# CANADA <br> DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS 

 FISHERIES STATISTICS BRANCH

ADVANCE FEPORT<br>ON THE

## FHSHERIES

OF

## BRUTISM COLUMBIA

1931

Pubrtshed hy Mathority of the Hon。H. H. Stevens, M.P., Minister of Trade and Commerce

DOMIMION BUREAU OF STATISTICS, OTTAWA, CANADA Fisheries Statistics Branch

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## ADVANCE REPORT ON THE FISHERIES OF BRITISH COIUMBIA, 1931.

The following report on the fisheries of British Columbia, for the 7eser 1981, is issued by the Dominion Bureau of Statistics in copperetion with the Department of Fisheries.

## PRODUCTION

The total valus or output of the British Columbia fisheries in 1931 was $411,109,822$, compared with $\$ 23,103,302$ in the preceding year. These totals represent the value of the fish as marketed, whether sold for consumption fresh, or canned, cured or otherwise prepared. The size of the annual revenue from the British Columbia fisheries is dependent chiefly on the size of the salmon pack, and this dropped from the high record of $2,221,783$ cases, valued at $\$ 13,903,386$ in 1930 to 685,104 cases, valued at $\$ 5,207,698$ in 1931. The total marketed value of the salmon, Including used fresh, canned, dry salted, etc. in 1931, was \$7,196,174, compared with $\$ 16,610,834$ in 1930. The halibut catch, which is second in importance in British Columbia to the salmon, was also less, amounting to 182,005 cwt., compared with $254,796 \mathrm{cwt}$. In 1930. The catch of pilchards was only slightiy less than in 1930, but the marketed value of the provuct (ahfefiy ofl and meal) decrease from $\$ 1,589,609$ to $\$ 80 \%, 842$.

The reteh ot xisi of all kinds in British Columbia in 1931 Qmouated to $4,649,762 \mathrm{cwt}$, with a value to the fishermen of $\$ 5,880,985$, sompared with a eatch of $5,527,004$ cwt and a value of $\$ 12,873,331$ in 1930

## CAPITAL EQUIPMENT AND EMPLOYEES

Capital- The value of the vessels, boats, nets, piers and wharves, etc. engaged in the primary operations of catching and landing the fish in 1931 was $\$ 7,777,932$, and the value of the capital invested in the fish canning and curing establishments, \$12,472,495, a total capital investment for the fisheries of British Columbia of $\$ 20,250,427$. Compared with the preceding year, the value of the vessels, boats and Bear shows a decrease of $\$ 5,540,556$ y or $41 \frac{1}{2}$ per cent, and the capital investment of the establishments a decrease of $\$ 11,870,594$, or 49 per cent. The decrease in the capital investment of the establishments is chiefly in connection with the salmon canneries, the number of these in operation in 7931 being only 35 in comparison with 60 in 1930.

Employees. The number of men employed in connection with the catching and landing of the fish in 1931 was 9,495 , and the number of persons employed in the establishments, 3,772, a total of 13,267.

## TABLES

The following tables show (1) total value of the product of the fisheries for the years 1922 to 1931; (2) quantity and value of each kind of fish as caught and landed and marketed; (3) quantity of the caroh and marketed value of the chief commercial fishes; (4) capital equipment; and (5) employees.

1. Value of the Fisheries of British Columbia, 1922-1931.

| Year | Value | Year | Value |
| :---: | :---: | :---: | :---: |
| 1922 | $18,849,658$ | 1927 | $\$$ |
| 1923 | $20,795,914$ | 1928 | $22,890,913$ |
| 1924 | $21,257,567$ | 1929 | $26,562,727$ |
| 1925 | $22,414,618$ | 1930 | $23,930,698$ |
| 1926 | $27,367,109$ | 1931 | $23,103,302$ |

