*, 'the Indian.' The names possibly have reference to the origin of the Kootenays, according to their legend, from a hole in the ground, as the latter part of the word ' $m\bar{a}'kinik$ may be explained as consisting of $\bar{u}m\bar{a}k$ (ground), *-i.*, a connective vowel, and the suffix *-nik*, signifying 'people originating from, dwelling at, &c.' The Kootenay also call themselves $Ki't\bar{o}n\bar{a}'qa$, the etymology of which is unknown. One Indian connected it with $h\bar{o}'t\bar{o}n\bar{a}'qen\bar{e}$, 'I am lean.' They are generally divided into two groups, viz., Upper Kootenays and Lower Kootenays, the subdivisions of these being as follows :—

I. Ki'tōnā'oa, or Upper Kootenay: (a) Aqki'sk'Enū'kinik (*i.e.*, 'people of the two lakes '), the tribe of the Columbia lakes, with chief settlement at Windermere, on the Lower Lake; (b) Aqk'ā'mnik (*i.e.*, 'the people of A'qk'ām,' as the region of Ft. Steele is called), the tribe of Ft. Steele and the Mission of St. Engène, of whom a large number camp at a place called Bummer's Flat, Yākīkāts; (c) Yā'k'ēt āqkinū'qtlē'ēt āqkts'mā'kinik, or Indians of the Tobacco Plains (Yā'k'ēt āqkinū'qtlē'ēt); these are better and more properly termed Aqk'āneqū'nik (*i.e.*, 'Indians of Lake Pend d'Oreille.

II. Aqkōqtlā'tlqō, or Indians of the Lower Kootenay (Aqkōktlā'hātl) River, partly in British Columbia and partly in Idaho.

The number of the Kootenay Indians is uncertain; they are generally set down at 1,000, half of whom are in British Columbia, the other half in the United States. The reports of the Canadian Indian Department from 1880 to 1886 give the number as about 400. Mr. A. S. Farwell, in a special report to the Legislature of British Columbia² in 1883, makes the following statement:— 'The Kootenay tribe of Indians number about 800 men, women, and children, and are divided approximately as follows : 450 British Indians domiciled north of the international boundary line, and 200 American Indians residing in Idaho and Montana Territories;

¹ For the alphabet used in this report see pp. 45, 46.

² For a copy of this the writer is indebted to the kindness of the Hon. John Robson, Provincial Secretary

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the remaining 150 Indians are migratory, receiving their share of the annuities paid by the United States Government, at its agency on the Jocko River, in the Flathead Reservation, Montana Territory, and claiming to be British Indians when they wander north of the boundary line.' About 3:00 of the British Indians inhabit the valley of the Upper Kootenay and Columbia, the remaining 150 belonging to the Lower Kootenay. The Lower Kootenays, according to Mr. Farwell, whose information was derived from Mr. D. McLaughlin, 'number 157, divided as follows: 35 men, 34 married women, 39 boys, 32 girls, 4 widows, with 6 boys and 3 girls between them, and 4 widows without encumbrances.'

In 1887, Mr. Michael Philipps, the Indian Agent amongst the Canadian Kootenays, estimates their number as follows :---

· ·		г	'otal					490
Tobacco Plains .	•	•	•	•	•	`•		30
St. Mary's .	· •		•		•			235
Lower Kootenay	•	•			•		•	160
Columbia Lakes			۲.	•	• :	Ξ.		65

The report of the Indian Agent for June 30 last (1891)¹ states the numbers of 'the Kootenay Indians in British Columbia' to be as follows:—

Columbia Lake	3						106
Kinbaskets	•		•				
Flatbow .	•.						
St. Mary's .							312
Tobacco Plains		•	` • "	•		•	78
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ETHNIC NAMES.

The Kootenays call the surrounding tribes with whom they have come into contact as follows :---

(a) Blackfeet. Sāntlā or Sāhā'ntlā (bad Indians). In the past the Kootenays had many wars with the Blackfeet, but joined them often in their buffalo hunts on the plains to the east. The Blackfoot country is called Tlā'wati nak (*i.e.*, 'over the mountains'). The Blackfeet often visit the Kootenays now, and are hospitably received. Such a visit occurred in the summer of 1891.

(b) Cree. Gū'tskīā'wē (liars). A few Crees occasionally visit the Kootenays, chiefly in company with the Blackfeet. In the old days of the Hudson's Bay Company these two peoples came more into contact.

(c) Stonies. These Indians have a very bad reputation with the Kootenays, and are named Tlū'tlämā'ekā (cut-throats). Also Gūtlu'puk.

(d) Sioux. Kā'tsk āgi'tlsāk (charcoal legs).

(e) Shushwap. Tlitkā'tuwū'mtlā'et (no shirts). This name was given because, when the Kootenays met the Shushwaps first, the latter had no buckskin shirts (āqkā'tuwū'mtlā'Et).

(f) Okanagan. \overline{O}' kinā'k ēn. Some of these occasionally visit the Kootenays. About ten years ago several came to A'qk'ām. They are also known in Kootenay as $\overline{Koken\overline{u}'k'k\overline{e}}$.

¹ This information I owe to the courtesy of Mr. Vankoughnet, the Deputy Superintendent of Indian Affairs, Ottawa. ŀ

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(g) Kalispelm. Kā'nōqtlā'tlām (compress the side of the head). Some years ago the Kootenays and Kalispelms were very unfriendly towards each other.

(h) Colville Indians. Kooptle'nik (those who dwell at Kooptle'ki). Some intermarriages with these have taken place.

(i) Yakima. Yāä'kimā. A Kootenay explained this as meaning 'foot bent towards the instep,' but this seems a case of folk-etymology. Some intermarriage with Kootenays.

(j) Sarcees. Tsū'oōs or Tcō'kō, also Saksi'kwan. In the palmy days of the Hudson's Bay Company not a few Sarcees came into contact with the Kootenays.

(k) Nez Percé. Sä'ptēt. Said to be so named from the 'grassbaskets' which they make. Perhaps related to the word from which comes the name 'Sahaptin.'

The Kootenay name for 'white man' is $s\bar{v}y\ddot{a}'p\bar{v}$, in all probability a borrowed word (in 'Parker's Journal,' 1840, p. 381, the Nez Percé word for 'American' is given as $su\bar{e}apo$). Another and an old word for white 'man is $n\bar{u}tl\bar{u}'qen\bar{e}$, *i.e.*, 'stranger.' The Indians' employ also (but rarely) the term $k\bar{a}mn\bar{u}'qtl\bar{o}$ $\bar{a}qkts'm\bar{a}'kinik$ ('white man'). For 'negro' the word is $k\bar{u}mk\cdot\bar{o}k\cdot\bar{o}'k\bar{o}tl$ (lit. 'black').

A Chinaman is called $G\bar{o}\bar{o}'ktl\bar{a}m$. The Kootenays are much given to lording it over the Chinese, and not a few practically live on what they make out of them.

SENSES AND MENTAL CHARACTER.

As compared with white men, the Indians, with rare exceptions, must be considered inferior physically. The European, when inured to the climate, is capable of as great physical exertion and able to endure as many and as lasting hardships as the Indian. In running, jumping, wrestling, and other tests of strength, a good white man is more than the equal of a good Indian. There are, of course, exceptions, but the European, given equal chances at the start, can, as a rule, equal, if not always outdistance, his aboriginal rival.

Many of the Indians have large bands of horses, and some of them are farmers. The chief of the Fort Steele Indians is comparatively well off and has a good ranch. Some of the Lower Kootenays do a little farming also, but are much more migratory and restless.

As a rule, the moral character and behaviour of the Kootenays are very good, and the writer, from his residence amongst them of nearly three months, can confirm the good words that were spoken of them years ago by Father De Smet. They are moral, honest, kind, and hospitable, and it is only when imposed upon by bad Indians of other tribes, or by bad whites, that any of the worse traits of Indian character appear. But it is exceedingly difficult to judge of the nature of the Indian, and to determine wherein he differs from the white man. The mental character of the Kootenays is rather high, and the efforts that have been made to educate them are not without fruit. Too much credit cannot be given to the Government of the Province of British Columbia for the firm manner in which, aided by public opinion, they have enforced the law prohibiting the giving or selling of intoxicating liquors to the Indians. This is the first and most necessary basis for any development or betterment of the aborigines. Next comes the freedom from contact with lewd and dishonest white

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men, which the Kootenays have enjoyed to a much greater extent than have many of the neighbouring tribes.

To educate a moral and sober people ought not to be too difficult a task, if the right methods are employed. The founding of the industrial school for Indian children at the Mission of St. Eugène, a few miles from Fort Steele, has already been productive of good results. The writer paid a visit to this school, and had the pleasure of inspecting the teaching, as well as of examining the building and the various appliances connected therewith. The English language is taught in this school, and the young Indians learn to read and to write in a remarkably short time under the guidance of the nuns who have charge of the school. There were about two dozen boys and girls in the school at the time of the writer's visit: they were neatly dressed, polite, and intelligent-looking, and the progress they had made during the few short months they had been there was very encouraging. This school well deserves all the support given to it by the Government, and it is to be hoped that the project of extending its usefulness so as to reach the children of the Lower Kootenays will meet with a proper measure of success.

The great difficulty in civilising the Indian has been to prevent the relapse into old tribal habits when the school is left behind. The career of the future graduates of the industrial school at St. Eugène will be watched with interest by all friends of the Indian, and Father Coccolo, the head of the mission cand the Sisters in charge of the school, may be relied upon to do their share towards making the end good.

No opportunities offered themselves for making psychological tests upon the Indians, but quick perception and rapid judgment are characteristic of the better portion of these Indians, as their actions in hunting and travelling plainly show. The Indian A'mrlū, although forgetting very often to take away some of the articles from a camp when a new start was made, had a remarkable memory for places. One day he left a knife belonging to the writer about halfway up a mountain some 7,000 feet high. The incident was forgotten by him for the time being; but, on being asked many hours afterwards where he had left the knife, he described the place in great detail. On another occasion he left a knife in the woods by the side of the trail, and after we had made a journey of 150 miles and back, and had been absent from the spot a whole month, he was able, on our return, to pick up the knife with hardly a moment's hesitation.

The Kootenay Indians, especially the young men, are gay and lively, enjoying themselves as much as their white friends, fond of horse-racing and bodily exercise. They are of a very inquisitive nature, and the Indian A'melū would run down to the river-bank and stand staring for almost an hour at the steamboat every time it passed the camp. The rest of the Indians were just as curious. The Indian A'melū went (for the first time in his life) on a trip up the river on the steamboat with the writer, and the young fellow was so proud that he could hardly contain himself. No doubt he is now whiling away the winter hours by relating his experiences to his friends.

The writer had occasion to notice two excellent exhibitions of Indian character; in one case of pride and triumph, in the other of anger and disappointment.

A young Indian had been convicted of a crime and sent to jail at New Westminster, where he remained some months. Owing to the exertions 2

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of a clever lawyer, his conviction was quashed on a technicality, and the authorities were obliged to return him to Fort Steele, where he belonged. The writer saw him the day after his arrival. He was dressed in all the finery he could command, and took the greatest pleasure in parading himself about and letting people see that he knew he had won a triumph over the whites. He was in the very highest state of pleasurable excitement, and continued in this frame of mind for a long time.

The other case was that of an Indian of about sixty years of age whom the writer was measuring. The Indian, however, after two or three measurements had been taken, demanded a large sum of money, and, on being refused, pushed the instrument away from him, and, angrily muttering, went outside the store, where he had been standing, sat down on the verandah in front, where he remained all the afternoon, glowering and muttering, and doing his best to impede matters. He continued in this morose mood for days, and even at the expiry of a month would not have anything to do with the writer.

There is also another case in point. While the writer was at Barnard, B.C., he visited Mr. David McLaughlin's often, and one morning, while seated parleying with the Indians, a middle-aged Indian suddenly entered the house, threw his hat on the floor in a most excited manner, and for twenty minutes poured a perfect flood of abuse and threatening on the head of the writer, accompanied by most expressive gestures. After he had unburdened himself of his wrath, he picked up his hat and departed. Several similar, though not quite so animated, exhibitions of anger came under the writer's notice during his stay in the Lower Kootenay, most of them being traceable to the Indian trouble at Bonner's Ferry, Idaho, which had aroused the resentment of the Kootenays.

While in the territory of Chief San Piel, of the Lower Kootenays, one day the chief at some dozen Indians came into the writer's tent and, seating themselves around him in a circle, demanded a large tribute for having intruded into their territory. A refusal to comply with the outrageous demand led to a very interesting display of Indian resentment and anger, as made known by speech and gesture, the faces of some of the savages being given at times an almost demoniacal expression, and their gestures just stopping short of actual assault. Still, in spite of these disturbing ontbreaks, which sometimes occur, the white man who behaves himself is perfectly safe amongst the Indians, and need fear no treachery.

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The Indians have a keen sense of the ridiculous, and go so far as to langh at the misfortunes which befall their fellows. If an Indian is thrown from his horse, misses the animal he shoots at, trips up and falls down, his mishap is always greeted with laughter by the bystanders. A few hours after the excited speech of the Indian at McLaughlin's, the writer was engaged in measuring another of the same tribe, when the Indian suddenly rose to his full height, drew his knife from his sheath, and made a motion to strike the measurer, which somewhat disconcerted the latter, who, however, was almost immediately reassured by the loud langhter of the Indians who were present. The Indians take great delight in tricks such as this.

A favourite amusement of the Lower Kootenay Indians on Sundays is furnished by horse-running. All the horses are assembled in a large open space near the camp, and the Indians form a large circle round them, and, provided with long whips, they drive the horses to and fro for an hour or so, laughing and yelling to their hearts' content. Even the little

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boys take part in this sport. They also take great delight in breaking stubborn horses, and the whole camp looks on until the young man has succeeded in controlling his animal, guying him unmercifully if he makes mistakes. (

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The Kootenay Indians have marked artistic ability, although picturewriting upon rocks, &c., appears not to be found in their territory, or, if found, is not attributed to them. Their skill in ornamentation appears in their various objects of dress and the implements of the chase. The writer took the care to have a series of drawings made by Indians (young and old) who had in no way received from the whites instruction in the draughtsman's art. Very good maps of the country in which they lived were made by these Indians, who seemed quite to have grasped the idea contained in such a delineation. Some of them were also able to recognise with ease the various physical features prominent in the printed maps of the Kootenay district. Their drawings of weapons, implements, &c., were excellent, and those of the Indian A'melū, in particular, would never be suspected of being the product of aboriginal genius. Pictures of houses, railway trains, &c., have a certain conventionality that is characteristic of savage races. Several of the Indians were able to draw an excellent and easily recognisable picture of the little steamboat that plied up and down the Columbia River. In their drawings of human beings especial stress is laid upon the distinguishing features, and any peculiarity or abnormality is brought out with full force. Thus a Stony Indian woman has no nose, a Chinaman has an immense single braid of hair, a white man an enormous beard, a certain Indian a colossal nose, and the like.

COLOUR VOCABULARY.

The colour vocabulary of the Kootenays, as tested by a card of 'Diamond Dyes,' is as follows :----

The colour perceptions of these Indians would appear from these names to be fairly well developed. The explanations of these colour-names, which are no doubt compounds, have not yet been possible. The prefixes käm- and $y\bar{a}$ - are worthy of note, and the words for 'white' and 'black' may possibly be related to those for 'snow' and 'fire' respectively.

The following colour-names for horses may be given :---

Kämnū'qtlū k'ā'tla gā' Etltsin, a white horse. Kämk[•]ōk•ō' kōtl a black horse.

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Kā'tlāgā'tlētl etltsin	, a horse half white, half black (Pinto).
K'ka'sɛnō'stlām "	a roan horse.
Ka'nōkāyū'kaQō "	a ' buckskin ' horse.
Ka'nōtstlā'aka't',	a 'blue' horse.
Kä'makts'k [.] õ'wāt "	a sorrel horse (lit. 'yellow hair ').
I'ntcūk k·ō'wāt "	a mouse-coloured horse (lit. 'mouse hair').

SOCIAL OBGANISATION.

The social system of the Kootenays seems a simple one. As far as could be learnt totems and secret societies, so characteristic of some other British Columbian peoples, do not exist, and probably have not existed, amongst them.

The head of each tribal or local community was the chief $(n\bar{a}s\bar{u}'kw\bar{e}n,$ 'the good one'), whose office originally was hereditary. Women were not allowed to become chiefs, and it is probable that the age of thirty had to be reached before the chiefship could be held. One method of selecting the chief appears to have been this: All the men, women, and children gathered together around a large fire. The medicine men then conferred with the spirits, and in some mysterious way the chief was named. In the time of the great buffalo hunts a 'buffalo chief' was elected, who had authority over all during the expeditions. The selection of the chiefs by direct election has been of late years introduced by the authorities of the Roman Catholic Church, whose influence is now greater than that of the old chiefs, and whose power is much more feared by the Indians than theirs. When the chief wished to consult with his people he called them in a loud voice to come to his large tepee. It is probable that from early times a sort of advisory council existed. Each of the divisions (Columbia Lakes, Fort Steele, Kootenay Lake, Tobacco Plains) has its own chief; in the case of the Kootenay Lake tribe there is a deputy-chief also, and the Tobacco Plains Indians possess two chiefs.

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Isidore, the Fort Steele chief, inherits his dignity from his father Joseph. The chief (by right) of the Lower Kootenays is said to have refused the position, giving as a reason for his action that wars were now all over, the buffaloes were dead, and there was now nothing left for a chief to do.

Slavery $(g \ddot{u}' na q \bar{a}' k a, `a war-party,' tci' ku \bar{o} t e' m \bar{a} t l, `a slave')$ was customary in the old days, and the Kootenays had amongst them many Blackfeet women and children, who were captured in their wars with that nation. A curious custom, which has existed from time immemorial amongst the Kootenays, is the payment by the relatives of the debts of a deceased person. Debts outstanding for ten years have been known to be paid in this way.

TERMS OF RELATIONSHIP.

As far as ascertained, the Kootenay terms of relationship are as follows:--

Wather (titū'nam (said by male).	$(tit\bar{e}'nam(saidbymale))$			
Father, $\begin{cases} tit \bar{v}'nam \text{ (said by male).} \\ s\bar{v}'nam \text{ (,, ,, female).} \end{cases}$	Grandmother, papā'nam ", "			
Mother, mā'enam.	or female).			
Grandfather, papā'nam.	Great-grandfather, \bar{a}' tsemītl.			

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Great-grandmother, ā'tsemītl. Uncle (father's brother), oā'nam. (mother's brother), hatsā'nam. Aunt (mother's sister), kookt. (father's sister), të'tltët. Father-in-law, nura'spatl. Mother-in-law, Husband, nūtlā'kenā. Wife, $titlna'm\bar{u}$ (=old woman). Brother-in-law, skat. Sister-in-law, ātcā'rāts. Brother (elder), tatē'nam. (younger), tcā'nam. kō'kōqā'mātl. Sister (elder), tsū'nam. (younger), nānā'nam. >> (general term), ātlitskē'tlnam. Cousin (m), ātlkā'kāgā'mātl. (f), ātlatlitskē'tlnam. Son, aqk atle'nam. Daughter, sūī'nam.

Nephew (brother's son) = brother. (sister's son) = brother. Niece (brother's daughter) = brother (sister's daughter) = brother. Grandson, papā'nam ; ā'tlāqkā'tlē. Granddaughter, papā'nam; oātlē. Married man, tlatli'tet. Unmarried man, tli'ttlūtli'tēt. Marry, hō'nātlā'oanē, hōnā'tlātli'tinē (I marry). Widow, tlūtlū'mūtl. Widower, Orphan, na'nkū. Young unmarried man, ntstā'hātl. woman, nāū'te. Boy, ntstā'hātl na'na. Girl, nāū'tē na'na. Infant, tlkā'mū. Twins, kāsū'kō. Woman, pā tlkē. Man, ti'tk'āt.

MARRIAGE (hōnā'tlātli'tinē, I am married).

The social position of woman amongst the Kootenays seems to have been about the same as that which she held in the surrounding tribes. In the old days polygamy seems to have been in vogue, and wives were purchased by presents of horses, &c. The marriage age for girls was fifteen; for young men, twenty. Intermarriage of first cousins appears The preliminaries to marriage were as not to have been allowed. follows :- The young Indian went at night to the lodge where slept the object of his affections, and quietly lifting up the blanket, to make sure, lay down beside her. The girl's people soon found him there, and threats were made. The young man's father meanwhile inquired where his son was, and, on being told that he was in such-and-such a lodge, went thither with his friends and discovered the young people together. The girl then left, and went with her husband to his own people. The latter was at liberty to send back his wife to her relations within a year if she turned out to be bad or he was dissatisfied with her. When guilty of adultery she was punished by having one of the braids of her hair cut off by her husband. A divorced woman was allowed to marry again, and widows also. Descent seems to be traced through the mother.

CHILDREN (tlkā'mū, young child).

The Indians are fond of their children, and rarely punish or beat them. The children are usually very shy of white men, but amongst themselves are merry and lively. Parturition is easy amongst these Indians. Delivery was hastened by the efforts of several old women, who seized upon the pregnant woman and shook her. The after-birth was always hung on a tree. Mothers carry their children either in shawls at their backs or in cradles. The Kootenay cradle ($\bar{a}qkink\,\bar{o}'m\bar{a}tl$) is made of deerskin drawn over a thick board, about 3 feet long, and tapering from 1½ foot at the widest to 6 inches at the lower end. Near the top is a flap which can be fastened over the head of the child, which, when in the cradle on the mother's back, is in an upright position. The 3

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cradle is often ornamented with beads, bits of fur, silk, &c. In olden times the cradle was a piece of board to which the child was fastened fr

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FIG. 1.—Indian cradle, ornamented with bead-work and strips of weasel fur. The original is 37 inches long by 14 inches broad (at the widest part).

with buckskin thongs. The cradle is supported by straps around the breast and a band around the forehead. See fig. 1.

ADOPTION.

Adoption into the tribe by marriage, or by residence of more than a year, was in practice. When the parents of small children died the relatives came, each taking a child and bringing it up as his own. The elder children seemingly had to take care of themselves. A very friendly feeling between brothers and sisters existed, and the latter were well taken care of on the decease of their parents.

PROPERTY AND INHERITANCE.

Private property in land was unknown, the country belonging to the tribe collectively. The Lower Kootenays still make, through their chief, a demand for money of any stranger who intrudes upon their domain.

The hunter had no absolute right in the product of his skill in the chase; it was distributed amongst the camp in order that all might have food.

Women could hold property as well as men. The horses were the property of the grown-up male children, as well as of the father, and could be gambled away by any one of them. The lodge seems to have been secured to the widow and children on the death of the father; the women inherited also the kettles and other utensils, besides their saddles, blankets, 'parfieshes,' &c. The horses, canoes, weapons, &c., went to the male children, if of age. In early times it seems that the dead man's relatives swooped down upon the lodge, soon after his death, and appropriated the property pretty much as they pleased. The exact nature of this seizure could not be ascertained. If the dead man left no relatives, a 'strong man' of the tribe took possession of his property.

CRIME.

Stealing $(na'iin\bar{e}, he steals)$ is little practised by the Kootenays; and though amongst them for months, when they had every chance to pilfer

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from him, the writer never lost even a trifle. In the olden times it seems not to have been punished, and probably existed but to a very slight extent. Adultery was not severely punished. In case of murder, the relatives of the victim were bound to avenge his death on the slayer. Members of the murderer's family were also liable to be killed. A wergild was customary; the compensation depended upon the rank and importance of the victim. This compensation did not, however, entirely relieve the slayer from danger of being killed by members of his victim's family.

p. 52 RELIGION AND SUPERSTITION.

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The sun-worship of the Kootenays, as described by Dr. Boas ('Report,' 1889, p. 848), which seems to indicate a belief in an over-ruling and beneficent spirit—though this is not certain—is confirmed. The belief that the dead go to the sun was strong with the 'pagan' Indians. They also believed that the dead would come back from the sun at Lake Pend d'Oreille, where the Indians will meet them some time in the future.

The Kootenays believe in the existence of spirits in everything animate and inanimate; even little stones, bits of rag, shavings of wood, have their nipi'k'a or $tc\bar{u}k'\bar{a}'ps$, as these spirits are called. These spirits can go anywhere, through glass, wood, or any substance, as through air. The touch of the nipi'k'a causes death and disease. At the death of Indians their spirits may enter into fishes, bears, trees, &c.; in fact, into anything animate or inanimate. While a man is alive his nipi'k'a may exist in the form of a tomtit, a jay, a bear, a flower, &c. The nipi'k'as of the dead can return and visit their friends; and while the writer was at Barnard, B.C., one Indian declared that the night before the spirits of his children had come to see him. The spirits appear very frequently in the folk-tales.

In the olden times sacrifices appear to have been made to the nipi'k'as of the mountains and of the forests to secure success in hunting, and to appease them when angered. The language of the nipi'k'as differs somewhat from the ordinary Kootenay, but the writer was unable to ascertain in what respects, or to obtain examples of it. A great or strong man has many spirits. See also p. 18 of this report.

MEDICINE-MEN, OR SHAMANS.

In the old days there were many medicine-men amongst the Kootenays, and they were very powerful, as it was their business to commune with the spirits. In the camp they had special lodges, larger than the rest, in which they prayed and invoked the spirits, who often would make their appearance in the form of a bird or the like in response to their entreaties.

There existed, until recently, a tree in the Lower Kootenay region, in Northern Idaho, from which, on two successive occasions, Indians had jumped off in obedience to the promise of the medicine-men that they should be able to fly like the birds if they did so. In the presence of the assembled camp, men, women, and children, several Indians were hardy enough to do this, which was, of course, certain death to them. The invocation of spirits by the shamans now survives amongst the Lower Kootenays only.

These shamans were also the doctors of the tribe. They treated the

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sick by pressure upon various parts of the body, by pinching, &c. They also practised blowing upon the patient, and extracted the supposed cause of the malady by suction with the mouth. Blood-letting at the wrist was also in use. The shaman was called $ni'pik'ak \bar{a}'k''\bar{a}$, from his having to do with the nipi'k'as.

DEATH AND BURIAL.

The Kootenays usually buried their dead in shallow holes amidst the rocks and boulders, and often left them exposed to the air. Sometimes they buried them on low lands, subject annually to be covered by the river at high water. In the early days the Indian was buried with all his finery, and the members of the tribe seemed to have followed in the funeral procession. Before the Church authorities put a stop to it, the Indians used to betake themselves to the hills and shriek terribly over the dead. They appear to have taken good care of their dead, and never disturbed the graves of their people. It is impossible to obtain osteological material on account of the strong prejudice the Indians have in this matter.

PAINTING AND TATTOOING.

The Upper Kootenays do not now paint $(gi'ten\bar{u}'stik)$ or tattoo $(k\bar{a}tlk\bar{u})$ their faces or persons, except in very rare instances. In the past, however, they practised the same very much. It is said lovers' wooings and challenges to fight were made known by painting the face in a peculiar manner, and the answer was conveyed by the same means. Some of the Indians are tattooed on the arms with small black dots, often accompanied by black lines. In one case, which the writer investigated, it turned out that the tattooing was done by Lum Kin, a Chinese doctor, to cure a sore arm. The Indians, however, admitted that in the past they had similar practices.

Numbers of the Indians have on their arms one or several circular scars, evidently made by burning. These, the Indians said, were produced by pressing a hot tobacco-pipe of stone to the flesh. No reason for so doing was assigned.

The Lower Kootenays are still much given to painting the face, ears, neck, and exposed portions of the breast in gaudy colours. Many, whom the writer saw, had their whole faces, necks, and ears daubed thickly over with bright red paint. Some had the face painted red and the forehead yellow; others, again, had the colours laid on in bands of red and yellow, giving them a weird appearance as they danced by the huge fire at night.

Not the men alone, but the women also, were thus decorated, and with the same variety. The children, as a rule, seem not to be so much bepainted as their elders. Some of the Indians contented themselves with a few daubs here and there. One *métis*, who assured the writer that he was a 'Boston man,' and not an Indian, was seen the very next day with as much paint on as the most Indian of them all.

The red pchre used for paint is called $n\bar{o}mi'ta$. Other terms for 'paint' are : $k\bar{v}n\bar{v}'su'mm\bar{e}$, red paint; $k\bar{a}m\bar{a}'ktsu'mm\bar{e}$, yellow paint. The word gi'ten $\bar{u}'stik$, 'to paint,' is derived from $n\bar{u}s$ or $n\bar{o}s$, the radical of $k\bar{u}n\bar{o}'h\bar{o}s$, 'red,' that being the colour.

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MUSIC AND SONG (ho'nawasao''mek, I sing).

The absence of musical instruments is very noticeable amongst the Upper Kootenays, but they appear to have possessed several in the past. Among these were a sort of reed pipe and a kind of flute (?) made of the leg-bone of a large species of bird. The Lower Kootenavs still possess the Kootenay drum, made as follows :-- A rather large stick is bent into a circle by the aid of fire, and over this is stretched, tambourine fashion, piece of deer-skin. The Aqk aye nik Kootenays are said to be the only ones who now make these drums ($kit\bar{a}m\bar{o}'h\bar{o}tl$); they are beaten with a wooden stick called kitā'möhö'mötl. In their gambling songs the Lower Kootenays use wooden sticks, called $\bar{a}qs\bar{e}'\bar{e}t$, with which they beat upon a log.

