

平成 30（2018）年度カタクチイワシ瀬戸内海系群の資源評価

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要 約

本系群の資源量をコホート解析により計算した。本系群ではシラスを対象とした漁業が発達しており、月別月齢別漁獲尾数を使用したコホート解析による月別月齢別資源尾数の推定を実施している。資源量は 1985 年に 424 千トンで最大となった後、1997 年に 100 千トンまで減少した。その後、増減はあるものの緩やかに増加した。近年は横ばい傾向にあったが、2017 年はやや増加し、307 千トンであった。再生産関係から、Blimit を親魚量 38 千トンとした。2017 年の親魚量（103 千トン）から、資源水準を高位、最近 5 年間（2013～2017 年）の親魚量の推移から動向を増加と判断した。資源が安定して推移していることから、現状の親魚量水準を維持することを管理目標とし、ABC 算定のための基本規則 1-1)-(1)に基づき 2019 年 ABC を算定した。なお、ABC の算定にあたり、再生産成功率（加入量 ÷ 親魚量）は直近年を除いた最近 10 年間（2007～2016 年）の平均値で継続すると仮定した。

| 管理基準 | Target / Limit | 2019 年 ABC (千トン) | 漁獲割合 (%) | F 値 (現状の F 値からの増減%) |
|------|----------------|---------------------|----------|------------------------|
| Fsus | Target | 85 | 26 | 1.13 (-14%) |
| | Limit | 68 | 29 | 1.41 (+7%) |

Target は、資源変動の可能性やデータ誤差に起因する評価の不確実性を考慮し、管理基準の下で、より安定的な資源の増大または維持が期待される漁獲量である。Limit は、管理基準の下で許容される最大レベルの漁獲量である。 $F_{target} = \alpha F_{limit}$ とし、係数 α には標準値の 0.8 を用いた。本系群では資源量推定と同様、将来予測についても月別月齢別に行っている。本系群では若月齢魚の漁獲尾数割合が極めて高いため、将来予測において F を引き下げるとこれらが獲り控えられることによって若月齢魚の生残尾数が増加し、同一年内に、より高月齢魚の資源尾数が増加する。また 5 月齢から産卵を開始し始めるため、獲り控えられた資源が年内に親魚となり、加入量が増加することによっても資源量が増加する。こ

のため、F を引き下げるに資源尾数が増加するとともに成長した高月齢魚が多く漁獲されることになり、その結果として ABCtarget は ABClimit よりも大きくなる（「5. 2019 年 ABC の算定 （2) ABC の算定」）。漁獲割合は 2019 年における 1~12 月の合計漁獲量／1~12 月の合計資源量である。F 値は 1 月齢魚の 1~12 月の平均値であり、現状の F (Fcurrent) は 2015~2017 年の F の平均値、1.32 である。

| 年 | 資源量 (千トン) | 親魚量 (千トン) | 漁獲量 (千トン) | F 値 | 漁獲割合 (%) |
|------|--------------|--------------|--------------|------|-------------|
| 2014 | 265 | 60 | 70 | 1.14 | 26 |
| 2015 | 257 | 66 | 68 | 1.29 | 26 |
| 2016 | 278 | 68 | 74 | 1.36 | 27 |
| 2017 | 307 | 103 | 68 | 1.32 | 22 |
| 2018 | 188 | 47 | 54 | 1.32 | 29 |
| 2019 | 233 | 59 | — | — | — |

2018 年と 2019 年の値は、将来予測に基づく値であり、2019 年の値は Flimit で漁獲した場合の値である。資源量を 1~12 月の各月における資源量の合計値、親魚量を 5~10 月の親魚量の合計値として表記した。

水準：高位 動向：増加

本件資源評価に使用したデータセットは以下のとおり

| データセット | 基礎情報、関係調査等 |
|---------------------------|--|
| 月齢別・月別漁獲尾数 | 瀬戸内海地域の漁業（中国四国農政局統計部） 瀬戸内海地域における漁業動向（中国四国農政局統計部） 瀬戸内海区、および太平洋南区における漁業動向（中国四国農政局統計部） 生物情報収集調査－主要漁協・標本船の水揚量、共販量から推定した水揚量（和歌山～大分（10）府県） 生物情報収集調査－体長組成、精密測定、シラス混獲率（水研、和歌山～大分（10）府県） ・市場測定 |
| 資源量指標 ・ 加入量指標 ・ 産卵量 | 標本船調査（広島県、徳島県） 生物情報収集調査－主要漁協・標本船の水揚量と努力量（和歌山県、大阪府、兵庫県、愛媛県） 卵稚仔調査（和歌山～大分（11）府県） ・改良型ノルパックネット、丸特 B ネット |
| 自然死亡係数（M） | 月当たり M = 0.167～0.469 を仮定（月齢によって異なる、表 1 および補足資料 2-1） |

1. まえがき

本報告ではカエリ（変態）以降の発育段階の個体をカタクチイワシ、それより前の発育段階の個体をシラスと表記する。瀬戸内海ではシラス～成魚までが漁獲の対象である。瀬

戸内海におけるカタクチイワシの漁獲量は1970年代から1980年代にかけて全国のカタクチイワシ漁獲量の33%を占めていたが、最近5年間では18%に減少している。また、瀬戸内海におけるシラスの漁獲量は1970年代から1980年代にかけて全国のシラス漁獲量の37%、最近5年間では45%を占めており、特にシラスを対象とした漁業が発達している。

瀬戸内海の中央に位置する燧灘では、2005年度に資源回復計画の対象魚種に指定され、漁業調整規則等や漁業者間の自主的な取組により、船びき網（パッチ網）の漁期の短縮、定期休漁日の設定、網目制限等が行われた。資源回復計画は平成23（2011）年度で終了したが、同計画で実施されていた措置は、平成24（2012）年度以降、新たな枠組みである資源管理指針・計画の下、継続して実施されている。

2. 生態

（1）分布・回遊

本系群はカタクチイワシ太平洋系群の一部である太平洋南区春季発生群と瀬戸内海で発生する群との混合資源である（高尾 1990）。太平洋南区春季発生群は3～5月に薩南海域から紀伊水道外域で生まれ、黒潮によって輸送される（高尾 1990）。その際にその一部が瀬戸内海に来遊する（図1）。春から秋に瀬戸内海で成長し、外海へ出て越冬し、翌春産卵する。内海発生群は春から秋に瀬戸内海の各海域で生まれ、瀬戸内海で成長する。大部分は外海へ出て越冬するが、一部は瀬戸内海に残ると考えられている（高尾 1990）。翌春、瀬戸内海に来遊して産卵する。

（2）年齢・成長

孵化後、半年で8cm（被鱗体長）、1年で11cmに成長する（横田・古川 1952、土井ほか 1978、図2、表1）。寿命は2年程度と考えられる。

（3）成熟・産卵

標準体長と成熟率の関係（Funamoto et al. 2004）を参考に5月齢で55%、6月齢で80%、7月齢で95%、8月齢以上で100%の個体が成熟すると仮定した（図3、表1）。このような早熟群はごく沿岸や内湾、内海に出現すると考えられている（船越 1990）。産卵はほぼ周年みられるが、主産卵期は5～10月である（河野・銭谷 2008）。産卵は継続的に行われ、各月の発生群が5月齢から成熟するため、加入個体が同一年内の産卵にも寄与することになる。薩南海域から紀伊水道外域、瀬戸内海全域で産卵する（図1、服部 1982、落合・田中 1986、高尾 1990）。

（4）被捕食関係

カイアシ類などの小型甲殻類を主な餌とする。サワラ、スズキ、サバ類、タチウオなどの魚食性魚類に捕食される（Kishida 1986、落合・田中 1986）。

3. 漁業の状況

（1）漁業の概要

本資源は主に中型まき網や船びき網（パッチ網）によって漁獲される。瀬戸内海では小

規模な漁業が大多数を占めているが、本種を漁獲対象とする漁業への投資規模は大きい部類に入る。漁場は紀伊水道から伊予灘までの各海域に形成される（図1）。操業期間は外海に近い海域ではほぼ周年、瀬戸内海中央部では春から秋である。海域によっては加工に不向きな脂イワシの出現（山本・本田 2008）や不漁のため、休漁する場合がある。太平洋南区での春季発生群の一部が瀬戸内海に来遊し、漁獲対象資源に加わることから、瀬戸内海東部の春季におけるシラス漁獲量の多寡には太平洋南区春季発生群の資源水準と黒潮の離接岸が大きく影響する（堀木 1971）。なお、瀬戸内海で発生した本種が冬季に外海で漁獲される可能性があるが、その漁獲量は少なく、本系群の資源に与える影響は小さいと考えられることから、本報告の解析にはその漁獲は含めない。

（2）漁獲量の推移

1955～2017年におけるカタクチイワシとシラスの漁獲量を図4、表2に示す。1955～1986年までカタクチイワシの漁獲量は比較的安定し、シラスは増加傾向を示していた。漁獲量は1985年にカタクチイワシ100千トン、シラス50千トンで最大となった後、減少し、1990年代後半はいずれも20千トン前後で推移した。1999年から増加し、それ以降の合計漁獲量は60千～80千トンの間で推移しており、2017年（概数値）はカタクチイワシ44千トン、シラス25千トンであった。1980年代後半からカタクチイワシの漁獲量が減少する一方で、1980年代にシラスの漁獲量は増加し、1980年代後半以降ではカタクチイワシとシラスの漁獲量は同程度となっている。

（3）漁獲努力量

シラスを漁獲対象とする船びき網漁業の代表漁協（和歌山県3漁協、大阪府1漁協、兵庫県2漁協、愛媛県1漁協）について、出漁統数の相乗平均を示す（図5、表3）。出漁統数の相乗平均は1990年代以降、減少傾向にあったが、近年は横ばい傾向にある。なお、各年における上記漁協の合計シラス漁獲量は瀬戸内海のシラス漁獲量の8～21%（平均17%）を占める。

4. 資源の状態

（1）資源評価の方法

本系群では1980年代後半以降、カタクチイワシとシラスの漁獲量がほぼ等しく、シラスも漁獲対象資源として重要であり、シラスを含めた資源管理方策を検討することが妥当であると考えられるので、1981～2017年の月別月齢別漁獲尾数データを用いたコホート解析により月別月齢別漁獲係数、資源尾数、および資源量を推定した（補足資料1、補足資料2-1、補足資料3）。各年の資源量を1～12月の各月における資源量の合計値として表記した（表4）。後述するように、各年の親魚量についても5～10月の親魚量の合計値として表記した（表4、補足資料4）。なお、資源量や親魚量を各月の合計値で表した場合と各月の平均値で表した場合の経年推移の変動傾向は一致する。

（2）資源量指標値の推移

シラスを漁獲対象とする船びき網漁業の代表漁協と標本船について、CPUEの相乗平均

(トン／出漁統数、トン／操業回数)を示す(図6、表3)。いずれのCPUEの相乗平均とも1990年代に低かったが、1999年に急増した。その後増減を繰り返し、2006年以降は増加傾向にあったが近年は増減しながらも横ばい傾向にある。

瀬戸内海における1980～2017年の各年の産卵量は185兆～1,146兆粒(平均666兆粒)で推移した(図7、表4、補足資料2-2)。年ごとの変動は激しいが、1980年代後半以降は概ね増加傾向にある。2017年は1,140兆粒で、2002年に次ぐ高水準であった。

(3) 漁獲物の月齢組成

漁獲量、および漁獲尾数の月齢組成をそれぞれ図8、9に示す。シラスに相当する1～2月齢魚の割合は漁獲量の19～64%(平均48%)、漁獲尾数の90～99%(平均97%)であり、重量では半分弱、尾数では大半がシラスである。

(4) 資源量と漁獲割合の推移

コホート解析によって1981～2017年の資源量を推定した(図10、表4)。資源量については各年における1～12月の合計値で表した。資源量は1985年に424千トンで最大となつた後、1997年に100千トンまで減少した。その後、1999～2007年までは200千トン前後で推移し、2008年には382千トンに増加した。2010年には再び244千トンに減少し、それ以後は横ばい傾向にあったが、2017年はやや増加し、307千トンであった。漁獲割合(漁獲量／資源量)は17～46%の間で変動し、特に1980年代後半から1990年代前半に高かった。2017年は22%であった。

各月齢魚における各年1～12月の漁獲係数Fの平均値をその年の各月齢魚のFとして表した(図11、表5)。Fは1月齢魚で特に高い。1999年以降は低下していたが、近年やや増加している。1990年代以降の3月齢以上のFは1980年代と比較して低い。本資源の分布域は太平洋系群や対馬暖流系群と比較して瀬戸内海という限られた範囲であり、分布域と漁場が一致していることから1～2月齢魚には高い漁獲圧がかかっている。しかしカタクチイワシ太平洋系群では1990年代の終わりから2000年代半ばまで資源水準が高位となり(上村ほか2018)、それ以前よりも瀬戸内海に来遊する資源が増加したことにより、資源は1990年代の低水準期から回復したと考えられる。

瀬戸内海での主産卵期は5～10月であり、5～10月に産卵された個体は6～11月に加入すると考えられる。また春季には太平洋南区から一部のシラスが瀬戸内海へ来遊するので、本系群の再生産を検討するにあたってはこれを含めないようにするために、親魚量については5～10月の合計値、加入量(1月齢魚の資源尾数)について6～11月の合計値とするのが適当であると判断した。なお、各月の親魚量は月齢別資源量×月齢別成熟率で計算した。親魚量は変動が大きいが、1980年代は概ね減少傾向にあり、1989～1997年のは1991年を除いて低い水準で推移した(図12、表4)。それ以後は概ね増加し、近年は横ばい傾向で推移していたが、2017年は大型個体が多獲された結果、親魚量の推定値は103千トンに急増した。加入量は1983～1990年にかけて0.40兆尾以上の年が続いた後、減少し、1998年は0.19兆尾となった。その後増加し、2002年には0.52兆尾となつたが、2004年には再び0.20兆尾に減少した。2010年まで増加した後、近年はおおよそ横ばい傾向で推移

していたが、2017年は0.31兆尾に減少した。

自然死亡係数Mの変化が2017年の資源量と親魚量の推定値に与える影響を検討した。Mを各月齢の値（表1）から30%減少させると資源量は261千トン（85%）、親魚量は94千トン（91%）に減少した。Mを30%増加させると資源量は367千トン（120%）、親魚量は113千トン（109%）に増加した（図13）。

（5）再生産関係

各年の5～10月の合計親魚量と6～11月の合計加入量から年単位での再生産関係を図14に示す。親魚量と加入量の間に明確な関係はみられない。5～10月の合計産卵量と6～11月の合計加入量の関係について検討したところ、両者の間には相関が認められなかった（図15）。これは卵から加入までの生残率の年変動が大きいことを示唆している。

上記の6～11月の合計加入量と5～10月の合計親魚量から求めた再生産成功率RPS（加入量／親魚量）は1981年以降、1990年まで増加したが1991年に急減した（図16、表4）。1992年に急増し、それ以降は1997年を除いて概ね減少傾向を示した。2004年以降は増減しながら横ばい傾向にあったが、2017年に減少した。

（6）Blimitの設定

Blimitは、高いRPSがあったときに高い加入量が期待できる親魚量とした。具体的には、再生産関係（図14）においてRPSの上位10%を示す直線と加入量の上位10%を示す直線との交点となる親魚量（38千トン）とした。2017年の親魚量は103千トンでBlimitを上回っている。

（7）資源の水準・動向

資源水準の低位と中位の境界をBlimit、中位と高位の境界をBlimitと最大親魚量の中間値（80千トン）とした（図12、14）。2017年の親魚量は103千トンであったことから、資源水準は高位と判断した。最近5年間（2013～2017年）の親魚量の推移から資源動向は増加と判断した。

（8）今後の加入量の見積もり

資源量推定と同様に月別月齢別に将来予測を行うため、図16で示したRPSとは別に、月別にRPSを求め、それらと各月の親魚量から2018年以降の各月の加入量を求めた（補足資料5）。各月のRPSは直近年を除いた最近10年間（2007～2016年）の平均値で継続すると仮定した。各年の加入量には上限値を設定し、直近年を除いた最近10年間の最大値（0.618兆尾）と仮定した。また各月の加入量の上限は、0.618兆尾×直近年を除いた最近10年間における各月の加入量の平均割合と仮定した。

（9）生物学的な管理基準（漁獲係数）と現状の漁獲圧の関係

1月齢魚の1～12月のFの平均値を横軸として、加入量当たり親魚量（SPR）について漁獲がない場合に対する百分率、および加入量当たり漁獲量（YPR）を図17に示した（補足資料2-3、2-4）。Fcurrent（2015～2017年の平均値）は1.32であり、Fmax（0.43）や経験

的に推奨される F30%SPR (0.49) よりもかなり高い。これは、瀬戸内海では全長 10mm 程度（産卵後 0.5 か月）からシラスとして漁獲され始め（辻野・渡 2001、斎浦・東海 2003）、成熟開始前のシラス期から漁獲対象となっているからである。

5. 2019 年 ABC の算定

(1) 資源評価のまとめ

本系群の資源水準は高位、動向は増加と判断した。F は 1~2 月齢魚で経年的に高かったが、3 月齢魚以上で低下したことや、その一部が瀬戸内海に来遊する太平洋系群の資源水準が高位であったことにより、本系群の資源は 1990 年代の低水準期から回復したと考えられる。2017 年の親魚量は 103 千トンであり、高い RPS（上位 10%）があった時に高い加入量（上位 10%）が期待できる親魚量として再生産関係から求めた Blimit（親魚量 38 千トン）を上回っている（図 12、14）。