2. Quantity and Value of Fish Caught and Landed and Marketed, British Columbia, 1930 and 1931.

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3. Quantity and Value of Fish Caught end Landed and Marketeds British Columbia, 1930 and 1931 con。

| Kind |  | Quantity | $\begin{aligned} & 30 \\ & \text { Value } \end{aligned}$ | Quantity | $3 \underset{\text { Value }}{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\$$ |  | \% |
| Shad, caught | Cwt. | 35 | 350 | 33 | 1.88 |
| Marketed fresh | Cwt. | 35 | 617 | 33 | 198 |
| Smelts, caught | Cwt. | 1,455 | 17,975 | 1,571 | 14,785 |
| Marketed fresh | Cwt. | 1,455 | 18,416 | 1,5\%1 | 14.908 |
| Sturgeon, caught | Cwt. | 277 | 5,197 | 252 | 3,054 |
| Marketed - |  |  |  |  |  |
| Used fresh | Cwt. | 277 | 5,778 | 252 | 3,659 |
| Caviar | Lb。 |  |  | 100 | 115 |
| Total Value marketed |  |  | 5,770 |  |  |
| Trout, caught | Cwt. | 51 | 764 |  |  |
| Marketed fresh | Cwt. | 51 | 764 |  |  |
| Black cod, caught | Cwt. | 16,517 | 90,239 | 5,845 | 22,389 |
| Marketed - |  |  |  |  |  |
| Used fresh | Cwt. | 13,414 | 86,705 | 1,111 | 7,177 |
| Green salted | Cwt. | 51 | 943 | 310 | 4,653 |
| Smoked | Cwt. | 1,584 | 29,979 | 2,173 | 27,693 |
| Dried | Cwt. | 156 | 2,956 |  |  |
| Total Value marketed |  | - | 120,583 |  | 39,521 |
| Ling cod, caught | Cwt. | 48,591 | 302,017 | 50,987 | 213.012 |
| Marketed Used fresh | Cwt. | 48,591 | 33'3,564 | 49,746 | 229,492 |
| Smoked | Cwt |  |  | 454 | 6,622 |
| Smoked fıllets | Cwt. |  |  | 111 | 2,900 |
| Total Value marketed |  |  | 333,564 |  | 239,014 |
| Red cod, caught | Cwt. | 4,248 | 21,455 | 2,735 | 9,146 |
| Marketed fresh | Cwt. | 4,248 | 24,577 | 2,735 | 10,987 |
| Grayfish, caught | Cwt. | 98,680 | 30,372 | 112,348 | 22,999 |
| Marketed - |  |  |  |  |  |
| $011$ | Ga1. | 114,558 | 22,229 | 170,271 |  |
| Meal | Ton | $899$ | 45,165 | 1,010 | 34,869 |
| Total value marketed |  |  | 67,394 |  | 54,231 |
| Octopus, eaught | Cwt. | 355 | $2,555$ | $233$ | $1,106$ |
| Marketed fresh | Cwt. | 355 | 2,569 | 233 | 1,156 |
| Oulachon, caught | Cwt | 899 | 2,762 | 198 | 477 |
| Marketed fresh | Cwt. | 899 | 4,214 | 198 | 477 |

2. Quantity and Value of Fish Gaught and Landed and Narketed, British Columbia, 1.930 and 1931 - concluded

| Kind |  | Quantity | Value | Quantity | $\begin{aligned} & 1 \\ & \text { Value } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | \$ |  | \$ |
| Tom COS , obuaht | Cots. | 30 | 90 | $\cdots$ |  |
| Warketed fresh | Cwt. | 80 | 80 |  | - |
| Clams und Quahaugs, caught | Bbl. | 23,987 | $65,27$. | 14,403 | 29,052 |
| Ifsed fresh | Bbl. | 2,886 | 14,586 | 608 | 3,016 |
| Canneत | Cases | 21,101 | 141, 271 | 15,288 | 108,674 |
| Total Talue mowketed |  | - | 155,857 | - | 111,690 |
| Crabes, mayth | Cwt. | 4,852 | 27,475 | 5,376 | 25,201 |
| Narketea |  |  |  |  |  |
| Used fresh | Cwto | 4,459 | 26,036 | 4,968 | 26,221 |
| Canner | Cases | 295 | 3,141 | 204 | 1,693 |
| Total Value marketed |  | - | 29,177 | - | 27,914 |
| Abulone, caught | Bbl 。 | 466 | 1,864 | 435 | 1,740 |
| Harketed |  |  |  |  |  |
| Used fresh | Bbl. | - | . 500 | 14 | 56 |
| Canned | Cases | 350 | 3,500 | 421 | 4,210 |
| Total Value marketed |  | - | 3,500 | - | 4,266 |
| Oysters, caught | Bbl. | 3,197 | 56,825 | 3,555 | 61, 247 |
| Marketed fresh | Bbl. | 3,197 | 58,146 | 3,555 | 61,247 |
| Simimps, caught | Cwt. | 1,578 | 18,458 | 1,188 | 14,288 |
| Warketed fresh | Cwt. | 1,578 | 20,426 | 1,188 | 15,773 |
| Whales, caught | No. | 320 | 227,993 | - |  |
| Marketed - |  |  |  |  |  |
| Whilebone meal | Ton | 273 | 6,775 | - | - |
| While fertilizer | Ton | 581 | 29,050 | - |  |
| Whale oil | Gal. | 525,533 | 192, 168 | - | - |
| Total Value marketed |  | - | 22.7, 993 | - | - |
| Hus seals, daught | No. | 2,291 | 13,746 | 1,463 | 6,720 |
| Marketeci - skjus | No. | 2,291 | 13,746 | 1,463 | 7,004 |
| Pinix seals, caught | No. | 9 | 23 |  | - |
| Marketed - skins | No. | 9 | 23 |  |  |
| Miscellaneous . ${ }^{\text {a }}$ |  |  |  |  |  |
| Fish oil., ne, s. | Gal. | 68,078 | 21,998 | 71,411 | 8,417 |
| Fish meal, n eos. | Ton | 362 | 16,107 | 447 | 13,256 |
| Bish fertiljultr | Ton | 300 | 11,250 | 290 | 10,272 |
| Other products | - | - | 6,000 | -. | 7,181 |
|  |  |  |  |  |  |
| Caught, and landed | $\leqslant$ | - | ,873,331 | - | ,880,985 |
| 1 arketed | 8 | - | , 103, 30\% | - | . 109.822 |