In the old days the Kootenays had very many gambling, dancing, and medicine songs. The Indians, under mission influence, have abandoned most of these, their places having been taken by the religious exercises of the Church. The children at the mission sing well, both in Indian and In the evening the older people sing mission songs in their in English. Amongst the Lower Kootenays some of the old songs native tongue. still survive.

While travelling on horseback some of the younger Indians sing refrains like this: $T \overline{o} t \overline{o} t \overline{o} t \overline{o} ! t um tum tum! t \overline{a} t \overline{a} t \overline{a} ! t ui t ai t ai t ai!$ accompanying it with rhythmic motions of the hands or with slaps with the hand upon the flanks of the horse. Another refrain, chanted with

> Hai yā! hā hē yau! E . yā! hā hā hai yau! Hē yū! hō yō! &c.

The Indian A'mElū was very fond of repeating in rhythmic fashion the word teina'tlūē'tem, which he declared to be nothing but 'cultus wawa' (Chinook jargon for 'mere chatter' or 'idle utterance'), having no signification.

The Lower Kootenays are very much in love with gambling, which vice, through the efforts of the missionaries, has been entirely suppressed amongst the Upper Kootenays. In the gambling dance they chant Hai yā! hai yā! hai yā hē, repeated an infinite number of times, interspersed with yells of $h\bar{o} h\bar{o} ! h\bar{a} h\bar{a} ! h\bar{e} h\bar{e} hai hai ! h\bar{u} h\bar{u} ! \&c.$ Another gambling refrain is $\bar{\imath} \ \bar{\imath} \ \bar{\imath} \ y \ \bar{a} \ \bar{e} \ e \ e!$

The gambling consists in guessing in which hand one (on which a ring of bark is left) of two sticks of wood is hidden. The players sit in two rows facing each other, and a number of them keep beating on a log in front of them with sticks, while the sticks are passed from hand to hand. From time to time some of the players sing or contort their limbs in various In its essentials the game is the same as the Chinook game ways. described by Paul Kane ('Wanderings of an Artist,' p. 193), who has not failed to note ' the eternal gambling song he hah ha!

The following songs were obtained from Paul, a Tobacco Plains Kootenay, and were stated by him to be very old :---

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Kā'tlkōk'ātlmā'QEnam nā'matiktci'tlnē *Kissing give.* Sē'tis tlä'kītläk nātlkōk'ā'tlmāQa'tlnē.

Blankets divers things kiss.

Nā'matiktci'tlnē yū'nākā'nē k'ä'psins. Give many things.

They beat the drum and dance; men and women kiss; they present blankets and other things; they kiss and give many things.

Ni'titlānā'mnā tsoātla'nkōqō'tlnē tsi'sini'nkōqō'nātlkā'Enē He makes a lodge makes a big lodge and invokes spirits na'ksak.

TT-

the marten (Mustela).

III. Medicine Song.

Kīka'onā'mnan ni'sinwisoā'tlnē na'kinē kāki'ksī ni'pik'ā'is. The Indian covers himself with a blanket swims speaking his spirit. to

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Tlāti'k'mi'tētl kāki'ksī ni'pik'ā'is. Tsoā'dloāka'iyEkā'mik. Enters the top of the lodge speaking his spirit. Rolls over on the snow(?)

Paul elaborated this song thus:—An Indian is crouching in the corner of his lodge beneath blankets, invoking the spirits. Soon the spirit enters through the top of the lodge, passes beneath the blanket, and enters the Indian, who then flies away on high; by and-by returns, and, sitting under the blanket, causes the spirit to depart again.

IV. Medicine Song.

Ta'mōqō'tlnē tsitlwanū'knanū'kanāmnā'mnē. They beat drums sing very much.

Yū'nāk'ä'psī k'ä'psins kEtcū'kwāt Qā'tkina'kinē. Many things get he recovers.

Drums are beaten, songs are sung, many gifts are made, the things are removed, and the man recovers.

V. Gambling Song.

•	Ka'tlūwā'tsinam Gambling	yū'nākā'nē <i>many</i>	ke'skaqmi'tētl are lost	k'ä' psin. things.	· · · · · · · · · · · · · · · · · · ·
	K'k'ā'tlaqā'Etltsin <i>Horses</i>	, sē'tis blankets	āqka'tūwū'mtlāet <i>shirts</i>	tā'wō guns	āqktcā'mātl knives
	ni'tlkō. <i>money</i> .				e

K'ā'pē k'ä'psin ne'skaomiti'tlnē. Every thing lost.

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VI. War Song.

Nētlāwa'tinak ni'natlūtlūni'siram. Across the mountains they go far away.

Ätnô'nītli'tlnē sā'ntlā ä'tkōnka'tlawūsqō'nīya'mnē. They are much afraid of Blackfeet ? Ätslô'nītli'tlnē sā'ntlā; tlsqā'tlāī k'ā'tlaqā'Etltsin. They are much afraid of Blackfeet; they will steal horses.

Ätnū'pslāti'yitlkā'nīki'tinē. They keep singing a long time.

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Ni'nātlhō'tlōni'sinam tlā ōpkā'tlōni'sinam. They go far away; they cross the mountains again.

Nō'kwankik i'tlāqk'nī'yam. Ta'aqas ätkā'kaskini'tlnē. Kill all the buffaloes. Enough of singing.

This song Paul explained as follows:—The Indians cross the mountains to go to the distant Blackfoot country, where there are great prairies and many buffaloes. The Indians are much afraid of the Blackfeet. The youths form circles and sing. The Kootenays are much afraid of the Blackfeet. They are going to steal horses. They sing for a long time. Then they hasten to return across the mountains, having finished killing buffaloes.

VII. Children's Song.

Kitki'nitl kānē'hē tlä'kītläk kā'wiskā'kanā'nam. Kiktci'kinā'mnam ätsli'tkini'tlnē kā'ktlinkâ'iyam. Ätsli'tkini'tlnē kā'tla 'tlkā'mū niktci'kētl. Hinnēn nētstā'hātlna'na atāwū''tē āqkinū'tlāms.

Nāū't'na'na ätni'nsī kīyū'k'mū'tlēs ätni'nsē āqkinū'tlām.

Paul gave the following explanation of this song :—The children join hands in a circle, and bending the knees assume a sitting posture, the whole weight of the body resting on the legs below the knees. They keep rising up and sitting down, never actually sitting on the ground, however. One of them closes his eyes, and the game consists in the others stepping on his toes, &c., and pretending to be women, snakes, gans, or the like.

HUNTING (hō'nānā' qē, I hunt).

The Kootenays have always been great hunters. In former times they used to cross the Rockies to join the Blackfeet and other tribes in the great annual buffalo hunt. Since the disappearance of these animals they have been forced to confine themselves to the pursuit of bears, deer, wolves, and the smaller fur-bearing animals. The Indians are very skilful in the chase, and it is said that in the old days certain families hunted only some particular animal; the bear or the beaver, for example. The flesh of most of the animals killed is eaten by the Indians, and the hides are disposed of to the whites. The Upper Kootenays kill a large number of skunks ($q\bar{a}'qas$), which they sell to the Chinese miners, who use them for medicinal purposes. 5 0 0

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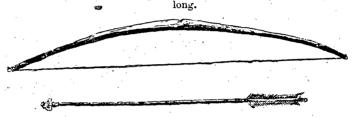
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Since the introduction of firearms amongst the Indians, the old bows and arrows have in great part disappeared. Some of the children use them to shoot birds, and here and there may be still seen a few old men with bow and quiver slung across their backs (the quiver being made of skin, and often profusely ornamented with beads, strips of fur, &c.). In using the bow the Kootenays hold it sometimes horizontally, sometimes perpendicularly. The arrow rests between the first and second fingers of the left hand, which grasps the bow-stick, while the notch-end of the arrow is held between the thumb and first finger of the right hand.

The bow-stick $(\bar{a}qktl\bar{a}'k\bar{u}\bar{o})$ was made of cedar $(itsen\bar{a}'et,$ Thuya gigantea) or maple (mitskik, Acer glabrum). The bow-string $(t'\bar{a}w\bar{u}'m'k\bar{u})$

FIG. 2.-Bew and arrow (with flint point) made by Indian. The bow is 281 inches



was made of the sinews $(\bar{a}qkink\cdot\bar{a}'tk\bar{a})$ of various animals (chiefly of the deer), and sometimes of strips of skin. The arrows used for shooting birds were entirely of wood, with a thick, blunt end. Other arrows $(\bar{a}qk)$ had points $(n\bar{a}tlk\bar{o}'tsap)$ of bone or stone, and, latterly, of iron obtained from the whites. The stone arrowhead $(n\bar{a}tlk\bar{o}'tsap)$ was of flint $(\bar{a}qk\bar{a}'tsk\bar{o})$ obtained by the Lower. Kootenays from a mountain about twenty miles from Barnard, B.C., and by the Upper Kootenays. The point of the arrow is called $\bar{a}qkink\cdot\bar{a}'k\bar{a}$, the feather $\bar{a}qk\cdot\bar{a}'n'k\cdot\bar{o}$, the notch $\bar{a}qk\cdot\bar{a}'n'k\cdot\bar{a}k$, the quiver $i\bar{a}ts'\bar{a}k$, or $\bar{a}'qkank\cdot\bar{a}'nam$, the whole bow and arrows $\bar{a}qk\bar{o}k'k'm\bar{a}tlh\bar{e}tt'\bar{a}'w\bar{o}$. Long ago the Lower Kootenays are said to have caught ducks by means of a pole, to which was attached a net made of the fibre of the plant known as $\bar{a}'qk\bar{o}tla'kpi\lambda$. The Indians used to lasso the 'fool hen' $(k\bar{\imath}a'w\bar{a}s)$ by means of nooses made of the same material.

It was customary for the hunter to distribute the product of his prowess amongst his relatives and friends, and this hospitality was almost a law of the tribe. It is not quite certain whether an Indian would kill a bear or a fish into which he thought one of the spirits of his departed relatives had gone.

FISHING (natla'ktlauwa'tē, he fishes).

The Lower Kootenays are, to a great extent, canoe and fishing Indians. The Upper Kootenays, for the most part, on account of their situation, are less given to travelling by water or to the procuring of fish, excepting salmon ($\star \bar{u}w\bar{u}'kEm\bar{o}$), as a food supply. Many methods of catching fish are in use, of which the following are the chief:—

Before the advent of the whites, the Indians fished with a hook $(tc\bar{o}'w\bar{a}k)$ made of a bit of bone fastened to a piece of wood, the whole having much the shape of an ordinary hook. To this was attached a line

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made of the fibre of $\bar{a}'qk\bar{v}tla'kpis$. For hooks to catch small fish the spines of a species of gooseberry called $kisy\bar{v}'tin$, were sometimes employed.

Fishing through the ice was practised thus: Over a hole cut in the ice was laid a branch or stick of wood, upon which was let down a branch having two prongs, the ends of which were tied together, and from them hung the hook and line of $\bar{a}'qk\bar{\upsilon}tla'kpis$. This method of fishing was termed $n\bar{a}'\bar{\upsilon}s\bar{\upsilon}ntl\bar{u}'ktl\bar{\upsilon}kw\bar{u}'tsen\bar{e}$.

Another mode of obtaining fish in the winter time was to pound on the ice with a club or heavy piece of wood, and so drive the fish into the shallows near the shore, where repeated blows stunned or killed them. This was called $g\bar{a}'kpaki't\bar{v}wi't\bar{c}v\bar{o}'m\bar{o}tl$.

Gaffing $(g\bar{u}\bar{u}'k\bar{o}mi't'w\bar{u}m'k\bar{o}'m\bar{o})$ by means of a large hook attached to a slender branch or pole is now much practised by the Indians, who are very skilful at it.

The Lower Kootenays, depending upon fish as a chief source of their food supply, have certain devices for obtaining them in large quantities. The chief of these are the dam or weir and the basket-trap.

The first of these $(\bar{a}qk^2w\bar{u}'ka\bar{o})$ is a sort of dam of sticks and wickerwork built across a stream or at the entrance of a^{-4} slough,' so as to prevent the escape of the fish when the water falls. Attached to these dams are often wicker-work traps, cone-shaped, sometimes 10 feet long by 3 feet wide, into which the fish fall and are caught. Fishing by means of this is called $w\bar{u}'t'k\bar{o}'tlik$.

The basket-trap $(y\bar{a}'ka)$ is of wicker-work and cone-shaped (often as large as 10×3 feet): within it is ingeniously placed or worked another cone, called $\bar{a}'qkitlw\bar{a}'$ is $y\bar{a}'ka$ ('the heart of the $y\bar{a}'ka$ '), or $y\bar{a}'ka$ $\bar{n}a'na$ ('little $y\bar{a}'ka$ '), which effectually prevents the exit of the fish, while affording them an easy entrance. Along one side of the $y\bar{a}'ka$ are placed rings of bark, generally three in number; to these are attached stout strings. which are held by three or four Indians. To fish with the $y\bar{a}'ka$ is $n\bar{a}'witsk\bar{a}'en\bar{e}$.

There are three kinds of fish spears in use amongst the Kootenays. The first, called $\bar{a}qktla'aa$, closely resembles the spear of the Eskimos; the second, $\bar{a}'qkin\bar{a}'km\bar{a}k'$, has three fixed points like a trident; the third has a point of wood, headed with metal, shaped like an arrow-head, to which is attached a string, so that the point is released when a fish is struck and can be retrieved. The third sort is used for salmon and other large fish. To spear fish is called $g\bar{u}'\bar{a}k\,\bar{o}'m\bar{o}$.

FIG. 3.— Head of fish-spear called $\bar{a}qktla'aa$. The original is $18\frac{1}{2}$ inches long by $2\frac{1}{8}$ inches at widest part.

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The Lower Kootenays dry immense quantities of the fish called $m\bar{a}'tit$ and $\bar{v}\mu\bar{a}'t'$ for use during the winter. The fish are dried (*ki'ikani'titlitl*) in stages called $\bar{a}'qk\bar{u}w\bar{a}'sk\bar{o}$, which are erected near the lodges.

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The Kootenays have three names for cances: $tci'k'en\bar{o}$, a cance made of pine or spruce bark; $st\bar{a}'tl\bar{u}m$, a 'dug-out'; $y\bar{a}k'ts\bar{o}'m\bar{e}tl$, a term for other than dug-out cances. A steamboat is $\bar{a}'qkiuk'\bar{o}'k'\bar{o} y\bar{a}k'ts\bar{o}'m\bar{e}tl$ ('fire cance'), and a large ferry-boat is called $st\bar{a}'tl\bar{a}m$.

The bark cance of the Kootenays is of peculiar construction. It is made for the most part of white pine $(\bar{a}'qk\bar{a}m)$ or spruce $(gi'sitsk\cdot\bar{a}'dl,$ Picea alba) bark $(\bar{a}qk'w\bar{o}k)$, with the outer side turned in and chipped off, so as to be fairly smooth. The upper rim, of about 4 or 5 inches in width, is made of birch bark. The Lower Kootenays use the bark of the tree called $\tilde{a}' q k \bar{a} m$ to make their cances. The sewing is done by needles of bone $(dl\bar{o})$, and split roots serve as thread. The pitch $(i'dl\bar{u}was)$ used is obtained from several of the coniferæ. The boat is much shorter at the top than along the keel, and at both ends runs down towards the keel, terminating in sharp points $(\bar{a}'qk\bar{o})$, thus rendering it quite unique in appearance. The rim around the top is made of bent strips $(\bar{a}qk\bar{o}'k'y\bar{u})$ of hard wood, and is well secured by lashings of split roots and bark fibre. The edges of these strips cross at the ends. From the ends to the keel run two binding strips $(\bar{a}qk\bar{u}'nw\bar{o}k)$ for each end of the boat, which are fastened in the same way. The boat, besides being pitched, is often plastered over with a sort of mud $(\ddot{a}'m\bar{a}k)$. The inside framework consists of longitudinal strips $(\bar{a}qki'kdl\bar{u}k)$ on the bottoms and along the sides, and the curved strengtheners $(\bar{a}qk\bar{o}'dlm\bar{a})$ running from top to top along the bottom and

FIG. 4.—Canoe of Lower Kootenay Indians. This drawing is after a model made by Chief Eustan. The model canoe is 22 inches from tip to tip by $4\frac{1}{3}$ inches wide at the centre, and is perfect in its details.

up the sides. The bark fibres or strips used for tying and lashing the various parts together are called $n\ddot{a}p'ts\ddot{a}'nqa$. The thwarts, three or four in number, are called $\ddot{a}'qkE$. The paddle (*dli'sin*) is generally of cedar; the blade is called $\ddot{a}qk\ddot{a}'m$, and the handle $\ddot{a}qk\ddot{a}'n$. The paddler kneels upon a number of flat pieces of cedar or other similar wood tied together, 'ermed $g\bar{o}\bar{v}'nidl$.

These canoes are very 'cranky,' but the Indians can navigate one of them in the wake of a large river steamer with ease. The canoe is anchored by sticking the handle of the paddle into the mud of the shore and tying the boat to it by a string of bark, &c. The Lower Kootenays make very good models of large canoes, reproducing in miniature the features of the original. See fig. 4.

Houses.

The houses $(\bar{a}'qk\bar{\imath}tl\bar{a}'nam)$ of the Kootenays consisted of a framework of converging poles $(\bar{a}qkits)$ over which were laid the skins of various

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wild animals. The number of poles used varied from five or six to nine for ten. There was no particular separation of men and women in the lodges; communal houses were unknown. In the old days it was considered a grave offence to let the fire in the tepee go out. Larger lodges for the chief and for the medicine-man were the rule. Lodges were also constructed of the rush called *tänätl*.

SWEAT-HOUSES.

The sweat-houses ($wise'y\bar{u}tl$) were made of willow sticks bent over one another so as to form a dome-shaped structure from $2\frac{1}{2}$ to 4 feet high and some 4 feet in diameter. This dome is covered with blanket, grass, bark, &c. A hole is dug in the ground in the centre, in which the bather crouches. Near to the sweat-house is built a fire, in which stones are heated red-hot and placed within the $wise'y\bar{u}tl$, when water is poured upon them, and the naked Indians stand the almost suffocating temperature for a long time, until suddenly they rush out and plunge into the stream close by. The Kootenays are very fond of these sweat-baths, and the writer has seen more than a dozen of the $wise'y\bar{u}tl$ in close proximity on the banks of one of the many creeks of the country.

IMPLEMENTS, &C.

The use of the name $\bar{a}qk\bar{u}'t\bar{a}tl$ for both 'flint' and 'axe' seems to indicate of what material the Kootenays made axes in the past. Axes were also made of d er or elk horn called $\bar{a}'qk\bar{a}tl\bar{e}'\bar{e}t$. Knives ($\bar{a}qktc\bar{a}'m\bar{a}tl$) were of similar materials. Needles and awls ($tl\bar{o}'\bar{o}$) were made of the sharpened small bones of the leg of the moose ($u\bar{e}'ts'n\bar{a}'pk\bar{u}$) and other animals. Hammers ($pu'p\bar{u}$) of stone are still in use.

MANUFACTURES.

Water-tight baskets, made of split roots and known as $yi'tsk\bar{\iota}$, are still manufactured by the Lower Kootenays, but the art appears to be nearly

FIG. 5.—Root-basket. The original is $5\frac{1}{2}$ inches high, $5\frac{1}{2}$ inches across bottom, and $3\frac{3}{4}$ inches across top.

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FIG. 6.—Moccasin, beaded and ornamented. The original is 10 by 5 inches.

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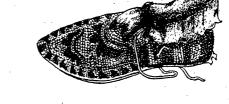
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lost amongst the Upper Kootenays of British Columbia. The larger

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varieties of these 'kettles' are called $yi'tsk\bar{\imath}$, the smaller $yi'tsk\bar{\imath}$ na'na. The terms $yitsk\bar{\imath}'m\bar{\imath}$, $\bar{a}'tc\bar{\imath}$, and $\bar{a}'gatl\bar{a}'\bar{\imath}k$ are also in use, the last amongst the Lower Kootenays. These root vessels are often stained and ornamented in curious fashion. The Kootenays also make baskets or 'kettles' of birch bark. These, which are sometimes very large, are called $n\bar{a}'h\bar{e}k$.

All the Kootenay women make moccasins, gloves, and shirts from the skins of various animals, and these are often artistically embroidered and ornamented with silk and beads; also pouches, bags, &c., of like

FIG. 7.—Gold dust bag. FIG. Original is $7\frac{1}{2}$ inches In long by $2\frac{3}{4}$ wide : made O of buckskin, and ornamented with beadwork.

IG. 8.—Ochre-bag of Indians, heavily beaded. Original is $5\frac{1}{2}$ inches by $3\frac{1}{2}$ inches.

of FIG. 9.—Glove, 'made to order,' by Indian woman. by Original is 8½ inches by 4 inches. (āq

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material. The skins used, after being deprived of the flesh and fat adhering to them, are stretched over hoops of willow and a fire built under them. After this treatment they are tanned with deer's brains, so that they become very soft and pliable.

DRESS ($\tilde{a}'qk\bar{o}ktl\bar{a}'nt\bar{e}s$, his clothes).

The dress of the Kootenays varies considerably. Very many of the women and a large number of the men have, to a greater or less extent, adopted civilised attire. But perhaps the majority of the men still cling to the old blanket-legging $(\bar{a}qk atu'ktluk)$, the blanket $(s\bar{e}'t)$ formerly so much in use, and the customary moccasins $(tl\bar{a}'en)$. The shirt of buckskin $(\bar{a}qk\bar{a}'tu\bar{u}'mtl\bar{a}\epsilon t)$ is replaced by one procured from the store, which, as a rule, is worn over the breeches and not tucked in. The Lower Kootenays in dress, as in several other respects, are more primitive than the Upper. Some few of them dress like white men, but in summer most of them go bare-foot and bare-legged, having frequently no other garment than an old shirt. In this guise they wade through the swampy meadows or urge their horses over the grassy plains.

The girls and women are, as a rule, attired like the whites. The boys wear nothing but a shirt and a very narrow breech-clout, $tesk\bar{a}p'ukw\bar{a}$ $n\bar{z}'m\bar{o}$. In the winter the dress of the Lower Kootenays varies, some clinging to the old blanket, others dressing like the white man.

Those Kootenays who do not go bare-headed wear felt or straw hats

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 $(\tilde{a}qk\tilde{a}'iy\tilde{a}kw\tilde{a}'nam,$ felt hat; $\tilde{a}tl\tilde{a}'tlq\tilde{o}$, straw hat) adorned with various charms or ornaments. The Indians frequently pierce these felt hats with many holes or whiten them with a sort of pipeclay.

In the olden time the dress of the Kootenays was different. The skin of the moose $(n\bar{e}'ts'n\bar{a}'pk\bar{u})$ furnished them with shirt and leggings. They also made ornamented shirts of buckskin, and the women had a special dress for festal occasions. The Lower Kootenays still make these fine shirts, which are often punctured with heles and highly ornamented with bead-work, bits of silk, and strips of otter and weasel skin. The moccasins were made the same as those in use now. The Lower Kootenays used to make them out of the skin of the horse. No hats were in use. The Indians were broad bands of wolf $(k\bar{a}'qkin)$ or coyote $(shi'nk\bar{u}ts)$ skin around the forehead and sides of the head, leaving the top bare. This probably survives in the narrow band of cloth which some of the older Indians still wear in like manner. More recently, the Upper Kootenays made little caps of skunk ($q\bar{a}'qas$) skin, and very beautiful ones from the skin and feathers of the loon $(n\bar{o}k t lu' k w \bar{e} n)$.

Very many of the Indians wear a breech-clout even when they assume the European dress.

HAIR-DRESSING (hötcü'ktlāmā'mēk, I comb my hair).

Many of the Kootenays wear their hair long and flowing. Numbers of the Lower Kootenays wear their hair cut short: this is less common amongst the Upper Kootenays, although favoured by the Mission. Most of the adult Kootenays braid $(h\bar{o}'nitli'tlti\bar{u}kwa'tcktlan\bar{a}'m\bar{e}k, I)$ braid my hair) their hair in one or more braids $(k\bar{a}'tltl\bar{u}kwa'tcktla\bar{a}m, my)$ braid), and ornament these with silk, bits of fur, &c. Three braids, one down the middle of the back and one over each ear, are common. In the old days the rule for both men and women was two braids, one over each ear. The hair was not cut.

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The Kootenays are profuse in the ornamentation of their persons. From the hats, beits $(\bar{a}qk'\bar{a}'mtam)$, shirts, and leggings of the men are suspended twisted silk, beaded cords, gay ribbons, strips of fur, &c. Strings of weasel $(m\bar{a}'iy\bar{u}k)$ for appear to be most in favour, one Indian having as many as twenty dangling from various parts of his dress. Around the

FIG. 10.—Knife-sheath of leather studded with brass tacks. This is possibly of white workmanship.



hats strings of beads, silk, strips of fur, and bands of bright-coloured cloth are worn. The belts, ponches $(\bar{a}'qk\bar{v}tl\bar{a}'k\bar{v})$, moccasins, &c., are often finely worked with designs of leaves of plants, animals, &c., in silk or beads. From the necklace $(\bar{a}'na)$ and belt are suspended bits of ore or)

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wood, perforated shells (obtained from the store), and little trophies of the chase. Feathers of the cwl and chicken-hawk are highly prized as orna-

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FIG. 11.—Indian quirt or whip. Handle of wood, $15\frac{1}{2}$ inches long by $2\frac{1}{2}$ at widest part, studded with brass tacks. The lashes are $19\frac{1}{2}$ inches long.

ments. Earrings $(\bar{u}'_q kokw\bar{u}'tskak'\bar{u}'n\bar{a}m)$ of shells with serrated edges are much worn by both men and women, and some seem to have their ears disfigured by reason of these ornaments.

FIG. 12. Necklace of Kootenay Indian. Contains two bears' teeth, a few beads, and in the centre a stone charm. The material is dark, slaty stone. The teeth are $2\frac{1}{2}$ inches long, and the stone $2\frac{1}{4}$ inches.

Many of the Indians still carry about their persons the horse-shoe steel $(\bar{a}qkt\bar{e}'m\bar{o}tl)$ for striking fire, which the Hudson's Bay Company distributed long ago, and the nippers $(tl\bar{u}qtl\bar{u}'tl\bar{a}h\bar{a}'pkin\bar{e}'m\bar{o}tl)$ used for extracting the hairs on the face and body.

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The Indians are fond of brass finger-rings $(\ddot{a}'qk\bar{\delta}kwa'tsitsqa'i"n\bar{a}m)$. One young fellow wore six: three (on first, third, and fourth fingers) on the right hand and three (on first, second, and fourth fingers) on the left.

Many of the ornaments are undoubtedly charms, and the Indians are very loth to part with these. One blind Indian had more than a dozen bits of stone, wood, fur, &c., besides a sort of needle made of the small bone of the leg of a grizzly bear. Bear's teeth and claws are much worn, either in necklaces or pendent from the hair or some part of the dress.

In the olden times necklaces of $\bar{a}qk\bar{a}'p'mak$, a shell found in the rivers of the Lower Kootenay region, and wristlets of the same material were worn. Men, women, and children wore earrings made of these shells, the child's ear being pierced very early in life. No evidence of the existence of labrets, nose ornaments, or the practice of knocking out certain of the teeth could be found.

TOBACCO, PIPES.

The Indians call store tobacco $y\ddot{a}'k'\ddot{e}t$, and their own sort, made of the leaves of certain willows and plants, $tcak\ddot{a}'\ddot{u}$. They have a remembrance of having obtained tobacco from the south-east. The principal plant which they use for making their native tobacco is that known as $tcak\bar{a}'w\ddot{o}k$ (the kinnikinnik plant, $Arctostaphylos\ uva-ursi$). The pipe-stems $(\bar{a}qk\bar{u}'tla)$ are made of $a'qkum\bar{o}''w\bar{o}k$ (Viburnum opulus) and other woods. The pipe itself $(k\bar{o}s)$ is made of stone procured from the Lower Kootenay. These pipes differ very much in form and size, and are but little ornamented. Very few of them are now made. The Indians are very fond of cigarettes $(\bar{v}y\ddot{u}'q'\ddot{a}'iit)$, and in making them prefer to use printed paper. See figs. 13, 14.

FOOD (kikētl).

