Indian Food Fishery

There are approximately 2,500 Registered Indians living in the Municipalities of Terrace and Hazelton, and the nine Reservations in this Sub-District.

In 1972,121 Indian Permits were issued for domestic fishing, a decrease of 33 from 1971.

For most of the fishing season, May until the end of October, fishing was restricted to 4 days per week. On the Lower Skeena, Ceddrvale downstream to the Khyex River, fishing was permitted from 6:00 P.M. Friday intil 6:00 P.M. Tuesday. On the Upper Section of the river, upstream from Cedarvale, fishing was permitted from 6:00 P.M. Sunday till 6:00 P.M. Thursday.

During the peak of the pink salmon run further restrictions were put into effect to protect this species. During the period , August I th till Sept. Ist, fishing was restricted to I day per week on the portion of the Skeena from Cedarvale down stream to the Khyex River. On the Upper Skeena , upstream from Cedarvale, fishing was restricted to I day per week, during the period August 27th until Sept. IOth.

Effective August 26th fishing was closed for the remanider of the season on the portion of the Skeena from the Hydro Line two miles west of Terrace downstream to the Khyex River.

The purpose of these restrictions was to minimize needless damage to pink and chum stocks. If fishing is permitted during the pikkrun, large numbers of this species are taken incidentally while fishing for scokeye, and discarded. A complete waste of a valuable resource.

At the request of the Councils from the Kalum and Kitselas Bands the length restriction on set nets was raised from IO to I5 fathoms.

In addition to an increase in the length of set nets, they requested that drift net permits be issued to members of the two Terrace Bands. The reason for the request being; during the past few years the number of permits issued for the Terrace Area has increased to such an extent that there are not enough locations suitable for set nets to accommodate all the permit holders. This is due mainly to an influx of Indians from outside the Skeena Area. A few drift net permits were issued for the Kitwanga Area.

With the exception of a small fishery carried on by the Kitwancool Indians on the Kitwanga River and Kitwancool Creek, Indian Permit fishing was restricted to the Main Stem Skeena. Most of the fish taken by the Kitwancool Band was taken from the Skeena River.

The following is resume of the catch figures for the Indian Food Fishery in the Terrace-Lakelse, Sub-District for the 5 year period I968 till I972.

Year	Sockeye	<u>Cohoe</u>	<u>Pinks</u>	Chums	<u>Springs</u>	<u>Steelhead</u>
1963	10,353	2,492	1,212	190	1,124	717
1969	I3,74I	I,307	I,203	23	845	680
1970	25,100	I,700	21,000	300	2,425	700
I97I	42,550	4,450	11,800	800	2,260	850
1972	19,175	I,050	4,900	400	900	725

The large decrease in the I972 sockeye and spring catch is due to the Unfavorable water conditions that prevailed on the Skeena River during July and early August. During this period water levels were well above normal. High water combinned with the resultant floating debris, made fishing difficult, and at times impossible.

Sport Fishing

Seines

During the 1972 season approximately 200 adult springs, and 300 jack springs were taken by anglers from the Main Stem Skeena and it's tributaries, between Eximitsa and Hispiox. A decrease of approximately 50% from the normal catch for the Terrace-Lakelse, Sub-District.

This decrease was due to extremely unfavorable/high, turbid/ water conditions that prevailed on the Skeena, and most of it's tributaries during June, July and carly August.

It also appears that fishing effort, particularily by non-residents was down from previous years. Many of the tourists that would normally spend a week or ten days fishing on the Skeena, left soon after arrival, when it became apparent that water conditions were not conducive to productive fishing.

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Approximately 2,000 cohoo were taken by englers from the Main Stem Mecha, and it's tributeries between Kwinitsa and Misjiox.

The catch of this species was higher than normal. This was due nainly to heavy fishing effort combined with favorable water conditions during late September and October.

An estimated 900 cohoe were taken from the Lakelse River during the period September 20th till Rovember 15th. Other productive streams were the Gitmadoin and the Symoetz (Copper) River.

Catches were below normal on the Kasiks and Kispiox River. Normally both these streams are good cohoe producers.

Steelhead

Fremell angling success on this species during 1972 was average. Good catches were realized on the Kalum, Lakelse Kyrnotz, Lituanga and Main Stem Skeena

The following is a summary of catches of this species for the main steelhood producing streams in this area. This information was obtained from the local Provincial Fish & Wildlife Biologist . These figures were arrived at by a computer using information from steelhead punch cards as a basis.

Lekelse-- 342 Kieptox --- 756 Fitzenga --- 74 Kalum--- 38I Zymoetz (Copper) -- I352 Nain Sten Skeena ---- 600 Total---343I

Spauming Surrey

Sociaeye

The total estimated escapement of this species to the tributaries of the Lower Species approximately 15,16,000 was down 50% from the main broad year return of 30,000.

For the past five years there has been a steady decline in the return of this species to the sockers producing tributaries of the lower Skeena/Citmadoix, Fahra, Lakelse and Zymoetz River.