3．Quantity and Value of Chief Comercial Fishes，British CoJumbia， 1．928－2931

| Kind of Fish |  | 1928 | 1929 | 1950 | 1931 | Increase or तecrease 1901 compared with 1950 <br> Increase f Decrease－ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Salmon | Cwt． $\$$ | $\begin{array}{r} 2,257,455 \\ 17,345,670 \end{array}$ | $\begin{array}{r} 1,514,038 \\ 14,265,795 \end{array}$ | $\begin{array}{r} 2,296,213 \\ 16,610,834 \end{array}$ | $\begin{aligned} & 1,287,041 \\ & 7,196,174 \end{aligned}$ | $\begin{array}{r} -1,009,172 \\ -9,414,660 \end{array}$ |
| Halibut， | Cwt． \＄ | $\begin{array}{r} 302,820 \\ 3,370,670 \end{array}$ | $\begin{array}{r} 303,921 \\ 4,317,235 \end{array}$ | $\begin{array}{r} 254,796 \\ 2,446,775 \end{array}$ | $\begin{array}{r} 182,005 \\ 1,373,679 \end{array}$ | $\begin{array}{r} 72,783 \\ 1,073,096 \end{array}$ |
| Herring | Cwt。 \＄ | $\begin{aligned} & 1,535,118 \\ & 1,808,944 \end{aligned}$ | $\begin{aligned} & \text { J. } 315,667 \\ & 1,486,655 \end{aligned}$ | $\begin{aligned} & 1,221,962 \\ & 1,222,303 \end{aligned}$ | $\begin{aligned} & 1,481,080 \\ & 1_{y} 058,139 \end{aligned}$ | $\begin{array}{r} 258,118 \\ +\quad 164,164 \end{array}$ |
| Pilchards | Cwt． \＄ | $\begin{aligned} & 1,610,252 \\ & 2,563,137 \end{aligned}$ | $\begin{aligned} & 1,726,85] \\ & 2,199,834 \end{aligned}$ | $\begin{aligned} & 1,501,404 \\ & 1,589,609 \end{aligned}$ | $\begin{array}{r} 1,472,085 \\ 807,842 \end{array}$ | $\begin{array}{r} 29,319 \\ 781,767 \end{array}$ |
| Ling Cod | Cwt。 \＄ | $\begin{array}{r} 50,772 \\ 366,101 \end{array}$ | $\begin{array}{r} 48,489 \\ 415, ? 76 \end{array}$ | $\begin{array}{r} 48,591 \\ 333,564 \end{array}$ | $\begin{array}{r} 50,987 \\ 239,014 \end{array}$ | $\begin{array}{r} 2,526 \\ +\quad 94,550 \end{array}$ |
| Clams and Cuabaugs | $\begin{gathered} \mathrm{Bbl} \text { 。 } \\ \$ \end{gathered}$ | $\begin{array}{r} 16,834 \\ 1.30,015 \end{array}$ | $\begin{array}{r} 18,257 \\ 120,1.43 \end{array}$ | $\begin{array}{r} 23,987 \\ 155,85 ? \end{array}$ | $\begin{array}{r} 14,403 \\ 111,690 \end{array}$ | $\begin{array}{r} 9,584 \\ 44,16 ? \end{array}$ |