Much of the food supply of the Kootenays is now purchased. They are very fond of such sweet things as sugar, sweet-meats, jellies, and preserves. The Upper Kootenays obtain the refuse when cattle are killed by the Chinamen and the ranchers. The Lower Kootenays will eat horses, and have been known to eat the dead bodies of cattle that have been drowned and have remained for days in the river. The Kootenays do not eat skunks $(a\bar{a}'aas)$, cats $(p\bar{u}s)$, frogs $(wE't\bar{a}k)$, crows $(a\bar{a}'a\bar{a})$, ravens $(k\bar{o}'kw\bar{e}n)$, certain hawks, various kinds of woodpeckers, owls, robins $(tci'kek\bar{u})$, plover $(k\bar{a}'\bar{u}\bar{e}'ts)$, jays $(k\cdot\bar{o}k\cdot\bar{u}'sk\cdot\bar{i}$, blue jay; $v\bar{a}'k\bar{o}ks$, white jay), although the children occasionally eat the red woodpecker $(m\bar{a}' E k a)$, and a few Indians will eat the owl $(k'\bar{u}'p\bar{i})$, and the hawk called *i'ntlak* (Accipiter Cooperi). The Indians eat the eggs $(\bar{a}'qkim\bar{u}'qan)$ of a few birds whose flesh they do not use as food, such as the yi'kets'nā and the tcōk'tlātltlā. The Kootenays have the reputation of being enormous eaters, and the writer's experience fully corroborates this. The Kootenays have the disgusting habit of eating the vermin $(h\bar{o}''k\bar{e})$ which infest their heads, and even the chief has been seen picking the lice from one of his tribesmen's head and devouring them with evident relish.

FOOD PLANTS.

A large portion of the food of these Indians is of a vegetable nature, consisting of berries, roots, moss, &c. The following are the principal:— Berries : sk ō'mō, service-berry (Amelanchier alnifolia); kisyā'tin (Ribes oxycanthoides), wild gooseberry; āqkō'kō and gātstlāgō'kō, raspberry; 3)

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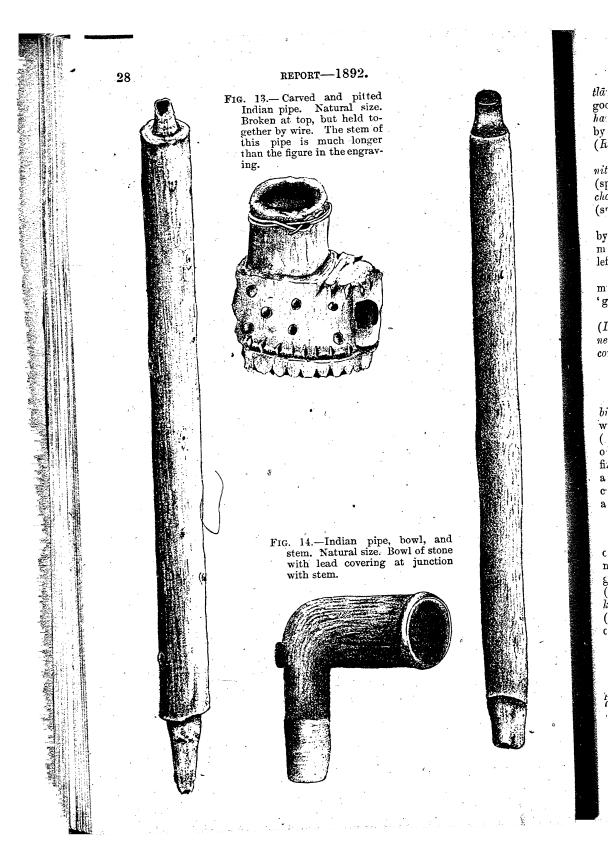
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 $t l \bar{a} w \bar{i}' y \bar{a} t l$, huckleberry; $n \bar{a}' m k \bar{v} k n \bar{u}' m \bar{a} t l$ (Ribes viscosinum), species of gooseberry; $\bar{a} q k \bar{o} k \bar{o} p'$ (Fragaria virginiensis), strawberry; $g \bar{o} p \bar{a}' t \bar{c} t l$ (Shephardia canadensis), soap-berry (little eaten by the Kootenays, but much by the Shushwaps); $n \bar{a} h \bar{o} k$, Oregon grape (Berberis aquifolium); $g \bar{o}' t l w \bar{a}$ (Rosa pisocarpa) rose-bips; $n \bar{u} p u \bar{u}' m \bar{o} t l$ (Vaccinium cæspitosum).

Roots: $\bar{ago}'w\bar{a}tl$ (Allium cernuum), wild onion (eaten raw or boiled); $nitlk\bar{a}'m\bar{a}$ (Lilium philadelphicum), root of the orange lily; $pu'l\bar{a}l\bar{a}'ts\bar{a}$ (spec. ?), boiled and eaten; $w\bar{a}'m\bar{a}tl$ (Heracleum lanatum); $n\bar{asa}'it$ (Calichortus elegans), boiled and eaten; $\bar{aqkitsk}\bar{a}kam$ (spec. ?); $g\bar{a}tsk\bar{o}'kun$ (spec. ?), chewed, but not eaten.

Varia: The mushroom, called $wa't\bar{a}k \ \bar{a}'qk\bar{a}tl\bar{a}'q\bar{a}\bar{e}s$ (frog's?), is eaten by the Blackfeet, but hardly ever by the Kootenays. The hairy treemosses, known as $\ddot{a}'ttl\bar{a}$, $emg\bar{o}'tlna$ (*Evernia vulpina*), are eaten after being left in the ground under a hot fire for some days.

The gum and inside bark of the larch $g' \ddot{o}' stet$, (Larix occidentalis) are much relished, as also is the sap exuding from the $a'qkitstl\ddot{a}'tlutl\ddot{u}'tl$, or 'gum-wood.'

For making tea the leaves of the shrubs called $\bar{a}qk\bar{v}tla'kp\bar{v}k\bar{a}'nam$ (Linnæa borealis), kitkūūtli'ılkūqo'mik, gākūqā'pā'ūk (Ceanothus sanguineus), gopātē'tlūwok (Shephardia canadensis), gustlūtlā'tl (Juniperus communis), mä'ttā (Mentha canadensis).

Plants used Economically.

From the fibre of a species of hemp $\bar{a}'qk\bar{v}tla'kpis$ (Apocynum cannabinum), fishing-lines. ropes, &c., are made. The spines of the $kisy\bar{i}'tin$, or wild-gooseberry, served as hooks for small fish. The bark of $g\bar{u}an\bar{u}qtl\bar{a}'\bar{u}w\bar{v}k$ (Elægnus argentea) is used to make ropes for catching horses. The wood of the maple, mitskēk (Acer glabrum), was in the old days used to obtain fire by friction. From the plant emgö'tlnā (Evernia vulpina), by boiling, a red dye for moccasins, root-baskets, &c., is obtained, and the little seeds called $g\bar{u}k\bar{u}tlwan$ of the plant $g\bar{u}k\bar{u}'tlwanm\bar{o}'\bar{os}$ (Purshia tridentata) furnished a reddish dye.

Plants Admired for their Smell or Beauty.

The plant called $\bar{a}qk\bar{u}'\bar{o}ktl\bar{u}'q\bar{u}n\bar{a}'zt\bar{e}t$ is much admired by the Kootenays on account of its scent. They may often be seen applying it to their nostrils, or, where it is found in great abundance, rolling about on the ground in evident delight. They fill bags with the plant called $an\bar{a}'nam$ (Matricaria discoidea), and use them as pillows. The flowers of the $k's\bar{o}'k'n\bar{o}'k'y\bar{o}k$ (Arenaria pungens) are much admired. The plant $nisn\ddot{u}'p\ddot{a}'tl$ (Oryzopsis asperifoliens) is thrown on the fire in large quantities on account of its good smell.

Medicinal Plants.

The principal vegetable remedies of the Kootenays are as follows:----For sore eyes: The inside bark of the birch, $\bar{a}qk \,\bar{u}\bar{a}'tl\bar{u}w\bar{o}k$ (Betula papyrifera), boiled; the peeled and boiled root of the $n\bar{a}h\bar{o}'k\bar{w}w\bar{o}k$, or Oregon grape; the bark of the shrub $m\bar{o}'kw\bar{o}'k$ (Cornus stolonifera) boiled; the root of the $w\bar{u}'m\bar{a}tl$ macerated and boiled; the plant $n\bar{a}mtl\bar{a}'s\bar{u}k$ (Cicuta maculata?) pounded in a mortar; the burnt leg bones of deer pounded in a mortar.

For horses, the Indians chew the tops of the plant mitskö'kötli't'nū (Apocynum androsæmifoliens), and spit it into the animal's eyes. 7

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For consumption, coughs, colds, sore chest, &c. Strong decoctions of the various tea-plants, $w\bar{u}'m\bar{a}tl$, $m\ddot{a}'tt\bar{a}$ (Mentha canadensis), &c.; the grease in the tail of the otter; plasters made of the leaves of the tea-plant.

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For horses the plant $\bar{a}qkin\bar{u}'ktl\bar{u}'q\bar{o}n\bar{a}'zka$ (Bigelovia graveolens) is used. For belly-ache: $G\bar{a}'im\bar{a}witstla'kp\bar{e}k$ (Spiræa betulifolia) boiled in water; $n\bar{a}'m\bar{a}''t$ (Alnus).

As a purgative: A decoction of the root of the $n\bar{a}h\bar{o}'k\bar{o}w\bar{o}k$, or Oregon grape plant.

For wounds, cuts, bruises: $a\tilde{a}'tl$ (Balsamorrhiza sagittata) boiled and applied to hands, &c.; the leaves of the $atl\tilde{a}'m\tilde{a}tl$ (Populus tremuloidea) macerated, boiled, for burns, &c.; the pounded and macerated bark or leaves of the various tea-plants; the gum or resin of several of the coniferæ.¹

DISEASE ($s\bar{a}'nitlq\bar{o}'n\bar{e}$, he is sick).

A very stringent and well-enforced law of the Province, which has the cordial approval of the settlers and of the Roman Catholic missionaries, keeps the curse of liquor from the Kootenays, and not a little of their present good character is due to this fact. By common consent of travellers, missionaries, and settlers, the morality of these Indians is very high, and they are practically free from venereal diseases, and the licentiousness prevalent amongst some of the coast tribes is unknown. The experiences of Mr. Robert Galbraith, who for some years acted as the medical adviser to these Indians, bears out to the full this statement. The institution of the sweat-bath and other helps to personal cleanliness has its good results.

The Indians suffer most from consumption and allied affections, and diseases of the eye. The latter are mostly caused by the smoke of the lodges, and terminate not infrequently in complete blindness. Scrofula is also prevalent. Some cases of goître have been noted (one, that of a woman, came under the writer's observation), due, it is said by the settlers, to the immoderate use of snow-water. The Indian dogs are stated to be subject also to goître.

Running sores on the face and neck and in the ears are rather common, especially with the children, and the cause of a recent death was given as cancer of the brain supervening upon a sore in the ear. Some of the Indians are disfigured by warts; one deaf and dumb individual had his hand covered with them, and in the case of a little boy the face, thick with warts, was gradually being eaten away by cancer.

Toothache, though very rare, is not unknown, and Mr. McLaughlin stated that he had known several Indians to suffer terribly from it.

Besides their numerous native remedies, the Indians have frequent recourse to the supplies of the white man and the Chinaman.

The writer met with two deaf mutes and two blind Indians. Amongst the Lower Kootenays there is said to be an hermaphrodite, who keeps constantly in the society of the women.

ILLUSTBATIONS OF ARTICLES OF KOOTENAY MANUFACTURE.

The drawings which accompany this report I owe to my brother, T. B. A. Chamberlain, who made them, at my request, from the originals.

¹ For the determination of the scientific names of plants, &c., the writer is indebted to the courtesy of Professor John Macoun, of the Geological Survey, Ottawa, Canada, to whom he begs to return his thanks.

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II. MYTHOLOGY AND FOLKLOBE.

Astronomical.—The moon $(nat\bar{a}'nik, k'tci'tlm\bar{a}'yit nat\bar{a}'nik)$ is regarded as a man, the sun $(nat\bar{a}'nik)$ as a woman. There was no sun in the beginning, and after the Indians had vainly endeavoured to discover it the coyote $(ski'nk\bar{u}ts)$ was successful in making it rise above the mountains. Another version makes the chicken-hawk $(i'ntl\bar{a}k)$ cause the sun to rise, and the coyote, getting angry, shoots an arrow at the sun, but misses, with the result of setting the prairie on fire and making him run for dear life.

The moon is said to have been found by the chicken-hawk. The man in the moon is an Indian, who once chopped wood all the days of the week (including Sunday), whereupon the moon came down and seized him, and he has been in the moon ever since. This myth may be of European origin.

The stars are mostly Indians, who from time to time have got up into the sky. The Great Bear is called $tl\bar{a}'utl\bar{a}$ (*i.e.*, grizzly bear), and was an Indian woman. Being a female grizzly she is at times very angry, and the stars in the tail are Indians, upon whom she has seized. The Milky Way is $\bar{a}qkEm\bar{a}'is a\bar{a}'etltsin$, 'the deg's trail.'

The thunder $(n\bar{u}'ma)$ is caused by a great bird that lives far up in the sky. The lightning $(n\bar{a}qk\bar{a}'tlim\bar{u}'q\bar{u}\bar{a}ti'tl\bar{e}k)$ is made by the shooting of its arrows.

At first there were no clouds $(\bar{a}qk\cdot\bar{a}tl)$. The daughter of the coyote married the thunder, and her father gave her the clouds for a blanket.

Ethnic Origins, §c.—The Kootenays believe that they came from the East, and one of their myths ascribes to them an origin from a hole in the ground east of the Rocky Mountains. Another account says the Kootenays sprang up from the hairs of the black bear $(ni'pk\bar{o})$, which fell on the ground after he came out of the belly of the great fish which had swallowed him. There were no women at first. By-and-by an Indian went up into the mountains, and from a spirit who lived there received the first Kootenay woman.

Horses were made as follows :—A medicine-man took a piece of stick, made it into the shape of a horse, and threw it away, whereupon it became a horse.

The Indians have a belief that the white men get their cattle from the sea. They say the white men go every year to the shore of the Pacific Ocean to receive the cattle which come out of the waters.

Deluge Legend.—Sukpé'ka (a small grey bird, species ?), the wife of Intlāk (Accipiter Cooperi), is forbidden by her husband to go to a certain lake, to drink of its waters, or to bathe in it. One day her husband goes out after deer and repeats the warning before leaving. Sukpē'ka busied herself picking berries, and, what with climbing the mountain and being exposed to the hot sun, she feels very warm, and goes down to the lake. Suddenly the water rises, and a giant called Yāwō' Enēk comes forth, who seizes the woman and ravishes her. Intlāk is very angry when he learns of this, and, going to the lake, shoots the monster, who swallows up all the water, so there is none for the Indians to drink. Intlāk's wife pulls the arrow out of the giant's breast, whereupon the water rushes forth in torrents, and a flood is the result. Intlāk and his wife take refuge on a mountain, and by-and-by the water sinks to its proper level.

In a variant of this legend the 'giant' is a 'big fish.' Intlak sees the

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conduct of his wife, kills her and the monster; it is the blood of the fish that causes the deluge; and $Intl\bar{a}k$ escapes by climbing to the top of a tree. The scene is localised as the Kootenay River, near $A'qk'\bar{a}m$ (Fort Steele).

In another variant the 'giant' is a 'lake animal,' and *Intlâk* stops the deluge by placing his tail in the water, the flood ceasing to rise when it had reached the last row of spots on his tail. Hence the spotted tail of the chicken-hawk.

Fish scallows Bear.—Long ago there was in the Kootenay River, near A'qk'ām (Fort Steele) a huge fish. One day this fish swallowed the black bear $(ni'pk\bar{v})$, who had been an Indian (?). The bear remained in the belly of the fish about two months, when he was vomited out. The bear lost all his hairs, which, falling to the ground, became Kootenay Indians. The big fish is finally killed by the bird called $y\bar{u}m\ddot{a}'kp\bar{a}tl$, a species of woodpecker.

ANIMAL TALES.

The folklore of the Kootenays consists mainly in animal tales. Following is a sketch of the principal characters and their actions :---

ANIMALS.

Bear (black).-Given above.

Bear (grizzly).—Appears frequently in tales; is often deceived by the coyote, who induces him to attempt to cross a creek on a log, and when the bear is half-way over shakes the log, causing him to fall into the water and be drowned. Then the coyote boils the grizzly in his kettle, which tumbles over, and the coyote, getting angry, throws the whole into the river. In another tale the grizzly $(th\bar{a}'uth\bar{a})$ is killed by the spirits.

Beaver ($si'n\bar{u}$).—Appears in tale with turtle. Throws turtle into river. Beaver grease is a dainty of frequent mention in the stories

Buffalo (ni'tllsik).—Appears often in tales with the coyote. Asks the coyote to smoke his (buffalo's) pipe, which he does, and gets his mouth burned in consequence. Buffalo-skulls (inhabited by spirits) lying on the prairie are often mentioned in the tales.

Caribou $(na'aan\bar{e})$.—Appears in tales with the coyote or the wolf. Is killed by the coyote, and in another tale by the tomtit.

Chipmunk.--Two species of chipmunk appear in the tales. The one called $k \bar{v}' t c \bar{a} t c$ is killed by the owl and the frog, who put him into 'sour dough.' The other, known as $n \bar{a}' m t l \bar{a} z t$, appears as an unimportant personage in the tale in which the toad and eagle take part.

Coyote (*ski'nkūts*).—The coyote is the chief figure in Kootenay mythology. His principal exploits and adventures are as follows :—He sets out with the chicken-hawk to find the sun, gets angry and shoots an arrow at the sun, thereby starting the first prairie fire; kills the caribou, the owl, the white-tailed deer, the grizzly, the cricket, the moose, &c. He is thrown into the fire by the chicken-hawk and gets his coat singed. Smokes the buffalo's pipe and gets his mouth burned. Quarrels with his wife, the dog, and kills her. Is represented as carrying his younger brother, the cricket, about with him. The cricket has a broken leg, and one day the coyote breaks his own leg to be like him. The cricket tries to injure the coyote, who finally kills him. After being for a long time supreme amongst the animals the coyote is beaten and killed by the

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for, who takes his place. Among the services rendered by the coyote to the Indians was the appeasing of the spirit of the mountains, who became angry and killed all those who started to hunt in his domains. In return for this benefit he was given a wife from the tribe; and from that time to this the Indians have been allowed to hunt in peace.

Deer.—The white-tailed deer $(tc\bar{a}'pk\cdot\bar{a})$ is killed by the coyote. The young deer are cheated in a race by the frogs.

Dog.—The dog $(q\bar{a}' Btltsin)$ appears as the wife of the coyote, who kills her in a fit of anger.

 F_{0x} .—The fox $(n\bar{a}''kEy\bar{a})$ is often represented as carrying a rootbasket. Scares the skunk by whistling; kills the wolf and restores him to life again; induces the wolf to try to beat the shadow of the sun; kills the cryote, and becomes chief of all the animals.

<u>Moose</u> $(n\bar{e}ts'n\bar{a}'pk\bar{u})$.—The male moose $(n\bar{e}ts'n\bar{a}'pk\bar{u})$ is killed by the coyote, and the female moose $(tl\bar{a}'w\bar{o})$ by the tomtit.

Mountain Lion.—The mountain lion $(s\bar{u}\bar{a}'E)$ is feared by many of the other animals, especially by the skunk, whom he at last killed.

Rabbit.—The rabbit $(g\bar{\imath}'an\bar{\imath}'qtl\bar{\imath}'m'n\bar{a})$, with the snow bird $(nisk\bar{a}'\epsilon t)$, kills the female mouse and brings some of the meat to the frog.

Skunk.—The skunk ($u\bar{a}'uas$) is represented as a very clever animal, and is associated often with the fox. He carries a root-basket, and is afraid only of something that whistles; is scared by the fox's whistling and runs off, but afterwards tries to kill the fox; is finally killed by the mountain-lion.

Squirrel.—The squirrel $(t'a'k\bar{a}ts)$ appears a few times, and in one of the tales is killed by the spirits.

Wolf.— The wolf $(k\bar{a}'qk\bar{a}n)$ appears often in the tales. Kills the tomtit and the caribou. Is occasionally carried by the coyote; is killed by the fox and brought to life again; wagers the fox that he can outrun the shadow of the sun, but fails to do so; and a long quarrel with the fox results.

BIRDS.

Buck.—Some ducks $(gi\bar{a}'qtl\bar{a})$ are seen by the coyote on a little lake; by-and-by they rise up, and the lake dries up. The coyote afterwards pulls out some of the ducks' feathers, so that they cannot fly too high.

Eagle.—The eagle $(g\bar{\iota}a'k'\bar{a}nu'k\bar{\iota}a\bar{t})$ appears in a tale along with the toad and hawks. Is found sitting on a tree by a star, and is killed by the latter.

Goose.—The goose $(k\bar{a}a\bar{a}'tl\bar{o}k)$ is represented in one tale as a child eating dirt.

Grouse.—The 'fool-hen' $(k\bar{\iota}\bar{a}'w\bar{a}ts)$ has a large family of young ones: these are stolen by the coyote, who puts them in his sack. They escape, however, by scratching holes in it. The 'ruffed grouse' $(t'\bar{a}'nk\bar{u}ts)$ takes the place of the 'fool-hen' in another tale.

Hawks.—The male chicken-hawk (i'ntlāk, Accipiter Cooperi) is a very important character in these tales. He is the companion of the coyote in the search for the sun; in a fit of anger he throws the coyote into the fire. He is the hero of the deluge, which is indirectly caused by the infidelity of his wife, $sukp\bar{e}'k\bar{a}$, whom, in one version of the story, he kills. Associated with him, sometimes, is a young hawk $(g\bar{v}'\bar{a}k\bar{a}'tl\bar{a}k)$. His wife is a small grey bird called $sukp\bar{e}'k\bar{a}$. It was her amours with the giant $y\bar{a}w\bar{o}'sn\bar{e}k$ that bronght on the deluge. 3

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Magpie.—The magpie, called anan, tries to pick out the eyes of the coyote while the latter is lying down apparently dead.

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Owl.—The owl $(k\bar{u}'p\bar{\iota})$ is represented often as an old woman who steals children. She helps to kill the chipmunk, and is herself killed by the coyote, who helps the children she carries in a basket at her back to escape.

Snow-bird.—The snow-bird $(nisk\bar{a}'zt)$ is represented as the wife of the rabbit, whom she helps to kill the moose.

Tomtit.—The tomtit (mitsk $\bar{a}'kas$) is the grandson of the frog; after killing the caribou he is killed by the wolf. In another tale he induces the moose to come across the river to him, and then kills him with a knife.

FISH.

Trout.—In one of the tales the coyote changes himself into a trout $(g'\ddot{u}'st\bar{e}t)$, and is caught by the Indians, who are about to hit him on the head with a club, when he calls out that he is the coyote, and not a fish; whereupon they laugh much and let him go.

Whale, or Big Fish.—The big fish $(g\bar{u}wi'tlk\bar{a} gl\bar{a}'kq\bar{o})$ swallows the black bear. He is finally killed by the bird called $y\bar{a}m\ddot{a}'kp\bar{a}tl$.

INSECTS.

Butterfly.—In one of the tales the coyote tries to run off with the butterfly $(k\bar{c}li'l\bar{u})$, thinking it to be a woman. The butterfly, however, turns out to be a man, and the coyote is ridiculed.

Cricket.—The cricket $(\bar{a}qk\bar{o}'ktlak\bar{o}'w\bar{o}m)$ is represented as the younger brother of the coyote, who carries him about with him, and is at times advised by him. He is sometimes mentioned as having a broken leg, and in one story the coyote breaks his own leg so as to be like his brother. The cricket seeks to kill the coyote, but is at last killed by him.

Mosquito.—There was originally one mosquito $(g\bar{a}tsts\bar{a}'tl\bar{a})$, who was fed with blood by the spirits until his belly became so large that it burst, and from it came forth the myriads of mosquitoes that exist to-day.

REPTILES.

Frog.—The frog $(wE't\bar{a}k)$ is the grandmother of the chipmunk. In one tale he takes to wife two of the children of the grouse $(t'\bar{a}'nk\bar{a}ts)$, The most interesting exploit of the frog is the race with the deer. The method of procedure is the same as that by which the tortoise wins in the 'Uncle Remus' story. The frogs, in large numbers, are stationed in hiding at various points in the track, and when the deer approaches them, hop on ahead, so that the deer always sees the frog ahead of him. They look so much alike that he never suspects the trick, and consequently the frog wins the race.

Toad.—The toad $(k'\ddot{o}'k\ddot{o})$ appears in a tale with the eagle, and is killed by the chicken-hawk.

Turtle.—The mnd-turtle $(k\bar{a}' u\bar{a})$ appears in a tale with the beaver chief, whom he kills by cutting off his head. He is afterwards thrown into the river, and escapes.

Other characters appearing in these tales are Indians, white men, giants, spirits, the heavenly bodies, &c.

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ALL REAL PROPERTY.

Most of the tales are old, and in but two or three the white man appears, and in these he is represented as doing something ridiculous or obscene.

/ The Indians and the animals are so confused at times that it is impossible to say where the human and where the animal character predominates. Old men and women appear very often.

The spirits, who appear with great frequency, are represented as giving advice, being consulted by, or interfering with the actions of, the various characters. In one tale a mountain spirit is represented as harassing the Indians very much, depriving them of game, and killing the hunters who ventured up the mountain. He is finally outwitted by the coyote.

There are several giants, the principal being the monster $y\bar{a}w\bar{o}'En\bar{e}k$, who is represented sometimes as human, sometimes as a fish, and sometimes as a huge lake animal. He is shot by the chicken-hawk for outraging his wife, and this brings on the deluge. One of the giant tales is as follows:—A woman was out picking berries, and her child was lying on the ground near her. A giant $(\bar{e}'k\bar{a})$ came along, and said to her, 'How is it that you have made my brother (*i.e.*, the child) so white and smooth?' 'Oh! I roasted him,' said the woman. Then said the giant, 'Roast me too; I want to be white and smooth.' So she set the giant to work to dig a big hole, put plenty of wood into it, and lay stones on top. On this grass was placed, and the giant lay down, and the woman piled grass, earth, and stones on him, so that in spite of his efforts he could not rise, and was roasted to death. The woman then went home, saying to her people, 'I have killed the giant.'

As mentioned above, the moon and the stars $(\bar{a'}qkitln\bar{o'}h\bar{os})$ are represented as occasionally visiting the earth. In one tale the star kills the eagle, who is found sitting on the branch of a tree.

Two very interesting tales are those of 'Seven Heads' and 'Lame Knee.' The first tale in abstract is this:—There was a young man, and his name was 'Bad Clothes' $(S\bar{a'}n\bar{u}k'dl\bar{a'}Ent)$, and he determined to find 'Seven Heads' (*Wistādlā'dlām*) and kill him. After searching for some time he met him, and the two fought, and 'Seven Heads' was slain. The youth returned home in triumph, carrying with him the tongues of the monster as a trophy.

The outline of the story of 'Lame Knee' is as follows:— $K\bar{o}'m\bar{a}tlk'a'nk\bar{o}$, or 'Lame Knee,' runs off with the wife of a chief and outrages her. The chief pursues, and, overtaking 'Lame Knee,' cuts off his head with a knife and throws it away, but as it rolls along the ground the head appears to laugh very much. He then cuts off one arm at the shoulder, and afterwards the other; and also the two legs are cut off one after the other. Only the trunk of the body is left, and this the chief gashes all over with his knife. At night singing is heard, and 'Lame Knee,' having risen to life again, kills the chief and departs, taking the latter's wives with him.

Regarding the relations of Kootenay mythology to the mythologies of other Indian tribes, not much can at present be said. 'The coyote myths seem to point to the mythic cyclus of the Indians to the south-east, from he Nez Percés to the Navajos; the Deluge legend has an Algonkian spect; and some of the other legends point to the Sioux, and the ribes of Western British Columbia. But more study is necessary to make out definitely any points of contact. 3

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I might here add a note on bird-cries. The Kootenays claim to interpret the following :---

Owl says: kā'tskāki'tl pā'tlkē; or, ktsē'tlkenētl pā'tlkē.

The bird called $yi'kitsn\bar{a}$ calls out: $isk\bar{e}'tl\bar{o} k\bar{a}'n\bar{o}qy\bar{u}'qa\bar{o}=$ 'no more buckskin horses.'

The tomtit says: $tl\bar{o}'maiy\bar{e}t$! $tl\bar{o}'maiy\bar{e}t$! = 'spring! spring! (No more snow! no more snow!).' The Indians like this bird very much.

The robin says : $\bar{o}kw\bar{a}'n\bar{u}kt\bar{e}'tlamtc\bar{i}'y\bar{a}! =$ by-and-by plenty of rain !'

SIGN LANGUAGE.

Sign language is still in use to a considerable extent amongst the Upper and Lower Kootenays. The writer was able to obtain the following, known to members of both tribes :---

1. Across.—Same as first sign, described under 'Across,' in Clark's 'Indian Sign Language' (1885), p. 24.

2. Afraid.—Hands extended in front of body, back of hand outwards, index finger extended, rest of hand closed; the hands, which approach quite close to each other, are withdrawn with a downward movement to a distance, and in a degree corresponding to the fear to be expressed. See Clark, p. 25.

3. All.—Right hand held in front of breast, palm downwards, moved around horizontally. Same as Shushwap sign for 'all.' See 'Report,' 1890, p. 639.

4. Angry.—Right hand closed, moved rapidly before and close to forehead, keeping back of hand always to right. See Clark, p. 31.