(2) ABC の算定

本系群では資源量、および再生産関係を利用することができます、2017 年の親魚量は Blimit（親魚量 38 千トン）を上回っていることから、ABC 算定規則 1-1)-(1)を適用し、以下の F を用いて 2019 年 ABC を算出した。

$$F_{\text{limit}} = \text{基準値}$$

$$F_{\text{target}} = F_{\text{limit}} \times \alpha$$

資源水準は高位、動向は増加である。直近年の 2017 年を除いた 2010 年以降の資源量、親魚量、RPS や加入量は比較的安定している。現状の親魚量水準を維持することを管理目標とし、中長期的にこの水準を維持する F 値を管理基準とした。2018 年の F を F_{current} と仮定し、2019 年以降の F に F_{sus} を使用し、コホート解析の前進法により、資源尾数を求めた。 F_{current} は 2015~2017 年における月別月齢別の F を月別月齢別に平均して求めた。ABC limit を算定する際、2018 年以降の年間加入量については、RPS が直近年を除いた過去 10 年間（2007~2016 年）における平均値で継続すると仮定し（補足資料 5）、 $F_{\text{limit}} = F_{\text{sus}}$ とした時の 2019 年の漁獲量を ABC limit とした。 F_{sus} での漁獲の際には F_{current} における月別月齢別選択率を適用した。ABC target を算定する際、安全率 α には標準値の 0.8 を用いた。

2019 年の ABC を下表、シラス・カタクチイワシ別の 2019 年 ABC と漁獲尾数を表 6、2017~2024 年の資源量、親魚量、漁獲量の予測結果を図 18~20 に示した。また、2018~2019 年における月別月齢別の資源尾数、資源量、漁獲係数、漁獲尾数と漁獲量の予測結果、および 2019 年における月別の累積漁獲尾数と漁獲量を補足資料 6(補足図 6-1~6-4、補足表 6-1~6-5) に示した。 F_{sus} で漁獲した場合、2019 年の資源量は 233 千トン、親魚量は 59 千トンになる。カタクチイワシ瀬戸内海系群では F を引き下げた場合の資源の回復速度が速い。すなわち、若月齢魚の漁獲尾数割合が極めて高く（図 9）、F を引き下げるとこれらが獲り控えられることによって若月齢魚の生残尾数が増加するため、同一年内に、より高月齢魚の資源尾数が増加する。また 5 月齢から産卵を開始し始めるため（図 3）、獲り控えられた資源が年内に親魚となり、加入量が増加することによっても資源量が増加する。このため、F を引き下げると資源尾数が増加するとともに成長した高月齢魚が多く漁獲されることになり、その結果として ABC target は ABC limit よりも大きくなる。上述の関

係を示すために、図 21～23 に管理開始年（2019 年）の各月における月単位の資源量、漁獲量、および各月までの累積漁獲量の推移を示した。資源量は 2 月以降、Ftarget で管理した方が多くなり（図 21）、漁獲量は 6 月以降、Ftarget で漁獲した方が多くなる（図 22）。累積漁獲量は 7 月以降、Ftarget で漁獲した方が多くなる（図 23）。

本報告では過去の加入量から 2018 年以降の加入量を仮定した。2018 年以降の加入量が仮定した値と異なった場合、資源量の予測値や ABC も変動するので、精度の高い資源量の予測や ABC の算定を行うためには、可能な限り最新の加入量情報を加味する必要がある。

| 管理基準 | Target / Limit | 2019 年 ABC (千トン) | 漁獲割合 (%) | F 値 (現状の F 値からの増減%) |
|------|----------------|---------------------|-------------|------------------------|
| Fsus | Target | 85 | 26 | 1.13 (-14%) |
| | Limit | 68 | 29 | 1.41 (+7%) |

Target は、資源変動の可能性やデータ誤差に起因する評価の不確実性を考慮し、管理基準の下で、より安定的な資源の増大または維持が期待される漁獲量である。Limit は、管理基準の下で許容される最大レベルの漁獲量である。 $F_{target} = \alpha F_{limit}$ とし、係数 α には標準値の 0.8 を用いた。本系群では資源量推定と同様、将来予測についても月別月齢別に行っていている。本系群では若月齢魚の漁獲尾数割合が極めて高いため、将来予測において F を引き下げるとこれらが獲り控えられることによって若月齢魚の生残尾数が増加し、同一年内に、より高月齢魚の資源尾数が増加する。また 5 月齢から産卵を開始し始めるため、獲り控えられた資源が年内に親魚となり、加入量が増加することによっても資源量が増加する。このため、F を引き下げると資源尾数が増加するとともに成長した高月齢魚が多く漁獲されることになり、その結果として ABCtarget は ABClimit よりも大きくなる（「5. 2019 年 ABC の算定（2) ABC の算定」）。漁獲割合は 2019 年における 1～12 月の合計漁獲量／1～12 月の合計資源量である。F 値は 1 月齢魚の 1～12 月の平均値であり、現状の F (Fcurrent) は 2015～2017 年の F の平均値、1.32 である。

（3）ABC の評価

F を変化させた場合に期待される漁獲量、資源量、親魚量を以下に示した。また 2018 年以降の月別月齢別計算結果を補足資料 7 に示した。上述したように、F を引き下げると同一年内に資源量が増加する。その影響により、F を引き下げても結果的に漁獲量が多くなる。

| 管理基準 | F 値 | 漁獲量 (千トン) | | | | | | | |
|--------------|------|-----------|------|------|------|------|------|------|------|
| | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
| 0.60Fcurrent | 0.79 | 68 | 54 | 107 | 176 | 178 | 178 | 178 | 178 |
| 0.80Fcurrent | 1.06 | 68 | 54 | 89 | 125 | 127 | 127 | 127 | 127 |
| 1.00Fcurrent | 1.32 | 68 | 54 | 74 | 92 | 95 | 95 | 95 | 95 |
| Fsus | 1.41 | 68 | 54 | 68 | 68 | 68 | 68 | 68 | 68 |
| 1.20Fcurrent | 1.59 | 68 | 54 | 60 | 33 | 18 | 10 | 6 | 3 |
| 1.40Fcurrent | 1.85 | 68 | 54 | 50 | 11 | 3 | 1 | 0 | 0 |
| | | 資源量 (千トン) | | | | | | | |
| | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
| 0.60Fcurrent | 0.79 | 307 | 188 | 514 | 909 | 919 | 919 | 919 | 919 |
| 0.80Fcurrent | 1.06 | 307 | 188 | 350 | 527 | 536 | 536 | 536 | 536 |
| 1.00Fcurrent | 1.32 | 307 | 188 | 257 | 324 | 338 | 339 | 339 | 339 |
| Fsus | 1.41 | 307 | 188 | 233 | 234 | 234 | 234 | 234 | 234 |
| 1.20Fcurrent | 1.59 | 307 | 188 | 198 | 109 | 60 | 33 | 18 | 10 |
| 1.40Fcurrent | 1.85 | 307 | 188 | 164 | 37 | 9 | 2 | 0 | 0 |
| | | 親魚量 (千トン) | | | | | | | |
| | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
| 0.60Fcurrent | 0.79 | 103 | 47 | 108 | 252 | 254 | 254 | 254 | 254 |
| 0.80Fcurrent | 1.06 | 103 | 47 | 80 | 139 | 141 | 141 | 141 | 141 |
| 1.00Fcurrent | 1.32 | 103 | 47 | 64 | 81 | 85 | 86 | 86 | 86 |
| Fsus | 1.41 | 103 | 47 | 59 | 60 | 60 | 60 | 60 | 60 |
| 1.20Fcurrent | 1.59 | 103 | 47 | 52 | 29 | 16 | 9 | 5 | 3 |
| 1.40Fcurrent | 1.85 | 103 | 47 | 45 | 10 | 2 | 1 | 0 | 0 |

(4) ABC の再評価

| | |
|--------------------|--------------------------------------|
| 昨年度評価以降追加されたデータセット | 修正・更新された数値 |
| 2016 年漁獲量確定値 | 2016 年漁獲量の確定 |
| 2016 年月齢別・月別漁獲尾数 | 2016 年までの月齢別資源尾数（再生産関係）、漁獲係数（年齢別選択率） |

| 評価対象年 (当初・再評価) | 管理基準 | F 値 | 資源量 (千トン) | ABCLimit (千トン) | ABCtarget (千トン) | 漁獲量 (千トン) (実際の F 値) |
|--------------------|-------|------|--------------|-------------------|--------------------|------------------------------|
| 2017 年 (当初) | F2015 | 1.16 | 272 | 69 | 65 | |
| 2017 年 (2017 年再評価) | F2015 | 1.29 | 249 | 69 | 60 | |
| 2017 年 (2018 年再評価) | F2015 | 1.29 | 307 | 87 | 76 | 68 (1.32) |
| 2018 年 (当初) | Fsus | 1.28 | 251 | 75 | 73 | |
| 2018 年 (2018 年再評価) | Fsus | 1.28 | 188 | 60 | 49 | |

F 値は 1 月齢魚における 1~12 月の平均値である。資源量や漁獲量は加入量の変動に対応して変動する。2017 年 (2018 年再評価) の資源量が 2017 年 (当初) や 2017 年 (2017 年再評価) と比較して多いのは、2017 年に大型個体が多獲されたためである。2018 年 (2018 年再評価) の資源量が 2018 年 (当初) と比較して少ないのは加入量が少ないとある。

6. ABC 以外の管理方策の提言

本報告において瀬戸内海全体では産卵量と加入量の間に有意な正の相関関係がないことを示した (図 15)。これは、「4. 資源の状態 (5) 再生産関係」で記述したように加入までの生残率の変動が大きいために、親魚を増やした場合に必ずそれに比例するように加入が増えるとは限らないことを意味する。一方、瀬戸内海中央部の燧灘では大羽 (親魚) の解禁日を遅らせる方策 (外間 1995) が実施されている。この方策では加入のもととなる産卵量をできる限り底上げするとともに、放卵後に漁獲することにより放卵前より良質の煮干し製品になることも期待されている。また、シラスの解禁日を遅らせる方策では、魚体重の増加を待って漁獲することにより、漁獲量を増加させることができると期待される。燧灘では努力量削減のために操業期間中に週 1 日以上の定期休漁日を設定するとともに、資源動向に即した休漁日を検討することになっている。瀬戸内海では海域によって漁獲対象サイズが異なっており、各海域の実情にあった方策を引き続き推進していくことが重要である。

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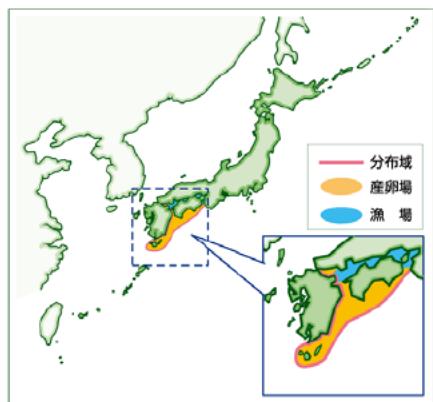


図 1. カタクチイワシ瀬戸内海系群の分布域、産卵場、および漁場

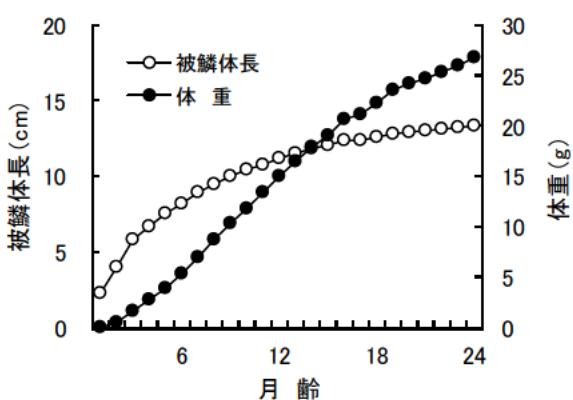


図 2. 月齢と成長

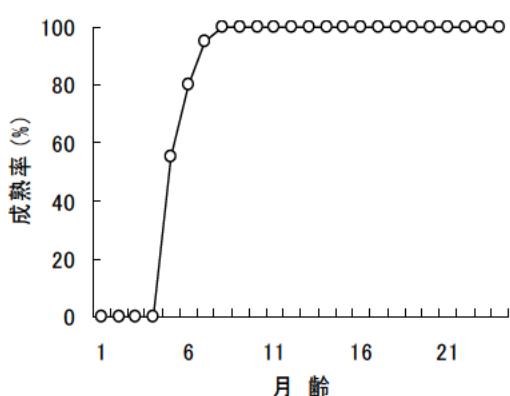


図 3. 月齢と成熟率

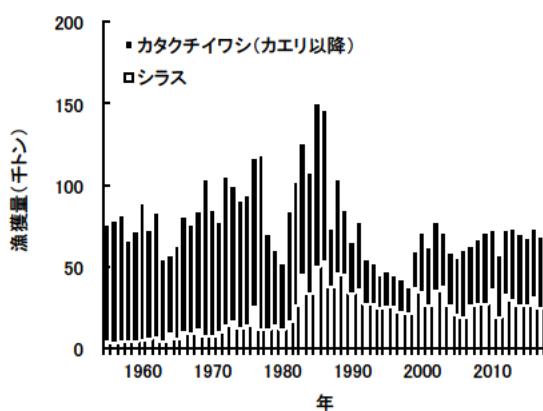


図 4. カタクチイワシとシラスの漁獲量の推移

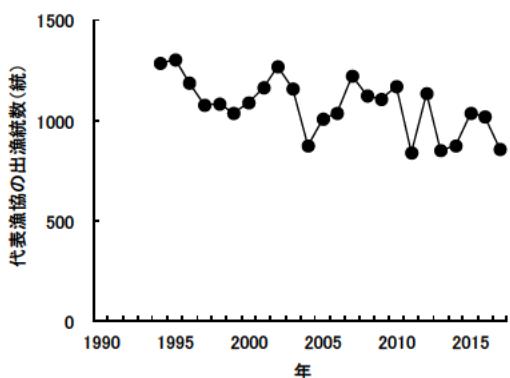


図 5. シラス漁業における努力量の推移

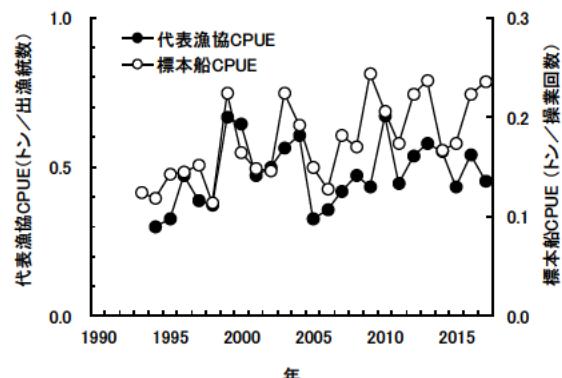


図 6. シラス漁業における CPUE の推移

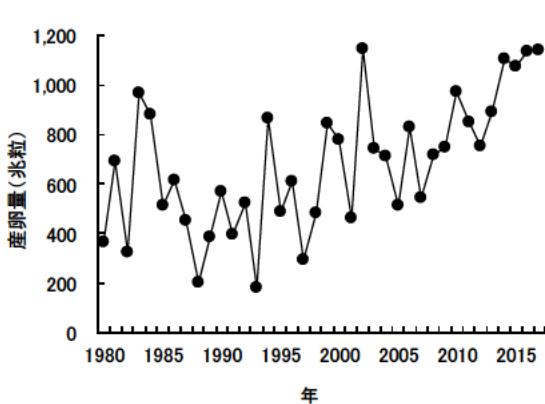


図 7. 産卵量の推移

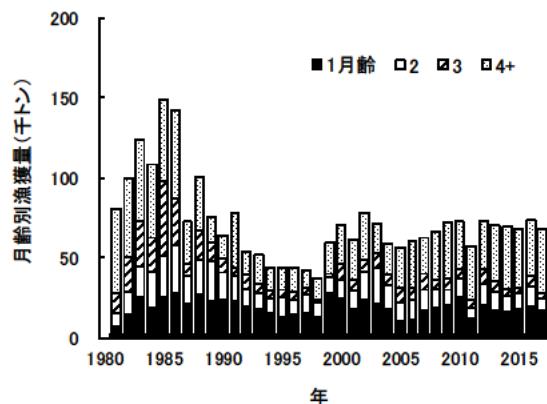


図 8. 月齢別漁獲量の推移

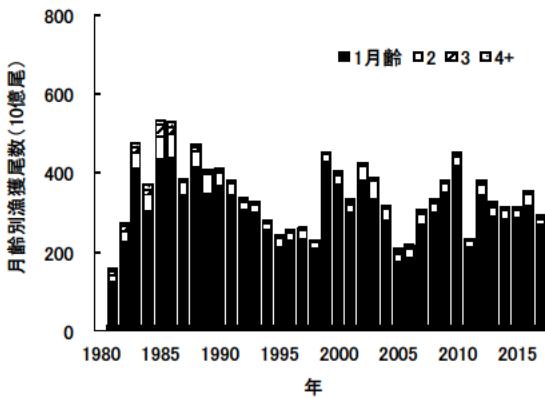


図 9. 月齢別漁獲尾数の推移

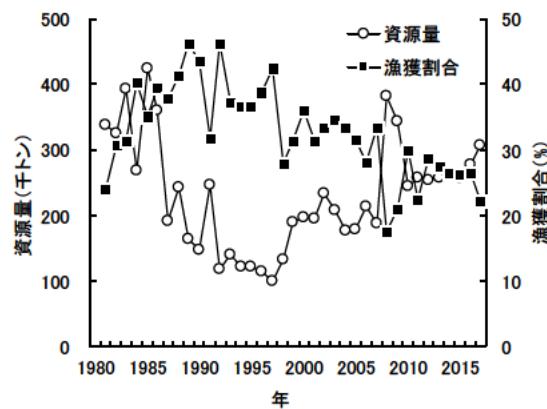


図 10. コホート解析で推定された資源量と漁獲割合の推移

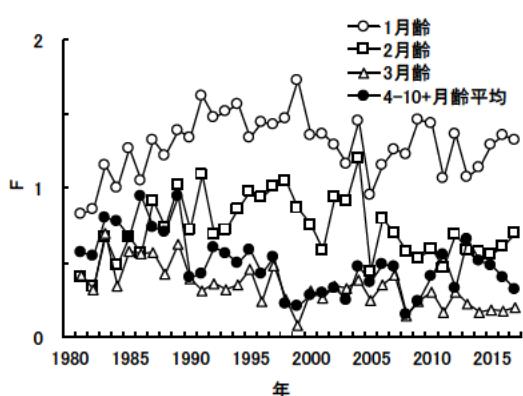
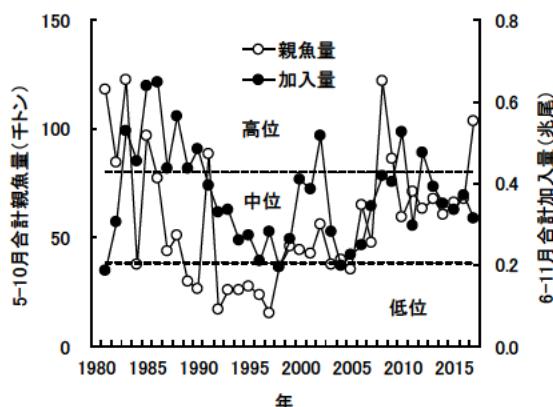