4．Capital Equipment，British Columbia， 1930 and 1931．
1930
1931
In Primary Operation
Stean trawlers
Steam vessels and tugs

Sailing and gesoline vessels
Sail and row boats
Gasoline boats
Carrying smacks and scows
Gill nets
Salmon drift nets
Trap nets
Smel t，nets
Salnon purse seines
Salmon drag seines
Seines，other
Skates of gear
Ot ter trawls
Inshore drags
Hard lines
Crab traps
Oyster plant and equipment．
Other gear

No．Vajue
1
Novyul

$$
4,844
$$

$$
379
$$

97

$$
5,611
$$

6
75
395
19
170 2，461

54，636
5211.325

13， 3.89
4，770
60,000
150，000
5，703，850
209， 335
4，003，775
461，890
9，260
1，283，115
95，000

$$
2,160
$$

767，375
10,875
273， 750
4，300

$$
96,254
$$

$$
\begin{array}{ll}
0 & 16,830 \\
1 & 23,208
\end{array}
$$

$$
1 \quad 23,208
$$

228

$$
2,083,500
$$

$$
1,942
$$

$$
116,124
$$

$$
4,931
$$

$$
279
$$

$$
\begin{array}{r}
3,407,438 \\
321,845
\end{array}
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$$
321,845
$$

$$
38
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$$
5,330
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$$
4,559
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$$
851,370
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6
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62
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95,000
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1,600
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242
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481,200
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29
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17,3100
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50
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112,700
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2,1.60
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45,25 ?
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2，1．60 45，257

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4
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$$
1.200
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$$
\begin{array}{rr}
41 & 5,225 \\
12,127 & 90,065 \\
5,980 & 21,320
\end{array}
$$

$$
\begin{array}{r}
5,980 \\
1
\end{array}
$$

$$
1 \quad 21,203
$$

$$
14,840
$$

4. Capital Equipment, British Columbia, 1930 and 1931 - concluded

| In Primary Operations - concluded | No. 1930 |  | $1931$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | \$ |  | \$ |
| Kishing piers and wharves | 31 | 42,600 | 19 | 28,000 |
| Ice houses | 6 | 4,200 | 1 | 3,000 |
| Sma23 fish and smoke houses | 23 | 36,750 | 41 | 54,400 |
| Total Value | - | 13,318,488 | - | 7,777,932 |
| In Fish Canning and Curing | $\text { No. }{ }^{1}$ | $30 \text { Value }$ | No. | $31_{\text {Value }}$ |
|  |  | \$ |  | \$ |
| Salmon canneries | 60 | 17,920,474 |  | 8,128,416 |
| Clam canteries | 2) |  | 2) | 8,128, |
| ther fish cannery | 1) | 11.5,358 | -) | 3,318,133 |
| I-sh curing establishments | 46 | 4,112,817 | 47) |  |
| Preduation plentis | 19 | 2,194,440 | 12 | 1,025,954 |
| Total | 128 | 24,343,089 | 96 | 12,472,503 |

5. Employees, British Columbia, 1930 and 1931

| Employees | 1930 | 1931 |
| :--- | :--- | :--- |
| Persons employed in fish canning and curing | 12,000 | 9,495 |

The number of employees should not be compared with previous years, as a change has been made in the system of computing the average number of empoyees in fish canning and curing establishments. Previous to 1931 a total was made of the number of persons employed in an establishment in the various months and this total was divided by the number of months in operation: for the year 1931 the tatal in each case was divided by 12 , and the figures now show the man year instead of the man season as formerly. For sx:mple: a salmon cannery employs 120 men in June, 140 in July and 140 in August, and none in the other months of the year, or a total of 400. Previous to 1931, this total would be divided by the number of months in operation, vizo, three, and the result would be 133 employees. Under the present plan the total of 400 would be divided by 12 , giving 33 employees instead of 133 as under the former plan.
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