5. Aze.—Left forearm extended in front of left side of body, hand bent at wrist and fingers inclined downwards; then right hand with thumb and forefinger (rest of hand generally closed) seizes left hand just above wrist. See Clark, p. 56. Downward motion of hand to imitate chopping.

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6. Bad.—Same as sign described by Clark, p. 58, except that the downward motion is not very marked.

7. Bark.—Index of left hand held up stiffly, rest of hand closed or fingers drooping; right hand, limp, is then passed around index finger of left. The idea is 'stick-around.' See Clark, under 'Grass' and 'Tree,' pp. 192, 383.

* 8. Basket.—Elbows resting against sides of body, bring points of fingers together, so as to form rude half-circle. See Clark, under 'Kettle,' p. 227; 'Basket,' p. 62.

9. Beads.—Bring right forearm horizontally in front of body above breast, thumb touching index near the end of the latter; pass hand to and fro across neck, other fingers drooping. Compare Clark, p. 63.

10. Bear (Grizzly).—Close the hands (or sometimes let the fingers droop) and hold them close to side of head, near ears, with backs towards head. Sometimes the hands are shaken or moved about slightly, to indicate better the 'ears,' which are the basis of the sign. Clark says a similar sign is used by the Crows (p. 63).

11. Bear (Black).—Same sign as for grizzly bear, with the addition of raising hands, with thumb and index placed together, to the level of the eyes, and pointing to the outer corners of the latter. The conception *small eyes' is at the base of this sign.

12. Beaver .- Same as Shushwap sign described by Dr. Boas in

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'Report,' 1890, p. 639, with the addition that the right hand is given an up:and-down motion to imitate the movement of the animal's tail.

13. Bell.—Right hand, with fingers drooping, brought close in front of neck and given a wagging motion.

14. Belt.—Bring the hands (flat) together at middle of waist, then move them gradually backwards across body.

15. Berries.—Same as sign described by Clark under 'Rosebud,' p. 321. Sometimes, however, the sign for 'small' is made with right hand, by bringing thumb and index of right hand together a short distance from end of index; then the motion of picking something off the back of the left hand is gone through.

16. Bird.—Crook arms at elbows, hold hands up with palms turned somewhat outward, and give hand an upward and downward motion, fingers drooping, gradually increasing the elevation of the hands.

17. Black.—Touch hair with right hand, and rub back of left hand with right hand.

18. Blunket.-Same as sign described by Clark, p. 73.

19. Blind —Shut eyes, bend the head slightly, and with hands closed, backs turned upwards, touch the eyes with the thumb and forefinger of each hand.

20. Blood.—Hold hands together (forefingers parallel, other fingers and thumb drooping) near mouth; make slight motion of hands forwards and upwards. See Clark, p. 74.

21. Boat.—Both hands brought close together in front of body, and then moved alternately to right and to left and downwards.

22. Bone.—Rub with forefinger of right hand the left hand at bony part of wrist.

23. Bow and arrows.—Left hand extended in front of body, palm towards breast, then pass right hand backwards over left, for motion of drawing arrow and shooting. Compare Clark, p. 76.

24. Bread.—Hold hands, fingers closed, palms up, in front of body, then alternately move hands together and open and shut them.

25. Break.—Same as sign described by Clark, p. 81.

26. Bullet.—Hands extended in front of body, fingers and thumb drooping, forefingers held parallel; then right forefinger is made to touch left forefinger, and to pass quickly forward, touching its whole length.

27. Colour.—Same as sign for 'black.'

28. Come.-Same as sign described by Clark, p. 122.

29. Come here.—Raise right hand, palm down, above head, give hand an up-and-down motion, and then move it backwards more or less quickly.

30. Deaf.—Press both ears with palms of hands, then raise them a little and move them to and fro over ears.

31. Drink.-Same as sign described by Clark, p. 156.

32. Dumb.—Place right forefinger or palm of right hand on lips.

33. Evacuate the bowels.—Assume stooping position, pass right hand, index extended, rapidly across region of buttocks in the direction of the ground.

34. Fish.—Same sign as described by Dr. Boas for the Shushwaps, 'Report,' 1890, p. 640.

35. Fly.-See 'Bird.' Same sign used for both.

36. Great, large.—Hold the arms extended at full length, fingers stretched in front of body, so as to give idea of large half-circle.

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37. Hungry.—Touch or rub abdomen; or open mouth and move fingers of right hand, so that the ends, fingers drooping, are just within the mouth. sh

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38. Lake.—Same as Shushwap sign, described in 'Report,' 1890, p. 640.

39. Length.—Extend the left arm in front of body, and with index finger of right hand mark off on the left arm, beginning with the ends of the fingers for small objects, portions corresponding to the distance meant.

40. Mountain.—Same as sign given by Clark, p. 262. Rocky Mountains.—Same action performed with both hands at once.

41. Night.—Same as sign for 'nightfall' amongst the Shushwaps. 'Report,' 1890, p. 640. '

42. Paddle.—See 'Boat.'

43 Red.—Move right hand, palm inwards, towards cheek, rub cheek with ends of fingers. This sign arose from the *red* paint used by the Kootenays. Another sign is to touch the tongue with the forefinger of the right hand, to which is added sometimes the sign for 'colour.'

44. Ride.—Same as sign for 'rider' with Shushwaps. 'Report,' 1890, p. 640.

45. Rock.- Same as Shushwap sign. 'Report,' 1890, p. 640.

46. Sleep.—Bring the hands, palms inwards, close to sides of head, close eyes, and incline head towards the left and slightly downwards, so as to appear resting on palm of left hand.

47. Small.—Extend right hand in front of body, press second, third, and fourth fingers against palm; extend index finger, and place thumb against it a short distance from the end.

48. Snake.—Stretch out right band in front of body, palm inwards; press thumb, second, third, and fourth fingers against palm, extend index, and with it make sinuous motion to imitate movement of snake.

49. Sunrise.—Same as Shushwap sign. 'Report,' 1890, p. 640.

50. Sunset.--Reverse of sign for 'sunrise.'

51. Water.—Same as sign for 'drink.'

Following are a few of the signs used to denote individuals of various Indian tribes :---

Flatheads.—Palms of hands, fingers pointing upwards, pressed against sides of head.

Pend d'Oreille.—Sign for 'boat' or 'paddling.'

Nez Percés.—Index finger of right hand pressed against cartilage of nose, to give the idea of 'pierced nose.'

Shoshoni or Snake Indians.-Sign for 'snake.'

III. PHYSICAL CHARACTERISTICS.

The Kootenay Indians are physically well-developed, and between the various groups there appear to be no well-marked differences. Their stature places them amongst the tallest tribes of British Columbia, nine out of thirty-six adult males, or one-fourth, having a height of more than 1,739 millimetres, and one individual actually measuring 1,846 millimetres, while three others were 1,767, 1,760 and 1,770 millimetres respectively. Two-thirds of the individuals measured are included between 1,660 and 1,779 millimetres, with an average approximately at 1,690. The women, if we may judge from the few cases here recorded, are much

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shorter than the men: three females, aged 14, 18, 40, measured respectively 1,557, 1,570, and 1,582 millimetres. There appears to be not so great a difference between the heights of the boys and girls.

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The index of finger-reach seems to be slightly less than that of the Bilqula and some other tribes, two-thirds being found between the indices 102 and 106, but nearly one-third falling below 102.

The index of height-sitting is also lower, two-thirds having an index of from 50 to 53, and but ten cases out of thirty-five having an index of more than 53.

The index of length of arm has the largest number of cases at 45, and two-thirds of the total come within the limits 43 to 46.

The indices of height and width of shoulder are more variable. The index of height of shoulder shows the greatest grouping (ten cases out of thirty-four) at 85, and between 82 and 84 two-thirds (twenty-two cases) occur. Of the indices of width of shoulder two-thirds (twenty-one cases) are found ranging from 18 to 20.

The indices of face show a range from 77 to 93, with the greatest accumulation (nine cases out of thirty-two) at 88, and having nearly onehalf (fifteen cases out of thirty-two) the number of cases with an index of between 86 and 89. The facial index of the Kootenays is therefore higher than that of the western tribes of British Columbia.

The indices of the upper part of the face have their greatest grouping at 55 (eight cases out of thirty-three), and nearly two-thirds are contained between 52 and 57, while eight cases, or nearly one-fourth, are above 57.

The nasal indices show the greatest grouping (six cases out of thirtyfour) at 70, and there is none below 58.

Thus far we have dealt with adults alone. It seems allowable in the case of the cephalic index to include all individuals of five years and over. This gives us, of pure blood Kootenays, seventy males and fourteen females. Of the females, thirteen have an index of over 78 (corresponding to 76 on the skull), and eight have an index of more than 83 (81 on the skull). If one is to judge from these fourteen cases, the Kootenay women are brachycephalic; a fact which would correspond with their seemingly much shorter stature. This apparent brachycephalism may, however, be the result of the comparatively small number of individuals measured.

The cephalic indices of the males range from 72 to 86 (corresponding to 70 and 84 on the skull), with the greatest grouping at 77 (75 on the skull). Fifty-five cases are found below 80 (78 on the skull). More than half are thus mesaticephalic. It is just possible that we have here an intermixture of a brachycephalic type, but this would perhaps be sustained if several hundred measurements had been taken.

The cephalic indices of the half-breeds show considerable variation, and the females tend towards brachycephaly, as was the case with the pure Indians.

It is usually impossible to obtain the weight of aborigines owing to the lack of weighing apparatus; hence the few cases here recorded will be of considerable interest. They are presented on next page rearranged according to age:---

These measurements were taken when the Indians had a normal amount of summer clothing on.

The average weight of thirteen adults (from 19 to 59 years of age) is 151 pounds.

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Name	Age	Weight in Pounds	Name	Age	Weight in Pounds
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André	45	31	AmElū .		150
Skū'kEm Joe Nána .	5	46	Kaplō	. 26	
Pol Nána	5 5	48 <u>1</u>	Pol.	. 28	$150\frac{1}{4}$
Piel	: 10	64	Salwā Q	. 31	147
Più	. 14	100	Sku'kem Joe	. 33	1561
Baptiste	15	123	Simō K.	. 51	141
André	16	1341	Wilvam Q	. 51	1474
Piel	: 19	142	Dominick .	. 59	1495
Eusta	19	177	Blaswā	. 60+	146
Eustace Benwil	19	137	Old Joe	. 65	135
Joseph	90	1341		1	

The eyes of the Kootenays are dark-brown, the hair straight and black. There are, however, quite a number of cases of brown hair; but as these seem to occur with children and those adults who habitually go bareheaded, the difference in colour may be attributed to exposure to the air and sunlight. In a few cases also the hair is quite wavy, in some, even curly; and one of the Fort Steele Indians is nicknamed 'Curly' (Kantlu'mtlam) from this fact. But one or two cases of the 'Mongolian eye' were observed, the Indian Giaqkātl Sālō being one.

The colour of the skin is, in general, brown, varying from rather dark to a dirty white. Many of these Indians, as far as colour of skin is concerned, would be quite indistinguishable from the dark-skinned natives of Southern Europe. The contrast between them and the Chinese—the writer had the opportunity of seeing them very often together—is marked, and they would never be mistaken one for the other by experts.

Hair on the face and body is not common on account of the practice of removing the hairs which the Indians more or less practise. Still, beards and moustaches are possessed by some of the Indians. Kootenay Pete, an old Indian of Columbia Lakes, had a white beard, small in size, but at least 60 millimetres long; Chief Eustan, of the Lower Kootenay, had a number of white hairs on his chin; and another Indian of the same tribe, aged about 60, had a slight beard and moustache, both whitish, and dark and heavy eyebrows; an Upper Kootenay, aged 31, had also a slight beard. An Indian, named Blasois, aged 17, had a few hairs on his nose.

The noses seem rather flat. The shape of the nose itself varies; the largeness of the nostrils is very striking in many cases, as is also the depressed root of the nose with prominent glabella. The nose of one Indian was so perceptibly large that it formed a constant point for the merriment of his fellows, and one of the names of the Indian Patrick $(G\bar{a}'tlem\bar{a}'kastl\bar{a}'ek\bar{a}k)$ refers to his 'big nostrils.' The point of the nose is in most cases short. Straight noses with pointed ends are not unknown.

In a few cases the ears of Indians are distorted and lengthened by heavy earrings. The ears of the great majority are, however, mediumsized, most often with round and attached lobe.

The mouths of many of the Kootenays seem disproportionately large, and the lips are often very thick, as in the case of the Indian A'mElū, whose ears, it might be remarked, were rather small.

The teeth of these Indians are remarkably well preserved, the writer having seen but a single case of caries, and that in a boy. The chins are,

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Tribe	F. Lower Kootenay M. Upper Kootenay	F. Upper Kootenay and Lower Kootenay, Métis M. Flathead Kootenay (Part Colville)	F. Colville M. Flathead Kootenay	F. Upper Kootenay M. Yakima	F. Métis (French and Cree or Ojibway from N. W. T.) M. Upper Kootenay (Columbia Lakes)	F. English M. Tobacco Plains Kootenay		•]		F. Métis, Scotch and ¹ / ₄ Otoi'pwê M. Lower Kootenay	F. White M. Lower Kootenay	I	,	;	
Age	26	59	20	22	8	7	9.	19	. 2	14	27	4	5	9	14
Height, standing Height of shoulder Height of point of second finger . Length of arm Finger-reach Height, sitting Width of shoulders	mm. 1,745 1,436 668 768 1,799 910 375	mm. 1,680 1,420 615 805 1,714 819 375	mm. 1,644 1,392 658 734 1,714 866 392	mm. 1,702 1,441 622 819 1,785 907 385	mm. 1,228 990 460 530 1,227 649 256	mm. 1,208 972 431 541 1,212 669 249	mm. 1,260 1,038 441 597 1,312 679 265	mm. 1,653 1,405 649 756 1,631 851 351	mm. 705 — — 709 428 151	mm. 1,575 — — 1,638 — 264	mm. 1,693 1,435 652 783 1,755 918 317	mm. 1,094 855 374 481 1,100 616 218	-mm. 1,175 960 385 575 1,185 636 241	mm. 1,386 1,142 512 630 1,412 730 277	mm. 1,661 1,373 622 751 1,703 856 292
Length of head Breadth of head Distance from root of nose to chin . Distance from root of nose to be- tween lips	195 150 132 79	195 152 125 81	196 156 115 77	205 153 143 • 86	177 137·5 96 64	$ \begin{array}{r} 177 \\ 143 \\ 98 \\ 62 \end{array} $	$ \begin{array}{r} 173 \\ 146.5 \\ 93 \\ 65 \end{array} $	182 150 113 73·5	153 130 90 58	187 155 111 84	186 143 115·5 76	165 132 98 67	176 136 89 64	185 136 103 73	200 141 120 71
Width of face . . . Height of nose Width of nose 	145 55 43	143 62 45	143 55 - 43	151 58 44	121 45·5 30	120 46 33	127 50 27	131 54 33	108 33 26	135 56 32	139 57 35·5	121 40 25	116 38 30	, 119 50 31	13 4 3
Weight in pounds	150	. 149 1	134]	177		_	-						· ·		
Indices: Height of shoulder Index of length of arm Index of finger-reach Index of height, sitting Index of width of shoulders Cephalic index Index of upper part of face Facial index Nasal index	82·3 44·0 103·1 52·1 21·5 76·9 54·48 91 03 78·17	84.71	84.7 44.6 104.2 52.7 23.8 79.6 53.83 80.42 78.17	84·7 48·1 104·8 53·3 22·6 74·6 56·95 94·70 75·86	80°6 43°2 99°9 52°9 20°8 77°6 52°89 79°33 65°94	80.5 44.8 100.3 54.1 20.6 80.8 51.66 81.66 71.73	$\begin{array}{c} 82 \cdot 4 \\ 47 \cdot 4 \\ 104 \cdot 1 \\ 53 \cdot 9 \\ 21 \cdot 0 \\ 84 \cdot 5 \\ 51 \cdot 18 \\ 73 \cdot 23 \\ 54 \cdot 00 \end{array}$	85.0 45.7 98.7 51.5 21.2 82.4 56.10 86.26 61.11		104·0 16·8 82·9 62·22 82·22 82·22 57·14	84.8 46.3 103.6 54.2 18.7 76.9 54.68 82.73 62.28	78·2 44·0 100·5 56·3 20·0 80·0 55·34 62·50 80·98	76.72		3 90.

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		48 49	(mother of Nos. VII. 2, VIII. 1, 2, 3, 4) Anne Kis'nukqtittlä (mother of wife of Nother 1 97)		0 68		82 1,412 - 1,210 - 477 - 733 - 1,510 - 756		- 110	110 73 131	- 110 - 73 - 131 - 61
			or Widh, No. 33) Anne McLaughlin (mother of Nos. VII.		40				1	-	-
-	47		Sùla'ia (daught or of Widli, No. 33)	Lower Kootenay	5	-	mm. 1,011 805 368 437 968 601 201	166 143 100 65.5	119	45 28·5	45
		46	Old Joe	Lower Kootenay	65		mm. 1,555 1,300 568 732 1,650 850 336	194 156 118 81		151 60 42	60
	1	45	Sakalie (father of No. 4)	Lower Kootenay	60		1,270 543 727	189 155 127 80	•	135 60 40·5	60
			Giāqkātl Sālo	Lower Kootenay	60*		mm. 1,685 1,402 609 793 1,725 851 307	206·5 160 137 91	- I	151 62 43	62
	1	- 43	Simõ Ska'tlāki'nē (father of No. 25)		60		mm. 1,653 1,420 631 789 1,785 879 341	216 156 127 84		141 63·5 41	63·5
	<u></u>	42	Eustā Tlauko'kē	Lower Kootenay	60		mm. 1,710 1,445 622 823 1,775 903 324	200 156 132 80·5	140	$\begin{array}{r}140\\62\\47\end{array}$	62
per :			Ku wa	Lower Kootenay		 mm.	1.590	203 150 122 77	120	$\begin{array}{c} 132\\57\\42\end{array}$	57
	-	Ŧ		T	4	m 1,6	6. 7 1,7	1 1 8'	14	4	
	39		Alexandre (deaf and dumb)	Lower Knotenay	45	mm. 1,695	1,428 682 746 1,725 924 313 191	151 120 77 142		64 43	64 43
	38		Cilise (father of No. 29)	Lower Kootenay	45*	mm. 1,770			-		
	37	·	Justori Kama'ktca nô'os	Lower Kootenay	40*	mm. 1,760	1,575 733 842 1,765 919 330 	151 119 82 137	61		
	36	·	Charlie Atli'ma (father of No. 8)	Lower Kootenay	39	mm. 1,611	$ 1,354 \\ . 630 \\ 724 \\ 1,701 \\ 843 \\ 342 \\ \hline 194 $	146 119 78 138	60 5	39 	
· · · ·	35		Jim Awit	Lower Kootenay	- 35	mm. 1,683	$ \begin{array}{r} 1,434 \\ 721 \\ 713 \\ 1,713 \\ 849 \\ 318 \\ \hline 186 \\ \end{array} $	143 114 80 136 59	03	41 —	
	34		Alexandre	Lower Kootenay	35	mm. 1,695	1,442 698 744 1,772 937 309 200	$155 \\ 120 \\ 76 \\ 135 \\ 55 \cdot 5$	0.00		39
	33		Widli (father of No. 5)	Lower Kootenay	35	mm. 1,623	1,3616297321,724853326191	$ \begin{array}{r} 141 \\ 128 \\ 80.5 \\ 132.5 \\ $	63	40	40
	32		Michel	Lower Kootenay	33	 1,741	1,452 692 760 1,793 888 350 195	$161 \\ 115 \\ 78 \\ 148 \\ 60$		42·5	42.5
	- 31		Sků'kEm Joe (father of No. 3)	F. Flathcad Kootenay M. Lower Koutenay	33	mm. 1,662	1,375 600 775 1,710 905 390 	$157 \\ 112 \\ 73 \\ 145 \\ 52$		44 156 ¹ / ₂	<u> </u>
	30		Luc (father of Nos. 1, 2)	Lower Kootenay	30	mn. 1,70	1,4 3 6 5 7 8 1,85 90 38 	10 18 11			
	29	·	Dominick (son rf No. 38)	Lower Kootenay	28	m m. 1,7 14	1,714 1,450 650 800 1,824 985 312 208	150 ^{.5} 119 78 140	65	65 38·5	3 8·5
	28		Tom	I.ower Kootenay	2	тч. 1.6 В	1,6 8 1,3 8 65 68 1,59 89 39	17 11 785 18	8	85 	
	2	+	(brother of No. 21)	Lower Kootenay.	28	mm. 1.724	659 806 1,772 919 328 188.5	151 127 88 144	• 61		61 40
	26		Fouts (son of No. 43)	Lower Kootenay	27	mm. 1,710	652 797 1.791 903 321 191	159 112 7 149	52.5		52·5 40 —
	25		Alexandre	ere son Lower Kootenay	27	m m . 1,7 2 4	1.428 661 767 1,799 903 341 201	160 117 73 140	5 5 •5		5 5 •5 41
	24		John Alexander	Lower Kootenay	25	mm. 1,732	1,4317227091,812931350195	$ \begin{array}{r} 164 \\ 120 \\ 80 \\ 145 \end{array} $	61		61 44 —
I. N	23	·	Jim Môs	Lower Kootenay	25	mm. 1,710	$ \begin{array}{r} 1,429\\661\\768\\1,821\\909\\316\\\hline201\end{array} $	$156 \\ 124 \\ 78 \\ 140$	58		58 38
	22		Paul	Lower Kootenay	25	mm. 1,732	463 659 804 791 939 331 4·5	166 121 75 136·5	60		60 43 —
	21		Eustã (brother of No. 27	Lower Koolenay	21	mm. 1,644	1,4 6 1.7 9 3 19	$152 \\ 119 \\ 72 \\ 134$	56	56 40 —	40
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	19	-	Joseph Michel	Lower Kootenay		03	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	130 1 75 141 1		56·5 40)
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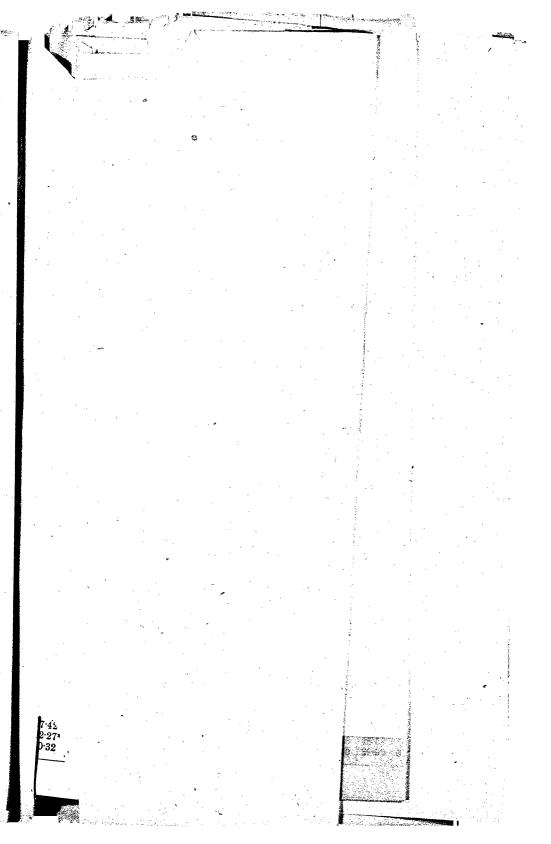
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24 I. Lower Kootenay. 1 Jake 1 Male 1 1 Male 1 Male 1 1 1 Male 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			'p_						II.	Low	er Koo I. M		<i>y</i> .	· .			
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					Lower Kootenay	Lower Kootenay	. Lower Kootenay		Lower Koolenay	Lower Kootenay	Lower Kootenay	т. Т ⁷ лофолоф	TOWEL PRODUCTION	Lower Kootenay	A HANDARD AND AND AND AND AND AND AND AND AND AN	Lower Kootenay	Town Rooter
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Number 1 Name 1	André t Pol Nána (son of o No. 21)		Moïse	B	Louis Tlugat		Antoine Hahien		Baptiste	John Alexander	André	Piel	Eusta (son of No. 27)	Eustace Benwil	Joseph	-	Pol	Adrien	Sallooa Tlittlētl (blind)	Alexandre	Simo K'sû'qwitl	Wilya'm Tlùmqo- qêkê	Blaswū	Ulbã (Âbēr)	Nancy Joseph	Sophie Joseph (sister of No. 29)	Marie André	Sophie Matthias	Anastasie	Anne Luc	Mary Paul (daugh- ter of No. 21)	Elise François	Josephine Matthias	Sophie Adrien	Catherine	Susit
Upper Kootenay	Upper Kootenay Tobacco Plains Kootenay	Upper Kootenay	Upper Kootenay Upper Kootenay	Upper Kootenay	Columbia Dakes Kootenay	Columbia Lakes Kootenay	Upper Kootenay Upper Kootenay (had leg	broken some monutus before being measured) Upper Kootenay	Upper Kootenay	Columbia Lakes Kootenay	Upper Kootenay	. Upper Kootenay	F. Lower Kootenay M. Upper Kootenay	F. Lower Kootenay M. Upper Kootenay	Columbia Lakes Kootenay	Upper Kootenay	Tobacco Plains Kootenay	Upper Kootenay	Upper Kootenay	Upper Kootenay	Tobacco Plains Kootenay	Tobacco Plains Kootenay	Upper Kootenay	Upper Kootenay	Columbia Lakes Kootenay	Columbia Lakes Kootenay	Upper Kootenay	Tobacco Plains Kootenay	Columbia Lakes Kootenay	Upper Kootenay	Tobacco Plains Kootenay	Upper Kootenay	Columbia Lakes Kootenay	Columbia Lakes Kootenay	Upper Kootenay	Upper Kootenay
Age2	4 51	8	9 10) 11	12	13	13 1	13 14	15	15	16	19	19	19	. 20	. 21	28*	30	31	45	51	51	60*	60*	7.	. 9	_11	11.	11	11	12	13	13	14	18	70
Height, standing mm. Height of shoulder 606 Height of point of second finger 250 Length of arm 356 Finger-reach 790 Height, sitting - Width of shoulders 218	870 1,120 688 912 292 392 396 520 840 1,110 513 607	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	nm. mn 280 1,31 041 1,07 452 48 589 59 277 1,41 705 68 272 28	$\begin{array}{rrrrr} 14 & 1,362 \\ 74 & 1,120 \\ 80 & 486 \\ 94 & 634 \\ 13 & 1,378 \end{array}$	1,254 582	$\begin{array}{c ccccc} 1,315 & 1, \\ 1,110 & 1, \\ 510 & \\ 600 & \\ 1.421 & 1, \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	100. mm. 468* 1,531 214 1,258 543 573 671 683 506 1,559 760 788 298 297	1,610 1,348 633 715 1,650 834	563	mm. 1,685 1,432 622 810 1,755 898 342	1,735 1 1,451 1 721 730 1,751 1	732 830	1,674 1,420 660	1.381	mm. 1,675 1,430 638 792 1.760 816 354	mm. 1,734 1,478 685 793 1,815 886 377	mm. 1,767 	mm 1,645 1,360 656 704 1,704 905 370	1,605 1.371 570 801	1,400 667 733	mm. 1,666 1,425 578 847 1,714 878 381	mm. 1,603 1,334 620 714 1,710 830 364	619	mm. 1,111 877 395 482 1,082 603 232	945 438 507 1,173 653 268	616 1,362 716 287	597 1,398 741	640 1,400 718	1,217 554 663 1,508 778	700 1,510 763	mm. 1,460 1,218 530 688 1,532 788 344	mm. 1,436 1,190 516 674 1,510 748 305	560 728 1,670 825 350	mm. 1,570 1,330 615 715 1,580 830 325	1,208 504 704 1,567 734 302
Length of head	95 100 62 62 124 135	145 100 65 120	144 14 104 19 64 7 127 19	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	87 140	93 63 127	147 108 65	197 197 148 146 109 112 67 71 134 132	153 117 70 139	143	201 151 123 80 143	193 146 121·5 69 141·5	201 170 132 83 149	195 145 128 82 135	193 152 128 81 145	199 155 130 81 145	200 150 130 77 148		198 163 120 73 148	185 152 122 80 138	196 153 130 80 148 60	190 160 135 89 132 64	198 170 130 78 150 56		163 134 90 63 115 45.5	149 98 68 125	100 66 126	105 70 130	72 130	$ \begin{array}{r} 109 \\ 68 \\ 140.5 \end{array} $	179 147 105 75·5 136	141	176 151 110 72 138	- 73	182 155 110 68 140	194 148 105 68 135 52
Height of nose	44 43	50·5 33	47 34	44 51 35 36	55·5 38·5	43 32		17·5 52 34 41	48 43	53 40	53·5 40	53 35	149 65 42	61 38	61 43	58 42	62 46	_	58 45	58 41	41	45	46		40.5 31	41	34.5		50 33	55 36	53·5 32	50 34	52 34	138 54 40	44 35	53 42
Weight in pounds 25	31 484		-	64 -	-		-	- 100	123	-	134 <u>1</u>	142	1773	137	153	-	150 1	-	147	-	14114	$147\frac{1}{4}$	146	-	-	-	-				-	-	-	-	151	135
Indices: Height of shoulder			81 3 81 46 0 45 99 8 107 55 1 51 21 3 21 77 4 83 50 39 55 81 89 95 72 34 79		83·9 45·0 00·5 52·2 19 7 79·4 62·14 81·42 69·36		81·3 8 44·4 4 00·5 10 53·6 5 21·8 2 79·0 7 50·78 5 84·37 8 70·10 7			82·4 44·2 99·64 55·1 21·0 78·7 49·65 83·91 75·47	85.0 48.1 104.15 53.3 20.3 74.8 55.94 86.01 74.76	83.6 42.1 100.92 53.3 20.5 75.6 48.93 85.81 66:03				85.4 47.3 105.07 48.7 21.1 77.9 55.86 89.65 72.41	85-3 45-7 101-67 51-1 212 750 5203 8783 7419		55.0 22.5 82.3 49 32 81 .08	49·9 105·60 55·0 17 9 82·2 57 97 88·40	53·4 23·7 78·1 54·05 87·83	`85.5 50.8 102.9 52.7 22.9 84.2 67.42 102.27* 70.32	51.8 22.7 85.9 52.00 86.66	47·1 104·8 — — — —	54·27 20·9 82·2 54·77 78·25	$\begin{array}{c c} 43.3 \\ 100.17 \\ 55.78 \\ 22.9 \end{array}$	45.6 100.88 53.03 21.3 86.5 52.38 79.37	54.68 23.3 82.6 53.84	46.5 101.8 52.2 22.2 81.4 55.3	83.7 45.6 103.6 53.5 23.5 84.0 8 49.1	47·3 102·0 51·6 21·8 82·1 55·51 8 77·20	54.0 23.6 84.2 46.80	$ \begin{array}{c c} 52.1 \\ 21.2 \\ 85.8 \\ 52.17 \\ 70.71 \end{array} $	85.8 52.90 81.88	84.7 45.5 100.7 52.9 20.7 85.2 48.57 78.57 79.54	77.8
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I. Upper Kootenays.

