

DEPARTMENT OF THE INTERIOR, CANADA
DOMINION WATER POWER BRANCH

WATER RECORDS
Appurtenant to
BRITISH COLUMBIA INDIAN RESERVES.

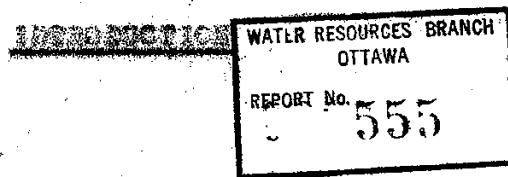
REPORT NUMBER 4.
KOOTENAY INDIAN AGENCY

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#555

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appendix to surveyor's
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The investigation of water rights appertaining to Indian Reserves in the Province of British Columbia was undertaken by the Dominion Water Power Branch in September 1918, at the request of the Department of Indian Affairs.

All reserves directly affected lie within the "Dry Belt" and have been dealt with in the following order:-

Report No. 3 - Lytton Indian Agency

- * No. 6 - Shallope * *
- * No. 8 - Stanagan * *
- * No. 4 - Kootenay * *
- * No. 9 - Williams Lake * *

Important Notice

The reports included in this series contain lists of water records, allocations, or privileges, granted prior to 1900, for irrigation or domestic purposes upon the various reserves and which are subject to the adjudication of the Board of Investigation under the B.C. Water Act.

In compiling the lists a careful search was made of Provincial and Dominion Government records, also all available official publications, minutes of meetings of the various Indian Reserve Commissions and other documents bearing on the subject. In cases where the Indian records are dated subsequent to those of other water users on the same stream, details of such prior records are given to the extent of available information.

Annual Reports

Under the headings of "areas", "water supply" "pumps", etc., information obtained on the ground, either by survey or inspection, concerning the extent of irrigable areas, utilization of water, condition of works, suggested improvements for water supply systems, etc. is briefly given.

For the information of the Board of Investigation and on a basis on which the domestic requirements may be determined, the population and number of stock on each reserve is quoted from the 1916 report of the Indian Reserve Commission.

Summary

Appended to each report is a summary of recorded rights and estimated water requirements for each reserve. By referring to this part of the report the salient points may be observed at a glance.

For the purpose of comparing the estimated requirement with the amount of water recorded, the quantities recorded in minor inches have been converted to the equivalent in acre feet over a period of 120 days. For example:- Report No. 3, Okanagan Agency—page 30, Okanagan Indian Reserve No. 1, Source—"Stinch Creek" Amount recorded is 100 minor inches—666 acre feet in 120 days, total area irrigable from recorded sources (Provided sufficient water is available) is 494.1 acres. Accepting the duty of water at 5 acre feet per season for each acre of irrigable land the requirements are shown to be roughly 1488 acre feet as against 666 acre feet recorded. In other words the amount recorded would provide 1.85 acre feet per acre of irrigable land, in a season of 120 days.

It will thus be readily observed under the column headed "Amount recorded in acre feet per acre of irrigable land" whether the amount recorded exceeds the requirements of the land, or otherwise as the case may be.

Plans

The plans which form a part of each report have been prepared from surveys made by engineers of the Dominion Water Power Branch and Provincial Water Rights Branch either separately or jointly. In a few cases where earlier surveys (prior to 1910) by the Provincial Government show that the requirements of the land would warrant the confirmation of appurtenant records, such information has been incorporated without further survey.

The plans show irrigated areas "cross-hatched" and irrigable areas "single-hatched" also location of streams, points of diversion, ditches, etc., and wherever possible the general topography is indicated.

The work of investigation has been carried on in close co-operation with the Provincial water Rights Branch and information respecting Water Rights and surveys has been exchanged to the mutual benefit of both governments.

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KOOTENAY AGENCY

Water Rights and Field Report.

I N D E X.

