State of the Fishery (2020) preliminary statistics

Agenda Item 5
IPHC-2020-IM096-05 Rev_1
Overview

- Preliminary estimates
- Net weight
- Full year projection

2020 TOTAL MORTALITY
16,104 t
35.50 M lb
Total Pacific Halibut Mortality

- Directed commercial: 64%
- Recreational: 17%
- Subsistence: 3%
- Non-directed commercial: 14%
- FISS and other research: 3%
## Total Pacific Halibut Removals

<table>
<thead>
<tr>
<th>Category</th>
<th>2019</th>
<th></th>
<th>2020</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>tonnes</td>
<td>pounds</td>
<td>%</td>
<td>tonnes</td>
</tr>
<tr>
<td>Directed commercial (landings and discard mortality)</td>
<td>11,036</td>
<td>24,330,382</td>
<td>61*</td>
<td>10,235</td>
</tr>
<tr>
<td>Recreational</td>
<td>3,194</td>
<td>7,041,194</td>
<td>18*</td>
<td>2,702</td>
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<tr>
<td>Subsistence</td>
<td>481</td>
<td>1,060,241</td>
<td>3</td>
<td>479</td>
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<tr>
<td>Non-directed commercial discard mortality</td>
<td>2,976</td>
<td>6,562,000</td>
<td>16*</td>
<td>2,281</td>
</tr>
<tr>
<td>IPHC FISS and research</td>
<td>407</td>
<td>897,417</td>
<td>2</td>
<td>407</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18,094</strong></td>
<td><strong>39,891,234</strong></td>
<td><strong>100</strong></td>
<td><strong>16,104</strong></td>
</tr>
</tbody>
</table>

*Percentage of total (bottom row) for the given year – indicating shift of relative removals among the directed commercial, recreational and the non-directed commercial discard mortality fishery from 2019 to 2020.
## 2020 Total Pacific Halibut Mortality

<table>
<thead>
<tr>
<th>Contracting Party</th>
<th>Mortality limits (net weight)</th>
<th>Mortality (net weight)</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tonnes (t)</td>
<td>Pounds (lb)</td>
<td>Tonnes (t)</td>
</tr>
<tr>
<td><strong>Canada - IPHC Regulatory Area 2B</strong></td>
<td>3,089</td>
<td>6,830,000</td>
<td>2,994</td>
</tr>
<tr>
<td><strong>United States of America</strong></td>
<td>13,508</td>
<td>29,780,000</td>
<td>12,654</td>
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<tr>
<td>IPHC Regulatory Area 2A</td>
<td>748</td>
<td>1,650,000</td>
<td>640</td>
</tr>
<tr>
<td>IPHC Regulatory Area 2C</td>
<td>2,654</td>
<td>5,850,000</td>
<td>2,542</td>
</tr>
<tr>
<td>IPHC Regulatory Area 3A</td>
<td>5,534</td>
<td>12,200,000</td>
<td>5,333</td>
</tr>
<tr>
<td>IPHC Regulatory Area 3B</td>
<td>1,415</td>
<td>3,120,000</td>
<td>1,297</td>
</tr>
<tr>
<td>IPHC Regulatory Area 4A</td>
<td>794</td>
<td>1,750,000</td>
<td>696</td>
</tr>
<tr>
<td>IPHC Regulatory Area 4B</td>
<td>594</td>
<td>1,310,000</td>
<td>474</td>
</tr>
<tr>
<td>IPHC Regulatory Area 4CDE and Closed Area</td>
<td>1,769</td>
<td>3,900,000</td>
<td>1,671</td>
</tr>
<tr>
<td><strong>Subtotal (TCEY)</strong></td>
<td>16,601</td>
<td>36,600,000</td>
<td>15,648</td>
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<tr>
<td>Non-directed commercial discard mortality (U26)</td>
<td>none</td>
<td>none</td>
<td>456</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>none</td>
<td>none</td>
<td>16,104</td>
</tr>
</tbody>
</table>
2020 Directed Commercial – Canada (BC)

14 March to 7 December

Quota Share Fishery

2,322 tonnes landed (5,120,000 pounds)

Projected at the fishery limit

2019: 2,276 tonnes landed, 2% under fishery limit
2020 Directed Commercial – USA (WA, OR, CA)

Treaty Indian directed commercial
- Fishery limit = 224 tonnes (0.49 Mlb)
- Openers by tribe
  - *Unrestricted fishery* (14 Mar to 30 Aug)
    - 55 hours
  - *Restricted fisheries* (14 Mar to 30 Sept)
    - 102 hours
    - 0.2 t (500 lb) per day & 5 landing max
  - *Mop-up fishery* (1 Oct to 18 Oct)
    - 0.36 t (800 lb) per calendar day per vessel
- <1% below fishery limit (222 tonnes, 0.49 Mlb)

Directed commercial
- Fishery limit = 115 tonnes (0.25 Mlb)
- Five 58-hr fishing periods (22-24 Jun, 6-8 Jul, 20-22 Jul, 3-5 Aug, 17-19 Aug)
- 5% under fishery limit (110 tonnes, 0.24 Mlb)
Incidental commercial landings with salmon troll fishery