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			Samull Fiel	Andrê Pol Nåna (son of	No. 21)	Adolphe	9810189	Piel	Wilyä'm	(blind)	Alexandre	Sımo K'sü'qwitl		
17		Upper Kootenay	Unner Kootener	Tobacco Plains	Kootenay Upper Kootenav	Upper Kontenav	Unner Rootener	Unner Kootenaw	Automotion and a	Upper Kootenay	Upper Kootenay	Tobacco Plains Kootenay	· · · · · · · · · · · · · · · · · · ·	
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mm. 1,743 1,483 680 803 1,760 971 971		mm 785 600 250 356 790 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c cccc} 0 & 1,12 \\ 8 & 91 \\ 2 & 39 \\ 5 & 52 \\ 0 & 1,11 \\ \end{array}$	$\begin{array}{c c c} 0 & 1,18\\ 2 & 97\\ 2 & 422\\ 0 & 554\\ 0 & 554\\ 0 & 1,24\\ 7 & 661 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c cccc} 0 & 1,31 \\ 1,07 \\ 2 & 480 \\ 0 & 594 \\ 7 & 1,413 \\ 680 \end{array}$	$\begin{array}{c ccccc} 4 & 1,36 \\ 4 & 1,12 \\ 0 & 48 \\ 4 & 63 \\ 3 & 1,378 \\ 0 & 74 \\ \end{array}$	1. 2 0 6 4 3)	nm 645 ,360 656 704 ,704 905 370	mm. 1,605 1.371 570 801 1,695 882 287	mm. 1,670 1,400 667 733 1,784 891 395	· •	
3 82 19 59	1. 1.	170 132 82 58	173 151 95 62	179 149 100 62	145 100	144 104	147	186·5 150 110		198 163 120 73	185 152 122 80	196 153 130 80		
13		112 40 30	124 44 29	135 43 34	120 50·5 33	127 47 34	131 44 35	127 51 36		$\begin{array}{r}148\\58\\45\end{array}$	138 58 41	148 60 41		
	• 8	25	31	· 481	-		64		-	147	—	1411/4		
3	4 0.5 2 5.8 6.	77.5 45.5 101.02 27.9 77.6 51.78 73.21 75.00	79·1 45·5 96·55 58·96 24·71 87·3 50·00 76·6 65·9	81·4 46·4 99·1 54·2 22·8 83·2 45·92 74·07 77·27	82.4 46.8 104.7 55.8 20.9 80.6 54.16 83.33 65.34	81·3 46·0 99·8 55·1 21·3 77·4 50·39 81·89 72·34	81.7 45.2 107.6 51.8 21.7 83.5 55.73 95.41 79.54	82·2 46·7 101·2 54·3 22·5 80·0 55:51 86·61 70·59		32.7 12.8 33.64 55.0 22.5 32.3 19.32 31.08 77.58	85.4 49.9 105.60 55.0 17.9 82.2 57.97 88.40 70.6 8	83.8 42.9 106.8 53.4 23.7 78.1 54.05 87.83 68.38	1(4 4 10 7	

as a rule, well formed, both in men and women. The foreheads appear to be broad and straight. In the case of an Indian (André) aged 16 the distance from chin to the hair-line was 187 millimetres. The glabella is generally 3 to 4 of Broca. The superciliary ridges are quite prominent in many cases. The faces seem broader than they really are, and the checkbones often prominent. The limbs appear to be well-shapen, but in not a few cases the hands are rather large, the shoulders stooped, or the legs bandy.

To distinguish a Kootenay from an Indian of some other tribe may be at times difficult : mix one Shushwap amongst a few dozen Kootenays, or vice versa, and he may remain perhaps undetected; but arrange twenty Kootenays in a line facing twenty Shushwaps or twenty Stonies, and the great difference that really exists between them will flash on the observer in a moment, and if another Shushwap or a Kootenay happens to come along he will unhesitatingly be assigned to his proper place. The writer had no difficulty in picking out two Crees from a number of Blackfeet, who were in a line opposite a number of Kootenays. The ensemble of the Blackfeet was broken by the presence of these two Crees, and the conviction that they were not Blackfeet came at once. Many of the mistaken theories of Iudian origins and of the exact resemblances of far distant tribes may arise from the fact that the observer who relates his experiences has never seen, say, a hundred individuals of each tribe drawn up in line opposite each other, and been able to get, as it were, a mental composite photograph of each ethnic group. When twenty Chinamen and twenty Kootenays are placed opposite each other in like manner, no one would for a moment judge them to be the same, or even similar.

The tables opposite contain measurements of forty Upper Kootenays, forty-nine Lower Kootenays, four Kootenay Métis, eleven Kootenaywhite Métis, making a total of one hundred and four individuals, of ages ranging from two to seventy years, and coming from all parts of the Kootenay country.

The measurements were taken in a manner similar to that described by Dr. Boas, in 'Report,' 1891, p. 425, and the indices calculated in like manner. Very few females could be measured on account of the prejudices of the Indians.

The measurements were as follows :----

Height, standing.

of acromion.

Distance from naso-frontal suture to chin (height of face).

", ", point of second finger. Finger-reach.

Height, sitting.

••

Width between acromia. Length of head.

Breadth of head.

Distance from naso-frontal suture to between the lips (height of upper

part of face). Width between zygomatic arches

(width of face).

Height of nose. Width of nose.

The length of the arm is obtained by subtracting the height of the cint of second finger from the height of the acromion. The weight thich was obtainable in but few cases is given to quarters of a pound, om an excellent scale in the store of Mr. Galbraith.

The ages, especially of the Upper Kootenays, may be relied upon as eing as nearly correct as possible, the margin of doubt being very small.

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REPORT-1892.

The tribes of the father and mother are given, where such could be ascertained, and the relationship of the various individuals is indicated.

The following tables exhibit in a more condensed form the measurements contained in the preceding pages, and need no special explanation :

	and a second sec					Cen	timet	res						Number
Tribes	160 161	162 163	164 165	166 167	168 169	170 171	172 173	174. 175	176 177	178 179	180 181	182 183	184	of Cases
Lower Kootenay Upper Kootenay Mixed Upper and Lower Koote- nay	2 1	1	21	1 5 -,	4	4	42	3 	3 1		-		1	24 11 1
Total	3	1	3	6	4	4	6	4	4	_		-	1	36

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Stature, Kootenay Males (19-51 years).

Index of Finger-reach, Males (19-51 years).

Tribes						Pe	rcent	. of \$	Statu	re						Number
	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	of Cases
Lower Kootenay Upper Kootenay Mixed Upper and Lower Kootenay			1	3 1	3 2	3 1 	321	31	1 2	4	1 	-	-	-	-	22 10 1
Total .	-	1	1	4	5	4	6	4	3	5	•1	-	-	-		33

Index of Height, sitting.

—						· .]	Perce	ent. o	f Sta	ture						Number
Tribes		47	48	49	50	51	52.	53	54	55	56	57	58	59	60	of Cases
Upper Kootenay Lower Kootenay Mixed Lower and Kootenay	Upper		2	_	3	2 2 —	3 5 1	2 5	3	23	-	2		-		11 23 1
Total .	• •		2	-	3	4	9	7	3	5	-	2	_	-	-	35

Index of Height of Shoulder.

					Per	rcent	of S	Statu	re					Number
Tribes	77	78	79	-92	81	82	83	84	85	86	87	88		of Cases
Lower Kootenay Upper Kootenay Mixed Upper and Lower Koote- nay				-	-	3 2 1	6 2 -	7 1 -	5 5 —	=	=		1	23 10 1
Total	-		1		,	6	8	8	10				1	34

42

	Percent. of Stature	
Tribes	16 17 18 19 20 21 22 23 24 25	Number of Cases
Lower Kootenay Upper Kootenay Mixed Lower and Upper Kootenay.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22 10 1
Total	- 1 8 8 5 7 2 2	33

Index of Width of Shoulders.

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er es Index of Length of Arm.

	Tribes								Pe	rcent	of s	Statu	re				Number
						40	41	42	43	44	45	46	47	48	49		of Cases
Lower Kootenay Upper Kootenay Mixed Upper and	Lower	Koo	tenay	•	•	1 	_	2 2 	4	$\frac{4}{1}$	3 4 	5	2 1	-	1 1 		22 10 1
	Total	•	•.	•	•	1	-	4	5	5	7	5	3		2	-1	33

Cephalic Indices (Males over 5 years).

Tribes								Inc	lices							Number
	72	73	74	75	76	77	78	79	80	81	82	83	-84	85		of Casoa
Lower Kootenay Upper Kootenay Mixed Upper and Lower-Kootenay	2	2	1 3 —	3 3	$\frac{6}{1}$	6 2 1	5 3	4 3	2 2 -	3 	23	32	1 2	2 1	2	44 24 2
Total	2	2	4	6	7	9	8	7	4	3	5	5	3-	-3-	2	70

Cephalic Indices (Females over 5 years).

Tribes			•					I	ndice	s							Number
•		72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	of Cases
Lower Kootenay Upper Kootenay	•	-		-	_	ī	_	-	1	_	1	3	-	2	1 5		2 12
Total .	•	-	_	-		1	<u> </u>		1		1	3		2	- 6	·	14

REPORT-1892.

Tribes		•					···.,	Indi	ces							Number
THORS	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	of Cases
Lower Kootenay Métis Upper Kootenay Métis	_		-	=	1	1	_		_	-	1			-	=	12 1
Total	-	-	-	-	1	1		-			1		-	-	-	3

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Cephalic Indices (Métis, Kootenay and Whites, Males over 5 years).

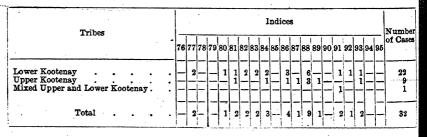
Cephalic Indices (Métis, Kootenay and Whites, Females over 5 years).

· ·								I	ndice	s								
Tribes						1										0.5		Number of Cases
	70	71	72 .	73	74	75	76	77	78	-79	80	81	82	83	84	85	86	
Lower Koote- nay Metis	1	-	·	1		-	-	1	-	-	1	-	-	-	-	-	-	4
nay Metis Upper Koote- nay Metis	-	-		-	-	_	_	. —	_		1	_	1		1			3
Total .	1	· —	-	1	_	-		1	-	-	2		1	-	1		-	7
							1											

Index of Upper Part of Face (Males, 19-51 years). Indices Tribes of Cases _ 1 1.1.

	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	й 6	67	
Lower Kootenay . Upper Kootenay . Mixed Lower and Upper Kootenay .		1		1	1	2 1	3	2 1 1	53		 1 	2	1	2 1	1			-				22 10 1
Total	-	- 1	1	1	1	3	3	4	8	2	1	2	1	3	1	-	- -	-	 -	-1	-	33

Index of Face (Males 19-51 years).



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Index of Nose (Males, 19-51 years).

Tribes												-	In	dio	es		. ,							_				Number
Trices	 58	59	6 0	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	of Cases
Lower Kootenay Upper Kootenay Mixed Upper and Lower Kootenay	-	2			1	1	31	2	1	- 1 	- 1 -	1	33	2	2 1	1	- 1 -			- 1 -	1	-	1	_			1	23 10 1
Total .		2			2	1	4	2	2	1	1	1	6	2	3	1	1		-	1	2		1		-		1	34

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IV. LINGUISTICS.

The Kootenay, spoken in two slightly differing dialects, the Upper Kootenay and the Lower Kootenay, forms a linguistic stock by itself. The writer's examination of the material he obtained does not lead him to expect any serious modification of this position. No traces of connection with, or relation to, the Blackfoot tongue were discovered, and except a seeming similarity in a few points of general structure to the Shoshonian and to the Siouan tongues, no points of resemblance except of the vaguest and pan-American kind have been found with the neighbouring languages.

The Kootenay is incorporative (both as regards the pronoun- and the nounobject), abounds in prefixes and suffixes, both in the verb and in the noun, has certain inflections of adverbs, nouns, and pronouns by suffixes, and possesses an elaboration of structure which the writer hopes to be able to explain and illustrate after a more thorough study of the linguistic material in his possession. The incorporation of the object-noun in the verb is characteristic of Shoshonian tongues, but the Kootenay is remarkably free from forms by reduplication, and so marks itself off from these languages in which that peculiarity is highly developed. The few details that the writer has been able to work out will be found in the

following pages.

As examples of the exceedingly composite character of the Kootenay language, a noun and a verb analysed into their component elements may be given here :

Crown of head = $\bar{a}qki'nk\bar{a}n\bar{u}'ktl\bar{a}'mnam = \bar{a}qki'nkan$ (top) + $\bar{u}k$ (point) + $tl\bar{a}m$ (head) + nam (= somebody's). Aqkink $\bar{a}'n$ is further to be decomposed into $\bar{a}q + kin$ $+k \bar{u} n$, the last being probably the radical for 'top.'

He is going to bite us = $tso\bar{a}tli'to an\bar{a}ma'sin\bar{e} = ts + c\bar{a}tl$ (prefixes of future tense) +itea(n) [to bite = it, to do + ea(n), with the teth] + -n-(verbal?) + $\bar{a}mas$ (= he . . us) + \bar{i} (verbal) + $n\bar{e}$ (verbal).

PHONETICS.

The Kootenay language possesses the following yowel sounds :-

			· .	0				
		German			ī a	as in 🛛	English	pique.
ā	as in	English	father.		0	,,	_,,	bond.
â	· ,,	,, `	all.		õ	,,	.77	bone.
ä	"	,,	am.		u	,,	,,	wood.
e	,,	"	pen.		ū	**	,,	boot.
ē	,,		they.		ai	•>	,,	aisle.
Ë		,,	fresh (exaggera	ted).	au			brown.
R	**	**	flower.		# 1	,,	,, '	b <i>oi</i> l.
. :	>>	,,	pin.		EI	as in	French	fauteuil.

There is a frequent interchange of vowels in Kootenay, the chief equivalents being as follows :-

> $E = a, \ddot{a}, \ddot{a}, \ddot{e}, e, \ddot{u}, o, \ddot{o}, \dot{i}.$ $i = i = e = \bar{e}$.

 $\bar{o} = \bar{u}$ (very common). i=0, ū, o, u, a.

The consonantal sounds of the Kootenay are :---

d, t, as in English. Often pronounced, however, more forcibly as t, d', g, k, as in English. Often pronounced, however, more forcibly as g', k'.

g, k, very guttural g and k, written by some authorities gr and kr. Uttered more forcibly as g', k'.

gy, ky; q, German ch in Bach; q approximately the same sound, but slightly less guttural; *n*. German *ch* in *ich*: *h* as in English; *y* as in English; *p* (uttered more foroibly as p'), *m*, *w*; *n*; *s* as in English; *c* = English *sh*; *ts*; *tc* = English *ch* in church; dj = English j; tl, explosive l, dl (dorso-apical); l.

The chief consonantal equivalents are :---

q = q = B = h; ts = tc = s = c; $\hat{t}l = dl$; d = t; g = g; k = k.

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The Kootenays can pronounce some of the letters which are not in their own language. The following lists, the one of French proper names bestowed on the Kootenays and their phonology as given by them, the other of English words, which the writer had the Indians pronounce after him time and time again in order to be sure of the phonetics, may be of some value :---

		I.		
French	Kootenay		French	Kootenav
Pierre	Piel.		Fabien	Bä'bīĕn'.
Joseph	Sūsep.		Adrien	Atlīĕ'n.
Gabriel	Käplīe'l.		Urban	Ulhū(n).
Sophie	$S \bar{o} p \bar{\imath}$.		Marie	Mālī.
Paris	$Par{a}lar{\imath}s.$		St. Pierre	Säpīèl.
François	Bläsnā.	· .	Antoine	Atonā'(n).
St. Louis	Säl'nā.		Patrick	Pätlik.
Nicholas	Nikĸū'la.			
	•	11.		
English	Kootenay's		English	Kootenay's
	rendering		U	rendering
hacon	pē'ken.		Johnnie	Tco'nī.
Bob	Bōp.		log	lo'k.
Bonner's Ferry	Be'mes Fä'lī.	1	lumber	le'mbe.
bread	bled.	• .	mission	mi'sen.
buffalo	bu'palō.		mush, (i.e. po	orridge) mes.
caribou	kä ⁷ lībū.	.)	Nelson	No'lsEn.
chipmunk	tci'tmrf.		nine	nāi'.
cigarette	siglä't.		owl	ā'ūEl.
coffee	ko' pī.		pepper	pe'pen.
corn	k'â' en.		père (Fr.)	päl.
crackers	tlä'kas.		pocket	pä'ket.
croak	tlok.		potato .	petë'te.
damn	täm.		rain	lēn.
den	dän.		rapid	lä'pit.
deer	dī′E.	•	rice	lais.
eleven	le'ben.	~	ride	laid.
ferry	tā'lī.		river	li'be.
fire	pā'ie; fā'ie.		rock	lok.
fish	pis; tis.		run	len.
five	fāi.		Rykert	la'iket.
flour	plä'ur.	•	salt	sâ'el.
fly	plāi.		Sand Point	San Pō'ī.
fork	fâk'.		seven	se'ben.
Fort Steele	Fo'te Stil.	÷	six	sik.
frog	flok.	•	skunk	sken k (no g sound).
	qūt.		sleep	
grass	gläs.	. 7		sīp. snī'El.
hiss	hës.		snore	
hit	hët.		spring	splin. stī' ¤l
	hâ' es.		store	
			straight	trēt.

English	Kootenay's . rendering	English	Kootenay's rendering
sugar	su'ken.	trail	fēl; trēl.
tamarack	tä'mlok.	tree	tlī.
thick	fik.	twelve	trēl.
thin	fin.	weasel	mi'zel.
three	trī.	whistle	ni'sel.
tired	tait.	wild	mail.

The most interesting points brought out in the pronunciation of these words are: French: r=l; f(ph)=p; j=s; f=b? English: r=l; f=p; b=p; d=t; cr=tl; sh=s; g=k; r=n; th=f; and

English: r=l; f=p; b=p; d=t; cr=tl; sh=s; g=k; r=n; th=f; an amongst the vowel sounds English $i=\ddot{e}$.

We have also Kootenay $t l\bar{i}' ka p \bar{o}' = l\bar{i} ka p \bar{o}'$ (French, le capot).

In this report the accent is marked thus, ', the sign immediately following the syllable accented.

GRAMMAR.

NOUN. GENDER.

Grammatical gender does not exist in Kootenay. Some words are used of males and females alike, with no change of form, e.g.:-

> $tl\bar{u}'tl\bar{u}m\bar{a}'tl =$ widow; widower. $n\bar{a}'nk\bar{a} =$ orphan (boy or girl). $tlk\bar{a}'m\bar{u} =$ infant (boy or girl).

Gender is distinguished in the following ways :---

1. By the use of entirely different words for the male and female :---

Buffalo bull, ni'tltsik. ,, cow, $tl\bar{u}'kp\bar{u}$. Elk (male), $k'i'tlk\bar{a}'tl\bar{e}$. ,, (female), $tl\bar{a}'r\bar{u}$.

2. By suffixing or (rarely) prefixing kE'sko (male) and sto'kmatl (female) :-

Duck (male), mallard, $ka'nk \bar{u}sk\bar{v}'ik \bar{u}k k k sk\bar{v}$. (female), $st\bar{v}'km\bar{u}tl$

,, (female), ", Horse, k'ā'tlaoā'etltsin ke'skō. Mare, ", stō'kwātl.

3. Where no ambiguity is liable to occur, the terms $kE'sk\bar{v} =$ male, boy, horse, dog, &c., and $st\bar{v}'kw\bar{a}tl =$ girl, female, mare, bitch,' &c., are employed without the class-noun.

NOUN. DECLENSION.

The Kootenay noun has an indefinite form in -nām (-näm, -nam) thus :---

 $tit\bar{o}'n\bar{a}m$, father (of a man). $s\bar{o}'n\bar{a}m$, father (of a woman). $\bar{a}qk\bar{c}tl\bar{a}'n\bar{a}m$, a house.

This $n\bar{u}m$ does not appear in all words, and some of the Indians never use it with the word $n\bar{u}tl\bar{u}'n\bar{u}k$ (tongue), for example, while others do. It may be that its use was formerly more extensive than at present, as the existence of the Lower Kootenay $p\bar{u}dlk\bar{e}'n\bar{a}m$ (woman), $titk'\bar{u}'ten\bar{a}m$ (man), seems to indicate.

The uses of a definite article or demonstrative adjective are in some way served by the particle *tein* or *tsen*. Thus:—

tcin ni'tlkō = iron, i.e., the metal. tsɛn āgkts'mā'kinik = Indians, i.e., the men.

The substantive seems to have an uninflected and an inflected form, which apparently can be used interchangeably. (The initials U.K. and L.K. stand for Upper and Lower Kootenay).

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Uninflected Form.

Indefinite form : pā'tlkē (U.K.); pādlkē'nām (L.K.).
Singular : Nominative, pā'tlkē. Objective and oblique cases, pā'tlkē.
Dual : Nominative, ä'snē pā'tlkē.
Objective, &c., ä'snē pā'tlkē.
Plural : Nominative, pā'tlkē. the

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All nouns may be treated in this way, and then the form for singular and plural remains the same.

There exists also a declension which is as follows :---

Indefinite form: pā'tlkē; pādlkē'nām.
Singular: Nominative, pā'tlkē. Objective, &c., pā'tlkēks.
Dual: Nominative, pā'tlkēki'stik. Objective, &c., pā'tlkēkistik(ē)s.
Collective: Nominative, pā'tlkēki'ntik. Objective, &c., pā'tlkēni'ntik.
Plural: Nominative, pā'tlkēni'ntik. Objective, &c., pā'tlkēni'ntik.
Distributive: Nominative, pā'tlkēkā'ntik.
Objective, &c., pā'tlkēkā'ntik.

The Kootenay seems to possess, therefore, a case-inflection in -s or -es, a plural in -ni'ntik, a collective in -ki'ntik, a dual in -ki'stik, a distributive in -ka'ntik. The following examples will serve as illustations :—

ö'poanë äqkinmi'tüks ski'nkūts, the coyote sees the river. ö'poanë nä'kyū yä'nös mä'ös, he sees the fox down in the water. ipi'tlnë në'is na'oanës, he kills (him) the caribou. kūna'që ski'nkūts nätloë'në kī'qkēns, the coyote goes along, carrying the wolf. ö'poanë ni'tltsiks skū'sī, he sees the buffalo bull coming.

kāna' qē ū'qkitlnō'hōs, nū' poanē tlkū'mūs ni'ksī ä'māks, a star is going along, [and] sees a little child eating dirt.

āqkonā'nöks kā'usāk'ā'nē k ö'tsāts, the chipmunk sits on the willows. ta'qas kāntlā'ttē ski'nkūts tlä'utlās, the coyote struck the grizzly bear. nā'nakisqā'mnē nē tlkā'mūki'stēk, these two children go away. nā'pqanē yū'nā k'a'psi tlkā'mūninte'kēs, he sees many children. ki'nākā'sak'ā'tlkā nipi'k'āni'ntik', where are you gone, spirits ? tinaqā'mnē yū'nāk'ā'psī tlkā'mūni'ntik, many children enter.

Combined with the possessive pronouns, nouns are declined as follows :----

 $k'\bar{a}ti't\bar{o}$, my father (father of man). tit $\bar{o}'nis$, thy father. tit $\bar{o}'is$, his father. kāti'tānā'tla, our father. titāni'skētl, your father. titāi'sis, their father.

When declined with the possessive pronouns, some nouns sometimes lose one or more of their prefixes, thus :--

 $\bar{v}qk\bar{v}tl\bar{u}'n\bar{u}m$, house. $k\bar{u}k\bar{v}tl\bar{u}$, my house. $\bar{u}'qk\bar{v}tl\bar{u}'s$, his house.

The word for 'horse' presents some peculiarities. The Upper Kootenay form is katlaad'xtltsin, the Lower Kootenay gitlka'tlaad'xdltsin, the latter being the more primitive. The etymology is apparently 'elk-dog,' elk' in Upper Kootenay being gitlka'tla, and in Lower Kootenay gi'dlka'dla. In declension, however, the word for 'elk 'drops out entirely, and we have only axtlksin (dog) left. This does not always occur, however.

horse, kä'tlagā' etltsin. our horse, kāgā etltsinnā'tla. your horse, gā' etltsinni'skētl.

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The noun denoting the object possessed, or in the genitive, may precede or follow the governing noun. Thus :---

 $w x' t \bar{a} k t i t \bar{c}' i s k \bar{v}' t s \bar{a} t c$, the frog, grandmother of the chipmunk. gi'sin' y $\bar{u}' k v \bar{u} t t t \bar{v}' n i s$? is that the hat of your father ? en $\bar{c} sin \bar{a} a q k \bar{v}' t \bar{a} t s$, it is beaver grease.

COMPOSITION.

Some compound nouns are formed by the simple juxtaposition of two substantives, thus :--

thus:-

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lf. [and] $\bar{a}'qkink \bar{o}'k \bar{o} y \bar{a} k t s \bar{o}'m \bar{c} t l$ (fire + canoe), steamboat. $k t c i t lm \bar{i}' y i t n a t \bar{a}' n i k$ (night + sun), moon.

The qualifying noun precedes.

In other cases the compound consists of radicals, prefixes, and suffixes. For example :--

kkāntlā'tltēmō'tl (that with which striking is done), whip, from kāntlā'tltē 'strike,' prefix kā, instrumental suffix -motl.

 $aqlan \bar{u}'qtl\bar{u}'tl\bar{u}m$ (its head is white), white-headed eagle, from radicals $n\bar{u}'qtl\bar{u}$, white, $tl\bar{u}m$, head, and prefixes $\bar{u}q$ - and $l\bar{v}$ -.

NOUN AND VERB.

The following examples will serve to show the relation between the noun and verb as regards matters of derivation :---

	Bark (of tree)	āqkitsk-ā'tl.
		$h\bar{v}tstl\bar{u}'tsk\bar{u}tlo\bar{v}'n\bar{e}$, I take the bark off a tree.
	Bread (baked in pan)	kānkū' ptcē.
		hötcü'nküptcē'tē, I bake bread.
	Bridge	āqkō'kō'.
·	.	hō'tsitkō'kōyki'nē, I make a bridge.
	Brush	kūpkō'mātlkō'mōtl.
		hö ⁷ tsöpk'ömatleö'ne, I brush.
	Comb	tcük'tlāmāniyāt l .
		hōtcū'k'tlāmā' mēk, I comb.
	Heart	ūgki'tlvī.
		h ⁷ ökātlnī'nē, I think.
	Peel	tlūtlā' etimō'tl.
		$h\bar{v}'tl\bar{u}tl\bar{u}'tim\bar{v}'n\bar{e}$, I take the peel (rind) off (an apple).

DIFFERENCES OF FORM IN NOUNS WHEN USED INDEPENDENTLY AND WHEN IN COMPOSITION.

One of the peculiarities of the Kootenay language is the existence of different orms when the word is used in composition, and when it is used independently.