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Reserve Kootenay No. 1---ST. MARY'S (Area 17,425 acres).
Recorded Rights Prov. W. R. No. 54, Sept. 23, 1896, 400 ins. from St. Mary's River.
 Prov. W. R. No. 53, Sept. 23, 1896, 100 ins. from Cherry Crk.
Prior Records
of Other Users St. Mary's River-----None.
 Cherry Creek---May 5, 1884---Lot 710---383 ac. ft.---C. L. 2075
 (16 subsequent records up to July 24, 1911).
Areas Irrigated-----None (see note under "Works").
 Irrigable-----4570 acres.
Works Ditch from St. Mary's River. Intake destroyed by high water 1919 (see photos) and ditch of no further use until repaired at very heavy expense.
Water Supply Irrigation-----St. Mary's River and Cherry Creek.
 Domestic-----St. Mary's River and Cherry Creek, springs and sloughs.
Agricultural
Improvements 91 houses, 62 barns, fences, cultivation, etc.
Remarks As shown on accompanying plan, this reserve consists of a high bench bounded on east along Kootenay River, and south along St. Mary's River by a belt of bottom land. Most of this lower land requires irrigation and was supplied partially by a ditch from St. Mary's River until its destruction by high water in 1919. Cultivation is now being carried on without irrigation, and except for these parts near the junction of the two rivers, where some benefit is derived from sub-irrigation, there is small return for the labour involved. Portions of this sub-irrigated area now covered with light growth of poplar and willow should be cleared and cultivated, which would add very materially to the present scanty supply of winter feed.
 In addition to the clearing of more bottom land bordering on the Kootenay River, the acute situation as regards winter feed might be relieved by four possible irrigation projects, all of which would be expensive and would require further investigation and surveys before construction is contemplated.

1. Restoration of Old Ditch from St. Mary's River.

This would require such expensive head-works, the permanency of which would be problematical on account of the large volume, high velocity and nature of the banks of the St. Mary's River that it would be advisable to examine other projects carefully before proceeding with this.

2. On the upper bench, a branch ditch from the Peter Boyle ditch from Cherry Creek, approximate location shown on plan, would serve to relieve Francis' dry farm of 130 acres and probably other land adjacent to it which might be worth irrigating once the water was there. This ditch would involve the enlarging of Peter Boyle ditch in addition to its own length of about 1½ miles.

Remarks (Continued).

3. Another project on the upper bench from Cherry Creek is a ditch 5 miles long with intake above the Lumber Railway's trestle above the Falls. This was an idea of Mr. Peter Woods, a large cattle rancher on Cherry Creek, who kindly accompanied us while we took levels along the route he had projected. This ditch would serve an area, outlined approximately on accompanying plan, of about 1500 acres including the Franklin dry cultivation. The soil while light would be productive with a good supply of water, but before this project could be considered economically sound, further investigation and surveys would be required of both the cost of the ditch and the estimated returns from the land.

4. The low-lying land along St. Mary's River above the Mission bridge, as well as that previously served by the old ditch, being under an elevation of 50 feet above normal level of the river during irrigation season, suggests an economical hydro-electrical pumping proposition. It is possible that a small plant installed on Joseph Creek, which empties into St. Mary's River from the South at the Indian School, would be worth investigation with a view to supplying light, water and power for the school, and pumping water for irrigation on the reserve just across the river. The irrigation season being also the high water period, makes pumping by electricity for low heads very economical, where power is available without too heavy initial expense.

Some relief is urgently needed on this reserve for the irrigation situation, and whatever project is found to be the most economical upon further investigation, the cost of construction of any of them would more than be compensated for by the Indians cutting the valuable pine timber which is now matured on this reserve.

Population: 200

Stock: Horses 400 Cattle 400

Plan

No. 1

Photos

Nos. 24, 25 & 26.