図 11. F の推移

図 12. 親魚量と加入量の推移
破線は水準の境界を示す。

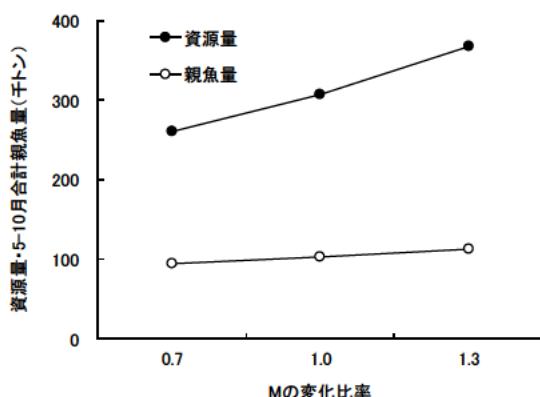


図 13. Mの変化にともなう2017年資源量と親魚量の推定結果の変化

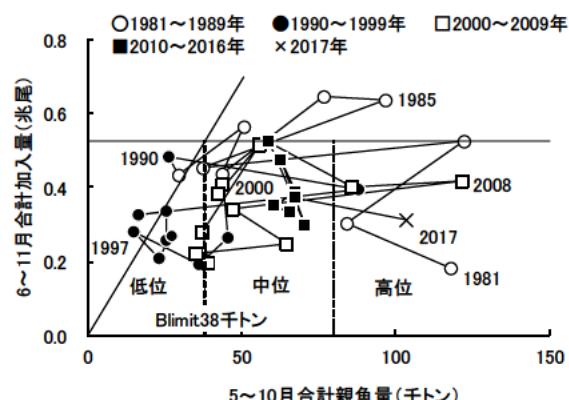
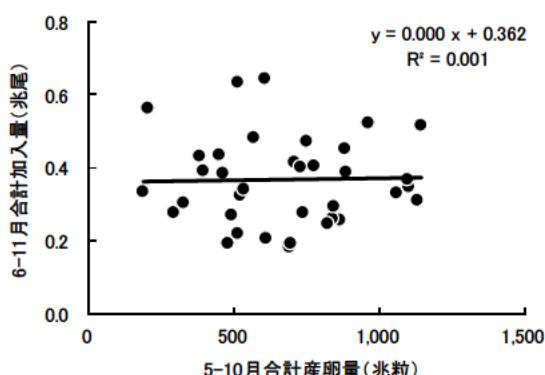
図 14. 再生産関係
破線は水準の境界を示す。

図 15. 産卵量と加入量の関係

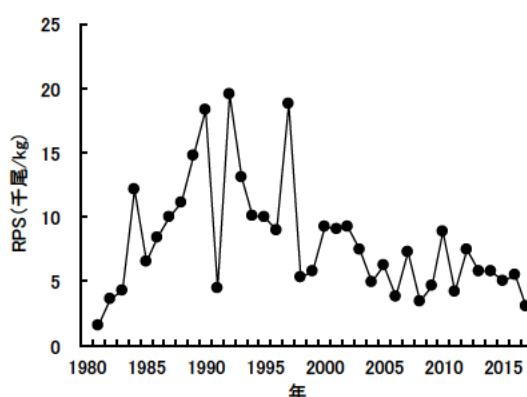


図 16. 再生産成功率 (RPS) の推移

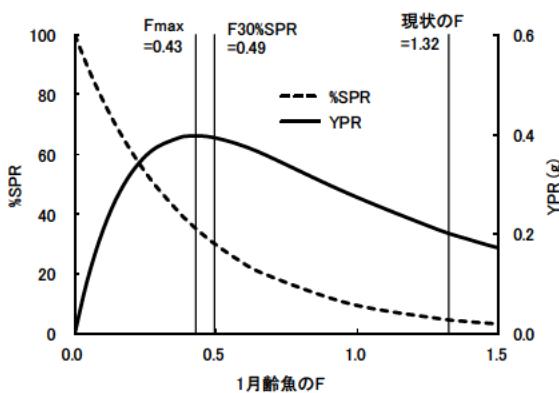


図 17. F と%SPR、YPR との関係

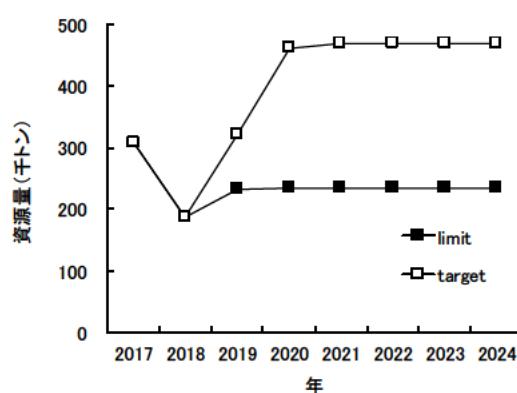


図 18. 資源量の将来予測結果

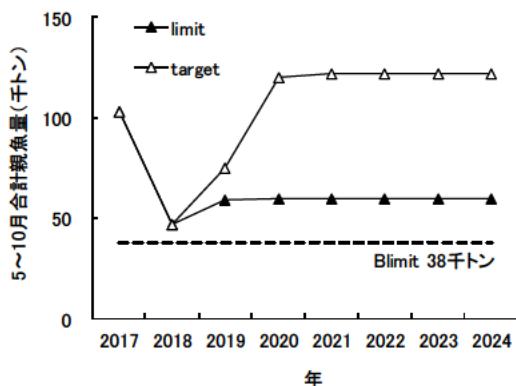


図 19. 親魚量の将来予測結果

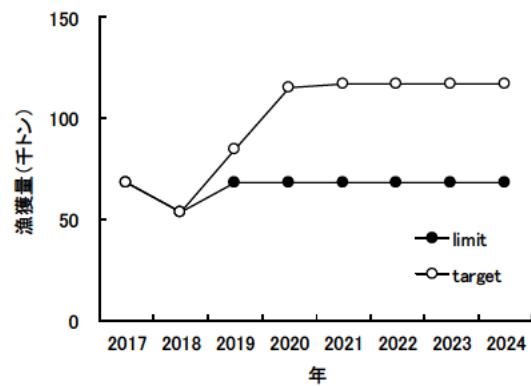


図 20. 漁獲量の将来予測結果

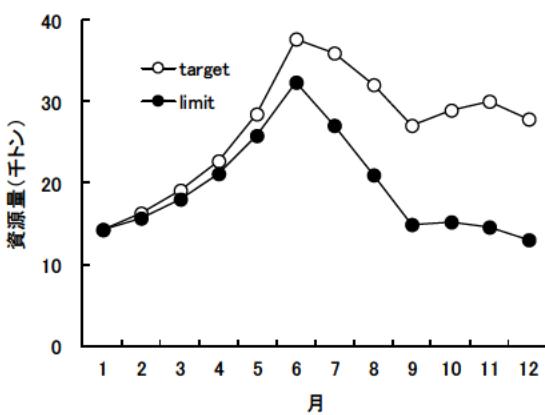


図 21. 管理開始年（2019 年）の各月における月単位の資源量の推移

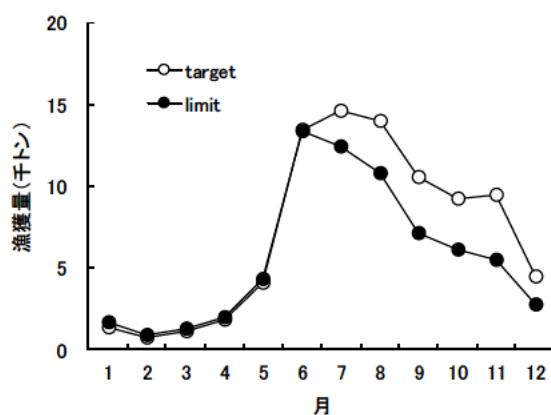


図 22. 管理開始年（2019 年）の各月における月単位の漁獲量の推移

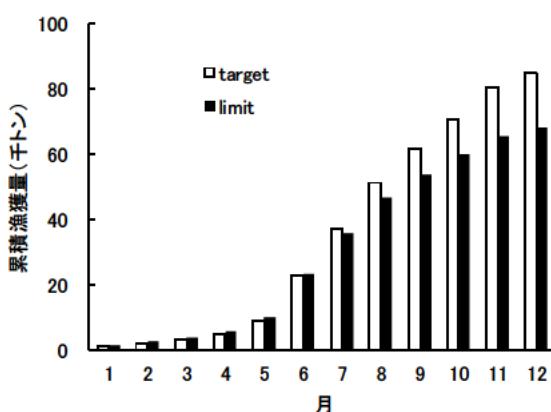


図 23. 管理開始年（2019 年）における各月までの累積漁獲量の推移

表 1. 各月齢の被鱗（標準）体長、平均体重、成熟率と自然死亡係数 M

| 月齢 | 標準体長 もしくは 被鱗体長 (cm) | | 平均体重 (g) | 成熟率 | M |
|----|------------------------------|---|----------|--------|-------|
| 1 | 1.3 | - | 2.9 | 0.064 | 0.469 |
| 2 | 3.0 | - | 4.4 | 0.494 | 0.353 |
| 3 | 4.5 | - | 6.1 | 1.696 | 0.00 |
| 4 | 6.2 | - | 7.0 | 2.737 | 0.00 |
| 5 | 7.1 | - | 7.8 | 3.979 | 0.55 |
| 6 | 7.9 | - | 8.5 | 5.351 | 0.80 |
| 7 | 8.6 | - | 9.1 | 7.023 | 0.95 |
| 8 | 9.2 | - | 9.6 | 8.721 | 1.00 |
| 9 | 9.7 | - | 10.1 | 10.339 | 1.00 |
| 10 | 10.2 | - | 10.5 | 11.776 | 1.00 |
| 11 | 10.6 | - | 10.9 | 13.348 | 1.00 |
| 12 | 11.0 | - | 11.2 | 15.060 | 1.00 |
| 13 | 11.3 | - | 11.5 | 16.441 | 1.00 |
| 14 | 11.6 | - | 11.8 | 17.908 | 1.00 |
| 15 | 11.9 | - | 12.0 | 18.936 | 1.00 |
| 16 | 12.1 | - | 12.3 | 20.553 | 1.00 |
| 17 | 12.4 | - | 12.4 | 21.113 | 1.00 |
| 18 | 12.5 | - | 12.6 | 22.264 | 1.00 |
| 19 | 12.7 | - | 12.8 | 23.459 | 1.00 |
| 20 | 12.9 | - | 12.9 | 24.073 | 1.00 |
| 21 | 13.0 | - | 13.0 | 24.698 | 1.00 |
| 22 | 13.1 | - | 13.1 | 25.334 | 1.00 |
| 23 | 13.2 | - | 13.2 | 25.982 | 1.00 |
| 24 | 13.3 | - | | 26.641 | 1.00 |

各月齢の M については、Chen and Watanabe (1989) の方法により計算した（補足資料 2）。

表2. 瀬戸内海におけるカタクチイワシとシラスの漁獲量(トン)の経年変化

| 年 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | |
|---------|------|---------|---------|---------|---------|---------|--------|--------|---------|---------|---------|
| カタクチイワシ | 東部 | 36,643 | 47,953 | 53,092 | 36,345 | 49,421 | 57,990 | 49,524 | 56,899 | 34,300 | 27,762 |
| | 西部 | 34,680 | 27,776 | 24,249 | 25,287 | 17,565 | 25,890 | 17,163 | 19,340 | 16,099 | 20,418 |
| | 小計 | 71,323 | 75,729 | 77,341 | 61,632 | 66,986 | 83,880 | 66,687 | 76,239 | 50,399 | 48,180 |
| シラス | 東部 | 3,111 | 2,531 | 3,878 | 3,694 | 4,289 | 4,574 | 6,077 | 6,233 | 3,116 | 8,857 |
| | 西部 | 1,368 | 784 | 651 | 962 | 779 | 770 | 348 | 753 | 963 | 563 |
| | 小計 | 4,479 | 3,315 | 4,529 | 4,656 | 5,068 | 5,344 | 6,425 | 6,986 | 4,079 | 9,420 |
| 合計 | | 75,802 | 79,044 | 81,870 | 66,288 | 72,054 | 89,224 | 73,112 | 83,225 | 54,478 | 57,600 |
| 年 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | |
| カタクチイワシ | 東部 | 43,253 | 43,984 | 42,055 | 38,449 | 62,022 | 42,199 | 30,588 | 32,338 | 43,740 | 40,772 |
| | 西部 | 14,021 | 27,726 | 24,951 | 34,376 | 34,259 | 35,839 | 36,813 | 58,283 | 40,127 | 37,006 |
| | 小計 | 57,274 | 71,710 | 67,006 | 72,825 | 96,281 | 78,038 | 67,401 | 90,621 | 83,867 | 77,778 |
| シラス | 東部 | 6,174 | 9,226 | 9,268 | 10,786 | 7,471 | 6,681 | 9,458 | 13,838 | 15,547 | 12,154 |
| | 西部 | 407 | 416 | 135 | 340 | 350 | 776 | 618 | 661 | 742 | 582 |
| | 小計 | 6,581 | 9,642 | 9,403 | 11,126 | 7,821 | 7,457 | 10,076 | 14,499 | 16,289 | 12,736 |
| 合計 | | 63,855 | 81,352 | 76,409 | 83,951 | 104,102 | 85,495 | 77,477 | 105,120 | 100,156 | 90,514 |
| 年 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | |
| カタクチイワシ | 東部 | 34,658 | 36,559 | 46,776 | 14,689 | 4,681 | 4,628 | 26,671 | 31,395 | 37,639 | 29,838 |
| | 西部 | 45,308 | 55,422 | 60,228 | 44,189 | 41,403 | 35,461 | 40,861 | 44,693 | 43,306 | 45,174 |
| | 小計 | 79,966 | 91,981 | 107,004 | 58,878 | 46,084 | 40,089 | 67,532 | 76,088 | 80,945 | 75,012 |
| シラス | 東部 | 13,585 | 24,254 | 10,362 | 11,842 | 11,089 | 10,304 | 12,288 | 16,152 | 34,265 | 25,064 |
| | 西部 | 591 | 866 | 1,167 | 447 | 3,400 | 2,163 | 4,031 | 10,112 | 10,747 | 8,379 |
| | 小計 | 14,176 | 25,120 | 11,529 | 12,289 | 14,489 | 12,467 | 16,319 | 26,264 | 45,012 | 33,443 |
| 合計 | | 94,142 | 117,101 | 118,533 | 71,167 | 60,573 | 52,556 | 83,851 | 102,352 | 125,957 | 108,455 |
| 年 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | |
| カタクチイワシ | 東部 | 44,234 | 36,991 | 5,129 | 6,210 | 4,654 | 4,913 | 6,007 | 2,551 | 2,417 | 3,379 |
| | 西部 | 55,495 | 55,896 | 30,875 | 51,385 | 35,625 | 26,635 | 36,274 | 24,736 | 22,512 | 17,132 |
| | 小計 | 99,729 | 92,887 | 36,004 | 57,595 | 40,279 | 31,548 | 42,281 | 27,287 | 24,929 | 20,511 |
| シラス | 東部 | 37,956 | 40,484 | 26,893 | 28,845 | 32,073 | 22,696 | 26,799 | 18,972 | 18,593 | 18,255 |
| | 西部 | 12,268 | 12,901 | 11,149 | 17,312 | 12,998 | 11,730 | 9,424 | 8,728 | 8,734 | 6,322 |
| | 小計 | 50,224 | 53,385 | 38,042 | 46,157 | 45,071 | 34,426 | 36,223 | 27,700 | 27,327 | 24,577 |
| 合計 | | 149,953 | 146,272 | 74,046 | 103,752 | 85,350 | 65,974 | 78,504 | 54,987 | 52,256 | 45,088 |
| 年 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | |
| カタクチイワシ | 東部 | 2,875 | 1,845 | 2,357 | 1,860 | 7,616 | 11,644 | 6,595 | 12,392 | 5,929 | 9,910 |
| | 西部 | 19,773 | 17,957 | 17,685 | 14,620 | 15,080 | 24,879 | 29,195 | 30,674 | 27,898 | 23,007 |
| | 小計 | 22,648 | 19,802 | 20,042 | 16,480 | 22,696 | 36,523 | 35,790 | 43,066 | 33,827 | 32,917 |
| シラス | 東部 | 16,979 | 17,974 | 15,156 | 13,876 | 27,011 | 23,663 | 18,006 | 23,734 | 26,282 | 18,299 |
| | 西部 | 8,004 | 7,583 | 7,459 | 7,570 | 10,112 | 11,117 | 8,407 | 11,565 | 11,531 | 7,940 |
| | 小計 | 24,983 | 25,557 | 22,615 | 21,446 | 37,123 | 34,780 | 26,413 | 35,299 | 37,813 | 26,239 |
| 合計 | | 47,631 | 45,359 | 42,657 | 37,926 | 59,819 | 71,303 | 62,203 | 78,365 | 71,640 | 59,156 |
| 年 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | |
| カタクチイワシ | 東部 | 7,291 | 16,248 | 11,438 | 12,443 | 11,968 | 14,114 | 11,977 | 11,492 | 13,237 | 16,131 |
| | 西部 | 28,604 | 25,635 | 25,117 | 26,875 | 32,699 | 22,567 | 26,016 | 28,464 | 30,328 | 27,609 |
| | 小計 | 35,895 | 41,883 | 36,555 | 39,318 | 44,667 | 36,681 | 37,993 | 39,956 | 43,565 | 43,740 |
| シラス | 東部 | 8,974 | 9,509 | 16,155 | 16,797 | 18,106 | 25,999 | 13,429 | 24,453 | 21,899 | 19,475 |
| | 西部 | 11,624 | 8,901 | 10,184 | 11,065 | 9,080 | 10,556 | 6,353 | 8,595 | 8,033 | 6,816 |
| | 小計 | 20,598 | 18,410 | 26,339 | 27,862 | 27,186 | 36,555 | 19,782 | 33,048 | 29,932 | 26,291 |
| 合計 | | 56,493 | 60,293 | 62,894 | 67,180 | 71,853 | 73,236 | 57,775 | 73,004 | 73,497 | 70,031 |
| 年 | 2015 | 2016 | 2017 | | | | | | | | |
| カタクチイワシ | 東部 | 11,110 | 12,853 | 14,593 | | | | | | | |
| | 西部 | 30,107 | 29,874 | 29,188 | | | | | | | |
| | 小計 | 41,217 | 42,727 | 43,781 | | | | | | | |
| シラス | 東部 | 20,553 | 24,093 | 18,718 | | | | | | | |
| | 西部 | 6,162 | 7,231 | 6,069 | | | | | | | |
| | 小計 | 26,715 | 31,324 | 24,787 | | | | | | | |
| 合計 | | 67,932 | 74,051 | 68,568 | | | | | | | |