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חפ ^{מו}	-	Form in Compo- sition	Independent Form	Examples of various Compositions
	Bag .	tlā'kō	ā'ąkītlā'kõ	gīyū'nātlā'kō, 'He has many
	Belly	(ō)nōm; nūm	āqkō'nōm	Pockets' (a personal name). tsɛmā'kōmōm, · Strong Belly.' witlwū'mnē, · his belly is large.'
∋m is	Clothes	ūk:tlā'ent	ā'qkūk [.] tlā' ent	sā'nāk tlā'ent, 'Bad Clothes' (a personal name).
more being	Ear	k-öät (k-üwüt)	āqk-ī'k-īat (aqk-īk-ūmāt)	gūwitlk ūwūt, 'mule' (lit. 'it has big ears ').
d for ways	Eye	. tlētl k:tlēītl	āqkā'k tlētl	tlittletl, 'blind' (lit. 'deprived of eyes').
	n sad 4 50050			ā'qkomā'k…tlētl, 'eye-lashes.' kā'umini'k tlētl, 'lower eye-lid.'
				mā'tlnāk tlē'tlnē, 'he opens his eyes.'
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_	Form in Compo- sition	Independent Form	Examples of various Compositions
Finger .	k·ā'inām	ā'qkitskā'inām .	gö'ts'mā'kanskā'inām, 'first fin- ger.'
Fire .	k·ō'k·ð	ā'qkink ī'k ī	sā'nink ōk ō'nē, 'the fire is bad.' ni'tlink ōkō'nē, 'there is much
Hair (of animals)	k õvāt	āqk ī'nāt	fire.' intcūk'k ö'māt, 'mouse-coloured'
Head .	tlām	ā'qkōtlā'mnām ; āqktlā'mnām	(lit. 'mouse hair'). kānö'hōstlā'm na'na, 'little red head' (a bird, spec. ?). āqkō'tlāmk ā'kɛnām, 'head of hair.'
Horn .	k•tlē	āqkī'k tlē	gūni'tlktlē, 'mountain sheep' (lit. 'it has big horns').
House .	tlā; kītlā	āqkitlā'nām	$k\bar{a}k\bar{t}tl\bar{a}$, 'my house.' $tl\bar{a}'n\bar{e}$, 'the house is.'
Lake .	k [.] enūk	āqkō'k enūk	skik'k Enū'ksī, 'there is a lake.' gōpā'k Enūk, 'bay in a lake.'
Red .	nō'hōs; nōs; nūs	kānī' hī s	ki [†] tEnūsitlmē'yit, ' red sky at sun- down.'
River .	mitūk	ā'qkinmi'tūk	<pre>kitEnū'stik, ' to paint the face.' na'imanmitū'kinā, ' there are two rivers.'</pre>
Sand .	kōkōtl	ā'qkinkō'kōtl	k·ö'nänmi'tūk, 'down stream.' kämā'nkōkō'tl,'Sand Point'(place- name).
Sky .	itlmi'yit	āqkitlmī'yit	sānitlmī'yit, 'bad weather.' kānū'sitlmī'yit, 'aurora' ('red sky')
Snow .	tlū	āqktlū	nātlä'nē, 'it is covered with snow.' tlōma'iųēt, 'spring.' graāmu'ktlū, 'Chinook wind.'
Star .	itlnū'hðs; nð'ös	āqkitln ō'h ō s	gū'nitlnö'hōs, 'evening star' (lit. 'big star'). kämū'ktcanō'ōs, 'Yellow Star'
Tail (of animal)	k•at	āqkā'tenām	(personal name). <i>tlitkā'tinē</i> , 'it has no tail.'
Leaf Leg	kōtla'kyē'k sāk	ā'qkōtla'kpē'k=nam āqksāk	$g\bar{\imath}'k\bar{a}tl'a'kp\bar{e}'k\bar{a}'tl$, 'lettuce.' $k\bar{a}'tsk\cdot\bar{a}ki'tls\bar{a}k$, 'Sioux' (lit. 'char- coal legs'). $g\bar{o}m\bar{a}'ns\bar{a}k$, 'to crook the leg at
White .	nū'qtlō	kämnū'qt lõ	the knee.' $g\bar{\imath}'\bar{a}n\bar{u}qtl\bar{u}'m'n\bar{a}$, 'rabbit.' $\bar{u}'qkin\bar{u}qtl\bar{u}'tl\bar{u}m$, 'white-headed
Tail (of bird)	nūkmāenā	ā'qkinū'kmā'ɛnam	eagle.' göni'tlnülmü'snü, 'peacock '(lit. 'big tail').

This use of independent and composition forms, differing in the way indicated above, is very extensive in Kootenay, but the manner in which the differentiation of the two is brought about—simply by the addition or the subtraction of particles, each of which no doubt will be discovered in time to have some definite signification—marks the language off from those tongues in which a similar distinction is brought about, according to some writers, by the arbitrary dropping of one or more letters of the independent form. These letters, however, may ultimately be found to have each its particular meaning, and then the arbitrary cutting down of a word, so much spoken of, may be explained as a regular grammatical process.

The independent and the composition forms in Kootenay appear to be from the same radical, which fact distinguishes the language from those tongues in which there is often no connection between the independent form of a word and the form used in composition. Fo nay. I'nān **k**'ōk'ū

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ONOMATOLOGY AND SEMATOLOGY.

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Explanations of some of the names of individuals and places are given below. The following list will serve to indicate the nature of very many of the compound . Kootenay names and appellatives :---

	apple	$g\bar{o}'tlm\bar{a}$ (i.e., 'rose-hip').
'd.'	axe	āqkī 'tātl (i.e., 'flint').
uch	bald	gānū'qtlōk (cp. kämnū'qtlū, 'white').
	blind	tli'ttlētl (i.e., 'without eyes').
:ed '	candy	gā'ktlētl k'kō'ktcī (i.e., 'variegated sugar ').
	chief	nāsū' kmēn (i.e., 'he is good '?).
red	dumb	tlittlö'knā (i.e., 'unable to speak').
	horse	k'k'ā'tlaoā' stltsin (i.e., 'elk dog').
air.'		tli'ttszmā'kā''nē (i.e., 'not strong ').
	light (levis)	$k\bar{a}'nk\cdot\bar{u}sk\bar{v}'\bar{i}k\cdot\bar{a}k$ (i.e., 'red foot').
.₂ep'	mallard	
	mirror	ki'tenü'stēmo'tl (i.e., 'instrument used when painting the
		face ').
	moon	k'tcitlmī'yit natā'nik (i.e., 'night sun').
'	mule	$g\bar{u}'nitlk \bar{u}'n\bar{a}t$ (i.e., 'it has big ears ').
	needle	$tl\bar{v}$ na'na (i.e., 'little awl').
sun-	peas	āqk na'na (i e., 'little cartridges; shot').
	plant (spec. ?	
э.'	priest	kä'mk ok o'kotl ka'tuwu'mtlast (i.e., 'black shirt').
two	quarter of a	
	rabbit	$gi' \bar{u}n\bar{u}qtl'\bar{u}m'na$ (cp. kämn $\bar{u}'qtl\bar{u}$, 'white').
		tlätli'ttlö (i.e., ' no more snow').
	spring (ver)	
зce-		ā'qkitlnō'hōs (cp. kānō'hōs, 'red').
	sugar	k'kō'ktcī (i.e., 'sweet').
	thistle	nütlä'kinē (i.e., 'strange').
red		$\bar{a}'qkink \bar{v}'k \bar{v} g \bar{a} k \bar{a}' \bar{\imath}$ (i.e., ' fire waggon).
	turkey	$g\bar{v}ni'tlk\bar{a}$ t' $\bar{a}'nk\bar{u}ts$ (i.e., 'big grouse').
.,wc	watch	natā'nik na'na (i.e., 'little sun').
	whisky	$w\bar{u}'\bar{u}$ (i.e., 'water').
		$ni'pik \bar{a} n\bar{u}'\bar{u}$ (i.e. 'spirit water').
(lit		nūtlū' kinē mū'ū (i.e., 'strange water').
(sūyä'pī mū'ū (i.e., ' white man's water ').
.01	' wife	titlnā'mū (i.e., 'old woman').
		· · · · · · · · · · · · · · · · · · ·
		REDUPLICATION AND ONOMATOPŒIA.
		ns by reduplication and by onomatopœia seem to be very rare in Koote-
181	nay. But a	few examples can be given :—
	+ a 'nān	magpie.
· a	k. 0k. 11'sk. 1	blue jay. (This imitative word, in various slightly differing forms, is
	a uksök	found in many Salishan dialects.)
de		a large black bird (spec. ?).
	tcōtcō	fish-hawk.
li	t. vi 'tonito	a small river-bird (spec. ?).
•	QāQā	crow.
	nānā' ki	rook.
	ad pu'pu	hammer of stone.
	ted pūs	cat.
	the	
	h of It is wo	rthy of note that the word for 'cat' is not reduplicated, as in the
ב	arks Chinook jare	on (pūspūs).
b	out,	
	the	PERSONAL NAMES. \supset
1	h its	I DESUIAL ITAMES.

No name-feast appears to have existed amongst the Kootenays. The relatives athered together, and some old man or old woman bestowed a name (a'qkītlī'yäm) pon the child; often, however, the parents named their own child. Frequently the hild was given the name of his parent, and thus many names are now in existence, he signification of which has been forgotten, but which have been hereditary in the н 6---8

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family for generations. The custom of dropping a word which resembled, or was the same as, the name of a chief, &c., who had just died appears to have existed amongst these Indians in the past, but the writer was unable to obtain any examples of its application. The Indians are very loth to tell their names, and it is often even difficult to get an Indian to name a particulari ndividual who is pointed out to him. Many of the Kootenays now use their 'mission names' to the exclusion of their real Indian ones.

The following examples of Kootenay personal names may prove of interest :-

Upper Kootenays: Goni'tlka Ka"ken (Big Wolf); K'ka'tlsaen Ma'iyak (Three Weasels); Gowi'tlk tle (Big Horn Sheep); Mak' (Bone); Ktsa' Entla'Em (Curly Head).

Lower Kootenays: Mā'iyūk Ni'dlko (Weasel Iron); Nū'ke (Stone); Ni'dlko Dli'sin (Iron Paddle); Sū'k'nipē'kū (Good Spirit); Kū'dlsūnokmā'enā (Three Bird-tails); Djögö'min (Pismire): Kämā'ktcānö'ös (Yellow Star).

Children are often called after their parents: thus, $K\bar{v}'m\bar{v}$ Na'na (Little Ko'mō); $G\bar{u}'tl\bar{u}$ Na'na (Little Swallow), until coming of age, when they assume other names.

An Indian may have several names referring to personal peculiarities, deeds accomplished, and the like. One old fellow, called Patrick, had more than twenty names. The writer was able to obtain only ten of these, as follows :-

1. Ganka'tlamma'tlak. His head is hurt.

2. Gā'tlānoā'nkō. He carries trees.

3. Gönö'ktlütla'ga. He has hair on his chin.

4. Gānā' qtlotlutla' qa. He has a white beard.

5. Giyū'nūtlā'kō. He has many pockets.

6. Kū'pskētloni'tlētl. He is feared by all.

7. $G \hat{a}' k \bar{a} t l i' s \bar{a} k$. He has no long braid of hair.

8. Gā'tlemā'kastlā' ekāk. He has big nostrils.

9. KEmā'tlēk. He turns in his toes when walking.

10. Gā'tlogwa'q'nīyāu'wē. He has little food, and is very angry.

Following are a few names of females : Gā'k'tsē, Tlikkest, Kupa'ka, Tlāitlnā'tlökwit, K'tsū'kin.

Some of the names given by the Indians to white men are interesting: Ski'nkūts (Coyote), Kā'hutskā'iyā'hmā (Bad Hat). Kā kā'qtliqki'nmik (the man who takes out his eye. i.e., who has a glass eye), Kākū'mkāk (blind of one eye), Kānū'qtlūk (bald).

The name given to the writer by the Upper Kootenays was Kiko'naki'nkana'. kasnā'mis, which was said to mean, 'he uses the long stick,' in reference to his anthropological measurements.

PLACE-NAMES.

The Rocky Mountains, the Columbia River, the Kootenay Lake, are usually called by the Indians : $Aqk\bar{v}'k\bar{v}\bar{u}tl\bar{v}'et$, $Aqkinmi't\bar{u}k$, $Aqk\bar{v}'k en\bar{u}k$, which mean simply 'moun-tains,' 'river,' 'lake' respectively. The two Columbia Lakes (Upper and Lower) are known as $Aqki'sken\bar{u}k$ (=two lakes near each other?), the Kootenay River, $Aqk\bar{v}k$ tlā' qātl. Other names of interest are : Ainsworth (B.C.) Aqk'nā' ktlā' ēt na'na (Little Plain), Barnard (B.C.) Aqkū'nok, Bonner's Ferry (Idaho), Yä'kokmä'sko or Aqko'kpunmitü'kev, Fort Steele (BC.) A'qküm, Cranbrook (B.C.) A'qkisg'ü'ktlööt, Kicking Horse River, A'qkinū'ktlūk, Sand Point (Idaho) Kämūnkū'kūtl.

The Kootenays call their country Ki'tonā' qa ämā'kis (the Kootenays' land). The Lower Kootenays call the United States Dle'ne (the other side) or Bo'sten ämā'kis (country of the Americans), Canada being denominated Kindjatc ama'kis (the country of the British), the two words Bo'sten and Kindjate having been adopted from the Chinook jargon.

SEASONS, MONTHS, &C.

The names of the seasons are as follows :----

Spring. Summer. Autumn. Winter.

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 $Tl\bar{u}'m\bar{a}iy\bar{e}t$. 'When the snow leaves.' Also $tl\bar{a}tli'ttl\bar{v}$ (no more snow) Gāksā'kit. 'When things are getting warm.' Also tlùmā'iyēt nā'mū. K'tcūpnā'kōt. 'When the leaves, &c., fall.' Wā'nūit'nā'mū. 'When snow and rain come.'

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January	Nāktā'isōk (U. K. and L. K.). 'The beginning (?) month.
February	Nipkō'isōk (U. K. and L. K.). 'The month of the black bear with
- ·	young.'
March	$\int Tlik\bar{v}'k$ (U.K) (The month when the water still remains on the
	$Dlik\bar{\omega}'k$ (L.K.) j ground.'
April	$G\bar{u}qku'm\bar{e}k$ (U. K. and L. K.). 'The month when the earth $(\ddot{a}'m\bar{a}k)$
· · ·	breaks open.'
May	$\begin{cases} Ot l\bar{u}'m\bar{e}n \ (U. K.) \\ Odl\bar{u}'m\bar{e}n \ (L. K.) \end{cases}$ 'The month when the rivers rise.'
may .	
June	$\int G\bar{o}'k\bar{v}k\bar{u}'pk\bar{v}$ (U. K.). Month when the $k\bar{u}'pk\bar{v}$ ripens.
Uuno	$K\bar{a}in\bar{a}'m\bar{u}$ (L. K). 'The month of the ducks with young.'
	$G\bar{v}'k\bar{v}sk\bar{v}'m\bar{v}$ (U. K.). 'The month when the service-berries $(sk\bar{v}'m\bar{v})$
July	$\sum_{i=1}^{n} ripen.'$
	Ktcidlmū'yitkedli'qūnū'iitskū'mō (L. K.). 'When the service-berries
	(ripen at night.'
Anonat	$\begin{cases} Ktcitlmi'itkstlie'kemä'st (U. K.). 'When the service-berries ripen at night.'$
August	As \vec{u} 'dlenik (L. K.). 'Time of fish-spawn (anik).'
Septembe	
вергешое	$Kt\bar{u}'tl\bar{v}\bar{v}ktc\bar{u}'pk'\bar{a}$ (U. K.)) 'The month of the rutting of deer (lit. 'the
October	$K^{t}\bar{u}' dl\bar{v}k tc\bar{u}' pk'\bar{u}$ (U. K.) (The month of the flatting of deer (ht. the K't' dl\bar{v}k tc\bar{u}' pk'\bar{u} (L. K.) (white-tailed deer ($tc\bar{u}' pk:\bar{u}$) call out').
November	
	$\int G\bar{a}/t lm \bar{a} k \bar{a} (\Pi, K_{\star}) = 0$
December	$\begin{cases} G\vec{v}'tlm\tilde{u}k\vec{u}'k\vec{v} \ (U. K.) \\ G\vec{v}dlm\vec{u}'k\vec{u}k\vec{v} \ (L. K.) \end{cases}$ 'Time of the ripening of certain berries.'

Both Upper and Lower Kootenays gave but twelve months. Possibly their reckoning has been changed by reason of white influence, or, perhaps, one month (January?) may count for two. The word now used for month is $nat\bar{a}'nik$ (moon); 'year' is rendered by $m\bar{a}'k\bar{v}t$; also by $m\bar{a}'kt\bar{e}t$, translating the jargon expression 'snow.'

The days of the week, introduced by the missionaries, are known as follows in Upper Kootenay :---

Sunday, göknö'tsin mö'yöt. Monday, (tlä) ö'ken mö'yöt. Tuesday, (tl) äi mö'yöt. Wednesday, (tlä) g'ä'tlsan mö'yöt. Thursday, (tlā) qā' etsan mē'yēt. Friday. (tlā) yē'hun mē'yēt. Saturday, (tlā) enmi'san mē'yēt.

Lower Kootenay names the same with substitutions dl for tl, and $-m\bar{v}'y\bar{e}t$ for $-m\bar{e}'y\bar{e}t$.

The name for a clock is *natū'nik* (sun), and a watch is *natū'nik na'na* (little sun). Time of day is now expressed as follows:—

one o'clock, $g\bar{v}'km\bar{e}$ natā'nik na'na.

what q'clock? k'ā'k sā natā' nik na'na?

eleven o'clock, ē'tōnō'm tlā ō'knē natā'nik na'na.

half-past eleven, ē'tomo'm tlā o'kwē stlākā'iyakā'mo natā'nik na'na.

ADJECTIVES.

Adjectives usually precede the noun; the exceptions, such as the words for 'male, female' (not always), 'small' (the adjective *na'na* always), to this rule are few. The adjectives may be classed as follows :---

1. Disjunctive adjectives, which cannot properly be regarded as mere affixes, as; $k\epsilon' sk\bar{v}$ (male), na'na (small), $k'\bar{a}'p\bar{e}$ (all), &c. Examples :—

qā' ɛtltsin kɛ'skō, dog.
qā' ɛtltsin stō' knūtl, bitch.
k'ā' pē ä'māk, all the earth.
tā' nō na'na, revolver.

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sū'kinē ti'tk'āt, the man is good.
wi'tlkā'nē, he is large, tall.
si'qinē, he is fat.
ni'sinē gāā'qktlik, my foot is sore.
yū'nākā'nē tinā'mū, there is plenty of grease.
wa'qinē, it is thick.
wi'tllānā'mnē, he has many houses.

3. Those used with the prefix $g\bar{u}$ - ($g\bar{v}$ -), and with or without a suffix :---

gönö'tlkā nāsū'knēn, a big chief. gönö'tlkā ne'tāk, a big frog. gūnö'tlk ūnāt, mule (lit. ' big-eared '). gūnö'konm'tūk, a long river. gūnö'tlk tlē, mountain sheep (lit. ' big horn ').

Compound adjectives :—

tcam na'na, few (cp. tsamā'kētl, 'very'). k'pä'ktsī na'na, thin. gō'kō na'na, short.

5. Adjectival periphrases :---

 $s\bar{u'}nitl\bar{u}\bar{i'}n\bar{e}$, angry (lit. 'bad-hearted he is'). $s\bar{u'}nitlq\bar{v'}n\bar{e}$, sick (lit. 'bad-bodied he is').

6. Adjectives of colour. These appear to be mostly compounds, and to contain a separable prefix, $k\bar{a}$ -, or $k\bar{a}m$ -($k\bar{a}m$ -). Thus:—

kämnü'qtlü, white. A'qkinüqtlü'tlüm, white-headed eagle. Perhaps the radical is $tl\tilde{u}$ (snow).

kä'mk ök ö'kötl, black. kämā'qtsē, yellow.

kūnū'hōs, red. Nānū'sg vā'tē, it is red; ā'qkitlnū'hūs, star; kitznū'stik, to paint the face.

kā'etlū'īyit'kā, green.

kä'mk ök ö'kötl, negro.

 $k\bar{u}n\bar{v}'hos$, species of dragon-fly with reddish body. $kE'sk\bar{v}$. boy, horse, dog. $st\bar{v}kv\bar{u}'tl$, girl, mare, bitch.

DIMINUTIVES.

As far as ascertained at present, diminutives proper do not appear to exist in Kootenay. Their place is taken—

1. By special words :--

 $aqkt\bar{v}$, a bear one year old. $a'qkink\bar{u}'m\bar{a}tl$, calf. $tlk\bar{a}'m\bar{u}$, little child.

tlā'utlā, grizzly; tlā'utlā na'na, little (young) grizzly. yāktsō'mētl, canoe; yāk tsō'mētl na'na, small model of a canoe. nāū'tē, woman; nāū'tē na'na, girl.

tlo, awl; tlo na'na, needle.

gūni'tltlām na'na, little big-head (bird, spec.?).

Kō'mō (personal name); Kō'mō na'na, young Kō'mō.

gäs na'na, the young of the fish called ipūt; pūs na'na, kitten, &c.

Although $q\bar{a}'$ stills in na'na, and $k\bar{a}'tlaq\bar{a}'$ stills in na'na are in use, the ordinary in ce word, both for 'pup' and for ' colt,' appears to be *tci'ts* na'na, evidently a compound the by s

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23,

20, 21,

with na'na. For 'colt' the word $mi'stak \bar{u}'dl\bar{a}$ (in which $k \bar{a}'dl\bar{a} = \text{horse}$) is colloquial amongst the young men of the Lower Kootenays. Diminutives form their plural and dual as nouns. E.g.:-

> nāū'tē na'na ki'stik, two girls. nāū'tē na'na ki'ntik, girls.

NUMERALS.

24, ä'iwom tlā qā'Etsa. 1, ō'kē; ō'kwē. " iē''kō. 25, 2, ās; äs. ,, " nmi'sa. 3, k'ä'tlsa; k'å'tlsa. 26. 17 " wistā'tla. 27, 4, Qā'Etsa. ,, 28, " woQā'Etsa. 5. iē''kō. ,, 29, " k·âiki'tūwo'. 6, enmi'sa. ... 30, katlsā'nūwō. 7, wistā'tla; wistä'tla. 31, 8, woQā'Etsa. tlā ō'kwē. 9, k āiki'tūwo'. 40, Qā'Etsā'nūwō. 10, ē'tūwō'; i'tūwō'. 11, ē'tūwō' tlā ōkwē. tlā o'kwē. 41, 50, iēko'nūwō. tlā ö'kwē. ,, ās. 12. 51, " k·ā'tlsa. 60, enmisā'nūwo. 13. ,, " Qā'Etsa. tlā o'kwē. 14, 61. ,, " iē"kō. 70, wi'stātlā'nūwō. 15, ,, " nm'isa. 71, tlā ö'kwē. 16, ,, " wistā'tla. 80, woQā'Etsa'nūwo. 17. ,, tlā ö'kwē. " wōQā'Etsa. 81, 18. ,, k āiki'tūwo'. 90, k·āiki'tūwū'nūwū. 19, ,, 20, ā'iwō; ē'tūwō' tlā ē'tūwō'. 91, tlā o'kwē. 21. ā'iwom tlā o'kwē. 100, gi'tūwū'nūwū; ē'tūwū'tli'tūwū'-" ās. 22, nūwū'. " k·ā'tlsa. 23, 101, ē'tūwū'tli'tūwū'nūwūm tlā ô'kwē. "ē'tūwū'. 110, ,, " a'iwō. 120, ,, " kaiki'tūwū'nūwūm tlā iē"kō. 195, 200, å'sitl(E)i'tūwū'nūwū. 300, k ā'tlsa tlei'tūwū'nūwū. 400, Qā'Etsa tlei'tūwū'nūwū. 500, iē''kō " 600, enmi'sa 700, wistā'tla 800, woqā'Etsa 900, k·āiki'tūwo' 1,000, ki'tūwū'nūwūtlei'tūwū'nūwū; ē'tūwū'nūwūtlei'tūwū'nūwū.

In certain cases the letter n-, or g- (k-), is prefixed to the numerals; the reason for this is not known. Thus:—

gö'kwē natā'nik na'na, one o'clock. qātloö'ne āqksā'kēs kö'kwēs, he carries one leg. nāsnē ni'pinē, two are dead. nē'tūwū'nē ni'tlkō, ten dollars.

Regarding the numeral system of the Kootenays, the following remarks may be hade. The words for *three, four, six*, contain a suffix *sa* (*sā*). Four and *eight* are learly related, the latter being possibly the second four. In the decades a suffix $v\bar{v}$ (*wā*) is found, which makes it appear that 'twenty,' *äi-vo* is 'two tens,' his is confirmed by the fact that a word $ai(\bar{a}i) = 'two'$ does really exist, though nly in certain phrases and compositions. E.g.:-

kāimā'kmöt, two years; nā'iman mitū'kinē, there are two rivers, &c.

inaria In certain locutions: two rivers running into each other, two trees, mountains, pound de by side; two sticks, and especially when speaking of two plates, cups, pails,

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forks, boxes, &c., set one within the other, or of two pairs of breeches, two coats, hats, &c., worn one over the other, ai ($\bar{a}i$) is used. Examples :--

na'iman mit \bar{u} 'kin \bar{e} . There are two rivers. , $k\bar{a}' rn \bar{e}$. , , , , sticks. , $itsql\bar{a}'rn \bar{e}$. , , , , trees. ka'iman $k\bar{u}'n \bar{a}n$. Two teeth. na'imat $l\bar{a}'$ kin \bar{e} . There are two tracks in the snow. na'iman $q\bar{o}'n\bar{e}$. Two logs lying side by side.

ORDINALS.

The ordinal numerals are :---

ō'smik; ō'smēk, first. kāsō'sā'tl, second. itlnā'hak; ka'iyāk ā'nōsa'qē, third. a'nitlnā'hak, fourth. ob;

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These ordinals take the inflectional -s like adverbs. The words for 'third' and 'fourth' are closely related to *itlkā'hak*, 'far, at a distance.'

Above 'fourth,' and sometimes for all above 'one,' the cardinals are apparently in use,

NUMERAL ADVERBS.

 $n\bar{o}'k\bar{e}'n\bar{a} n\bar{a}' \\ \bar{o}'k\bar{e}n\bar{a}' \\ \end{bmatrix}$ once; $n\bar{a}'sn\bar{e} n\bar{a}$, twice; $k\cdot\bar{a}tls\bar{a}'n\bar{e} n\bar{a}$, three times, &c.

In these words *nd* probably signifies 'here,' 'now.' Another series is :—

gōkwē' nātl, once. gāskā'tlētl, twice. kā'tlsaqā'tlētl, thrice. qā'etsaqā'tlētl, four times, &c.

Another:-

 $h\bar{v}'p\bar{a}k$, the first time; $k\bar{u}n\bar{v}'pak$, $k\bar{v}e\bar{u}'pak$, that one first (?). (tl \bar{u}) $k\bar{u}'sen\bar{u}tl$, the second time.

DISTRIBUTIVE NUMERALS.

 $g \delta k' k \ddot{a}' n t i k$, one each. $g \delta s k \ddot{a}' n t i k$, two each. $k \bar{a}' tlsa k \ddot{a}' n ti k$, three each. $q \bar{a}' t s a k \ddot{a}' n t i k$, four each, &c.

PARTITIVE NUMERALS.

 $k\bar{a}'iy\bar{a}k\,\bar{a}'x\bar{o}$; $tsek\bar{u}se'k\bar{a}$, half. $\bar{o}'k\bar{e}$ tletsek $\bar{u}se'k\bar{u}$, one and a half = $\bar{o}'k\bar{e}$ tl \bar{a} $k\bar{a}'iy\bar{a}k\,\bar{a}'x\bar{o}$.

PERSONAL PRONOUNS.

The disjunctive pronouns are :--

 $k\bar{a}'min$, I. $ni'nk\bar{v}$, thou. $ni'nk\bar{v}'is$, he, she.... $n\bar{e} = he$.

kā'minā'tlā, we. ni'nkō'niskē'tl, you. ninkōi'sis, they.

The word for 'he' looks like a genitive of $ni'nk\bar{v}$, 'thou.' These pronouns are used where the verb is not expressed, in answer to questions, &c.; e.g.:--

ta'oas ni'nko ! you [have said] enough !

kākē'nē i'ntlāk 'ö'smik kā'min.' Says the chicken-hawk, 'I [will go] first.' Māts kā'min ! Not I !

The pronoun $n\bar{e}$, in the objective case form $n\bar{e}'is$, is very frequently used as the

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object, or as the complementary object, of verbs, where the incorporated pronoun does not occur : thus :-

> ioi'tlnē nē'is tlā'utlās. He kills him the grizzly. ipi'tlnë në'is na'qanës. He kills him the caribou.