- Fishery limit = 20 tonnes (0.04 Mlb)
- Open 15 Apr to 30 Sep (WA), 15 Apr to 31 Oct (OR) and 1 Aug to 30 Sep (CA)
- No in-season action
  - 1:2 plus 1, max 35
- 35% under fishery limit (13 tonnes, 0.03 Mlb)

Incidental commercial landings with sablefish fishery

- Fishery limit = 32 tonnes (0.07 Mlb)
- Open 1 Apr – 31 Oct
- One in-season action
  - 200:1000 plus 2 ▶ 250:1000 plus 2 (19 Oct)
- 12% under fishery limit (28 tonnes, 0.06 Mlb)
14 March to 15 November

**Quota Share Fishery**

Fishery Limit = 7,761 tonnes (17.1 Mlb)
- 93% landed (7,192 tonnes, 15.9 Mlb)

2019: 93% of fishery limit (7,945 tonnes; 17.5 Mlb)

**Annette Island Reserve Fishery**

- no fishery limit
- 11 tonnes (0.02 Mlb) landed
- 8 two-day openings between 12 June and 20 September
Coastwide Year to date

https://www.iphc.int/data/landings-2020
https://www.iphc.int/data/year-to-date-directed-commercial-landing-patterns-ak-and-bc
Percentage of Directed Commercial Pacific halibut fishery limit landed by week of year

Canada

Directed Commercial Pacific halibut landing patterns by year with previous 3-year average (AK and BC)
2020 Recreational – Canada (BC)

Allocation = 399 tonnes (0.88 Mlb)
estimated: 46% under or 217 tonnes (0.5 Mlb)

Tidal licence fishery (1 Mar):
- Max length of 126 cm
- Daily and possession limit of 1 Pacific halibut 90-126 cm
  OR 2 Pacific halibut if both under 90 cm
- Annual limit 6 per license holder
- In-season action (14 Aug)
  • Matching daily limit to possession limit

Experimental Recreational Quota (XRQ)
- leased from the Commercial Quota Fishery
- Not opened in 2020 (due to COVID-19)
2020 Recreational – USA (WA, OR, CA)

Allocation = 275 tonnes (0.6 Mlb)
189 tonnes (0.4 Mlb, 69%)

California
29 tonnes (0.06 Mlb) – 164%

Oregon
75 tonnes (0.17 Mlb) – 57%

Washington
81.0 t (0.18 Mlb) – 64%
2020 Recreational – USA (AK)

- All areas open 1 Feb - 31 Dec – projected values

- IPHC Regulatory Area 2C - charter sector (guided)
  - Allocation = 354 tonnes t (0.78 Mlb)
  - **36% under** fishery limit – 227 tonnes (0.50 Mlb)
  - Daily bag limit of 1 fish
  - Reverse slot limit
    - Fork length \( \leq 45 \text{ inches or } \geq 80 \text{ inches} \)
    - In-season action: IPHC Regulations updated 20 May
      - From fork length \( \leq 40 \text{ inches or } \geq 80 \text{ inches} \)

- Guided Angler Fish (GAF) – leased from the Commercial Quota Fishery
  - 25 tonnes landed (0.06 Mlb)
All areas open 1 Feb - 31 Dec – projected values

**IPHC Regulatory Area 3A – charter sector (guided)**

- Allocation = 776 tonnes (1.71 Mlb)
- **7% under** fishery limit - 724 tonnes (1.60 Mlb)
- Daily bag limit of 2 fish
- Max size limit for second fish of 32 inches (81.3 cm)
- Each vessel limited to 1 trip per day
- No annual limit
- In-season IPHC Regulations changed 20 May from:
  - Max size limit for second fish of 26 inches (66 cm)
  - Tuesday and Wednesday closures
  - Annual limit of 4 fish

Guided Angler Fish (GAF)
- Leased from the Commercial Quota Fishery
- 1 tonne landed (0.002 Mlb)
All areas open 1 Feb - 31 Dec – projected values

Private anglers (unguided) in all areas
- Removals at 1,310 tonnes (2.89 Mlb) with no fishery limit
  - IPHC Regulatory Area 2C – 526 tonnes (1.16 Mlb)
  - IPHC Regulatory Area 3A – 771 tonnes (1.70 Mlb)
- Possession limit 2 fish daily bag limit
- No size restrictions
- No annual limit
2020 Subsistence Fisheries – All Areas

1 January to 31 December
2007 estimate carried over for Canada
2018 estimates carried over for USA

TOTAL REMOVALS
– 479 tonnes (1.06 Mlb)
– 529 tonnes (1.17 Mlb) in 2017

CANADA
– 184 tonnes (0.41)
– 136 tonnes (0.30 Mlb) in 2006

USA – WA, OR AND CA
– 15 tonnes (0.03 Mlb)
– 13 tonnes (0.03 Mlb) in 2018

USA – AK
– 281 tonnes (0.62 Mlb)
– 333 tonnes (0.73 Mlb) in 2017
1 January to 31 December – Preliminary estimates