東部は備讃瀬戸以東、西部は燧灘以西の海域。

2017年は概数値、2010年以降の東部西部別の値は推定値。

表3. 瀬戸内海のシラス船びき網漁業における代表漁協と標本船のCPUEの推移

| 年 | 代表漁協 | | 標本船 CPUE (トン／操業回数) |
|------|-------------------|---------------|--------------------------|
| | CPUE (トン／出漁統数) | 平均出漁統数 (統) | |
| 1993 | | | 0.12 |
| 1994 | 0.30 | 1,290 | 0.12 |
| 1995 | 0.32 | 1,303 | 0.14 |
| 1996 | 0.47 | 1,192 | 0.15 |
| 1997 | 0.39 | 1,080 | 0.15 |
| 1998 | 0.37 | 1,086 | 0.11 |
| 1999 | 0.67 | 1,040 | 0.22 |
| 2000 | 0.64 | 1,091 | 0.16 |
| 2001 | 0.47 | 1,164 | 0.15 |
| 2002 | 0.50 | 1,271 | 0.15 |
| 2003 | 0.56 | 1,158 | 0.22 |
| 2004 | 0.61 | 879 | 0.19 |
| 2005 | 0.32 | 1,009 | 0.15 |
| 2006 | 0.36 | 1,040 | 0.13 |
| 2007 | 0.42 | 1,227 | 0.18 |
| 2008 | 0.47 | 1,123 | 0.17 |
| 2009 | 0.43 | 1,107 | 0.24 |
| 2010 | 0.67 | 1,171 | 0.21 |
| 2011 | 0.44 | 842 | 0.17 |
| 2012 | 0.54 | 1,138 | 0.22 |
| 2013 | 0.58 | 851 | 0.24 |
| 2014 | 0.55 | 875 | 0.17 |
| 2015 | 0.43 | 1,037 | 0.17 |
| 2016 | 0.54 | 1,020 | 0.22 |
| 2017 | 0.45 | 859 | 0.24 |

表4. カタクチイワシ瀬戸内海系群の資源解析結果

| 年 | 漁獲量 (千トン) [*] | 資源量 (千トン) ^{**} | 親魚量 (千トン) ^{***} | 1月齢魚 加入尾数 (兆尾) ^{****} | 漁獲 割合 (%) | 再生産 成功率 (千尾/kg) | 産卵量 (兆粒) |
|------|---------------------------|----------------------------|-----------------------------|--------------------------------------|-----------------|-----------------------|-------------|
| 1980 | | | | | | | 367 |
| 1981 | 81 | 338 | 118 | 0.18 | 24 | 1.6 | 690 |
| 1982 | 100 | 326 | 84 | 0.30 | 31 | 3.6 | 328 |
| 1983 | 124 | 393 | 122 | 0.53 | 31 | 4.3 | 966 |
| 1984 | 108 | 268 | 37 | 0.45 | 40 | 12.1 | 883 |
| 1985 | 149 | 424 | 97 | 0.64 | 35 | 6.6 | 516 |
| 1986 | 142 | 360 | 77 | 0.65 | 40 | 8.4 | 614 |
| 1987 | 72 | 191 | 44 | 0.44 | 38 | 10.0 | 453 |
| 1988 | 100 | 243 | 51 | 0.56 | 41 | 11.1 | 203 |
| 1989 | 76 | 164 | 29 | 0.43 | 46 | 14.8 | 386 |
| 1990 | 64 | 147 | 26 | 0.48 | 44 | 18.3 | 572 |
| 1991 | 78 | 246 | 88 | 0.39 | 32 | 4.5 | 394 |
| 1992 | 54 | 117 | 17 | 0.33 | 46 | 19.6 | 523 |
| 1993 | 52 | 139 | 26 | 0.33 | 37 | 13.1 | 185 |
| 1994 | 44 | 121 | 25 | 0.26 | 37 | 10.1 | 866 |
| 1995 | 44 | 122 | 27 | 0.27 | 37 | 10.0 | 491 |
| 1996 | 44 | 114 | 23 | 0.21 | 39 | 9.0 | 612 |
| 1997 | 42 | 100 | 15 | 0.28 | 42 | 18.8 | 294 |
| 1998 | 37 | 132 | 36 | 0.19 | 28 | 5.3 | 485 |
| 1999 | 60 | 190 | 46 | 0.26 | 31 | 5.8 | 845 |
| 2000 | 71 | 197 | 44 | 0.41 | 36 | 9.2 | 780 |
| 2001 | 62 | 196 | 42 | 0.39 | 31 | 9.1 | 465 |
| 2002 | 78 | 234 | 56 | 0.52 | 34 | 9.3 | 1,146 |
| 2003 | 72 | 207 | 38 | 0.28 | 35 | 7.4 | 741 |
| 2004 | 59 | 176 | 39 | 0.20 | 34 | 5.0 | 711 |
| 2005 | 56 | 179 | 35 | 0.22 | 32 | 6.3 | 516 |
| 2006 | 60 | 214 | 65 | 0.25 | 28 | 3.8 | 829 |
| 2007 | 63 | 188 | 47 | 0.34 | 33 | 7.3 | 546 |
| 2008 | 67 | 382 | 122 | 0.42 | 17 | 3.4 | 717 |
| 2009 | 72 | 343 | 86 | 0.40 | 21 | 4.7 | 748 |
| 2010 | 73 | 244 | 59 | 0.52 | 30 | 8.9 | 970 |
| 2011 | 58 | 257 | 71 | 0.30 | 22 | 4.2 | 853 |
| 2012 | 73 | 253 | 63 | 0.47 | 29 | 7.5 | 753 |
| 2013 | 71 | 258 | 67 | 0.39 | 27 | 5.8 | 889 |
| 2014 | 70 | 265 | 60 | 0.35 | 26 | 5.8 | 1,103 |
| 2015 | 68 | 257 | 66 | 0.33 | 26 | 5.0 | 1,075 |
| 2016 | 74 | 278 | 68 | 0.37 | 27 | 5.5 | 1,135 |
| 2017 | 68 | 307 | 103 | 0.31 | 22 | 3.0 | 1,140 |

* 銘柄「シラス」の漁獲量からマイワシシラスの推定漁獲量を減じているので、一部の年で表2の値と異なる。

** 1~12月の合計を示した。

*** 瀬戸内海での主産卵期は5~10月であるので、5~10月の合計を示した。

**** 5~10月に産卵された個体は6~11月に加入すると考えられるので、6~11月の合計を示した。

表5. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された月齢別漁獲係数

| 年／月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 4～10+月齢の平均値 |
|------|------|------|------|------|------|------|------|------|------|------|-------------|
| 1981 | 0.83 | 0.40 | 0.42 | 0.38 | 0.42 | 0.45 | 0.57 | 0.70 | 0.82 | 0.82 | 0.59 |
| 1982 | 0.86 | 0.34 | 0.32 | 0.26 | 0.30 | 0.35 | 0.49 | 0.72 | 0.95 | 0.95 | 0.57 |
| 1983 | 1.16 | 0.67 | 0.70 | 0.68 | 0.52 | 0.41 | 0.67 | 0.77 | 1.34 | 1.34 | 0.82 |
| 1984 | 1.01 | 0.48 | 0.35 | 0.41 | 0.52 | 0.65 | 0.80 | 0.97 | 1.27 | 1.27 | 0.84 |
| 1985 | 1.27 | 0.68 | 0.58 | 0.51 | 0.59 | 0.75 | 0.79 | 0.72 | 0.74 | 0.74 | 0.69 |
| 1986 | 1.05 | 0.56 | 0.56 | 0.56 | 0.72 | 1.05 | 1.32 | 1.12 | 1.14 | 1.14 | 1.00 |
| 1987 | 1.32 | 0.91 | 0.57 | 0.16 | 0.28 | 0.67 | 0.88 | 0.78 | 1.27 | 1.27 | 0.76 |
| 1988 | 1.22 | 0.74 | 0.42 | 0.41 | 0.47 | 0.54 | 0.59 | 0.74 | 1.24 | 1.24 | 0.75 |
| 1989 | 1.38 | 1.02 | 0.62 | 0.67 | 0.65 | 0.99 | 0.93 | 0.85 | 1.44 | 1.44 | 1.00 |
| 1990 | 1.34 | 0.72 | 0.40 | 0.45 | 0.40 | 0.19 | 0.38 | 0.37 | 0.52 | 0.52 | 0.41 |
| 1991 | 1.62 | 1.09 | 0.31 | 0.26 | 0.23 | 0.22 | 0.43 | 0.55 | 0.69 | 0.69 | 0.44 |
| 1992 | 1.48 | 0.69 | 0.37 | 0.47 | 0.47 | 0.47 | 0.56 | 0.67 | 0.92 | 0.92 | 0.64 |
| 1993 | 1.52 | 0.73 | 0.32 | 0.27 | 0.34 | 0.45 | 0.59 | 0.77 | 0.88 | 0.88 | 0.60 |
| 1994 | 1.56 | 0.86 | 0.36 | 0.35 | 0.36 | 0.25 | 0.34 | 0.50 | 0.93 | 0.93 | 0.52 |
| 1995 | 1.34 | 0.98 | 0.46 | 0.21 | 0.20 | 0.22 | 0.41 | 0.68 | 1.26 | 1.26 | 0.61 |
| 1996 | 1.44 | 0.94 | 0.24 | 0.23 | 0.38 | 0.43 | 0.46 | 0.46 | 0.61 | 0.61 | 0.46 |
| 1997 | 1.43 | 1.01 | 0.48 | 0.22 | 0.18 | 0.51 | 0.51 | 0.59 | 0.91 | 0.91 | 0.55 |
| 1998 | 1.47 | 1.05 | 0.26 | 0.12 | 0.22 | 0.36 | 0.25 | 0.18 | 0.21 | 0.21 | 0.22 |
| 1999 | 1.73 | 0.86 | 0.08 | 0.05 | 0.14 | 0.28 | 0.22 | 0.22 | 0.34 | 0.34 | 0.23 |
| 2000 | 1.36 | 0.75 | 0.32 | 0.17 | 0.16 | 0.21 | 0.29 | 0.29 | 0.42 | 0.42 | 0.28 |
| 2001 | 1.36 | 0.59 | 0.27 | 0.18 | 0.32 | 0.41 | 0.35 | 0.30 | 0.28 | 0.28 | 0.30 |
| 2002 | 1.29 | 0.94 | 0.34 | 0.32 | 0.49 | 0.50 | 0.41 | 0.26 | 0.17 | 0.17 | 0.33 |
| 2003 | 1.17 | 0.92 | 0.33 | 0.23 | 0.20 | 0.14 | 0.17 | 0.23 | 0.34 | 0.34 | 0.24 |
| 2004 | 1.46 | 1.20 | 0.38 | 0.31 | 0.32 | 0.43 | 0.47 | 0.50 | 0.68 | 0.68 | 0.48 |
| 2005 | 0.95 | 0.44 | 0.25 | 0.20 | 0.26 | 0.34 | 0.39 | 0.36 | 0.60 | 0.60 | 0.39 |
| 2006 | 1.16 | 0.79 | 0.36 | 0.19 | 0.20 | 0.30 | 0.50 | 0.61 | 0.88 | 0.88 | 0.51 |
| 2007 | 1.26 | 0.70 | 0.42 | 0.30 | 0.26 | 0.31 | 0.42 | 0.63 | 0.73 | 0.73 | 0.48 |
| 2008 | 1.23 | 0.58 | 0.14 | 0.13 | 0.18 | 0.24 | 0.16 | 0.11 | 0.13 | 0.13 | 0.16 |
| 2009 | 1.46 | 0.53 | 0.24 | 0.09 | 0.19 | 0.19 | 0.18 | 0.25 | 0.40 | 0.40 | 0.24 |
| 2010 | 1.43 | 0.59 | 0.31 | 0.18 | 0.32 | 0.42 | 0.37 | 0.44 | 0.62 | 0.62 | 0.42 |
| 2011 | 1.07 | 0.47 | 0.17 | 0.05 | 0.13 | 0.41 | 0.73 | 0.90 | 1.01 | 1.01 | 0.61 |
| 2012 | 1.36 | 0.69 | 0.31 | 0.36 | 0.36 | 0.32 | 0.28 | 0.31 | 0.35 | 0.35 | 0.33 |
| 2013 | 1.07 | 0.59 | 0.23 | 0.19 | 0.31 | 0.48 | 0.77 | 0.94 | 1.19 | 1.19 | 0.72 |
| 2014 | 1.14 | 0.57 | 0.17 | 0.14 | 0.27 | 0.43 | 0.60 | 0.69 | 0.91 | 0.91 | 0.56 |
| 2015 | 1.29 | 0.55 | 0.18 | 0.18 | 0.24 | 0.31 | 0.42 | 0.49 | 1.02 | 1.02 | 0.52 |
| 2016 | 1.36 | 0.61 | 0.17 | 0.11 | 0.22 | 0.27 | 0.30 | 0.53 | 0.81 | 0.81 | 0.44 |
| 2017 | 1.32 | 0.70 | 0.20 | 0.17 | 0.24 | 0.25 | 0.33 | 0.37 | 0.52 | 0.52 | 0.34 |

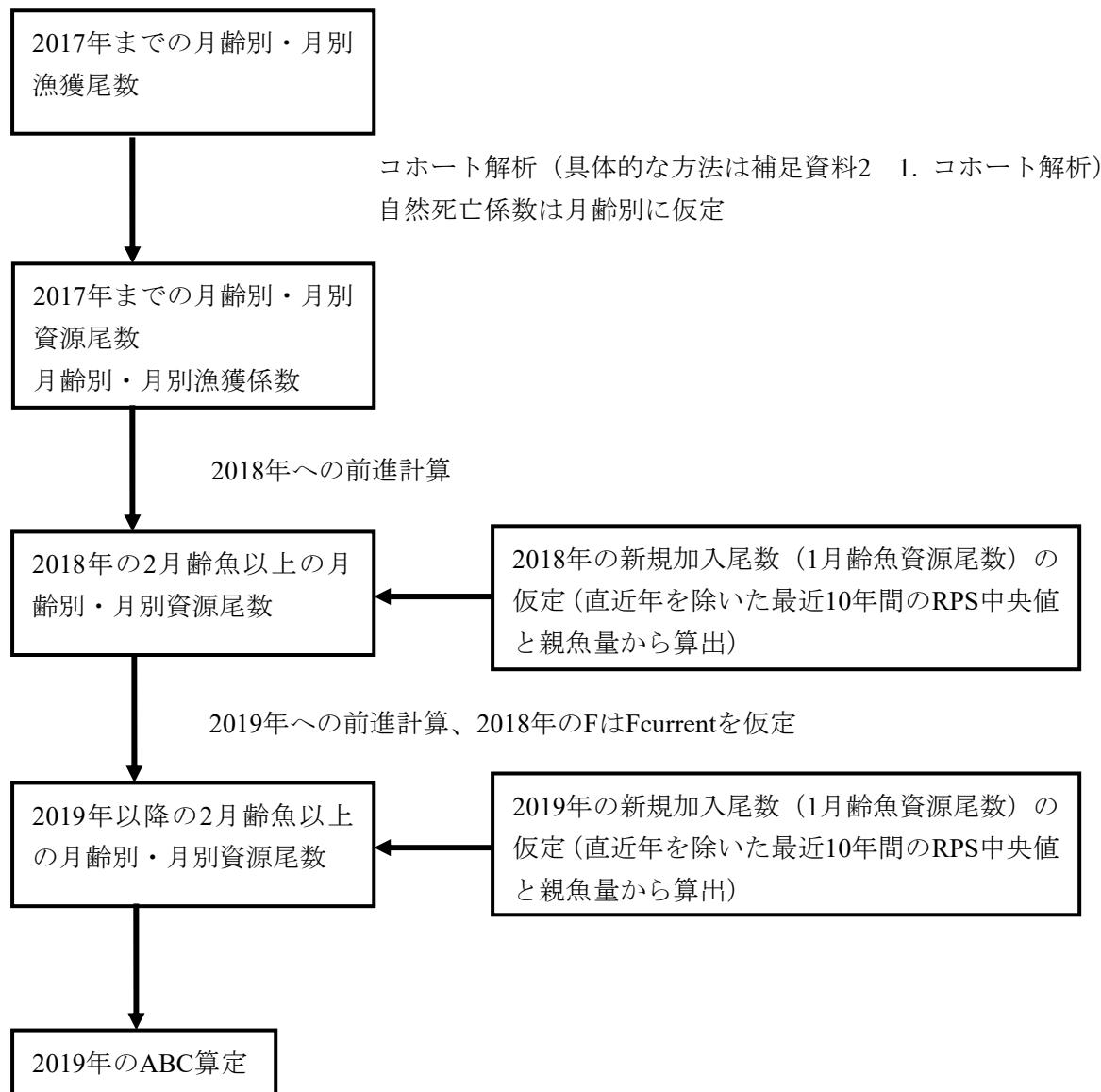
各年の月齢別漁獲係数は各年1～12月の平均値である。

表 6. シラス・カタクチイワシ別の 2019 年 ABClimit と ABCtarget

| 漁獲量(トン) | | | |
|-----------|--------|---------|--------|
| | シラス | カタクチイワシ | 合計 |
| ABCtarget | 32,319 | 52,428 | 84,747 |
| ABClimit | 27,728 | 40,435 | 68,163 |

| 漁獲尾数(10 億尾) | | | |
|-------------|-------|---------|-------|
| | シラス | カタクチイワシ | 合計 |
| ABCtarget | 351.9 | 17.9 | 369.8 |
| ABClimit | 324.4 | 12.4 | 336.8 |