<u>Reserve</u>	Kootenay No. 2 --- TOBACCO PLAINS (Area 10,557.03 ac.).
<u>Recorded Rights</u>	I.R.C. Allott. July 18, 1884 -- All water flowing through this reserve is allotted to the use of the Indians. Prov.W.R.No.56, Sept. 23, 1896 -- 200 ins. from Willie Phillips Creek. Prov.W.R.No.49, Sept. 23, 1896 -- 200 ins. from Reserve Cr. Prov.W.R.No.49, Sept. 23, 1896 -- 100 ins. from Semo Cr. Prov.W.R.No.70, Oct. 9, 1900 -- 100 ins. from Phillips Cr. Prov.W.R.No.69, Oct. 9, 1900 -- 6 ins. from spring.
<u>Prior Records of Other Users</u>	Willie Phillips Creek --- None Reserve Creek --- None Semo Creek --- None Phillips Creek -- Aug. 29, 1893 -- Lots 289 & 487 -- 455 ac.ft., C.I.L. 372. (6 subsequent records up to 1907). Springs (Gordon) -- Oct. 12, 1899 -- Lot 289; 30 ac.ft. F.L. 3131 Dec. 2, 1899 -- Lot 289 -- 207 ac.ft. C.I.L. 670
	(NOTE: Prior records of other users as listed are prior to Prov. Records appurtenant to this reserve, but are subsequent to the I.R.C. Allottment of July 18, 1884).
<u>Areas</u>	Irrigated ----- 230 acres Additional Irrigable -- 758 acres Total Irrigable ----- 988 acres
<u>Water Supply</u>	Obtained from Willie Phillips Creek, Semo Creek, Reserve Creek, Phillips Creek and Springs and used for irrigation and domestic purposes.
<u>Works</u>	Ditches excavated or built up with logs and earth, the latter from Willie Phillips Creek, built at considerable expense some years ago are in need of repair.
<u>Agricultural Improvements</u>	28 Dwellings, 33 outbuildings, fences, corrals etc. of a better type than the ordinary.
<u>Reclamation.</u>	About 280 acres included in irrigable area will require to be cleared.
<u>Remarks</u>	This reserve is well conditioned for cattle raising, including sufficient good land to provide winter feed for many more head of stock than is now kept, owing to lack of irrigation facilities. The irrigation improvements to be considered are a long flume from Willie Phillips Creek to the high ground at west side of reserve shown on plan, along which a ditch running south would irrigate all irrigable land not irrigable from Reserve or Semo Creeks. The large block of irrigable land shown at south end is heavily timbered with Fir and Pine and would, if logged off by the Indians themselves, be profitable to them in wages and additional agricultural land, and would liquidate any capital investment necessary for the improvements to irrigation system, as well as salvaging the valuable matured timber now in yearly danger of destruction by fire.

Remarks (Continued)

The records on Semo and Reserve Creeks can be fully utilized by additional clearing of land at East side of reserve, shown on plan, to be served by these streams. Semo Creek is a small stream about 500 feet north of Reserve Creek, comes out in a gushing stream from the side-hill about 1000 feet east of public road and disappears in ground about the same distance west of road on reserve land. The present ditch from Phillips Creek serving Chief Paul's land has its intake much too low to be of any great benefit. Two ditches from this creek, one on each side of the land, would irrigate all of Chief Paul's land along with the water now obtained from his spring on mountain side, back of his house, shown on plan.

The proposed irrigation works would serve to make really productive land of several acres of dry farming shown on plan and might induce some of the Indians who have expended much labour in dry cultivation on isolated high benches impossible to irrigate, to direct their efforts more profitably on more productive lower land, once it is cleared and facilities provided for irrigation.

The plan shows the south boundary of land which it would be economical to consider for irrigation for the immediate future. The remainder would be used for summer range for many more head of cattle, and with the evident disposition of this band of Indians to make good use of their land there is every reason to expect they would do proportionately better with the improved facilities recommended.

Population	55
Stock	Horses 150 Cattle 140
Plan	No. 2
Photos	Nos. 14, 15 & 16.

Reserve

Kootenay No. 5--LOWER COLUMBIA LAKE (Area 8,359.81 ac.)

Recorded
Rights

I.R.C. Allott, Aug. 9, 1884--"All water flowing through this reservation is assigned to the use of the Indians."