The subject pronouns used with verbs are :--

 $h\bar{o} \ldots n\bar{e} = I.$ hin . . . $n\bar{e} = \text{thou}.$ $... n\bar{e} = he.$

 $h\bar{o}$. . . $n\bar{a}tl\bar{a}'(n\bar{e}) = we$. hin ... niskē'tlnē = you. - . . . $n\bar{e} = \text{they.}$

It is interesting to note that, in the past and future tenses of the verb, the first personal pronoun seems to be $g\bar{u}$ - $(k\bar{u}), eg. :-$

gūtsoā'tlip, 'I will kill'; mā'kūtstlā'kētl, 'I loved.'

The incorporative forms of the personal pronouns as objects have been given by Dr. Boas (' Report.' 1889), and the examples given below in treating of the verb will suffice to illustrate their use.

ADVERBS.

The position of adverbs in the sentence varies, as the following examples show :----

Pi'kāks i'pinē kä'mā. Long ago my mother died.

O' peanë $d^{T_a'}$ is na'eanës. He sees the caribou on the other side. Ta'eas teina'eë w^{t} (thum. He went off early in the morning.

Käkë'në ski'nkëts: 'ö'smik kä'min.' Said the coyote: 'I [will go] first.' Kkännë'yit rë'tlnäm käki'tlnë ti'tlnämü'is ski'nküts. The next day early the covote spoke to his wife.

Kāna'oē ski'nkūts ū'smēks. The coyote goes first.

Adverbs may or may not take the inflectional suffix -s. One can say, for example, pi'kāk i'pinē kä'mā or pi'kaks i'pinē kä'mā. The exact rule for the use of this suffix is not apparent.

I. Time:

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 $P\bar{e}'k\bar{a}k$ or $pi'k\bar{a}k$, long ago. wi'niki'tine, it is long since. tāqtā', by and by. nāta' qā, now. ā'qkänmī'yit, always, every day. känmī'yit, to-morrow. nā'hosā'nmēyi'tkē, to-day. nā'tlknā, yesterday. wī'tlnām, early.

II. Repetition :

tlā, again.

ā'qkī, again, more.

III. Place, direction :

nā, here. nē, there.

tlā'a, outside. nā'etā, high, up. ū'mmī, down. $t l\bar{e}' n\bar{e}$, across, on the other side. *k·ō'nän mi'tūk, down stream.

IV. Interrogation:

 $k \cdot \tilde{a}' a$. where ? k'ā'kēn, whither ? $k'\bar{a}s$, where is? $k'\ddot{a}'psi(n)$, what ? why ? $k'\bar{a}'k's\bar{a}(n)$, how much? how many?

V. Affirmation, negation:

na'qā. no. mā'ets, no. eē, yes, certainly. nā'qkan, perhaps.

Adverbial offices are also performed by certain prefixes and suffixes, and by letters attached to the verb. These are discussed elsewhere.

ITERATIVE ADVERB.

The adverb tlā is used with compound numerals and with verbs denoting repeated ction, e.g. :

> ē'tūmō' tlā ō' kmē, 'eleven' (lit. 'ten again one'). $\bar{v}'k\bar{v}tletsek\bar{u}'su'k\cdot\bar{u}$, 'one and a half '(lit. 'one again piece'). tlā'mānē'nē, ' it bobs up and dowu.' tlāwa'oē, ' he returns.' tlā'tcina'gē, 'he goes away again.'

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NEGATION.

There are two disjunctive adverbs of negation, mā'ets (or māts) and ma'eā. The distinction between them seems to be this : $wa'q\bar{a}$ is equivalent to the English 'no, not that; that is not right; don't do that'; while ma'sts is used with pronouns and verbs in the imperative, and also in cases where a contradiction and a correction is intended. Following are examples :--

Mā'ts kā'min! Not I! (i.e., someone else may do it). Mā'rts itki'nin!—Do not do it!

Mā' Ets klo'nē, tlo'nē. Not klo'nē but tlo'nē.

Trin ni'tlkō mā' ets $\bar{a}qk\bar{o}kp\bar{o}'\bar{o}$. The iron [barrel of the gun] not the stock. Kinū'was? wa'qā. Āre you hungry? No.

 $K\bar{a}k\bar{e}'n\bar{e} tl\bar{a}'utl\bar{a}$: ' $na'q\bar{a}$!' Said the grizzly bear: 'Don't do that!'

Kākē'nē i'ntlāk : ' ö'smik kā'min.' Kākē'nē ski'nkāts : ' wa' qā.' Said the chickenhawk : 'I [will go] first.' Said the coyote : 'No.'

In conjugation and word formation the negative particles $k \cdot \bar{a}$, 'not,' and thit, ' without, deprived of,' are employed. They are sometimes prefixes and at other times infixes. Examples :-

 $K \cdot \bar{a}i'n\bar{e} si'n\bar{a}$. It is not beaver. $k\bar{v}'k'\bar{a}\bar{v}'poan\bar{e}$. I do not see.

 $h\bar{v}'k\cdot\bar{a}i'kin\bar{e}$. I do not eat. $h\bar{o}'k\cdot\bar{a}i'sin\bar{e}tl\bar{a}'n\bar{e}$. It is not my house. H Ki

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hotli'ttāwū'tē. I have no gun. hotli'stē aqktca'mātl. I have no knife. $tli'ttl\bar{e}tl$, blind ($-tl\bar{e}tl = eyes$). tli'ttlätli'tit, unmarried man (tlätli'tit = married man). $tlitts E'm\bar{a}'k\bar{a}''n\bar{e}$, it is light ($ts E'm\bar{a}k\bar{a}'n\bar{e} = it$ is strong).

The radical tlit is seen in tli'them 'worthless.'

There is still another particle, tlo (probably = 'none left') used as follows :---

tlō'nē ni'tlkō. There is no money.	tlo'nē k'ä'psin. Nothing.
tlö'nē. There is no	tlo k'ä'psin. Nothing.
tlā'sī.	

CONJUNCTIONS.

Few conjunctions have as yet been determined. The equivalents of some English conjunctions are :-

A'qkī, and, more. Kā'min ā'qkī ni'nkō. I and you. A'qkī ni'nkō. You too. 'And' in the numerals is expressed by tlā; ētā'wotlāo'kwē (ten and one), eleven. Kä'psin, why. Kūō'poanē k'ä'psin tsi'tlēp. He does not know why she is dead.

 $P \vec{a}' t l k$, because. $P \vec{a}' t l k' s i' t l \vec{e} p$. Because he was dead. $N \vec{a}' p \vec{e} t$, if. $N \vec{a}' p \vec{e} t$ hintsi' $n \vec{a} m$. If you go.

A INTERJECTIONS.

But little was learnt regarding these words. A few are real interjections; the rest are parts of speech used interjectionally.

 $h\bar{a}' \in I$ $h\bar{a}' \in a$ hal (expression of surprise).

 \bar{a} != Get out of the way (used to dogs). For human beings $t l\bar{u}' n\bar{u}$! (go away!) is employed.

 $\tilde{a}'h\tilde{a} h\tilde{e}'\tilde{\imath}$! Ah, that is good ! I like that. $h\bar{a}'i\bar{\imath}$! That is not good ! I don't like that. hā'ī yū ! Hallo! That's strange ! yoho! Hurry up! (from English?) ms'kak ! Hold on ! Not so fast !

Ta'eas! Stop! Enough!

VERBS.

THE VERB 'TO BE.'

The duties of the substantive verb appear to be performed to some extent by Inē, -inē (-ne). Thus :pr the si

Honi'në Ki'tônd'qa = I am a Kootenay. Kākë'në 'hôni'në ski'nkūts' = He says 'I am the coyote.' I'në si'nd āqkö'tūtls = It is beaver-grease. Ni'në sūyā'pē = He is a white man. Tlāk ā i'nsī ski'nkūts ti'tlnamö'is g'ā'stēt = The coyote is not the wife of the trout. Ni'nšī ti'tlnamö'is g'ā'stēt. It is the wife of the trout.

Often no verb or suffix is employed, as $k\bar{a}'min ski'nk\bar{a}ts = I$ am the coyote. This $\bar{i}n\bar{e}$, $-in\bar{e}$ ($-n\bar{e}$) seems to be the same as the suffix $-\bar{i}n\bar{e}$, $-n\bar{e}$, $-n\bar{i}$, found in adjec tives and some intransitive verbs, e.g. :—

> $s\bar{u}ki'ni = it is good.$ $si'qin\bar{i} = it is fat.$

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 $i' pin\bar{e} = he$ is dead. $ma'qin\bar{e} = it$ is thick.

THE VERB 'TO HAVE.'

The verb 'have' appears in some cases to be expressed by the suffix $-t\bar{e}$:--

 $h \bar{v}' i \bar{e}' k \bar{v}' t \bar{e} k' \bar{a}' t la o \bar{a}' x t l t s in = I$ have five horses. $h \bar{v}' n \bar{a} \cdot k' \bar{a}' t l t \bar{e} = I$ have two children. $h \bar{v} n \bar{a} \cdot t \bar{e} \ \bar{a} q k \bar{v}' t \bar{a} t l s = I$ have an axe. $h \bar{v}' y \bar{u} n \bar{a}' t \bar{e} \ n \bar{u}' m \bar{o} s = I$ have many beads. $h \bar{v} t t \bar{a} m \bar{u}' t \bar{e} = I$ have no gun.

PAST TENSE.

The tense-sign for past time is $m\bar{a}$. The following examples will serve to indicate its use :—

 $m\bar{a}'k\bar{u}tstl\bar{a}'k\bar{v}tl = I$ loved him. $m\bar{a}'k\bar{v}\bar{v}'peanis = I$ saw you.

 $m\tilde{a}k\tilde{i}'\tilde{e}p = \text{He died.}$ $m\tilde{a}kts\tilde{e}k\tilde{u}tl = \text{He drank.}$

FUTURE TENSE.

The future tense-sign is *catl* :---

hötsoätli'kinë = I shall eat. kū'tsoätli'pitl = I shall kill. tsoätli'pitl = He will kill. hūtsoä'tlēkū'tlnē = I shall drink.

 $tsq\bar{a}'tlq\bar{v}na'q\bar{e} = It$ will go. $h\bar{v}tsq\bar{a}'tli'n\bar{e} = I$ shall be ... $g\bar{u}'tsq\bar{a}tlk\bar{a}'k\bar{e}tl = I$ shall tell.

The desiderative coincides with the future :---

 $tsq\bar{a}'tl\bar{a}na'q\bar{e} = He$ wants to hunt. $kintsq\bar{a}'tl\bar{e}k = Do$ you want to eat ?

 $h\bar{o}'tsq\bar{a}tli'kin\bar{e} = \mathbf{I}$ want to eat. $k'ts\bar{a}'tli'tqa = \text{He wants to bite.}$

IMPERATIVE.

In this mood, as is the case in many languages, the radical of the verb is easily een. The following examples will suffice :—

 $i'k\bar{v}(n) = \text{eat thou } !$ $bw\bar{v}'k\bar{v}n = \text{get up } !$ $to\bar{v}k\bar{u}'t\bar{v}n = \text{take care } !$ $sk\bar{u}'kin = \text{give me } !$ itki'nin = do it ! $mats \, \bar{o}ni'tlin = \text{don't be afraid } !$ $k'k \, \bar{v}'nn\bar{v}(n) = \text{sleep thou } !$ $tl\bar{u}'n\bar{v} = \text{come } !$ $tl\bar{u}'n\bar{v} = \text{go away } !$

 $\begin{array}{l} piski'n\bar{o} = \operatorname{let} \operatorname{go} 1 \\ tc\bar{o}k\bar{a}'t\bar{o} = \operatorname{look} 1 \\ h\bar{a}'m\bar{a}ti'ktc\bar{u} = \operatorname{give} 1 \\ tl\bar{a}\;i'tcan\bar{o} = \operatorname{bite} \operatorname{me} \operatorname{again} 1 \\ is\bar{a}'kin\bar{o}n = \operatorname{sit} \operatorname{down} 1 \\ i'k\bar{c}tl = \operatorname{ext} \operatorname{ye} 1 \\ n\bar{a}'pk\bar{c}tl = \operatorname{sleep} \operatorname{ye} 1 \\ k\bar{o}mn\bar{c}'k\bar{c}tl = \operatorname{sleep} \operatorname{ye} 1 \\ tsin\bar{a}'k\bar{c}tl = \operatorname{hurry} \operatorname{up} 1 \end{array}$

There appear to be several endings for the imperative, but the chief are $-\tilde{e}$, $-\tilde{e}n$, $-\tilde{o}$, p^r the singular, and $-\tilde{e}tl$ for the plural.

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INTERBOGATIVE.

The interrogative form of the verb is made up of the particle kin (you) and the radical of the verb, with tense signs :--

kinēk? = do you eat? kintsqā'tlēk? = do you want to eat? Will you eat? kinkā'tlūt? = do you think? kin ā' kōwitl? = do you dance? kin š'tlā \mathcal{X} = do you cry? kintsi'tça' nāp? = would you bite me? kin ī'nē Ki'tōnā'qa? = are you a Kootenay?

The inflection of the voice, as in English, indicates that a question is being asked, thus :--

 $i'n\bar{e} si'n\bar{a} aqk \bar{o}'t\bar{a}tls? = is it beaver grease?$ $i'n\bar{e} P\bar{o}l \bar{a}'qk\bar{i}tl\bar{a}'is? = is it Paul's house?$

NEGATIVE.

With verbs in the imperative the negative mats is used :-

māts itki'nin ! = don't do that ! *māts i'kētl* = don't eat !

The particle $k\bar{a}$ is prefixed to the third person of the verb in the indicative mood, and inserted between the personal pronoun and verb in the other persons. Thus :-

> $k \bar{a} i' n \bar{e} si' n \bar{a} = \text{it is not beaver.}$ $k' \bar{a} \bar{o}' p a n \bar{e} ski' n k \bar{a} t s = \text{he does not see the coyote.}$ $k \bar{a} t \bar{a} \bar{a} \bar{a}'' n \bar{e} = \text{it is not raining much.}$ $h \bar{o}' k \bar{a} \bar{o}' p a n \bar{e} = \text{I do not see.}$ $h \bar{o} k' a s a \bar{o}'' m \bar{e} k = \text{I do not sing.}$

INCORPORATION OF OBJECT.

A peculiarity of Kootenay is the incorporation of noun-objects in the verb, thus : $h\bar{v}tstl\bar{u}'tsk.\bar{a}tlo\bar{v}'n\bar{e} = I$ take the bark off a tree (bark = $\bar{a}qkitsk.\bar{a}'tl$). $g\bar{o}'tx\bar{u}kv\bar{a}'tl\bar{a}mki'nm\bar{e}k = I$ smooth down my hair with my hands ($\bar{a}qk.\bar{v}'tl\bar{a}m =$ hair). $k\bar{a}'k.\bar{a}v\bar{u}'m\bar{a}tl = To$ cut open the belly ($\bar{a}qk\bar{v}n\bar{v}m =$ belly). $tl\bar{u}'kts\bar{a}tl\bar{a}'in\bar{e} =$ He cuts off end of nose ($\bar{a}'qkln\bar{u}kts\bar{a}'tl\bar{a} =$ end of nose). $g\bar{o}nv\bar{a}'ntlik = I$ move my foot about ($\bar{a}'qktlik =$ foot). $n\bar{a}'tltlamki'n\bar{e} =$ He takes [carries] the head in his hand. $v\bar{u}nk.\bar{v}'tl\bar{u}mki'n\bar{e} =$ He shakes the head in his hand.

Following are examples of the incorporation of the object pronoun in the verb : $h\bar{v}tsi'teani'sin\bar{e} = I$ bite you ($h\bar{v}-ts-itea-n-is-i-n\bar{e}$). Radical is i'tea, 'bite.' I bite you

 $hi'ntsqatlh\bar{o}'tlpatln\bar{a}'pin\bar{e} = You$ will honour me $(hin-ts-qatl-tlpatl-n-\bar{a}p-i-n\bar{e})$ Radical is $h\bar{o}tlpatl$, 'hear.'

tsqā'tlipitli'sinē = He will kill you (ts-qātl-ipitl-is-i-nē). Radical is ipi'tl, 'kill.' kill you

 $h \bar{o} t s c \bar{a} t l \bar{k} \bar{a}' n t l \bar{a} t l i' s i n \bar{e} = I$ will strike you ($h \bar{c} - t s - c \bar{a} t l - k \cdot \bar{a} n t l \bar{a} t l - i s - i - n \bar{e}$). Radical is $k \cdot \bar{a} n t l \bar{a} t l$, 'strike.' Radical is

 $n\tilde{u}'pqan\tilde{a}'pin\tilde{e} = \text{He sees me}(n\cdot\tilde{u}pqa\cdot n\cdot\tilde{u}p\cdot i\cdot n\tilde{e}).$ Radical is $\tilde{u}'pqa$, 'see.'

 $hin\bar{u}'poan\bar{a}'pin\bar{e} =$ Thou seest me ($hin-\bar{u}poa-n-\bar{u}p-i-n\bar{e}$). Radical is $\bar{u}'poa$, 'see.' you see me

 $h\bar{o}n\bar{u}'poani'sin\bar{e} = I$ see thee $(h\bar{o}-n-\bar{u}poa-n-is-i-n\bar{e})$. Radical is $\bar{u}'poa$, 'see.'

see you

Re langu: Kā'tlū Kā'tlū Hōsā'k Ka'ōpc Kātlūī' eyes Kā'tlū

An the fol. Hötlpā Kāna'q sees O'pqan O'pqan O'pqan

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 $tso\bar{a}'tlitoa'n\bar{a}na'sin\bar{e} = He$ is going to bite us $(ts - o\bar{a}tl - itoa - n - \bar{a}nas - i - n\bar{e})$. Radical bite

i'toa, 'bite.'

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tsoa'tltcū'hwāti'sinē = He is going to get you (ts-qātl-tcūkwāt-is-i-nē). Radical

tcū'knūt, 'get.'

PREFIXES.

The prefixes n- and g- (k-), perhaps the same as those appearing in the numerals. are found with certain forms of the verb. In others they do not appear. Their signification is not known. The following examples will illustrate their use :---

Pi'kūks i'pinē kä'ma. Long ago my mother died.

 $\tilde{T}_a'_{oas} n \cdot \tilde{a}' s n \tilde{e} n \cdot \tilde{i}' p i n \tilde{e} t l \tilde{a}'' u t l \tilde{a}s$. Two grizzly bears died. Ski'nkūts ipi'tlnē nē'is $K \tilde{u}' p i s$. The coyote kills him the owl. Kākē' nē hōnipi'tlnē kū'pī. He says [said] 'I kill [killed] the owl.'

This n- appears in the third person singular of very many verbs, and also in the first person singular. Examples of the prefix k- (g-) as compared with n-, and the verb without prefix are-

 $q \cdot \bar{o}' k \bar{u} s k \cdot \bar{o} m \bar{o}$, month of July (lit. 'when the service-berries ripen ') $n \cdot \bar{o}k\bar{u}'in\bar{e} \ \bar{a}qk\bar{o}'\bar{o}ktl\bar{e}'\bar{e}t$, the berries are ripe. gūtlā' ktlē, old (senex). nūtlā'kinē, he is old, an old man. ki'tenū'stik, to paint the face. honi'tenū'stik, I paint my face.

nā'una'nē, he barks.

ko'ne ski'nkūts, the coyote barks.

Other prefixes are s-, k-, y-, as exemplified in the following :-

kānkā'mēk skinkūts, the covote sits on his haunches.

yānk·ā'mēn, sit down !

hö'tsank a' mēk, I sit down.

hā'usakā'nē i'ntlāk āqkī ti'tlnāmō'is. The chicken-hawk and his wife are there. sā'usākā'nē tlā'ūtlā. The grizzly is there.

OTHER MOODS.

Regarding other moods little can be said at present until the analysis of the language has progressed further. The following examples, however, may be given :---

Kā'tlūī'nē k'tsoātli'pitl ski'nkūts. He thinks to kill the covote. Kā'tlūī'nē tsoātli'pītlā'ps. He thinks to kill me.

eyes of the coyote because he is dead.

Kā'tlūī'nē kē'ēps. He thinks she is dead.

An infinitive, or perhaps a participial form in $-s\bar{z}$ [$-s\bar{z}$] seems to be indicated in the following :-

Hötlpā'tlne k'ū'pis tātlō'ksī tlā'ne. I hear the owl saying 'come.'

Kānā' oē ū' qkit lno' hos, nū' poanē tlkā' mūs ni'ksī ā' māks. A star comes along [and] sees a child eating dirt.

O'poanē skā'si tlā'utlās. He sees the grizzly bear coming.

O'peanē ni'tltsiks skā'sē. He sees the buffalo bull coming.

O'poanē tlāpskā'sē päpā'is. He sees his grandmother coming.

Occasionally a form in -sin occurs :-

O'poane ska'sin k a' q k ens. He sees the wolf coming.

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These forms in $-s\overline{i}$ [-s \overline{e}] may, however, be dependent forms of the indicative. The following show another verbal form :—

Kākē'nē kä'psin gūtē'tkin. He says : what shall I do ? Kāū'pqanē kä'psins tli'tkin. He does not see (know) what to do.

Following are examples of the verb in the most indefinite form, corresponding perhaps to a verbal noun or an infinitive :---

kō'nētl, to fear, fearing. kikētl, to eat, eating. gā'k'tsqātl, to chew, chewing. gātla'sootl, to chop, chopping. kitk a'skatl, to cut with shears, cutting. kitkin, to do, doing. kītū'k'tsātl, to tie, tying. gitkā'oātl, to twist, twisting. kā'konī'tlnām, to dance, dancing. gā'tlūnā'tsinām, to gamble, gambling. gā'tlk ātē'inām, to gather berries, gathering. k'k ōmnē' nām, to sleep, sleeping. $k \cdot \bar{a}' i n \bar{a} m$, to steal, stealing. gīyi'ktāmā'tlnām, to upset a cance, upsetting tsoā'nām, to say, saying. kātlē'tcātē'yäm, to dream, dreaming. gāna'k'nē'yām, to sit, sitting. gā'k'ktcē'yäm, to bathe, bathing. gū'tskī'yäm, to lie, lying. gā'qkotlē'yäm, to sell, selling. mi'tik'ki'mēk, to holloa, holloaing.

EXAMPLES OF VERB-COMPOSITION.

Radical a, 'to rub, to paint,'

, a, 'to come, to go.'

. atl, 'to carry.'

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atlas, 'to separate.'

ip, 'dead, to die.'

it, ' to do, to make.'

Derivatives: $y\bar{u}'\bar{a} ki'n\bar{e}$, he rubs on $(y\bar{u}, on,$ kin, with hand). na'qē, he comes. tlāna'oē, he returns. ska'qē, he comes. skā'sī, coming. kāna'oē, he goes along. tcina'çē, he goes away. tlā'tcina'qē, he goes off again. kā'uoua'oē, he starts after. nātloo'nē, 'he carries on his back' (n-, prefix, qo', 'on back '). nātlki'nē, 'he carries in his hand' (-kin, 'with the

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hand'). honā'tlasē'īqo'mēk, 'I cut stone.'

gā'tlaski'nitl, 'to tear apart.' ni'pinē, 'he is dead.'

- *ipi'tlnē*, 'he kills' (*-tl* transitive suffix).
- $ip\tilde{n}'kin\tilde{c}$, 'he is drowned' (='to die in the water,' $-\tilde{u}k = in water$).
- kitkin, 'to make (-kin, 'with the hand').

nitki'nē, 'he makes, does.'

i'tqanë, 'he bites' (= 'he does with the teeth,' -qa, * with teeth').

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prefix, -oo, ' with the back,' -mēk, verbal suffix). gi'tEnū'stik, 'to paint the face, [red] (g-, prefix, nūs, red, -tik, suffix). kitk ā'skātl, 'to cut with shears k-, prefix, $k \cdot a$, 'with shears '). honi'tkinmā'tlnē, 'I help' ('I do with the hand along with,' -mātl, 'along with, together '). Derivatives : kāk'ē'nē, 'he says'(kā-, prefix). kākē'tlnē, he says to 'address' (-tl = transitive suffix).gūtski'yäm, 'to lie' (g-, prefix, ūts (meaning?), -yäm, verbal suffix). ō'poamā'tlnē, 'he finds' (= 'he $\bar{o}' p q a$, ' to see.' sees together,' -mātl. together). skiktle'tsine, 'he is sleepy.' *tlets*, 'to lie on bed, to sleep.' kātlē'tsātē'yäm, 'to dream.'

It will be observed that many of the radicals, e.g., \bar{z} (to be), \bar{a} (to rub), a (to go), ip (to die), it (to do), $k^{i}\bar{e}$ (to speak), are monosyllabic, and it is possible that many of the other and dissyllabic radicals, such as $\bar{o}'poa$ (to see), $\bar{o}tlp\bar{a}tl$ (to hear), $\bar{o}m\bar{a}ts$ (to laugh), onok (to rise), onitl (to be afraid), omits (to break), onas (to be hungry), oku (to be ripe), $\bar{o}t\bar{c}$ (to be warm), $\bar{o}tl\bar{u}q$ (to be tired), $\bar{o}mas$ (to be dry), &c., may be compounds. The occurrence of the o- in so many of these radicals is worth notice.

As will be seen from the following list, the suffixes which express the idea of performing an action with a certain portion of the body have nothing etymologically to do with the name of that member :---

> Back $= \bar{a}qktl\bar{a}'ken\bar{a}m$. Hand = $\bar{aqke'}$ inām. Teeth = $\bar{a}'qk'\bar{a}n\bar{a}'n\bar{a}m$.

To do with the back = $-q\bar{o}$. To do with the hand = -kin. To do with the teeth = -aa.

PREFIXES.

a'ino, twenty; n-a'i-man mitū'kino. there are two rivers. ātlin terms of relationship āqkā'tlē, son; ā'tlāqkā'tlē, grandson. g-, k-, k'in verbs, numerals, &c. ki'tkin, to do; k'kō'mnē, sleep ! k'tcitlmī'yēt, night; kū'kwē; gāsmā'tlnē, two together. kāpronominal kāna'oē, he goes; kākē'nē, he says; kā'tlūī'nē, he thinks ; kānōhos, red. käm. in colour-names kämnū'qtlū, white; kä'mk·ūk·ū'kūtl, black. kA. k ūni'nīki'tsī, not very far. negative kī. in certain verbs and nouns kīyū' kwīēt, day; kī'tōktli'tleā'tl, paper. kīā'wāts, fool-hen; gīa'kqō, fish; gīanū'kqō, mountain-goat; gīā'tlā, kîswallow; gī'ānūqtlū'm'nā, rabbit; in animal names gīāgī'ānū'ktlē, rhinoceros (word apkiāplied to rhinoceros seen in an engraving). kininterrogative particle kinēk, are you eating ? kintsoā'tlēk, do you want to eat?

nitoö'mēk. 'he lies down' (n-,

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Radical k'?, 'to speak.'

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	PREFIXES	-continued.
kī-	with certain parts of verbs	kīūp, dead ; kīūk, eaten. (gūni'tlkū, large; gūni'tlk tlē, big horn
kū- gū- }	with adjectives and verbs	sheep; $g\bar{u}\bar{u}tla'skin$, to break in two with the hand.
gyā-) kyā- ∫	two together, junction (?)	$(gy\bar{a}'kh\bar{a}m\bar{a}'rnam, junction of two trails; ky\bar{a}'ninmi't\bar{a}k, two branches$
itl-	1	(of a river, round an island. $itlk\bar{a}'hak$, very far; $\bar{a}'qkitln\bar{o}'h\bar{o}s$, star.
nā-	demonstrative	na-u te, woman; nāsū'knēn, chief; nāhū'sān mēyi'tkē, to-day; nāta'ga,
n-	with certain numerals and verbs	now. $n\bar{v}'hn\bar{v}$, one; $ni'pin\bar{v}$, he is dead;
• •		ni'hinē, he eats; nipi'tlnē, he kills; nā'snē, there are two.
skik-	demonstrative	$ski'k'k En \bar{u}'ks\bar{e}$, there is a lake; $skik' - n\bar{u}'k's\bar{e}$, there is a stone; $skiktl\bar{e}'tsin\bar{e}$.
tcem-	9 ·	he is sleeping.
tsam- ∫ tlū	•	tcemna'na, few; tsamā'kētl, very.
:	again	tlāna' cē, it returns; āi'n ōtlā enmi'sa, twenty-six
tlit-	privative, negative	tli'them, vain, worthless; tlittletl,
tlō-	negative	blind; tlittlö'kmā, dumb, speechless. tlö'nē kä'psin, there is nothing; tlökä'psin, nothing.
witl-	large	witlkā'nē, it is large; gūwi'tlkāgīā'kaj.
		whale; $h\bar{v}'nitlki'n\bar{v}$, I shout; $wi'tl\bar{i}i'tin\bar{v}$, far; $wi'tl\bar{i}titin\bar{v}$, rich. $y\bar{u}'\bar{u}ki'n\bar{v}$, he rubs on; $y\bar{v}qua'q\bar{e}$, he
yū-	on, on top of, up	climbs to the top; $h\bar{u}'tsu\bar{u}o\bar{u}a'k'$.
yō- ∫	on on top or, up	$n\bar{u}'n\bar{e}$, I climb the mountain; $y\bar{u}'triki'n$, to press the hand upon anything.
yūnā-	many	yū'nākā'nē, there are many: yū'nān-
,		mitū'kinī, there are many rivers; hīyū'nūhī'knamī'enī, I have many
		friends; $y\bar{u}'n\bar{a}k'\bar{a}'psin$, many things.