補足資料1 資源評価の流れ



補足資料2 資源計算方法

1. コホート解析

1) 月別月齢別漁獲尾数の推定方法

1981～2017年のカタクチイワシとシラスの月別月齢別漁獲尾数を推定し、コホート解析によって月別月齢別資源尾数を計算した。

カタクチイワシの月別月齢別漁獲尾数は瀬戸内海の海域別漁獲量、各海域の主要漁協における月別漁獲量、月別体長組成と体長－体重関係式から求めた。体長組成から月齢組成への変換は切断法（田中 1985）によった。シラスの月別月齢別漁獲尾数は瀬戸内海の各海域の漁獲量、主要漁協の月別漁獲量、年別瀬戸内海東部西部別の月別月齢別重量組成、および月齢別平均体重（表 1）から求めた。カタクチイワシとシラスの月別月齢別漁獲尾数を合計し、瀬戸内海全体における本種の月別月齢別漁獲尾数とした。シラスの年別瀬戸内海東部西部別の月別月齢別重量組成は 1981～2017 年の各年各月におけるカタクチシラスの全長組成、各海域の主要漁協における月別漁獲量、平均的な全長－体重関係式と月齢別平均体重（表 1）から推定した。漁獲統計ではシラスはカタクチシラス、マイワシシラス等を込みにして「しらす」として報告されている。瀬戸内海で漁獲される「しらす」はカタクチシラスがほとんどであると考えられるが、1970 年代半ばから 1990 年まで、および 1995 年には紀伊水道の春漁でマイワシシラスの割合が増加したことが報告されている（武田 1995a、1995b）。そこで 3～5 月の瀬戸内海東部におけるシラスの漁獲量については、魚種別重量組成から推定したマイワシシラス漁獲量を除いた値を用いた。

2) コホート解析に用いたパラメータ

成長式については以下の式（土井ほか 1978）を用いた。ただし 2 月齢以下の体長については Fukuhara and Takao (1988) から値を読み取った。

$$L_a = 140.1 - 117.8e^{-0.1189a}$$

ここで a は月齢、 L_a は a 月齢魚の体長 (mm) である。平均的な全長－体重関係式については以下を用いた。

$$\begin{aligned} BW &= 5.811 \times 10^{-7} TL^{3.523} && (TL 40 \text{ mm 未満}; R^2 = 0.908, N = 496) \\ BW &= 1.013 \times 10^{-6} TL^{3.396} && (TL 40 \text{ mm 以上}; R^2 = 0.977, N = 31,902) \end{aligned} \quad (1)$$

ここで BW は体重 (g)、 TL は全長 (mm) である。なお (1) 式を体長 L (mm) であらわすと以下のとおりとなる。

$$BW = 2.379 \times 10^{-6} L^{3.319} \quad (R^2 = 0.977, N = 31,902)$$

成長式と読み取り値から求めた各月齢の体長範囲、平均体重を表 1 に示した。また成熟率、Chen and Watanabe (1989) の方法により計算した自然死亡係数 M も表 1 に示した。

3) コホート解析

瀬戸内海では全長 10mm 程度からシラスとして漁獲され始める（辻野・渡 2001、斎浦・東海 2003）。ここでは産卵後 0.5 か月（標準体長 13mm、全長 15mm）で加入すると仮定した。月別月齢別資源尾数は Pope (1972) の近似式を用いて計算した。

$$N_{a,m} = N_{a+1,m+1} e^{\frac{M_a}{2}} + C_{a,m} e^{-\frac{M_a}{2}}$$

$$F_{a,m} = -\ln \left\{ 1 - \frac{C_{a,m} e^{\frac{M_a}{2}}}{N_{a,m}} \right\}$$

ここで $N_{a,m}$ は a 月齢魚 ($a=1 \sim 8$ 月齢) の m 月の資源尾数、 $C_{a,m}$ は a 月齢魚 ($a=1 \sim 8$ 月齢) の m 月の漁獲尾数、 M_a は a 月齢魚の自然死亡係数、 $F_{a,m}$ は a 月齢魚の m 月の漁獲係数である。

10 月齢以上 (24 月齢まで) を一つの月齢群 (10+ 月齢) として扱った。9 月齢と 10+ 月齢魚にかかる漁獲係数は同じであると仮定した。また 9 月齢と 10+ 月齢魚の自然死亡係数も同じであると仮定した。9 月齢魚 m 月の資源尾数 $N_{9,m}$ と 10+ 月齢魚 m 月の資源尾数 $N_{10+,m}$ を以下の式により計算した。

$$N_{9,m} = \frac{C_{9,m}}{C_{10+,m} + C_{9,m}} N_{10+,m+1} e^{\frac{M_9}{2}} + C_{9,m} e^{-\frac{M_9}{2}}$$

$$N_{10+,m} = \frac{C_{10+,m}}{C_{10+,m} + C_{9,m}} N_{10+,m+1} e^{\frac{M_{10+}}{2}} + C_{10+,m} e^{-\frac{M_{10+}}{2}}$$

最近月 (ml 月) の a 月齢魚 ($1 \sim 10+$) の資源尾数 $N_{a,ml}$ については以下の式により計算した。

$$N_{a,ml} = C_{a,ml} e^{\frac{M_a}{2}} \frac{1}{1 - e^{-F_{a,ml}}}$$

ここで $C_{a,ml}$ は a 月齢魚 ($1 \sim 10+$) の最近月 (ml 月) の漁獲尾数、 $F_{a,ml}$ は a 月齢魚 ($1 \sim 10+$) の最近月 (ml 月) の漁獲係数である。1~9 月齢の最近月 (ml 月) の漁獲係数 $F_{a,ml}$ については過去 10 か年の 12 月の F の平均値とした。10+ 月齢魚の最近月 (ml 月) の漁獲係数 $F_{10+,ml}$ は 9 月齢魚の F と等しくなるような値を探索的に求めた。

なお、年間の資源尾数、資源量、親魚量については月別月齢別のそれらを合計することによって求めた。

2. 産卵量

我が国周辺漁業資源調査以前から各府県水産試験研究機関（和歌山県～大分県の11府県）による丸特Bネット、および改良型NORPACネットの鉛直曳きによる卵稚仔調査が実施されており、本調査は産卵期をほぼ網羅するように計画されている。1980年以降に紀伊水道から周防灘で行われた調査の結果を用い、河野・錢谷（2008）に基づいて月別産卵量を算出し、各年1～12月の値を合計して各年の産卵量を推定した。平均孵化日数については服部（1983）の式に従った。卵期の平均生残率については錢谷ほか（1995）の報告中の渡部（未発表）の値0.600を用いた。

3. SPR

SPRの計算には次式を用いた。

$$\text{SPR} = \sum_{a=1}^{10+} fr_a \times N_a \times W_a \times \frac{1}{N_1}$$

ここで fr_a はa月齢魚の成熟率、 N_a はa月齢魚の資源尾数、 W_a はa月齢魚の平均体重(g)である(表1)。

4. YPR

YPRの計算には次式を用いた。

$$\text{YPR} = \sum_{a=1}^{10+} N_a \frac{F_a}{F_a + M_a} \left\{ 1 - e^{-(F_a + M_a)} \right\} \times W_a \times \frac{1}{N_1}$$

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補足資料3 コホート解析で用いた漁獲尾数と推定結果

補足表3-1. カタクチイワシ瀬戸内海系群におけるコホート解析で用いた漁獲尾数（百万尾）

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|--------|-------|-------|-----|-----|-----|-----|-----|---------|---------|
| 1981 | 1 | 1,777 | 383 | 3 | 8 | 33 | 9 | 1 | 0 | 5 | 19 | 2,238 | |
| | 2 | 1,397 | 20 | 0 | 12 | 49 | 14 | 2 | 0 | 0 | 0 | 1,495 | |
| | 3 | 2,416 | 110 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2,529 | |
| | 4 | 8,328 | 259 | 0 | 2 | 7 | 2 | 0 | 0 | 0 | 0 | 8,597 | |
| | 5 | 7,938 | 212 | 0 | 2 | 10 | 33 | 40 | 36 | 60 | 160 | 8,491 | |
| | 6 | 12,284 | 1,929 | 107 | 66 | 14 | 69 | 84 | 80 | 137 | 348 | 15,119 | |
| | 7 | 49,690 | 3,618 | 1,662 | 599 | 92 | 39 | 25 | 22 | 27 | 62 | 55,836 | |
| | 8 | 20,807 | 2,601 | 1,525 | 1,175 | 677 | 388 | 246 | 129 | 68 | 110 | 27,726 | |
| | 9 | 7,887 | 3,426 | 3,188 | 1,221 | 418 | 247 | 295 | 258 | 246 | 364 | 17,551 | |
| | 10 | 9,776 | 1,550 | 946 | 334 | 237 | 131 | 55 | 30 | 7 | 8 | 13,076 | |
| | 11 | 3,181 | 1,121 | 217 | 41 | 22 | 5 | 1 | 0 | 0 | 0 | 4,587 | |
| | 12 | 607 | 267 | 16 | 18 | 7 | 3 | 1 | 0 | 0 | 0 | 920 | 158,165 |
| 1982 | 1 | 57 | 260 | 64 | 7 | 1 | 4 | 6 | 3 | 2 | 0 | 403 | |
| | 2 | 77 | 115 | 29 | 31 | 58 | 37 | 14 | 5 | 2 | 1 | 368 | |
| | 3 | 82 | 5 | 0 | 1 | 16 | 18 | 8 | 3 | 1 | 0 | 133 | |
| | 4 | 15,308 | 320 | 0 | 0 | 0 | 11 | 14 | 8 | 2 | 1 | 15,665 | |
| | 5 | 19,743 | 1,242 | 0 | 56 | 153 | 144 | 73 | 37 | 25 | 26 | 21,498 | |
| | 6 | 56,748 | 5,600 | 943 | 36 | 3 | 27 | 50 | 30 | 12 | 5 | 63,455 | |
| | 7 | 57,939 | 11,980 | 4,508 | 272 | 84 | 34 | 36 | 25 | 32 | 39 | 74,948 | |
| | 8 | 23,382 | 2,439 | 3,700 | 1,580 | 598 | 492 | 323 | 202 | 127 | 98 | 32,941 | |
| | 9 | 9,318 | 2,132 | 2,593 | 1,155 | 481 | 226 | 253 | 196 | 158 | 122 | 16,635 | |
| | 10 | 10,961 | 1,822 | 941 | 696 | 641 | 396 | 218 | 100 | 43 | 13 | 15,831 | |
| | 11 | 14,021 | 1,152 | 96 | 65 | 84 | 53 | 19 | 10 | 4 | 3 | 15,508 | |
| | 12 | 16,519 | 1,182 | 79 | 16 | 28 | 27 | 3 | 2 | 0 | 0 | 17,855 | 275,239 |
| 1983 | 1 | 2,344 | 963 | 1 | 7 | 10 | 6 | 5 | 4 | 2 | 0 | 3,341 | |
| | 2 | 539 | 289 | 0 | 2 | 5 | 3 | 2 | 1 | 1 | 1 | 842 | |
| | 3 | 72 | 10 | 4 | 2 | 1 | 3 | 2 | 13 | 25 | 38 | 170 | |
| | 4 | 6,891 | 652 | 0 | 1 | 7 | 38 | 36 | 12 | 4 | 1 | 7,641 | |
| | 5 | 57,742 | 1,246 | 8 | 93 | 170 | 246 | 126 | 80 | 59 | 27 | 59,798 | |
| | 6 | 123,572 | 6,830 | 59 | 46 | 152 | 160 | 148 | 165 | 185 | 324 | 131,639 | |
| | 7 | 51,881 | 11,959 | 5,426 | 995 | 107 | 21 | 47 | 51 | 57 | 80 | 70,623 | |
| | 8 | 17,423 | 5,790 | 6,048 | 720 | 38 | 15 | 23 | 34 | 3 | 2 | 30,096 | |
| | 9 | 64,666 | 3,608 | 2,622 | 533 | 161 | 112 | 110 | 187 | 263 | 791 | 73,052 | |
| | 10 | 66,236 | 3,491 | 1,297 | 707 | 183 | 47 | 32 | 1 | 1 | 0 | 71,996 | |
| | 11 | 15,425 | 4,287 | 563 | 168 | 36 | 6 | 3 | 2 | 1 | 0 | 20,490 | |
| | 12 | 3,755 | 1,367 | 705 | 253 | 56 | 9 | 3 | 2 | 1 | 0 | 6,151 | 475,840 |
| 1984 | 1 | 2,270 | 822 | 69 | 23 | 22 | 13 | 5 | 2 | 0 | 0 | 3,226 | |
| | 2 | 229 | 220 | 51 | 14 | 7 | 15 | 10 | 6 | 1 | 0 | 553 | |
| | 3 | 241 | 11 | 41 | 17 | 10 | 6 | 3 | 1 | 0 | 0 | 330 | |
| | 4 | 159 | 106 | 17 | 27 | 20 | 6 | 0 | 0 | 0 | 0 | 335 | |
| | 5 | 17,932 | 354 | 3 | 40 | 63 | 35 | 23 | 15 | 5 | 0 | 18,470 | |
| | 6 | 56,516 | 10,818 | 8 | 62 | 177 | 226 | 151 | 75 | 33 | 25 | 68,091 | |
| | 7 | 104,805 | 21,015 | 1,956 | 657 | 123 | 128 | 64 | 22 | 6 | 4 | 128,779 | |
| | 8 | 19,243 | 2,659 | 6,508 | 3,162 | 633 | 92 | 20 | 3 | 3 | 10 | 32,331 | |
| | 9 | 14,802 | 2,053 | 2,136 | 2,267 | 1,376 | 428 | 173 | 116 | 86 | 32 | 23,469 | |
| | 10 | 52,682 | 1,761 | 1,322 | 460 | 370 | 118 | 23 | 7 | 4 | 1 | 56,748 | |
| | 11 | 20,432 | 2,671 | 189 | 208 | 107 | 30 | 3 | 0 | 0 | 0 | 23,642 | |
| | 12 | 13,244 | 2,165 | 116 | 22 | 12 | 3 | 0 | 0 | 0 | 0 | 15,562 | 371,534 |
| 1985 | 1 | 3,716 | 274 | 25 | 9 | 8 | 3 | 1 | 0 | 0 | 0 | 4,035 | |
| | 2 | 705 | 143 | 135 | 9 | 1 | 3 | 4 | 3 | 1 | 0 | 1,003 | |
| | 3 | 437 | 62 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 0 | 511 | |
| | 4 | 12,147 | 731 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,879 | |
| | 5 | 26,045 | 1,494 | 0 | 5 | 16 | 23 | 35 | 31 | 24 | 15 | 27,687 | |
| | 6 | 46,932 | 12,857 | 289 | 17 | 71 | 177 | 201 | 140 | 48 | 18 | 60,748 | |
| | 7 | 139,008 | 19,433 | 4,983 | 458 | 105 | 76 | 31 | 18 | 16 | 52 | 164,179 | |
| | 8 | 37,939 | 9,734 | 7,413 | 796 | 30 | 65 | 165 | 222 | 217 | 712 | 57,292 | |
| | 9 | 56,706 | 2,110 | 13,424 | 980 | 233 | 77 | 27 | 5 | 1 | 2 | 73,565 | |
| | 10 | 64,313 | 3,175 | 2,402 | 2,308 | 1,472 | 508 | 114 | 8 | 4 | 9 | 74,312 | |
| | 11 | 25,165 | 4,013 | 1,038 | 896 | 427 | 76 | 3 | 2 | 1 | 2 | 31,621 | |
| | 12 | 22,284 | 2,099 | 180 | 74 | 36 | 7 | 1 | 0 | 0 | 0 | 24,681 | 532,514 |
| 1986 | 1 | 4,925 | 15 | 21 | 5 | 3 | 6 | 4 | 1 | 0 | 0 | 4,980 | |
| | 2 | 901 | 361 | 24 | 6 | 4 | 2 | 1 | 1 | 0 | 0 | 1,299 | |
| | 3 | 826 | 161 | 61 | 30 | 14 | 8 | 8 | 7 | 4 | 2 | 1,122 | |
| | 4 | 2,422 | 277 | 126 | 63 | 29 | 17 | 18 | 15 | 9 | 4 | 2,979 | |
| | 5 | 37,583 | 2,095 | 0 | 1 | 5 | 11 | 8 | 5 | 0 | 0 | 39,709 | |
| | 6 | 75,801 | 6,391 | 7 | 140 | 593 | 648 | 226 | 45 | 15 | 5 | 83,870 | |
| | 7 | 171,949 | 33,664 | 1,106 | 194 | 115 | 177 | 141 | 73 | 42 | 51 | 207,512 | |
| | 8 | 35,699 | 7,855 | 6,694 | 1,508 | 416 | 237 | 214 | 179 | 110 | 47 | 52,959 | |
| | 9 | 28,868 | 3,190 | 5,916 | 1,781 | 728 | 422 | 251 | 153 | 60 | 29 | 41,399 | |
| | 10 | 59,880 | 4,249 | 2,479 | 800 | 969 | 464 | 142 | 96 | 85 | 27 | 69,191 | |
| | 11 | 9,380 | 2,826 | 779 | 472 | 113 | 75 | 21 | 2 | 1 | 1 | 13,671 | |
| | 12 | 9,415 | 455 | 162 | 36 | 23 | 8 | 2 | 0 | 0 | 0 | 10,100 | 528,792 |
| 1987 | 1 | 724 | 414 | 69 | 10 | 6 | 4 | 0 | 0 | 0 | 0 | 1,227 | |
| | 2 | 223 | 144 | 30 | 72 | 37 | 8 | 0 | 0 | 0 | 0 | 514 | |
| | 3 | 171 | 30 | 4 | 10 | 5 | 1 | 0 | 0 | 0 | 0 | 222 | |
| | 4 | 2,349 | 9 | 0 | 0 | 2 | 21 | 12 | 0 | 0 | 0 | 2,393 | |
| | 5 | 27,230 | 6,878 | 9 | 51 | 208 | 392 | 316 | 71 | 18 | 0 | 35,173 | |
| | 6 | 85,909 | 7,785 | 44 | 66 | 243 | 398 | 347 | 100 | 28 | 1 | 94,922 | |
| | 7 | 114,009 | 10,510 | 2,333 | 47 | 126 | 209 | 140 | 67 | 37 | 28 | 127,505 | |
| | 8 | 21,828 | 2,257 | 1,662 | 57 | 109 | 134 | 186 | 109 | 34 | 6 | 26,382 | |
| | 9 | 60,897 | 3,995 | 492 | 68 | 61 | 95 | 114 | 78 | 35 | 19 | 65,854 | |
| | 10 | 21,244 | 433 | 142 | 31 | 54 | 37 | 14 | 6 | 4 | 1 | 21,966 | |
| | 11 | 3,586 | 556 | 13 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 4,160 | |
| | 12 | 3,614 | 1,012 | 42 | 53 | 2 | 0 | 0 | 0 | 0 | 0 | 4,723 | 385,041 |