Prov.W.R.No.52,Sept.25,1896--100 ins. from Windermere Cr.
Prov.W.R.No.48,Sept.23,1896--200 ins. from Sophy Cr.
Prov.W.R.No.48,Sept.23,1896--200 ins. from Sam's Cr.
Prov.W.R.No.48,Sept.23,1896--200 ins. from Tatley Cr.
C. L. 5139, June 4, 1920--50 ac.ft. from Little Creek.
Riparian claim May 14, 1920, for 25 ins. from Athan (or Albin) Springs.

Prior Records
of Other UsersWindermere CreekConditional
Licence

<u>Date</u>	<u>Land</u>	<u>Quantity</u>	<u>Conditional Licence</u>
Apr. 9, 1883	Lot 19	160 ac.ft.	533
Sept. 1, 1883	Lot 6	966 ac.ft.	1995
Oct. 31, 1883	Lot 108	640 ac.ft.	1321

(I.R.C. Allotment----Aug. 9, 1884).

May 15th, 1886	Lot 1093	640 ac.ft.	1322
Sept. 12, 1890	Lot 218	264 ac.ft.	1325
Moh. 4, 1895	Lot 2561	520 ac.ft.	11323
Moh. 23, 1896	Lot 775	106 ac.ft.	1324
Jun. 10, 1896	Lot 20 (pt.)	548 ac.ft.	568

(14 subsequent records).

Sophy Creek-----None

Sam's Creek-----None

Tatley Creek-----None

Areas

Irrigated-----402 acres
Additional Irrigable-----1362 acres

Total Irrigable-----1764 acres

Water Supply

Irrigation-----Taken from creeks above mentioned.

Domestic-----Taken from sources above mentioned
for 85 persons, 250 head of cattle and
240 horses.

Works

Flumes and ditches from Windermere Creek; ditch
from Sophy Creek; flume and ditches from Sam's
Creek; ditches from Tatley Creek; flumes and ditches
from Little Creek and ditches from Albin Spring.
(The flume intake on Windermere Creek is in urgent
need of repair). See photos.

Agricultural
Improvements

21 dwellings, 37 outbuildings, fences, cultivation, etc.

Remarks

The cultivation on this reserve generally is very well done, the Indians showing a disposition to farm their holdings with a view to raising cereal crops where possible. Where irrigation is not now available some good pieces of land have been cleared and cultivated and are shown on plan as "Dry Farm." Storage works would seem advisable on nearly all the creeks, and further surveys to investigate these possibilities will be necessary.

Plan

No. 3

Photos

Nos. 2 to 9.

Reserve**Kootenay No. 4--ISIDORE'S RANCH (Area 680 acres).**Recorded Rights

Prov. W. B. No. 11, Feb. 14, 1889--300 ins. to be taken from the Spring or Creek that crosses the old Boundary Commission trail on the west side of the Kootenay River, ten miles south of Galbraith's Ferry. (Cassimayooks Cr.).

Prior Records of Other Users

None.

Area

Irrigated-----None
Total Irrigable-----680 acres.

(200 acres could be irrigated from Cassimayooks Creek without storage---Hick's report Oct. 20/12).

Water Supply

Irrigation-----None
Domestic-----Kootenay River.

Agricultural Improvements

Houses, barns, etc.

Remarks

This reserve shows good results from cultivation without irrigation, though improved cultivation would result from restoring and utilizing old ditch, shown on plan, from Cassimayooks Creek.

Plan

No. 4

Reserve Kootenay No. 5---Casplimayocks (Area 160 ac.)

Area Cultivated 45 acres.

Works Drainage ditch.

Water Supply Domestic-----From Swamp Creek.

Agricultural Improvements House, barn, corral, fences, cultivation etc.

Remarks This reserve is the farm of Indian Alex. Minke and his family. Plan shows that it is mostly in swamp, also the works necessary to drain same. It has valuable pine timber which would well repay the expense of cutting, as well as the small cost of the proposed drainage works, if arrangements were made with a neighbor, Mr. Arnold, to allow drainage water to run into a basin on his land, affording a storage reservoir for his present irrigation ditch. The intake of this ditch is now at this basin (see plan) and obtains its water supply from Minke's springs. Further survey for small dam and ditch would be necessary.