The total estimated escapement of this species to the tributaries of the Shome, Frintsa to Kispiox, was 55-60,000. An increase of 25% from the brood year return of 40-45,000 fish.

The cohoe escapement to the Lakelse and Rasiks River, two of the main professors in this area was down from 1969.

The increase in the total can be attributed to better than average returns to such streams as the Kalum, Gitmadoix, Exstew and Exchamsiks.

Pinks

The I972 pink return to the Lower Main Stem Skeens and it's tributarion was estimated at 2,092,000. Approximately triple the I970 escapement of 7(0,000.

The following is a comparison of the brood year stock and the 1972 coor ement to the major pink producing streams in this area.

	1970	1972	1970 1972	
Lekelse Rivor	500,000	_,	Scotia River 8,000 20,000	
Kituenja River 2	216,000	I75,000	Main Sten Macena 20,000 1,000,00	0
Kispiox River	5,000	15,000		

The escapement to the Main Stem Skeena was the largest for many years. Unfortunately these fish entered the river and spawned at a time when the water level on the Skeena cropped 5 to 6 feet exposing large areas of spauning beds. As a result at least 50% pof the spawn was lost.

The heaviest concentration of spauming was on the 22 mile long section between Selma Island and the Imstew River. Smaller concentrations occurred at Chames and Remo.

The return to most minor pink producing tributaries was well above average and the trood year stock.

The everage size of the 1972 spawners was well below normal...

Springs

The total estimated escapement of springs to the tributaries of the Lower Skeems was 6-7.000.

The return to the Lower Kelum System was approximately 3,000. The number of spanners returning to this stream, the major producer in the Terrace Area, has declined steadily for the past ten years.

The escapement to the minor spring producing streams on the Lower Skeena / Giradoin, Kasika, Exchansika, Exsew, Lakelse, Eyroetz River/ was average, and comparable to the main cycle year return.

Cimas

The chum escapement, an estimated 9-IO,000, was well above average, and the main cycle year return. A normal return of this species to the tributaries of the Lover Skeens soldom exceeds 3,000.

A better than average return to Andeside Slough, Citnadoin and Kispion River accounted for most of this increase.

The large number of spauning chums taken in the Indian Food Fishery at the Raco Dar indicated heavier than normal spauning in that area.

Steelhead

The catch per unit all'effort in both the Indian Food Fishery and the Sport Fishery indicated a better than average return of this species to the Skeena System.

Genorel.

Generally favorable water levels and weather conditions prevailed from the start of securing late in August until March 1973.

The one notesable exception was the rapid drop in the water level on the Main Stem Ekecra immediately after an exceptionally heavy pink spawning in late September. This fluctuation obviously had a considerable adverse affect on pink spam survival on this particular stream.

During the late entumn call winter nonths water levels on the Skeens and it's wribsteries, while higher then normal, were stable.

Stable water levels combined with higher than normal temperatures, and en alequate show cover should be reflected by a good fry crop in the spring of 1973.

Jernery	Snowfell 24.5	<u> </u>	14 m 37	Concretures Low -9	Mean I/1.9
February	92.4	9.07	33	I	23.3
Herch	27.4	5.07	49	9	33 . I
L.ril	19.8	5.0	52	23	36.4
Ney		1.0	73	30	49.8
ರ ಭಾತಿ		2,29	60	39	53 •5
July		I.05	90	3 3	61.5
lu lut		2.04	3 3	44	61.1
fejwant er k	.I	2.46	83	30	53 . 7
Cowler	5.52	5.64	5 3	25	41.9
Novemb er	€.€	8.60	49	27	37.I
Docenber	47.3	5.56	33	3	22.3

ir divers

No fry salvage carried out in this Sub-District during 1972.

Herring

Not applicable to this Sub-District.

Environment, wiltiple Water Use

The following is a resume of the various industries and human activities in this Dit-District outlining their relationship to water resources and pollution.

Lossing end Lumbering

Follution attributable to this industry is not a serious problem in this Sub-District.

In 1972 25 logging inspections were carried out. In 2 cases a small amount of logging debris had been placed in a stream. In each case a verbal warning was sufficient to effect a clean up. In 1972, the first time for several years, it was not necessary to carry out any prosecutions for pollution of waters frequented by fish.

Arriculture and Renching

Farming emi renching in the Skeena Valley is limited by the small amount of arable land suitable for these purposes.

These activities are confined to the Kalum and Rispiox Valleys, and the Skeena Valley between Terrace and Masselton.

Farming is confined mainly to raising forcer crops for cattle, and does not require irrigation.

Obstructions and Stream Diversions

Beavers dans are a reoccuring problem in this Sub-District. Mainly on the tributaries of the Kispiox Miver. Occasionally on the tributaries of the Gitnedoix, Kelum and Lekelse River.

Color, and to a smaller extent sockeye are the species affected by beaver dams.

The following is a resume of obstruction clearence carried out in this Sub-District during the year.