補足表 3-1. カタクチイワシ瀬戸内海系群におけるコホート解析で用いた漁獲尾数（百万尾）(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-----|-----|-----|-----|-----|-----|---------|---------|
| 1988 | 1 | 1,730 | 394 | 44 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,172 |
| | 2 | 685 | 226 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 911 |
| | 3 | 40 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| | 4 | 7,857 | 172 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,040 |
| | 5 | 31,667 | 1,191 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32,864 |
| | 6 | 84,901 | 8,176 | 1 | 3 | 11 | 44 | 85 | 97 | 87 | 81 | 0 | 93,484 |
| | 7 | 133,299 | 12,652 | 2,154 | 678 | 65 | 38 | 95 | 77 | 54 | 17 | 149,129 | |
| | 8 | 49,557 | 7,799 | 3,700 | 862 | 226 | 192 | 298 | 286 | 172 | 95 | 63,186 | |
| | 9 | 29,445 | 2,835 | 3,696 | 1,622 | 436 | 62 | 45 | 39 | 19 | 12 | 38,210 | |
| | 10 | 42,287 | 3,830 | 495 | 244 | 216 | 100 | 21 | 5 | 2 | 0 | 47,200 | |
| | 11 | 29,756 | 3,111 | 322 | 280 | 153 | 41 | 10 | 4 | 2 | 0 | 33,679 | |
| | 12 | 2,325 | 1,741 | 139 | 19 | 6 | 2 | 1 | 0 | 0 | 0 | 4,233 | 473,155 |
| 1989 | 1 | 7,787 | 404 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 8,196 |
| | 2 | 295 | 147 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 446 |
| | 3 | 513 | 81 | 1 | 0 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 603 |
| | 4 | 12,774 | 280 | 1 | 1 | 7 | 28 | 17 | 4 | 0 | 0 | 0 | 13,113 |
| | 5 | 41,451 | 3,293 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 3 | 0 | 44,753 |
| | 6 | 108,355 | 16,431 | 0 | 9 | 45 | 35 | 83 | 68 | 60 | 69 | 0 | 125,155 |
| | 7 | 95,849 | 12,660 | 1,151 | 160 | 29 | 37 | 110 | 112 | 67 | 59 | 0 | 110,235 |
| | 8 | 41,252 | 11,893 | 3,283 | 399 | 71 | 36 | 21 | 24 | 58 | 84 | 0 | 57,122 |
| | 9 | 27,823 | 1,380 | 1,730 | 456 | 371 | 115 | 12 | 5 | 7 | 3 | 0 | 31,900 |
| | 10 | 8,544 | 1,863 | 421 | 58 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 10,903 |
| | 11 | 1,397 | 856 | 26 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,304 |
| | 12 | 3,323 | 542 | 63 | 35 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 3,968 |
| 1990 | 1 | 93 | 250 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 349 |
| | 2 | 49 | 56 | 38 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 144 |
| | 3 | 867 | 49 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 923 |
| | 4 | 17,912 | 58 | 0 | 0 | 1 | 23 | 42 | 13 | 3 | 0 | 0 | 18,052 |
| | 5 | 17,431 | 1,066 | 0 | 0 | 1 | 5 | 9 | 5 | 1 | 0 | 0 | 18,518 |
| | 6 | 34,862 | 6,704 | 708 | 134 | 101 | 26 | 7 | 2 | 1 | 3 | 0 | 42,547 |
| | 7 | 176,673 | 14,218 | 1,475 | 198 | 127 | 45 | 26 | 36 | 30 | 15 | 0 | 192,843 |
| | 8 | 47,838 | 7,642 | 1,737 | 752 | 204 | 31 | 33 | 41 | 34 | 112 | 0 | 58,424 |
| | 9 | 14,475 | 1,157 | 753 | 487 | 64 | 8 | 6 | 11 | 19 | 74 | 0 | 17,053 |
| | 10 | 38,059 | 675 | 118 | 58 | 17 | 11 | 14 | 11 | 7 | 6 | 0 | 38,976 |
| | 11 | 17,493 | 1,219 | 96 | 68 | 29 | 6 | 6 | 2 | 1 | 1 | 0 | 18,922 |
| | 12 | 2,763 | 1,000 | 40 | 28 | 12 | 2 | 3 | 1 | 0 | 0 | 0 | 3,849 |
| 1991 | 1 | 751 | 599 | 182 | 123 | 55 | 11 | 13 | 5 | 2 | 2 | 0 | 1,742 |
| | 2 | 512 | 336 | 0 | 1 | 7 | 9 | 4 | 3 | 3 | 2 | 0 | 876 |
| | 3 | 1,036 | 439 | 0 | 1 | 13 | 16 | 8 | 5 | 5 | 3 | 0 | 1,526 |
| | 4 | 21,443 | 4 | 1 | 6 | 7 | 9 | 9 | 6 | 5 | 5 | 0 | 21,496 |
| | 5 | 51,600 | 3,538 | 0 | 1 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 55,147 |
| | 6 | 53,612 | 1,923 | 0 | 0 | 2 | 25 | 69 | 58 | 35 | 41 | 0 | 55,764 |
| | 7 | 129,391 | 15,961 | 104 | 7 | 14 | 61 | 223 | 228 | 152 | 83 | 0 | 146,225 |
| | 8 | 15,516 | 3,878 | 1,329 | 117 | 98 | 172 | 505 | 455 | 248 | 117 | 0 | 22,436 |
| | 9 | 15,225 | 1,577 | 1,167 | 146 | 93 | 102 | 200 | 172 | 103 | 68 | 0 | 18,853 |
| | 10 | 46,096 | 849 | 204 | 188 | 47 | 8 | 18 | 17 | 11 | 8 | 0 | 47,445 |
| | 11 | 6,589 | 959 | 17 | 96 | 87 | 16 | 5 | 5 | 5 | 6 | 0 | 7,786 |
| | 12 | 2,129 | 456 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | 2,596 |
| 1992 | 1 | 687 | 186 | 0 | 6 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 894 |
| | 2 | 148 | 36 | 0 | 4 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 196 |
| | 3 | 7 | 5 | 0 | 8 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 35 |
| | 4 | 10,048 | 32 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 14 | 0 | 10,096 |
| | 5 | 63,894 | 4,450 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 68,351 |
| | 6 | 99,871 | 3,186 | 430 | 27 | 0 | 0 | 4 | 11 | 16 | 40 | 0 | 103,585 |
| | 7 | 64,288 | 7,540 | 1,740 | 113 | 20 | 43 | 42 | 31 | 25 | 46 | 0 | 73,888 |
| | 8 | 16,057 | 1,479 | 1,411 | 1,137 | 255 | 52 | 31 | 18 | 6 | 1 | 0 | 20,448 |
| | 9 | 16,510 | 672 | 749 | 632 | 264 | 85 | 23 | 21 | 13 | 18 | 0 | 18,986 |
| | 10 | 19,872 | 813 | 249 | 208 | 76 | 53 | 39 | 15 | 6 | 5 | 0 | 21,337 |
| | 11 | 12,784 | 1,230 | 95 | 36 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 14,153 |
| | 12 | 2,694 | 938 | 15 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3,653 |
| 1993 | 1 | 2,183 | 974 | 15 | 18 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 3,197 |
| | 2 | 378 | 290 | 36 | 44 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 764 |
| | 3 | 428 | 101 | 22 | 28 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 590 |
| | 4 | 10,016 | 243 | 26 | 7 | 4 | 13 | 18 | 10 | 3 | 2 | 0 | 10,343 |
| | 5 | 47,137 | 555 | 3 | 5 | 2 | 9 | 15 | 12 | 7 | 3 | 0 | 47,750 |
| | 6 | 87,673 | 2,760 | 469 | 6 | 7 | 12 | 15 | 16 | 18 | 24 | 0 | 91,000 |
| | 7 | 62,122 | 8,790 | 1,271 | 202 | 104 | 94 | 121 | 60 | 46 | 77 | 0 | 72,887 |
| | 8 | 26,699 | 1,903 | 1,169 | 432 | 463 | 288 | 71 | 10 | 2 | 5 | 0 | 31,042 |
| | 9 | 7,742 | 1,302 | 179 | 270 | 343 | 218 | 108 | 37 | 11 | 3 | 0 | 10,213 |
| | 10 | 27,244 | 2,248 | 452 | 54 | 38 | 42 | 18 | 8 | 2 | 1 | 0 | 30,105 |
| | 11 | 17,733 | 1,560 | 317 | 220 | 66 | 11 | 7 | 6 | 3 | 0 | 0 | 19,924 |
| | 12 | 10,049 | 345 | 17 | 32 | 32 | 18 | 7 | 3 | 1 | 0 | 0 | 10,504 |
| 1994 | 1 | 896 | 824 | 15 | 8 | 18 | 12 | 5 | 2 | 1 | 0 | 0 | 1,781 |
| | 2 | 292 | 407 | 0 | 0 | 1 | 4 | 7 | 6 | 3 | 1 | 0 | 720 |
| | 3 | 1,666 | 183 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 1,856 |
| | 4 | 17,761 | 365 | 1 | 0 | 1 | 6 | 11 | 10 | 5 | 2 | 0 | 18,162 |
| | 5 | 53,952 | 720 | 1 | 8 | 10 | 10 | 21 | 18 | 15 | 10 | 0 | 54,765 |
| | 6 | 46,243 | 5,009 | 4 | 4 | 11 | 27 | 55 | 61 | 62 | 97 | 0 | 51,573 |
| | 7 | 43,094 | 5,188 | 732 | 135 | 100 | 74 | 77 | 83 | 74 | 86 | 0 | 49,643 |
| | 8 | 28,275 | 2,390 | 866 | 468 | 208 | 44 | 40 | 35 | 21 | 6 | 0 | 32,353 |
| | 9 | 42,308 | 2,206 | 357 | 297 | 109 | 27 | 13 | 8 | 7 | 1 | 0 | 45,333 |
| | 10 | 12,692 | 1,154 | 461 | 141 | 42 | 11 | 9 | 7 | 4 | 1 | 0 | 14,522 |
| | 11 | 5,670 | 658 | 154 | 12 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 6,498 |
| | 12 | 1,782 | 289 | 61 | 5 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 2,142 |
| | | | | | | | | | | | | 0 | 279,349 |