Plan No. 5

Reserve

Kootenay No. 6---BUMMERS' FLAT (Area 190 acres).

Remarks

Used as community hay meadow. Entirely flooded at high water. Benefit would be derived by a little work each year digging or cleaning out drainage ditches to permit flood-water, left in pools after freshet has subsided, to be drained off earlier, thus permitting longer hay growing season.

Plan

No. 6

Photos

Nos. 19 & 20.

Reserve

Lower Kootenay No. 1---CRESTON (Area 1831.5 acres).

Recorded Rights

C.L. 5034, June 26, 1919, 25 ac.ft. from China Cup Ck.

Remarks

The most of this reserve is flooded by Kootenay Lake at high water, and the bench used by Indians and on which the village is built has no irrigation. The climate here is such that there is no great need for irrigation, though in dry seasons it would be a benefit. There are 229 horses, 375 cattle, 23 dwellings and 31 outbuildings. In 1918 the following crops raised:--4 acres of oats, 15 acres potatoes, 2 acres roots, 145 tons of hay cultivated. In addition to sleigh hay cut on flooded area after freshet. The population is 156, rather large for the small area at their disposal apart from the flood flats.

Plan

No. 7.

Photos

Nos. 21 & 22.

Reserve Shuswap, Kinbasket's Band--SHUSWAP (Area 2683.91 ac.).

Recorded Rights

I.R.C. Allott, Aug. 14, 1884--"The water of Shuswap Creek (which flows through this reserve) and 100 inches of water from Aylmer Creek are allotted for use on this reserve."
 Prov. W.R. No. 50, Sept. 23, 1896--100 ins. out of Shuswap Creek.
 Prov. W.R. No. 51, Sept. 23, 1896--100 ins. out of Stoddart Creek.

Records of Other Users
(Prior to 1896).

Shuswap Creek.

<u>Date</u>	<u>Land</u>	<u>Quantity</u>	<u>Conditional Licence.</u>
Sept. 12, 1890	Lot 9561	657 ac.ft.	532
May 6, 1892	Lot 493	458 ac.ft.	-----
Aug. 29, 1893	Lot 9562	320 ac.ft.	2339
Jan. 31, 1896	Lot 5343	500 ac.ft.	2340
Jun. 25, 1896	Lot 2846	-----	-----
Jly. 10, 1896	Lot 9600	258 ac.ft.	2343
Aug. 15, 1896	Lot 4347	374 ac.ft.	2341.

(4 records subsequent to Indian records).

Stoddart Creek.

Jun. 20, 1896	Lot 288	50 ins.	
Apr. 27, 1896	Lot 5353	200 ac.ft.	2338

(3 records subsequent to Indian records).

Areas

Irrigated-----	770 acres.
Additional Irrigable-----	890 acres.
Total Irrigable-----	1660 acres.

Water Supply

Irrigation---Shuswap Creek and Stoddart Creek.
 Domestic---From irrigation ditches for 68 persons,
 345 cattle and 150 horses.

Works

An unnecessary number of intakes and ditches from Shuswap Creek in fair condition. Ditches and flumes from Stoddart Creek.

Agricultural
Improvements

28 dwellings, 26 barns, fences, etc. and cultivation.

Remarks

Soil is light with gravel sub-soil and not considered good land, though would be more productive with better irrigation facilities. The best land is being well cultivated, producing oats, hay and vegetables. A more economical system of ditches and flumes from Shuswap Creek should be installed, there being insufficient water to irrigate all the land now under cultivation throughout irrigation season, resulting in burning up of some of crops towards end of season.