THE PREFIX aq.

The most characteristic prefix of the Kootenay language is the noun-prefix $\bar{a}q$, the signification of which I have as yet been unable to decide. In some cases it is omitted, and even in giving the most indefinite form some of the Indians did not use it in certain words, e.g.:—

wā'tlona'kenam, tongue.

The following list of composition with $\bar{a}q$ - will indicate the manner of its use generally, and may suggest possible explanations of its proper functions :—

 $\bar{a}qk$, arrow. $\bar{a}'qk\bar{c}$, again, and. $\bar{a}qk\bar{c}'at\bar{c}$, doud. $\bar{a}qk\bar{a}'n\bar{c}$, gopher's hole. $\bar{a}qk\bar{a}'n\bar{c}$, cord. $\bar{a}qktc\bar{a}'matl$, knife $\bar{a}qk\,\bar{a}t$, tail. $\bar{a}qk\,\bar{a}t$, tail. $\bar{a}qk\,\bar{a}t$, tail. $\bar{a}qk\,\bar{a}t$, shore. $\bar{a}qk\bar{a}\bar{a}k$, shore. $\bar{a}qk\bar{a}\bar{a}k$, shore. $\bar{a}qk\bar{a}\bar{a}k$, shore. $\bar{a}qk\bar{a}\bar{b}\bar{a}$, spider's web. $\bar{a}qk\,\bar{a}\bar{a}tl\bar{c}n\bar{a}k$, birch tree. $\bar{a}qka'n$, handle. $\bar{a}qk'n,\bar{n}k$, ankle.

 $\bar{a}qh \bar{z}'$, thwarts of canoe. $\bar{a}qh\bar{a}'tsk\bar{v}$, gun-flint. $\bar{a}qk\bar{a}'tsk\bar{v}$, gun-flint. $\bar{a}qk\bar{a}'tsk\bar{v}$, wild onion. $\bar{a}qktl\bar{v}m$, bat. $\bar{a}qktl\bar{u}h$, pipe-stem. $\bar{a}qk\bar{u}'tlak$, meat, flesh. $\bar{a}qktl\bar{u}$, snow. $\bar{a}qk\bar{u}'tl\bar{a}m$, eel. $\bar{a}qktl\bar{o}'m\bar{a}k$, cotton-wood tree. $\bar{a}qk\bar{v}i$, hand. $\bar{a}qk\bar{v}n$, nose. $\bar{a}qk\bar{u}n,$ sose. $\bar{a}qk\bar{u}n,$ kos. $\bar{a}qk\bar{u}n,$ kos. $\bar{a}qk\bar{u}n,$ kos. T mere It but at the la botto But of also + It

ū'qk ūqk ā'ql ā'qk

ā[†]qkā āqkā āqkā āqkā āqki āqki āqki ā[†]qki ā[†]qki

On feàture

-ātl

-ūts

āqkā' kā, raspberry. āgkä'minā, creek. āgkā, pointed ends of canoe. ūgkto, one-year-old bear. agktlak, back. ā'qkinmi'tūk, river. ā'akink ō'k ō, fire. ū'ąkinū'tlām, snake. ā'akinkä'māk, dragon-flv. $\bar{a}'\bar{q}kink'\bar{a}'tl$, forehead. ā'qkingo'motl, button. ūaki'nnūqū'nūk, creek. ā'qkinū'kmūk', fish-spear. ā'qkinū'ktlē'ēt, prairie. ā'akinū'ktlūk, Kicking Horse River. ā'akinko'tl, sand. ūgki'nkō, forked stick. ā'qkinkānū'qtlām, crown of head. ā'qkinū'qmā' snā, tail of bird. ā'akītlī'yäm, name. ā'qkītlā'nām, house. ā'qkīyē'nik, thigh. āgki'tlnī, heart. ā'qkitlmē'yit, sky. ā'akitlnö' hos, star. ā' gkitlmāk', peach. āgkā' nom, belly. āgko'ktlāko'nom, cricket. āgkoko' nom, house-fly. ü'qkötlü'kö, bag. āgkö' wöktlē' ēt, mountain. āqkö'ktla'ga, beard. ūqk ū' k' Enūk, lake. aqki'ts, lodge-pole. āqkitskā'inām, fingers. aqkitsk'a'tlak, branch of tree. ā'qkitskū'tl, bark. ā"gkitstlā'in, tree.

ā' qkinni'tlaātl, powder. ā' qkinnā' mātl, quills. ā' qkinkū' mātl, calf (vitulus).

āgko' vātl, maize.

ā'qkinū'k tlē, tomahawk. ā'qkinū'kayūk, flower. ā'qkinnākoā'akō, pitch. ā'qkink'ō'mātl, cradle.

ā'qkinko'wā, wings.

āqkītla' ktcū, cord. āqkīmū' qū, garden. āqkīyū' kwā, head-dress, hat.

 $\vec{a'}qk\vec{v}ri'tsk\vec{v}$, buckle. $\vec{a'}qk\vec{v}t\vec{a'}t'$, grease, fat. $\vec{a'}qk\vec{v}t'$, t $l\vec{v}$, horns. $\vec{a'}qk\vec{v}ktl\vec{a'}$, nor, fishing-line. $\vec{a'}qk\vec{v}t\vec{a}t$, axe. $\vec{a'}qk\vec{v}t\vec{a}t$, axe. $\vec{a'}qk\vec{v}t\vec{x}t$, kom $\vec{v}'k\vec{v}$, ashes. $\vec{a'}qkitsk\vec{a'}kitl$, soot.

The above list of words is not arranged according to any known principle, but merely to illustrate the variety of compositions with $\bar{a}q$ - in Kootenay.

It is evident that -k, $-k\bar{e}$, -kin-, $-k\bar{v}\bar{e}$, -kits-, $-(k)it\bar{l}$ -, &c., are qualifying affixes, but at present it is impossible to state with certainty their several meanings. In the last group of words in the first column there is the idea of 'tree, branch,' at the bottom of most of them, and in the case of 'star' and 'sky' a correlation is certain. But of the rest of the list nothing can be stated with certainty.

However, $\bar{a}'qkin\bar{u}'tl\bar{a}m$, 'snake,' and $\bar{a}qk\bar{u}'tl\bar{a}m$, 'eel,' seem related, as perhaps are also the words for 'belly,' 'cricket;' fly.'

It might be mentioned that several words have more than one form, thus :--

 $\begin{aligned} & \text{tree} = \bar{a}^{i}qkitstl\bar{a}^{i}in; \ \bar{a}^{i}qkinitstl\bar{a}^{i}in. \\ & \text{head} = \bar{a}qkt l\bar{a}m; \ \bar{a}qk\bar{b}^{i}t lam. \\ & \text{cloud} = \bar{a}qk\bar{a}tl; \ \bar{a}^{i}qkink\bar{a}^{i}tl\bar{a}^{k}. \\ & \text{sand} = \bar{a}^{i}qkink\bar{a}^{i}tl; \ \bar{a}^{i}qkink\bar{a}k\bar{a}^{i}tl. \\ & \text{name} = \bar{a}^{i}qk\bar{a}tl\bar{a}^{i}y\ddot{a}m; \ \bar{a}^{i}qk\bar{a}tl\bar{a}^{i}y\ddot{a}m. \end{aligned}$

On another occasion the writer may be able to further discuss this interesting feature of the Kootenay language.

SUFFIXES.

suffix in plant names suffix in animal names āqkō'-ātl, onion; tän-ā'tl, rush. gō'tsāts, chipmunk; t'a'kāts, squirrel; gīā'wāts, 'fool-hen.'

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SUFFIXES-continued

		SUFFIX	ES—continued.
	-ēt -it	suffix in names of objects of nature, and atmospheric phenomena	wātlkwā'ēt, evening ; kanmē'yēt, to-morrow ; āqkā'māqtlē'ēt, mountain; ā'qkināqtlē'ēt, prairie.
		suffix in names of parts of body	$\bar{a}qk\bar{e}'\bar{a}g'\bar{a}k$, foot of bird; $\bar{a}qk\bar{o}'y\bar{i}k'\bar{a}'k$, wrist; $\bar{a}qk\bar{v}'\bar{u}k'\bar{a}'k$, neck.
	- <i>k</i>	suffix in animal names	$ntc\bar{u}k$, mouse; $m\bar{a}'iy\bar{u}k$, weasel; $na't\bar{u}k$, frog; $k'u'p\bar{o}k$, woodpecker; $k\bar{o}'kr\bar{o}k$, swan.
	-kā	with adjectives and verbs	witl $k\bar{u}'n\bar{v}$, he is tall, big; $k\bar{u}'us\bar{u}k\bar{u}'n\bar{v}$, he abides; $y\bar{u}'n\bar{v}k\bar{u}'n\bar{v}$, many.
•	-kāhak -kä'ntik	with certain adverbs suffix of distributive in nu- merals and substantives	<i>itlkā'hak</i> , very far: <i>kōitlkā'hak</i> , far from here. <i>nō'knēkā'ntik</i> , one stone each: <i>kāskā'ntik</i> ,
	-kin	with hand or foot	two each. $y\bar{n}'\bar{a}'ki'n$, to paint; $\bar{a}tlkin$, to carry in the hand; $y\bar{u}'ts\bar{n}ki'n$ to press the hand or foot on anything.
	-ki'ntik -ki'stik	suffix of collective	pā'tlkēki'ntik, several women.
	-ki siik -kī	suffix of dual in certain nouns	pā'tlkēki'stik, two women. yā'kasinki'narā'skī, God ; nā'hōsā'nmēyē'tkī, to-dav.
	-QŪ	on, with, the back	$m\bar{n}t lo \bar{o}' m\bar{c}$, he carries on his back; $nito \bar{o}' m\bar{c}k$ lie down.
	-qa(n) -mātl	with the teeth together	i'teanē, he bites. āsmā'tlnē, two together; kitsāmā'tlnē, along with, together.
	-mēk -mik	verbal suffix	<i>itçī'mēk</i> , to lie down.
	-mē'yēt -mē'yit -mī'yit		 (ā'ghitlmē'yēt, sky; k'tcitlmē'yēt, night; känmē'yēt, to-morrow; ki'tɛmū'sitlmē'yēt, red sky at sundown; köki'tcinmē'yēt. Sunday.
	-mōtl -nū'hak	ments, instruments, &c.	ki'trañ'stë'mötl, mirror; āqktë'mötl, fire-flint; gānä'nkömö'tl, broom. itlnā'hak, fourth; itlnā'haks, next.
	-nē	suffix with predicate adjec- tives and verbs	noni'tlnē, he is afraid; i'toanē, he bites; mātlao'nē, he carries on his back; ni'pinē, he is dead; witlkā'nē, it is big.
•	-nām -nām	suffix of generality with nouns suffix of infinitive(?) with certain verbs	<i>ūakitlū'nūm</i> a house somehody's house
	-nik -ni'ntik -sa, -sā -sī	dwelling at suffix of plural suffix of certain numerals suffix of infinitive or parti-	$\bar{a}gk'\bar{a}'mnik$, Indians of Fort Steele. $p\bar{a}'tlk\bar{v}$, woman: $p\bar{a}'tlk\bar{v}ni'ntik$, women. $k'\bar{a}'llsa$, three: $q\bar{a}' tsa$, four: nmi'sa, six.
	-tl	suffix of certain transitive	$i'pin\bar{e}$, he dies : $ipi'tln\bar{e}$, he kills him.
•	-tlē'ēt	verbs extent of country (?)	$n\bar{a}mtl\bar{i}'et$, echo; $\bar{a}akin\bar{u}'atl\bar{i}'\bar{e}t$, prairie;
	-tlō'k	in certain bird names	$\bar{a}qk\bar{a}'m\bar{a}ktl\bar{e}'\bar{e}t$, mountain ; $g\bar{o}'mitltl\bar{e}'\bar{e}t$, far. $k\bar{a}q\bar{u}'tl\bar{o}'k$, goose ; $q\bar{a}spi'tl\bar{o}'k$, crane.
v)	···· ··.	in the water; water	tlikök, March (water left); ipū'kinē, he drowns (dies in the water); tābū'ksē, get under water; ā'qkinmi'tūk, river; āqk ö'- k Enūk, lake; giyā'kök, water falling over stones
	-mōk -yäm	woody substance, shrub, tree suffix of infinitive (?) in cer- tain verbs	a drait + Pauzh binch tree

SUFFIX -motl.,

The suffix $-m\bar{\sigma}tl$ is a very important one, and is combined with other particles, which have the function of further specialising the instrument. The following list

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must be given at present without an exact knowledge of the import of these other affixes :-with -tē-: āaktē'motl, fire-flint.

kī'tenū'stē'mūtl, mirror. gi'tEmö'tltlüpkū'ptcētē'mötl, yeast. with -k·ā-: gi'tūktlitlk·ā' motl, pen, pencil. gā'kō qōmāk·ā'motl, weighing-scales. k'pitsk'ā'motl, scythe. kikā'wok·ā'motl, tobacco-cutter. with -k.o.: gat't'k.o'motl, key of metal. gānā'nk ōmō'tl, broom. k'tcok/la'ink o'motl, auger. kitke'tlwitch o'motl, nail. with -qo-: kitā'kopqo'motl, stick for beating on log. kitā'mõqō'mōtl, drumstick. gitö'ktlåteö'mötl, branding-iron. with -nē-: ki'tcūkō' nē'mōtl, fork. ki'tisū'knūkinē'motl, handkerchief. kik'tū' kūnē' mūtl, soap. kikā'konēgonē'motl, towel. with -ti'te-: gopko'watliko'nate'timotl, broom. känkā'tlmökwāti'temötl, candle. kāmi'toātlti'temõtl, hammer of gun. k'tcē'ikā'tltliti'temötl. map.

The following list of derivatives from one radical will serve to show the power of word-formation which the language possesses, and the distinction which it is able to make between somewhat similar objects, while considering them all at bottom. from the same fundamental root :-

From radical $k t c \bar{o} k$ or $k t s \bar{u} k$, to pierce:

gitkā'tltliti't Emõtl, scissors.

auger, k'tcöktlä' ink ö' möt l. borer, k'tsö' kötl. fork, k'tcū'kū'nē'mötl. sword, k'tsü'kötē' yātl.

DIALECTIC DIFFERENCES.

It can scarcely be said that there are two well-marked Kootenay 'dialects.' Considered in the light of the fact that the entire grammar of the two tribes is the same, such differences as do exist between the speech of the Upper and that of the Lower Kootenays might better be termed 'provincialisms.'

The peculiarities of the Lower Kootenay language as compared with the Upper Kootenay are as follows :--

I. Phonetics.-The Lower Kootenays speak more rapidly and have a tendency to syncopate words, which retain a purer form amongst the Upper Kootenays. This is seen in the words for coat, leggings, skunk. In some cases monosyllables with long vowels are produced by the contraction of dissyllables, e.g., tas = ta' aas (enough). Certain vowel-substitutions are made. Thus, in all the Lower Kootenay words in which the suffix $-m\bar{e}'yit$ of the Upper Kootenay appears, it is uniformly pronounced -moyit or -mu'yit. This -mo'yit is, however, occasionally heard amongst the Upper Kootenays. Another case of vowel difference is Upper Kootenay $\bar{o}p\bar{a}'t = Lower$ Kootenay *ipā't* (white fish).

The *tl* (explosive *l*) of the Upper Kootenays is represented always in Lower Kootenay by dl (palatal-dorso-apical; see 'Report,' 1889, p. 802). Thus :--

Upper Kootenay. Lower Kootenay. English. tlē'nē dlē'nē across ōni'tlnē ōni'dlnē afraid (he is) gō'tlnū gī'dlvā apple āqk ö'tlāk āqk[.]ö'dlāk beef wisë'yātl wisē'yādl sweat-house

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When the Lower Kootenay half-breeds speak Indian, they tend to make this dl a simple l. English half-breeds of the Upper Kootenay tend to make it kl, as do most Europeans trying to speak Kootenay.

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II. Grammar.—The grammatical differences are few indeed. The persistence of the suffix $-n\bar{a}m$ in $titk^{i}\bar{a}'ten\bar{a}m$ (man) and $p\bar{a}dlk\bar{e}'n\bar{a}m$ (woman) is worthy of note. The suffixes -taiya in $q\bar{a}staiya$ (skunk), and $-n\bar{a}k$ in $mitski'ken\bar{a}k$ do not appear in these words in Upper Kootenay. In Upper Kootenay 'to do 'is kitki'nitl, in Lower Kootenay $kiti'dlm\bar{a}dlki'nidl$, and the insertion of $-idlm\bar{a}dl$ -continues throughout the conjugation of this verb in Lower Kootenay speech.

III. Vocabulary.—Some difference is caused by names of things which are not found in the Upper Kootenay region, trees, birds, and the like. There are, however, a number of words, e.g., blanket, fish, glore, goose, mallard, many, partridge, plate, sit down, silk, sleep, snallow, which in Upper and Lower Kootenay are derived from two distinct roots, having no relation whatever to each other. Thus:—

English blanket (my)	Lower Kootenay gādlā'mādl	Root dlām	Upper Kootenay <i>qācī't</i>	Root cīt.
fish	äp	äp	gīāqkō	?
glove great	pā'dlyā nīdlā'nē	nī'dl-	āqkā'tl nitlkā'nē	witl-
many	nāiyē'nē	nāiyē-	yū'nōkā'nē	yū'nō-

There are other differences caused by syncopation of words, as noted above. The cause of the differences between the speech of the Upper and that of the Lower Kootenays has not been explained. The writer believes this to be the first scientific record of them. The following word-list will be of interest:—

English	Upper Kootenay	Lower Kootenay
always	ā'qkänmē'yit	ā'qkänmū'yit.
bacon	kyi'nūk tsā'tla (i.e., pig)	$\bar{a}qk'\bar{o}'t\bar{a}'dl.$
bird	tō' kutskä' m Enē	tsinmi'nē.
bird (species?)	tci'kemā'tlkō' enkā' ek	tcik'kō'dlkō' enkā' ek.
bird (species?)	yi'kets nā	yi'kets'nānō'qdlō (whitey).
blanket (my)	qū'cīt	gā-dlā' mādl.
blanket-leggings (my)	gā-kī'tektlū'knā	$g\bar{a}'-k\bar{\imath}dl\bar{\imath}'kw\bar{a}.$
climb (to-a tree)	gō' wāha' kenō	gonā'anu'kpom. ~
coat (my)	$gar{a}$ - $ka'tar{u}ar{u}'mtlar{a}$ Et	gū-k'wū'mdlūEt.
creek (rivulus)	ā'qkinnōqō'nūk	āqkä'minā.
day-after-to-morrow	tlō'nūkänmē'yit	dlō'nūkänmō'yit.
evening-red	ki'tenū'sitlmī'yit	ki'tEnū'sidlmū'yit.
few	tcu'kōna'na	p'tca'kona'na.
fish	gīā' kqū	äp.
flap of tent	gīātlāga'ngona'tl	gīhāťmā'ngōnā'dl.
glove (of buckskin)	āqkā'tl	pā'dlyā.
go away !	kī'ntsnākē'tl	kintsnā'käntē'īkēdl.
goose (wild, spec. ?)	$k\bar{a}q\bar{u}'tl\bar{o}'k$	mä'kāk.
great (it is—)	nitlkā' nē	nõdlā'nē.
grouse (ruffed)	ťā'nk'ūts	tāpi'soō.
hen	gūtskā' k'minnū' k'mā' ылā	gākdli'dlinū'k'mā' Enā
horse	k'ā'tlaqā' Etltsin	• gidlk'ā'dlaqā' Edltsin.
kneel (to)	gōā'nkänk·ā'mik	gō'āndlu'kpōm.
make (to)	kit ki'nitl	kiti'dlmādlki'nidl.
Imake	hō'nïtki'nē	hō'niti'dlmādlki'nē.
mallard (duck)	kä'nk ūsknē'ī kūk	mōp; mE'kāu.
man	titk'āt	titk'ā'tenām.
many, plenty	yū'nōkā'nē	wāiyē'nē.
maple	mitskik	mitski'kenā'k.
midnight moon	kā'iyāk ā'n ōk'tcitlmī'yit	kāiyākā'nöktcidlmā'yit.
	k'tcitlmī'yitnatā'nik	ktcidlmö'yitnatā'nik.
morning (it is—) move (to)	kä'nmēyi'tinē	kä'nmöyi'tinē.
night	tlū'nkū	nō'kō.
plate (of tin)	k'tcitlmī'yit	k'tcidlmō'yit.
quick!	$g\bar{v}n\bar{u}'m\bar{u}_{Q}\bar{v}$	gā' känkē' kok.
Anter	tsinā'kēn	tci'dlkā'tsē.

English rain (it rains) sack sit down shoes (my moccasins) silk skunk sky sleep (I---) he sleeps we sleep sleep thou ! sleep ve! swallow (hirundo) to-dav to-morrow white fish (species ?) woman

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Upper Kootenay nā'tlūk'k·ō'k·ōi'tinē ātsū'tlā yānk ā'min gā-tlī'en āqkitlu'ktcū QU'QAS ā'qkitlmī'yit hõ'tsk'omne''ne k'omnē''nē hōtlk`ō'mnēnā'tlā k'ō' mnin komne' ketl gī(y)ā'tlā nāhō'sanmēyē'tkē känmē'yēt ōpa't pū'tlkē

Lower Kootenay ōkā'dlnīki'dlnē. ā'tsūnā'dla. tsisä'k'nū. gā-dlū'mā. dlä'snā [French de la soie]. Qāstai'yā. ā' qkidlmö' yit. hōtsnū'p'nē. nū'p'nē. hödlnüp'nā'dlā. nū'pin. nū'pkēdl. tcidľok. nāhö'sanmöyē'tkē. känmö'yēt. ıpā't. padlke'nam.

The two tribes of the Kootenays, Upper and Lower, converse with each other with apparent ease, as each knows by heart most of the expressions which are different in the speech of each. Those Upper Kootenays who never visit the Lower Kootenay territory are very ignorant regarding this dialectic difference. The result of our linguistic investigation has been to fix the place of the Kootenay thus :--

Ki'tonā Qa, or Kootenay. An independent linguistic stock, with two dialects, differing slightly in phonetics, grammar, and vocabulary :--

A. Upper Kootenay.B. Lower Kootenav.

KOOTENAY JARGON.

As usually happens where intercourse with the whites takes place, a jargon has sprung up, although its development has been hindered by the use of the widespread Chinook. Many of those who speak this 'Kootenay jargon' imagine they are acquainted with the real aboriginal tongue; but it consists, in fact, of Kootenay words changed in form and sound to conform to English grammar and phonetics. A few examples will suffice to indicate its general character :--

Jargon ka'tlahä'lcin ä'kiklä'c skä'taklēt klö'klamā'ka kā'mānā'pqanē sä'ntlōhō'n ni'lkō	English horse house (his) cold (it is) Stony Indians see (I) sick (he is) money	Kootenny k ätlaqä' etitsin. ä' q kītlā'is. nisk attlēc'tinē tlū' tlämā' e ka. hīnū' poānē. sa' nitlqö' nē.
	money	ni'tlkō.

By means of this jargon, which consists of a Kootenay vocabulary mutilated to suit European ideas of phonology and grammar, a number of the settlers manage to get along with the Indians, and to obtain a reputation for speaking the Kootenay language.

SLANG.

Amongst the young men of the Lower Kootenays a number of slang words are used, such as-

 $k'\bar{a}'dl\bar{a}$ or $k'E'dl\bar{a} = horse.$ mi'stak'E'dla = colt. 69

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Colloquial expressions, which are not regarded as quite correct, are the following :-

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tinā'mū, 'butter.'

ni'tlko, 'bell.' Lit. 'iron, metal.' tlāō' kwē, 'eleven.' For ē' tū wōt laō' kwē. And so with 'twelve,' &c. āgkink ö'kö', 'match.' For āgktē'mötl. kitki'nk'ā, 'medicine man.' For ni'pik'āk' ā'k'ā.

PUNNING AND WORD DISTORTION.

The Kootenay Indians are certainly acquainted with the art of punning, and the Indian A'mElū took great delight in repeating over and over again the distortions of certain words. Following examples will show the nature of these puns :---

For pāpā	he would say	frequently	pāpī'yā.
, sāina'skū]	L.		∫ sāuna'tckō ; sāuna'skō ;
(spec. dragon-fly)	, "	**	\ sā'inasū'km'; sāumasē'ko.
For g v'tcatc	,,	"	g·ūca'tckū ; g·ūtla'tskō.
(chipmunk)∫		, e	

The Indians are very much amused at the mistakes made by whites in trying to learn their language, and laugh long and heartily at their expense. A few of these errors which came under the writer's notice might be chronicled here.

For känkū'ptċē, ' bread baked in a frying-pan,' was said tänkū'ptċē, which reminded the Indians of t'ank'uts, 'grouse,' and set them in a roar of laughter. The same effect was produced by-

<i>qā'qas</i> , 'skunk,' said fo	r qā'qā, 'crow.'
$\bar{a}'qk\bar{a}m$, 'pine,' "	A'qk'ām, ' Fort Steele.'
ini'sin, 'horsefly,' "	ini ⁷ simin, ' rainbow.'
$k'\bar{u}'p\bar{\imath}, \text{ 'owl,'}, ,$	$k'\bar{u}'p\bar{o}k$, 'woodpecker.'

Even the seemingly triffing mistake of saying $\bar{a}'qk\bar{v}tla'kp\bar{e}k'$ for $\bar{a}'qk\bar{v}tla'kp\bar{e}'k$, leaf,' was provocative of much merriment.

BORROWED WORDS.

There appear to be but very few borrowed words in the Kootenay language. These are as far as ascertained

From Nez Percé suēapo, Kootenay sūyä'pī, 'white man.'

? Klikatat nooksi, 'otter,' Kootenay na'ksak, 'marten,' or vice versa.

- French le capot, Kootenay tlī'kāpō' (dlī'kāpō'), ' coat.' ••
 - Chinook jargon Bo'sten, Kootenay Bo'sten, 'American.' """Kindzátc, "Kindjáte, 'Canadian.'
- French de la soie, Lower Kootenay dlä'swā, ' silk.'
- ,, a Salishan dialect, stā'tlām, cance.

APPENDIX.

SHUSHWAPS. PHYSICAL CHARACTERISTICS.

The measurements of the three females here recorded were made at the mission of St. Eugène, where they were attending the mission school. The measurements of the Shushwap Antoine were made at the penitentiary of New Westminster, B.C., by Dr. F. Boas, and were kindly placed at the writer's disposal by him. From so few cases nothing absolute can be determined. The stature of the women resembles that of the Kootenay women, and the cephalic indices of the three individuals are practically identical 84 (or 82 on the skull), the index of the male being 82.9 (or 80.9 on the skull), all being brachycephalic. These data go towards strengthening the view that the Shushwaps resemble the coast tribes (see 'Report, 1890, p. 632). The females belong to the colony of Shushwaps on the Columbia, within the Kootenay country.

	Male Female		÷	
Number	1	1	2	3
Name	Antoine	Angélique	Amélie	Cecilia
Tribe	Shushwap (Kamloops)	Shushwap (Col. Lake)	(Sister of No. 1)	Shushwap (Col. Lake)
Age	22	10	17	17
Height, standing . Height of shoulder Height of point of second finger Length of arm Finger-reach Height, sitting Under Standard Length of head Breadth of head Distance from root of nose to chin . Distance from root of nose to between lips . Width of face Height of nose Width of nose	mm. 1,631 1,340 [*] / 594 746 1,759 877 375 193 160 126 80 150 53 39	mm. 1,383 1,138 534 604 1,385 751 314 183 154 110-5 72 130-5 55 40	mm. 1,555 1,289 580 709 1,601 810 355 186 156·5 117·5 77 136 54·5 33	mm. 1,583 1,307 591 716 1,628 834 357 175 147 112 78 140 52 34
Index of height of shoulder Index of length of arm Index of finger-reach Index of height sitting Index of width of shoulders Cephalic index Index of upper part of face. Index of face Index of nose	$\begin{array}{c} 82 \cdot 2 \\ 45 \cdot 7 \\ 107 \cdot 9 \\ 53 \cdot 8 \\ 23 \cdot 0 \\ 82 \cdot 9 \\ 53 \cdot 3 \\ 84 \cdot 0 \\ 77 \cdot 1 \end{array}$	$\begin{array}{r} 82 \cdot 3 \\ 43 \cdot 7 \\ 100 \cdot 1 \\ 54 \cdot 3 \\ 22 \cdot 7 \\ 84 \cdot 3 \\ 55 \cdot 17 \\ 84 \cdot 67 \\ 72 \cdot 72 \end{array}$	82.9 46.7 103.0 52.1 22.8 84.0 56.62 86:39 60-55	82.6 45.2 102.9 55.2 22.6 84.0 55.71 80.00 65.38

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