補足表 3-1. カタクチイワシ瀬戸内海系群におけるコホート解析で用いた漁獲尾数（百万尾）(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-----|-----|-----|-----|----|-----|---------|---------|
| 1995 | 1 | 848 | 438 | 8 | 14 | 11 | 10 | 2 | 1 | 1 | 1 | 1,333 | |
| | 2 | 1,433 | 311 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1,751 | |
| | 3 | 9,246 | 510 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 9,764 | |
| | 4 | 3,028 | 45 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 3,084 | |
| | 5 | 19,148 | 92 | 4 | 7 | 5 | 5 | 1 | 0 | 0 | 0 | 19,263 | |
| | 6 | 62,148 | 3,609 | 59 | 3 | 2 | 14 | 50 | 45 | 38 | 73 | 66,041 | |
| | 7 | 50,631 | 7,166 | 341 | 126 | 68 | 82 | 123 | 179 | 59 | 70 | 58,845 | |
| | 8 | 19,794 | 5,791 | 1,168 | 588 | 304 | 168 | 72 | 6 | 1 | 0 | 27,893 | |
| | 9 | 29,399 | 2,700 | 464 | 88 | 73 | 43 | 40 | 31 | 20 | 4 | 32,862 | |
| | 10 | 10,219 | 2,102 | 117 | 3 | 4 | 6 | 14 | 11 | 5 | 0 | 12,481 | |
| | 11 | 4,209 | 1,432 | 65 | 0 | 0 | 3 | 14 | 12 | 5 | 0 | 5,741 | |
| | 12 | 2,778 | 884 | 455 | 5 | 0 | 2 | 12 | 10 | 5 | 0 | 4,153 | 243,209 |
| 1996 | 1 | 1,010 | 409 | 4 | 2 | 3 | 3 | 6 | 5 | 3 | 2 | 1,448 | |
| | 2 | 594 | 290 | 1 | 4 | 6 | 6 | 10 | 8 | 5 | 3 | 926 | |
| | 3 | 997 | 15 | 0 | 3 | 4 | 4 | 8 | 6 | 4 | 2 | 1,043 | |
| | 4 | 22,104 | 120 | 0 | 4 | 6 | 6 | 11 | 8 | 6 | 3 | 22,269 | |
| | 5 | 67,076 | 943 | 7 | 18 | 37 | 44 | 24 | 8 | 2 | 1 | 68,160 | |
| | 6 | 37,088 | 1,767 | 0 | 2 | 20 | 22 | 19 | 15 | 16 | 52 | 39,001 | |
| | 7 | 55,940 | 6,906 | 525 | 91 | 112 | 79 | 75 | 42 | 35 | 60 | 63,865 | |
| | 8 | 19,801 | 3,259 | 1,612 | 472 | 357 | 180 | 107 | 42 | 22 | 12 | 25,864 | |
| | 9 | 12,847 | 1,524 | 403 | 258 | 218 | 102 | 42 | 15 | 5 | 4 | 15,419 | |
| | 10 | 5,964 | 1,028 | 18 | 82 | 87 | 40 | 8 | 3 | 1 | 1 | 7,231 | |
| | 11 | 4,205 | 766 | 3 | 14 | 16 | 9 | 2 | 1 | 0 | 0 | 5,016 | |
| | 12 | 3,217 | 1,238 | 5 | 23 | 24 | 12 | 3 | 1 | 0 | 0 | 4,523 | 254,766 |
| 1997 | 1 | 2,524 | 778 | 1 | 6 | 10 | 14 | 9 | 4 | 1 | 2 | 3,350 | |
| | 2 | 297 | 314 | 1 | 3 | 5 | 7 | 4 | 2 | 1 | 1 | 636 | |
| | 3 | 1,139 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1,144 | |
| | 4 | 20,413 | 7 | 0 | 3 | 5 | 6 | 4 | 2 | 1 | 1 | 20,441 | |
| | 5 | 22,657 | 1,045 | 1 | 8 | 13 | 17 | 11 | 6 | 2 | 3 | 23,762 | |
| | 6 | 68,056 | 2,633 | 0 | 4 | 33 | 69 | 52 | 53 | 46 | 59 | 71,006 | |
| | 7 | 64,184 | 8,559 | 336 | 249 | 45 | 13 | 5 | 4 | 3 | 5 | 73,401 | |
| | 8 | 22,899 | 4,250 | 1,693 | 475 | 378 | 86 | 8 | 6 | 4 | 7 | 29,807 | |
| | 9 | 2,499 | 1,690 | 365 | 69 | 37 | 15 | 5 | 1 | 0 | 0 | 4,681 | |
| | 10 | 18,382 | 1,792 | 280 | 12 | 1 | 49 | 61 | 22 | 8 | 1 | 20,607 | |
| | 11 | 8,131 | 1,890 | 43 | 0 | 0 | 19 | 23 | 8 | 3 | 0 | 10,118 | |
| | 12 | 2,133 | 740 | 61 | 0 | 1 | 16 | 19 | 7 | 3 | 0 | 2,980 | 261,934 |
| 1998 | 1 | 650 | 449 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 14 | 1,116 | |
| | 2 | 90 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 156 | |
| | 3 | 4,162 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 16 | 4,182 | |
| | 4 | 33,555 | 284 | 0 | 0 | 2 | 2 | 4 | 2 | 2 | 1 | 33,853 | |
| | 5 | 34,737 | 1,028 | 0 | 2 | 7 | 10 | 18 | 11 | 10 | 5 | 35,826 | |
| | 6 | 25,679 | 2,947 | 91 | 5 | 8 | 10 | 20 | 18 | 22 | 45 | 28,844 | |
| | 7 | 50,905 | 5,355 | 256 | 82 | 290 | 189 | 62 | 19 | 21 | 34 | 57,215 | |
| | 8 | 12,580 | 2,407 | 499 | 192 | 176 | 119 | 38 | 6 | 3 | 32 | 16,052 | |
| | 9 | 4,440 | 613 | 97 | 37 | 64 | 74 | 19 | 6 | 3 | 5 | 5,358 | |
| | 10 | 28,270 | 1,061 | 152 | 60 | 81 | 84 | 25 | 8 | 5 | 28 | 29,773 | |
| | 11 | 7,509 | 1,764 | 123 | 47 | 46 | 35 | 10 | 2 | 1 | 7 | 9,544 | |
| | 12 | 5,187 | 1,307 | 1 | 0 | 10 | 16 | 4 | 2 | 1 | 0 | 6,528 | 228,448 |
| 1999 | 1 | 1,264 | 1,280 | 3 | 0 | 0 | 0 | 1 | 2 | 1 | 12 | 2,563 | |
| | 2 | 450 | 48 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 18 | 523 | |
| | 3 | 3,775 | 191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3,971 | |
| | 4 | 64,031 | 36 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 12 | 64,084 | |
| | 5 | 174,855 | 1,736 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 6 | 176,599 | |
| | 6 | 95,140 | 4,516 | 128 | 7 | 39 | 98 | 74 | 33 | 20 | 76 | 100,130 | |
| | 7 | 36,427 | 5,937 | 560 | 221 | 64 | 74 | 38 | 24 | 19 | 42 | 43,404 | |
| | 8 | 21,044 | 3,658 | 658 | 207 | 98 | 42 | 47 | 39 | 30 | 38 | 25,861 | |
| | 9 | 10,485 | 497 | 7 | 13 | 61 | 98 | 52 | 40 | 25 | 14 | 11,292 | |
| | 10 | 14,723 | 1,216 | 6 | 26 | 171 | 277 | 97 | 47 | 27 | 15 | 16,604 | |
| | 11 | 4,759 | 643 | 5 | 20 | 131 | 215 | 80 | 41 | 23 | 13 | 5,930 | |
| | 12 | 993 | 388 | 1 | 6 | 40 | 64 | 21 | 11 | 6 | 3 | 1,533 | 452,493 |
| 2000 | 1 | 706 | 296 | 0 | 0 | 0 | 0 | 1 | 5 | 9 | 31 | 1,049 | |
| | 2 | 405 | 407 | 1 | 0 | 0 | 0 | 2 | 8 | 15 | 50 | 889 | |
| | 3 | 3,610 | 37 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 13 | 3,667 | |
| | 4 | 25,310 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 25,324 | |
| | 5 | 54,551 | 2,081 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 56,638 | |
| | 6 | 133,623 | 4,635 | 2 | 1 | 17 | 48 | 38 | 27 | 42 | 112 | 138,546 | |
| | 7 | 102,921 | 10,084 | 1,466 | 394 | 57 | 24 | 8 | 4 | 8 | 17 | 114,985 | |
| | 8 | 32,415 | 2,620 | 2,702 | 840 | 323 | 103 | 73 | 37 | 26 | 57 | 39,197 | |
| | 9 | 5,260 | 1,144 | 1,020 | 225 | 210 | 225 | 192 | 111 | 56 | 24 | 8,467 | |
| | 10 | 7,609 | 673 | 67 | 168 | 206 | 214 | 127 | 42 | 22 | 19 | 9,147 | |
| | 11 | 1,828 | 1,104 | 110 | 17 | 17 | 18 | 11 | 4 | 2 | 2 | 3,113 | |
| | 12 | 3,082 | 984 | 10 | 6 | 4 | 4 | 2 | 1 | 0 | 0 | 4,094 | 405,116 |
| 2001 | 1 | 1,406 | 922 | 19 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 2,351 | |
| | 2 | 497 | 580 | 224 | 4 | 9 | 11 | 8 | 5 | 3 | 4 | 1,347 | |
| | 3 | 1,988 | 174 | 70 | 1 | 3 | 4 | 3 | 2 | 1 | 1 | 2,247 | |
| | 4 | 6,566 | 106 | 0 | 0 | 1 | 3 | 1 | 0 | 1 | 4 | 6,681 | |
| | 5 | 22,478 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22,622 | |
| | 6 | 111,860 | 2,227 | 5 | 0 | 1 | 3 | 9 | 19 | 26 | 61 | 114,212 | |
| | 7 | 82,480 | 13,165 | 1,585 | 287 | 240 | 164 | 42 | 50 | 47 | 62 | 98,123 | |
| | 8 | 42,423 | 2,338 | 1,615 | 1,167 | 877 | 412 | 107 | 59 | 37 | 93 | 49,128 | |
| | 9 | 6,423 | 915 | 633 | 383 | 326 | 146 | 43 | 17 | 10 | 26 | 8,923 | |
| | 10 | 8,865 | 926 | 210 | 118 | 206 | 106 | 41 | 8 | 2 | 5 | 10,487 | |
| | 11 | 11,968 | 206 | 42 | 22 | 42 | 22 | 8 | 1 | 0 | 0 | 12,313 | |
| | 12 | 2,810 | 895 | 13 | 3 | 6 | 3 | 1 | 0 | 0 | 0 | 3,733 | 332,166 |

補足表 3-1. カタクチイワシ瀬戸内海系群におけるコホート解析で用いた漁獲尾数（百万尾）(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| 2002 | 1 | 950 | 732 | 65 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,752 |
| | 2 | 143 | 422 | 120 | 62 | 35 | 24 | 7 | 2 | 0 | 0 | 0 | 816 |
| | 3 | 19 | 670 | 131 | 60 | 29 | 7 | 0 | 0 | 0 | 0 | 0 | 916 |
| | 4 | 10,462 | 37 | 0 | 0 | 1 | 5 | 5 | 4 | 2 | 3 | 0 | 10,519 |
| | 5 | 13,242 | 1,179 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 14,426 |
| | 6 | 97,099 | 3,403 | 8 | 5 | 28 | 44 | 28 | 29 | 31 | 157 | 0 | 100,832 |
| | 7 | 53,337 | 11,577 | 1,511 | 914 | 440 | 223 | 88 | 22 | 10 | 74 | 0 | 68,196 |
| | 8 | 34,966 | 2,323 | 1,001 | 796 | 843 | 403 | 152 | 57 | 27 | 26 | 0 | 40,595 |
| | 9 | 92,570 | 4,163 | 498 | 351 | 319 | 145 | 45 | 24 | 27 | 76 | 0 | 98,219 |
| | 10 | 62,342 | 6,665 | 131 | 55 | 48 | 24 | 8 | 2 | 1 | 8 | 0 | 69,283 |
| | 11 | 13,757 | 2,533 | 346 | 161 | 119 | 17 | 5 | 2 | 1 | 9 | 0 | 16,949 |
| | 12 | 2,934 | 1,439 | 250 | 105 | 72 | 5 | 0 | 0 | 0 | 0 | 0 | 4,805 |
| 2003 | 1 | 626 | 447 | 66 | 20 | 11 | 2 | 0 | 0 | 0 | 1 | 0 | 1,173 |
| | 2 | 128 | 246 | 51 | 0 | 2 | 14 | 14 | 15 | 17 | 14 | 0 | 504 |
| | 3 | 342 | 22 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 9 | 0 | 381 |
| | 4 | 55,584 | 2,048 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 57,636 |
| | 5 | 108,820 | 2,388 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111,209 |
| | 6 | 44,795 | 11,549 | 358 | 13 | 3 | 6 | 20 | 41 | 49 | 108 | 0 | 56,942 |
| | 7 | 60,017 | 13,510 | 1,630 | 315 | 99 | 30 | 9 | 8 | 7 | 8 | 0 | 75,634 |
| | 8 | 18,399 | 6,676 | 1,941 | 606 | 239 | 97 | 35 | 8 | 3 | 6 | 0 | 28,010 |
| | 9 | 12,208 | 1,503 | 806 | 262 | 99 | 65 | 66 | 56 | 47 | 84 | 0 | 15,196 |
| | 10 | 20,101 | 3,539 | 376 | 51 | 131 | 192 | 95 | 34 | 11 | 11 | 0 | 24,541 |
| | 11 | 5,652 | 1,697 | 247 | 183 | 74 | 6 | 0 | 0 | 0 | 0 | 0 | 7,860 |
| | 12 | 7,550 | 1,245 | 186 | 145 | 71 | 5 | 0 | 0 | 0 | 0 | 0 | 9,202 |
| 2004 | 1 | 3,465 | 1,118 | 105 | 23 | 19 | 13 | 7 | 3 | 1 | 1 | 0 | 4,755 |
| | 2 | 1,837 | 689 | 134 | 33 | 29 | 21 | 11 | 5 | 2 | 1 | 0 | 2,763 |
| | 3 | 699 | 31 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 0 | 738 |
| | 4 | 100,174 | 1,134 | 12 | 4 | 4 | 1 | 0 | 0 | 0 | 20 | 0 | 101,347 |
| | 5 | 55,376 | 3,943 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 59,328 |
| | 6 | 31,927 | 2,606 | 402 | 16 | 3 | 7 | 46 | 103 | 127 | 258 | 0 | 35,494 |
| | 7 | 35,097 | 11,682 | 915 | 96 | 7 | 4 | 20 | 40 | 31 | 89 | 0 | 47,982 |
| | 8 | 28,461 | 2,592 | 948 | 380 | 200 | 76 | 29 | 26 | 25 | 94 | 0 | 32,830 |
| | 9 | 7,488 | 4,163 | 298 | 129 | 102 | 105 | 55 | 28 | 18 | 10 | 0 | 12,397 |
| | 10 | 9,897 | 2,342 | 360 | 274 | 116 | 31 | 3 | 2 | 1 | 1 | 0 | 13,027 |
| | 11 | 960 | 620 | 101 | 99 | 44 | 11 | 0 | 0 | 0 | 0 | 0 | 1,834 |
| | 12 | 3,894 | 573 | 37 | 39 | 19 | 9 | 4 | 2 | 1 | 1 | 0 | 4,579 |
| 2005 | 1 | 884 | 309 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,196 |
| | 2 | 71 | 57 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 132 |
| | 3 | 675 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 762 |
| | 4 | 17,428 | 167 | 7 | 2 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 17,613 |
| | 5 | 21,539 | 601 | 0 | 0 | 1 | 2 | 5 | 5 | 6 | 9 | 0 | 22,167 |
| | 6 | 41,862 | 7,178 | 137 | 43 | 50 | 24 | 24 | 23 | 25 | 60 | 0 | 49,426 |
| | 7 | 43,113 | 10,261 | 1,006 | 238 | 148 | 99 | 50 | 14 | 12 | 18 | 0 | 54,959 |
| | 8 | 27,899 | 2,303 | 1,894 | 672 | 483 | 301 | 114 | 56 | 28 | 21 | 0 | 33,772 |
| | 9 | 4,565 | 429 | 1,275 | 528 | 55 | 58 | 64 | 51 | 40 | 24 | 0 | 7,088 |
| | 10 | 2,714 | 547 | 614 | 128 | 95 | 28 | 27 | 35 | 31 | 34 | 0 | 4,252 |
| | 11 | 7,497 | 1,116 | 233 | 155 | 373 | 278 | 96 | 19 | 15 | 9 | 0 | 9,791 |
| | 12 | 5,411 | 1,078 | 291 | 97 | 165 | 122 | 42 | 2 | 1 | 0 | 0 | 7,212 |
| 2006 | 1 | 1,616 | 136 | 0 | 11 | 157 | 75 | 2 | 0 | 0 | 0 | 0 | 1,997 |
| | 2 | 142 | 1,262 | 768 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2,182 |
| | 3 | 571 | 59 | 0 | 0 | 9 | 23 | 21 | 12 | 4 | 698 | 0 | 698 |
| | 4 | 13,149 | 45 | 0 | 0 | 0 | 10 | 29 | 28 | 21 | 13 | 0 | 13,295 |
| | 5 | 20,258 | 335 | 3 | 7 | 10 | 14 | 17 | 8 | 6 | 30 | 0 | 20,687 |
| | 6 | 37,324 | 294 | 22 | 45 | 60 | 77 | 118 | 93 | 56 | 55 | 0 | 38,143 |
| | 7 | 39,569 | 11,920 | 636 | 61 | 24 | 25 | 68 | 76 | 61 | 76 | 0 | 52,516 |
| | 8 | 32,288 | 3,389 | 1,322 | 173 | 52 | 68 | 126 | 101 | 83 | 273 | 0 | 37,876 |
| | 9 | 15,231 | 1,758 | 770 | 341 | 296 | 272 | 141 | 78 | 27 | 39 | 0 | 18,954 |
| | 10 | 13,939 | 6,009 | 28 | 32 | 167 | 168 | 91 | 29 | 9 | 1 | 0 | 20,473 |
| | 11 | 7,921 | 469 | 55 | 12 | 40 | 66 | 43 | 14 | 7 | 2 | 0 | 8,629 |
| | 12 | 2,113 | 678 | 737 | 41 | 8 | 18 | 14 | 5 | 3 | 1 | 0 | 3,618 |
| 2007 | 1 | 1,484 | 1,606 | 107 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 3,204 |
| | 2 | 1,178 | 664 | 233 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,075 |
| | 3 | 3,109 | 58 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,170 |
| | 4 | 13,999 | 566 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 14,571 |
| | 5 | 21,246 | 959 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 22,213 |
| | 6 | 80,394 | 4,090 | 36 | 0 | 2 | 10 | 22 | 28 | 24 | 25 | 0 | 84,632 |
| | 7 | 64,201 | 7,530 | 848 | 123 | 13 | 37 | 62 | 57 | 69 | 206 | 0 | 73,147 |
| | 8 | 44,412 | 3,805 | 2,449 | 657 | 222 | 135 | 168 | 107 | 86 | 55 | 0 | 52,095 |
| | 9 | 4,099 | 2,312 | 1,697 | 766 | 227 | 232 | 198 | 98 | 37 | 18 | 0 | 9,683 |
| | 10 | 9,303 | 2,109 | 303 | 152 | 116 | 28 | 8 | 6 | 1 | 1 | 0 | 12,024 |
| | 11 | 22,332 | 1,094 | 151 | 56 | 8 | 1 | 1 | 1 | 0 | 0 | 0 | 23,645 |
| | 12 | 5,503 | 891 | 251 | 0 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 6,655 |
| 2008 | 1 | 354 | 505 | 67 | 45 | 13 | 6 | 5 | 0 | 0 | 0 | 0 | 994 |
| | 2 | 23 | 50 | 145 | 96 | 28 | 11 | 10 | 1 | 1 | 1 | 0 | 365 |
| | 3 | 2,654 | 121 | 118 | 78 | 24 | 9 | 8 | 1 | 1 | 1 | 0 | 3,015 |
| | 4 | 2,533 | 108 | 0 | 2 | 11 | 26 | 21 | 8 | 4 | 11 | 0 | 2,725 |
| | 5 | 8,191 | 186 | 0 | 0 | 0 | 5 | 14 | 8 | 3 | 2 | 0 | 8,409 |
| | 6 | 59,207 | 1,889 | 19 | 42 | 73 | 70 | 76 | 95 | 90 | 70 | 0 | 61,632 |
| | 7 | 82,458 | 10,221 | 1,093 | 356 | 184 | 79 | 43 | 35 | 34 | 69 | 0 | 94,571 |
| | 8 | 15,314 | 4,222 | 1,140 | 378 | 580 | 335 | 138 | 84 | 87 | 95 | 0 | 22,372 |
| | 9 | 43,328 | 376 | 429 | 529 | 288 | 204 | 140 | 51 | 22 | 31 | 0 | 45,397 |
| | 10 | 64,706 | 4,062 | 71 | 116 | 268 | 190 | 57 | 10 | 2 | 2 | 0 | 69,483 |
| | 11 | 15,045 | 1,786 | 5 | 31 | 169 | 84 | 20 | 2 | 0 | 0 | 0 | 17,144 |
| | 12 | 4,428 | 1,430 | 4 | 4 | 13 | 15 | 8 | 2 | 0 | 0 | 0 | 5,906 |
| | | | | | | | | | | | | 0 | 332,014 |