Plan

No. 8

Photo

No. 13

Recorded Rights				Remarks.
Quantity of in Miners Inches	Equivalent ac.ft. 120 days	Stream	Date	
<u>Stream Flow Data</u>				
400	2666	St. Mary's R.	Sept. 23, 1896	Prov. W.R. No. 54 / 568 c.f.s. Oct. 1913
100	666	Cherry Ck.	Sept. 23, 1896	" " No. 53 / 19 c.f.s. Lowest (about
All water		Acam Spring	May 17, 1920	Riparian Claim
All water		Floating thro' Jly. 18, 1884		I.R.C. Allotment.
		reserve		
200	1333	Willie Phillips Ck.	Sept. 23, 1896	Prov. W.R. No. 55 / 1174 c.f.s. Jly. 1912
100	666	Semo Ck.	Sept. 23, 1896	" " No. 49 / Unknown.
200	1333	Reserve Ck.	Sept. 23, 1896	" " No. 49 / 4.8 c.f.s. Sept. 1912
100	666	Phillips Ck.	Oct. 9, 1900	" " No. 70 / 24.62 c.f.s. Mean of four measurements Aug. to Nov. 1912.
6	40	Springs	Oct. 9, 1900	" " No. 69 / 0.2583 c.f.s. Sept. 1912
All water		Thro' res.	Aug. 9, 1884	I.R.C. Allotment.
100	666	Windermere C.	Sept. 23, 1896	Prov. W.R. No. 52 /
200	1333	Sophy Ck.	Sept. 23, 1896	" " No. 48
200	1333	Sam's Ck.	Sept. 23, 1896	" " No. 48
200	1333	Tatley Ck.	Sept. 23, 1896	" " No. 48
100	666	Lytle Ck.	May 14, 1920	Application - G.L. 5189 for 50 ac.ft. issued June 4, 1920.
25	167	Albin Spr.	May 14, 1920	Riparian Claim
300	1999	Cassimayock	Feb. 14, 1889	Prov. W.R. No. 11
---	25	China Cup Ck.	June 26, 1919	G.L. 5034.
The water		Shuswap Ck.	Aug. 14, 1884	I.R.C. Allotment
100	666	Aylmer Ck.	Aug. 14, 1884	" --(Aylmer & Stoddart - same stream).
---	100	666	Shuswap Ck.	Sept. 23, 1896 Prov. W.R. No. 50 / 15 c.f.s. mean of two measurements.
---	100	666	Stoddart Ck.	Sept. 23, 1896 Prov. W.R. No. 51 / 3.6 c.f.s. mean of three measurements.

KOOTENAY AGENCY.

RESERVE	Area	Irrigated Acres	Irriga-ble Acres	Total Irriga-ble	Estimated Water Requirements ac.ft.	Amt.recorded in ac.ft.per acre of Irrigable land in 120 days.	Quantity Miners Inches	Eqn 120
<u>Kootenay</u>								
No.1 St.Mary's	17,425	----	2940	2940	@ 3--5820	0.91	400	
			1630	1630	@ 3--4890	0.41	100	
All water								
No.2 Tobacco Plains	10,557						All water	
							200	
		177.5	757.9	935.4	@ 3--2806	3.56	100	
		53	----	53	@ 3-- 159	13.3	100	
							6	
All water								
No.3 Columbia Lake.	8359.8						All water	
		100	171	271	@ 2½--677	2.46	100	
		45	228	273	@ 2½--682	4.88	200	
		33	327	360	@ 2½--900	3.7	200	
		149	379	528	@ 2½--1300	2.53	200	
		25	257	282	@ 2½--705	2.36	100	
		50	----	50	@ 2½--125	3.34	25	
No.4 Isidore's	680	----	600	600	@ 3--1800	3.33	300	
No.5 Cassimayooks	160		No	Recorded	Rights.			
No.6 Bummers Flat	190		No	Recorded	Rights.			
<u>Lower Kootenay</u>								
No.1 Creston	1831.5	----	9.9	9.9	@ 2½--25	2.5	----	
The water								
Shuswap No.1	2683.9						100	
		514	651	1165	@ 3--3495	0.57----	100	
		256	239	495	@ 3--1485	1.34----	100	
								6