Here of Street

Obstruction Removed

Skursmat Creck

3 beever dams

2 man days

Moqueen Greek

4 beaver dems

3 man days

This work was carried out by local Fisheries personnel, and a licenced blaster, ir. W. Southgate a stream Clearance Technician:

Water Licence, Flacar Inging Applications

During 1972 a total of 10 Water Licence applications, and 2 Placer Minning applications were processed in this Sub-District. All water licence applications were for desertic purposes.

In estimated 3 man days were spent checking out these applications.

Logaine Comtions

The logging industry and related service industries are the dominate economic fector in this Sul-Mistrict.

In 1972 approximately 1975 persons were employed in the logging and lumbering industry in the Skeens River Valley.

The production of lumber, pulp logs and cedar poles totaled 65,000,000 cubic feet.

Approximately 7,700 acres were logged off on the Skeena River Watershed.

Inforcement

During IS72 a total of 5 prosecutions were carried out for violations of the Fisheries Act, and the British Columbia Fishery Regulations.

The following is a breakdown of the various types of offences;

•		••	•	
Sport Fishing	د چې	10 10 4-10 4-10 4-10 10 10 10 10 10 10 10 10 10 10 10 10 1	يدا وي هدي يودي ود در اي ود	I
Violations of Section 32 of Indian Fo≎d Fishery	the B.C. Regs	vider ein die des die gestelle des des versche von de	الله كالمتابعة في المتابعة الم	I
Illegal net fishing in Non-	tidel Waters	er et er en	المارية	2
Ostructing a Fishery Office)r		gas en der sin der trei till den den en der samper:	I

In addition 2 gill nots that were being used illegally were siezed from A Ferson or Persons Unknown.

A total of 0550.00 in fines was levied by the court for the offences listed above.

Little difficulty was encountered enforcing the various requisions pertaining to the Indian Food Fishery/closed times, amount of gear etc./only one prosecution for this type of offence was necessary during the past year.

The number of fish/spring and sockeye salmon/ taken legally in the Indian Food Fishery, and illegally by poschere in 1972 was down considerally from previous years.

This was due to the entremely adverse water conditions that prevailed on the Skeena Miver during July and August.

Consequently the matter of fish entoring the illicit merket was down considerably from previous years. Deever it was apparent that salmon taken in Non-tidal waters were being sold locally, and that an appreciable amount was being transported out of the area and being sold to the canneries at Prince Expert, or in the Smithers and Furns Lake Area.

It was also apparent that the people involved in the illicit fish trade were employing highly developed techniques for transporting and disposing of fish.

Figuipment such as ununfied cars and porta-mobile radios were rented and used in an attempt to appreciate persons involved in illicit fish trafficing. It soon became apparent that the personnel available /short term guardians/ did not have the expertize neces any to be of much assistance in this legally complicated type of enforcement, unless accompanied by a Fishery Officer.

Carefully selected landiens, hired locally, can be and are of considerable assistance in enforcing sport fishing and Indian food fishery regulations. However, their value in appropriating illicit fish trafficers, is limited. It is apparent that highly trained lishery officers are necessary for this type of work.

Fredators

Sea Lions-Not appliende to this Sub-District.

Seels - Rair scale cutor the Skeens Piver Estuary in May and June to have their pups. While on occasion strays go as far inland as Babine Lake, large concentrations are seldom seen upstran from the Khyex River.

While it is impossible to accurately estimate the estent of predation on Skeena River salmon by seals, it is no doubt considerable.

Fcors (Grizzly, Tlack)-The is no evidence that either of these species are a problem in this area

Graviish - Not englicable to this Sul-District.

Killer Males - Lot applicable to this Sub-District.

Others (Mer. ansors)-The ere a few mergansors in this area, but not enough to be considered a problem.

Administration

Steff

Fishery Officers - Morris E. Mogart-Permanent duty in the Terrace-Lakelse, Sub-District.

Fatrolmen -The following patrolmen were employed in this Sub-District during 1972.

Fen Folton- June 19th till July Ist-Stationel at Terrace.

Delcourt Forent - June 19th till October 21st-Stationed at Hazelton.

Thris J. Logier - July 4th till Howester 4th-Stationel at Torrace.

Fourment

Departmental Venicle -A 1970 model-DIIOO-4 wheel drive International Travelall is charge to this station. It has 36,000 miles on it. While this vehicle has been generally satisfactory, it has required extensive repairs during the past few months, and is becoming very supensive to operate. It should be replaced in 1974.

River Boat - An IS foot Valco river boat was obtained in May 1972. It proved to be very satisfactory both on the Main Stem Skeena , and shallow tributary Streams.

Olithoard Motors - There are 6 outboard motors on charge to this Sub-District.

I-3H.P. Johnson -----I-9.6 Johnson -----I-9.8 Mercury

I-65 H.P. Mercury ---- I-50 H.P. Mercury.

Morris E. Bogart Fishery Officer