TOTAL – 2,281 tonnes (5.03 Mlb)
2019: 2,977 tonnes (6.56 Mlb)

CANADA
– 111 tonnes (0.25 Mlb)

USA – WA, OR AND CA
– 49 tonnes (0.11 Mlb)

USA – AK
– 2,121 tonnes (4.68 Mlb)
2020 Fishery-Independent Setline Survey (FISS) and Research

TOTAL – 407 tonnes (0.90 Mlb)

CANADA – BC
– 89 tonnes (0.20 Mlb)

USA – AK
– 318 tonnes (0.70 Mlb)
## Pacific Halibut Mortality in Excess – Canada

<table>
<thead>
<tr>
<th>Fishery</th>
<th>Mortality projection</th>
<th>2020 Mortality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>tonnes</td>
<td>pounds</td>
</tr>
<tr>
<td>Directed commercial discard mortality</td>
<td>59</td>
<td>130,000</td>
</tr>
<tr>
<td>Fishery</td>
<td>IPHC Regulatory Area</td>
<td>Mortality limit or projection</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>tonnes</td>
</tr>
<tr>
<td>Directed commercial fishery</td>
<td>2A – discard mortality</td>
<td></td>
</tr>
<tr>
<td>Recreational</td>
<td>2A – California</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>2C – Unguided</td>
<td>753</td>
</tr>
<tr>
<td></td>
<td>3A – Unguided</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>3B</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>4A</td>
<td>15</td>
</tr>
</tbody>
</table>
## Pacific Halibut Mortality in Excess – USA

<table>
<thead>
<tr>
<th>Fishery</th>
<th>IPHC Regulatory Area</th>
<th>Mortality limit or projection</th>
<th>2020 Mortality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>tonnes</td>
<td>pounds</td>
</tr>
<tr>
<td>Subsistence</td>
<td>4A 4B</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Non-directed commercial discard mortality (O26)</td>
<td>2C 4A</td>
<td>32</td>
<td>100</td>
</tr>
</tbody>
</table>
Mortality Estimates with Greatest Uncertainty

Directed Commercial Discard Mortality – U.S.A.
- Alaska
  - inaccurate mean fish weight
  - No observer coverage for vessels less than 40 feet
  - Hook and line observer coverage is low (GOA and Bering Sea)

Recreational – Canada and U.S.A.
- Self reporting of lodges in BC and AK

Subsistence – Canada and U.S.A.
- Estimates not updated
  - since 2007 (Canada) and 2018 (U.S.A)

Non-directed commercial discard mortality – Canada and U.S.A.
- No update for Canada in 2020
- Hook and line observer coverage is low in GOA and Bering Sea
- Non-pelagic trawl catcher vessel observer coverage is low in GOA
2020 Port Highlights

Tissue Sampling Coastwide
• 2019 samples completed and part of assessment

Chalky Pacific halibut
• Regular questionnaire throughout the season for processors – BESB

Economic Pacific halibut survey
https://www.iphc.int/management/science-and-research/economic-research

Canada
• Adding collection of marine mammal details to logbook – agreement with USA logbooks
• Prince Rupert – saw less landings this year than previous years’ level as landings shifted to Port Hardy.
USA

- Reports of low prices
- Kodiak – saw less landings this year than previous years’ level.
- Dutch Harbor – saw more landings this year – likely due to community closures for COVID.
- Whales continue to be of concern – Slinky pots use increasing
2020 Updates

Head-on requirement
• Implemented in 2017
• Fresh landings with head off
  – none in USA
  – Canada
    • <0.4 tonnes (<1,000 lb or 0.02%) 2020
    • 10.2 tonnes (22,597 lb or 0.4%) 2019
    • 5.4 tonnes (11,821 lb or 0.2%) 2018
    • 2.8 tonnes (6,186 lb or 0.1%) 2017

• Frozen landings with head off
  – none in USA
  – Canada
    • 21.9 tonnes (48,277 lb or 1%) 2020
    • 24.7 tonnes (54,375 lb or 1%) 2019
    • 41.8 tonnes (92,148 lb or 2%) 2018
    • 35.6 tonnes (78,583 lb or 1%) 2017
2020 Updates

Use of pot gear

- Implemented in USA in 2017
- Landings with pot gear
  - Canada – n/a
  - USA (AK)
    - 32 tonnes (70,310 lb or 0.44%) 2020
    - 29 tonnes (63,726 lb or 0.36%) 2019
    - 23 tonnes (49,995 lb or 0.30%) 2018
    - 12 tonnes (27,025 lb or 0.14%) 2017

- Logs with pot gear
  - Canada
    - 1.2 tonnes (2,648 lb or 0.05%) 2020
    - 4.0 tonnes (8,825 lb or 0.2%) 2019
    - <1.0 tonnes (<100 lb or <0.01%) 2017
  - USA (AK)
    - 27.4 tonnes (60,477 lb or 0.4%) 2020
    - 26.8 tonnes (59,085 lb or 0.4%) 2019
    - 22.4 tonnes (49,308 lb or 0.3%) 2018
    - 12.2 tonnes (26,813 lb or 0.3%) 2017