補足表 3-1. カタクチイワシ瀬戸内海系群におけるコホート解析で用いた漁獲尾数（百万尾）(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---------|---------|
| 2009 | 1 | 1,769 | 134 | 7 | 12 | 7 | 4 | 3 | 1 | 0 | 37 | 1,974 | |
| | 2 | 326 | 165 | 7 | 12 | 7 | 4 | 5 | 3 | 2 | 24 | 554 | |
| | 3 | 237 | 9 | 0 | 0 | 0 | 0 | 1 | 3 | 9 | 27 | 286 | |
| | 4 | 15,064 | 79 | 0 | 0 | 1 | 1 | 5 | 10 | 15 | 95 | 15,270 | |
| | 5 | 54,807 | 483 | 0 | 0 | 1 | 1 | 3 | 7 | 13 | 67 | 55,381 | |
| | 6 | 85,911 | 1,835 | 24 | 0 | 1 | 3 | 21 | 75 | 178 | 597 | 88,645 | |
| | 7 | 83,296 | 7,992 | 1,442 | 52 | 105 | 253 | 180 | 98 | 60 | 185 | 93,663 | |
| | 8 | 62,549 | 4,345 | 2,258 | 203 | 60 | 60 | 93 | 96 | 67 | 70 | 69,803 | |
| | 9 | 13,409 | 696 | 144 | 420 | 582 | 267 | 67 | 19 | 6 | 5 | 15,615 | |
| | 10 | 23,428 | 3,105 | 70 | 15 | 72 | 77 | 33 | 6 | 1 | 0 | 26,809 | |
| | 11 | 7,002 | 565 | 477 | 76 | 135 | 53 | 8 | 1 | 0 | 0 | 8,318 | |
| | 12 | 5,155 | 795 | 233 | 36 | 66 | 26 | 4 | 0 | 0 | 0 | 6,315 | 382,633 |
| 2010 | 1 | 2,114 | 724 | 194 | 35 | 52 | 22 | 5 | 2 | 1 | 1 | 3,149 | |
| | 2 | 292 | 120 | 189 | 56 | 36 | 22 | 12 | 8 | 3 | 4 | 743 | |
| | 3 | 318 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 345 | |
| | 4 | 10,049 | 186 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 8 | 10,250 | |
| | 5 | 32,554 | 763 | 6 | 1 | 0 | 2 | 4 | 6 | 4 | 24 | 33,364 | |
| | 6 | 109,066 | 4,930 | 20 | 2 | 3 | 25 | 56 | 101 | 142 | 187 | 114,533 | |
| | 7 | 76,465 | 8,341 | 752 | 305 | 46 | 14 | 17 | 30 | 39 | 124 | 86,134 | |
| | 8 | 38,770 | 2,044 | 770 | 561 | 462 | 213 | 133 | 97 | 81 | 80 | 43,210 | |
| | 9 | 28,005 | 855 | 788 | 441 | 528 | 286 | 136 | 60 | 32 | 30 | 31,160 | |
| | 10 | 87,249 | 2,441 | 707 | 45 | 80 | 59 | 22 | 22 | 22 | 19 | 90,666 | |
| | 11 | 28,951 | 3,678 | 403 | 32 | 54 | 39 | 15 | 13 | 13 | 11 | 33,208 | |
| | 12 | 2,089 | 1,172 | 2 | 12 | 73 | 69 | 17 | 3 | 0 | 0 | 3,437 | 450,198 |
| 2011 | 1 | 387 | 587 | 11 | 5 | 6 | 3 | 1 | 0 | 0 | 0 | 1,001 | |
| | 2 | 124 | 159 | 311 | 4 | 5 | 17 | 15 | 8 | 3 | 2 | 647 | |
| | 3 | 939 | 29 | 219 | 3 | 3 | 9 | 8 | 4 | 2 | 1 | 1,218 | |
| | 4 | 1,870 | 94 | 200 | 3 | 14 | 92 | 84 | 44 | 18 | 11 | 2,428 | |
| | 5 | 2,992 | 157 | 182 | 3 | 15 | 100 | 91 | 47 | 19 | 11 | 3,617 | |
| | 6 | 12,711 | 1,556 | 0 | 2 | 34 | 153 | 212 | 158 | 91 | 86 | 15,004 | |
| | 7 | 33,197 | 2,632 | 489 | 41 | 36 | 245 | 318 | 184 | 94 | 142 | 37,377 | |
| | 8 | 111,084 | 1,973 | 1,115 | 360 | 78 | 54 | 69 | 70 | 67 | 80 | 114,949 | |
| | 9 | 14,061 | 1,840 | 538 | 68 | 195 | 138 | 39 | 22 | 40 | 80 | 17,021 | |
| | 10 | 15,745 | 1,882 | 105 | 77 | 346 | 410 | 134 | 34 | 10 | 1 | 18,744 | |
| | 11 | 11,870 | 1,483 | 19 | 63 | 298 | 217 | 46 | 3 | 1 | 0 | 14,002 | |
| | 12 | 7,892 | 1,469 | 0 | 0 | 1 | 8 | 9 | 2 | 0 | 0 | 9,380 | 235,389 |
| 2012 | 1 | 2,910 | 1,858 | 9 | 11 | 7 | 4 | 2 | 1 | 0 | 0 | 4,803 | |
| | 2 | 1,235 | 164 | 34 | 44 | 28 | 17 | 9 | 3 | 1 | 0 | 1,534 | |
| | 3 | 473 | 57 | 0 | 23 | 50 | 16 | 5 | 4 | 3 | 3 | 635 | |
| | 4 | 8,838 | 1,094 | 0 | 15 | 33 | 11 | 4 | 3 | 2 | 3 | 10,002 | |
| | 5 | 8,100 | 322 | 5 | 13 | 24 | 13 | 17 | 16 | 13 | 69 | 8,591 | |
| | 6 | 19,199 | 1,535 | 0 | 3 | 36 | 63 | 54 | 54 | 55 | 205 | 21,205 | |
| | 7 | 66,209 | 7,408 | 560 | 265 | 15 | 45 | 65 | 69 | 70 | 198 | 74,905 | |
| | 8 | 88,049 | 1,725 | 2,949 | 618 | 232 | 168 | 126 | 95 | 66 | 200 | 94,229 | |
| | 9 | 68,949 | 4,538 | 1,070 | 235 | 173 | 51 | 16 | 12 | 7 | 14 | 75,063 | |
| | 10 | 59,846 | 4,170 | 664 | 832 | 130 | 4 | 0 | 0 | 0 | 0 | 65,646 | |
| | 11 | 14,645 | 2,421 | 546 | 373 | 106 | 6 | 0 | 0 | 0 | 0 | 18,097 | |
| | 12 | 5,628 | 1,550 | 67 | 6 | 3 | 5 | 4 | 3 | 1 | 4 | 7,270 | 381,980 |
| 2013 | 1 | 754 | 405 | 178 | 55 | 25 | 10 | 4 | 1 | 2 | 2 | 1,434 | |
| | 2 | 177 | 185 | 160 | 78 | 41 | 4 | 2 | 1 | 1 | 1 | 651 | |
| | 3 | 422 | 227 | 117 | 38 | 15 | 3 | 1 | 1 | 1 | 1 | 827 | |
| | 4 | 2,277 | 163 | 35 | 28 | 17 | 1 | 0 | 0 | 0 | 0 | 2,522 | |
| | 5 | 26,985 | 457 | 268 | 87 | 35 | 6 | 3 | 2 | 3 | 3 | 27,849 | |
| | 6 | 53,054 | 3,416 | 0 | 1 | 40 | 233 | 346 | 151 | 111 | 236 | 57,587 | |
| | 7 | 53,676 | 3,935 | 907 | 65 | 63 | 165 | 270 | 175 | 115 | 121 | 59,491 | |
| | 8 | 33,696 | 4,939 | 1,668 | 893 | 319 | 227 | 136 | 69 | 37 | 48 | 42,031 | |
| | 9 | 72,920 | 4,323 | 543 | 37 | 16 | 79 | 126 | 90 | 39 | 18 | 78,190 | |
| | 10 | 29,570 | 3,210 | 166 | 106 | 236 | 147 | 93 | 29 | 7 | 0 | 33,565 | |
| | 11 | 10,508 | 1,634 | 45 | 142 | 519 | 231 | 63 | 8 | 1 | 0 | 13,152 | |
| | 12 | 6,154 | 3,021 | 87 | 81 | 43 | 29 | 8 | 2 | 0 | 0 | 9,425 | 326,724 |
| 2014 | 1 | 1,136 | 404 | 139 | 147 | 94 | 44 | 17 | 5 | 2 | 0 | 1,988 | |
| | 2 | 198 | 106 | 156 | 171 | 122 | 57 | 27 | 9 | 3 | 0 | 848 | |
| | 3 | 28 | 3 | 4 | 15 | 62 | 160 | 112 | 29 | 16 | 2 | 433 | |
| | 4 | 5,820 | 393 | 4 | 14 | 66 | 196 | 135 | 34 | 20 | 3 | 6,684 | |
| | 5 | 39,961 | 1,699 | 0 | 0 | 2 | 11 | 8 | 2 | 1 | 0 | 41,684 | |
| | 6 | 85,629 | 1,766 | 17 | 5 | 119 | 598 | 655 | 297 | 145 | 31 | 89,262 | |
| | 7 | 60,554 | 4,277 | 399 | 32 | 121 | 170 | 180 | 127 | 110 | 184 | 66,155 | |
| | 8 | 41,087 | 1,328 | 905 | 229 | 154 | 51 | 26 | 14 | 16 | 45 | 43,854 | |
| | 9 | 16,249 | 3,007 | 383 | 350 | 289 | 109 | 29 | 17 | 13 | 17 | 20,462 | |
| | 10 | 21,805 | 4,383 | 730 | 244 | 122 | 53 | 2 | 1 | 0 | 0 | 27,340 | |
| | 11 | 6,137 | 1,316 | 232 | 200 | 242 | 99 | 96 | 57 | 7 | 3 | 8,389 | |
| | 12 | 4,553 | 2,161 | 198 | 148 | 152 | 48 | 76 | 48 | 6 | 2 | 7,393 | 314,491 |
| 2015 | 1 | 2,163 | 1,584 | 37 | 25 | 25 | 12 | 20 | 20 | 13 | 13 | 3,912 | |
| | 2 | 485 | 326 | 19 | 15 | 30 | 30 | 8 | 6 | 3 | 1 | 921 | |
| | 3 | 584 | 85 | 30 | 24 | 49 | 50 | 23 | 28 | 25 | 24 | 921 | |
| | 4 | 6,479 | 34 | 0 | 1 | 3 | 11 | 27 | 37 | 36 | 37 | 6,665 | |
| | 5 | 37,076 | 965 | 0 | 0 | 0 | 1 | 11 | 25 | 47 | 126 | 38,251 | |
| | 6 | 77,665 | 1,690 | 0 | 1 | 19 | 187 | 252 | 205 | 173 | 106 | 80,297 | |
| | 7 | 50,045 | 6,193 | 196 | 17 | 48 | 137 | 199 | 154 | 82 | 56 | 57,127 | |
| | 8 | 40,142 | 3,349 | 270 | 123 | 115 | 131 | 162 | 130 | 87 | 41 | 44,548 | |
| | 9 | 9,773 | 1,604 | 487 | 284 | 413 | 179 | 134 | 68 | 42 | 13 | 12,996 | |
| | 10 | 29,853 | 2,621 | 811 | 207 | 237 | 133 | 18 | 7 | 6 | 0 | 33,894 | |
| | 11 | 12,906 | 1,468 | 550 | 365 | 172 | 127 | 94 | 22 | 7 | 2 | 15,712 | |
| | 12 | 18,735 | 1,052 | 255 | 165 | 68 | 56 | 46 | 10 | 3 | 1 | 20,393 | 315,638 |

補足表 3-1. カタクチイワシ瀬戸内海系群におけるコホート解析で用いた漁獲尾数（百万尾）(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---------|---------|
| 2016 | 1 | 5,801 | 2,667 | 39 | 44 | 35 | 24 | 14 | 5 | 2 | 1 | 8,631 | |
| | 2 | 4,023 | 853 | 10 | 15 | 14 | 7 | 2 | 4 | 13 | 53 | 4,995 | |
| | 3 | 615 | 209 | 0 | 1 | 4 | 4 | 6 | 11 | 20 | 60 | 931 | |
| | 4 | 21,051 | 976 | 0 | 0 | 2 | 2 | 3 | 6 | 12 | 39 | 22,092 | |
| | 5 | 36,632 | 2,094 | 0 | 0 | 1 | 12 | 48 | 61 | 40 | 8 | 38,898 | |
| | 6 | 81,792 | 3,610 | 8 | 9 | 45 | 168 | 231 | 217 | 182 | 93 | 86,356 | |
| | 7 | 38,113 | 5,541 | 846 | 238 | 28 | 33 | 119 | 140 | 116 | 64 | 45,237 | |
| | 8 | 26,151 | 3,352 | 1,027 | 317 | 449 | 224 | 121 | 83 | 42 | 26 | 31,793 | |
| | 9 | 38,993 | 951 | 97 | 94 | 251 | 193 | 126 | 108 | 92 | 54 | 40,959 | |
| | 10 | 37,612 | 3,631 | 274 | 63 | 265 | 195 | 85 | 15 | 2 | 2 | 42,145 | |
| | 11 | 20,263 | 1,477 | 437 | 339 | 355 | 128 | 33 | 26 | 9 | 1 | 23,067 | |
| | 12 | 7,852 | 1,643 | 951 | 33 | 2 | 3 | 3 | 1 | 0 | 0 | 10,488 | 355,593 |
| 2017 | 1 | 1,490 | 2,280 | 43 | 0 | 9 | 26 | 21 | 10 | 10 | 16 | 3,905 | |
| | 2 | 396 | 255 | 8 | 2 | 1 | 8 | 15 | 13 | 14 | 20 | 732 | |
| | 3 | 54 | 11 | 4 | 3 | 2 | 15 | 30 | 25 | 28 | 43 | 215 | |
| | 4 | 6,048 | 238 | 0 | 0 | 1 | 8 | 18 | 14 | 18 | 32 | 6,376 | |
| | 5 | 31,184 | 1,783 | 185 | 11 | 12 | 1 | 1 | 1 | 1 | 0 | 33,180 | |
| | 6 | 102,799 | 3,165 | 380 | 74 | 30 | 84 | 134 | 168 | 154 | 232 | 107,219 | |
| | 7 | 71,991 | 2,785 | 509 | 207 | 102 | 129 | 244 | 355 | 403 | 494 | 77,219 | |
| | 8 | 22,680 | 1,532 | 471 | 390 | 366 | 265 | 200 | 97 | 60 | 84 | 26,145 | |
| | 9 | 10,071 | 637 | 574 | 212 | 167 | 67 | 71 | 40 | 20 | 13 | 11,873 | |
| | 10 | 11,939 | 722 | 33 | 79 | 67 | 33 | 28 | 16 | 12 | 12 | 12,940 | |
| | 11 | 5,068 | 1,416 | 21 | 71 | 92 | 58 | 21 | 8 | 6 | 6 | 6,767 | |
| | 12 | 4,546 | 1,505 | 12 | 42 | 52 | 18 | 10 | 6 | 6 | 6 | 6,203 | 292,775 |

補足表 3-2. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された漁獲係数

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 平均 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1981 | 1 | 0.45 | 0.21 | 0.00 | 0.01 | 0.05 | 0.01 | 0.00 | 0.00 | 0.31 | 0.31 | 0.14 |
| | 2 | 0.35 | 0.01 | 0.00 | 0.02 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| | 3 | 0.45 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| | 4 | 0.88 | 0.10 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| | 5 | 0.52 | 0.06 | 0.00 | 0.00 | 0.01 | 0.06 | 0.12 | 0.11 | 0.25 | 0.25 | 0.14 |
| | 6 | 0.67 | 0.29 | 0.04 | 0.05 | 0.02 | 0.10 | 0.21 | 0.35 | 0.74 | 0.74 | 0.32 |
| | 7 | 1.65 | 0.55 | 0.51 | 0.37 | 0.09 | 0.05 | 0.05 | 0.08 | 0.18 | 0.18 | 0.37 |
| | 8 | 1.31 | 0.40 | 0.56 | 0.94 | 1.00 | 0.67 | 0.57 | 0.36 | 0.34 | 0.34 | 0.65 |
| | 9 | 1.18 | 1.12 | 1.84 | 1.53 | 1.22 | 1.52 | 2.21 | 3.44 | 4.18 | 4.18 | 2.24 |
| | 10 | 1.37 | 1.11 | 1.52 | 1.31 | 2.20 | 2.72 | 3.51 | 3.94 | 3.77 | 3.77 | 2.52 |
| | 11 | 0.91 | 0.70 | 0.50 | 0.22 | 0.25 | 0.22 | 0.07 | 0.09 | 0.03 | 0.03 | 0.30 |
| | 12 | 0.18 | 0.21 | 0.02 | 0.07 | 0.06 | 0.05 | 0.10 | 0.09 | 0.00 | 0.00 | 0.08 |
| 1982 | 1 | 0.02 | 0.14 | 0.08 | 0.01 | 0.00 | 0.04 | 0.12 | 0.31 | 0.40 | 0.40 | 0.15 |
| | 2 | 0.02 | 0.05 | 0.02 | 0.05 | 0.13 | 0.28 | 0.20 | 0.14 | 0.24 | 0.24 | 0.14 |
| | 3 | 0.02 | 0.00 | 0.00 | 0.00 | 0.04 | 0.06 | 0.08 | 0.05 | 0.04 | 0.04 | 0.03 |
| | 4 | 1.01 | 0.10 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.12 | 0.04 | 0.04 | 0.14 |
| | 5 | 0.57 | 0.24 | 0.00 | 0.04 | 0.17 | 0.27 | 0.30 | 0.21 | 0.61 | 0.61 | 0.30 |
| | 6 | 1.02 | 0.39 | 0.33 | 0.02 | 0.00 | 0.04 | 0.14 | 0.19 | 0.09 | 0.09 | 0.23 |
| | 7 | 1.78 | 0.84 | 0.76 | 0.16 | 0.07 | 0.04 | 0.07 | 0.10 | 0.31 | 0.31 | 0.44 |
| | 8 | 1.44 | 0.37 | 0.83 | 0.75 | 0.67 | 0.73 | 0.73 | 0.70 | 0.91 | 0.91 | 0.80 |
| | 9 | 0.85 | 0.59 | 1.09 | 0.74 | 0.56 | 0.59 | 1.10 | 1.52 | 2.90 | 2.90 | 1.28 |
| | 10 | 1.15 | 0.50 | 0.66 | 1.18 | 1.48 | 1.44 | 2.82 | 2.93 | 2.75 | 2.75 | 1.77 |
| | 11 | 1.28 | 0.42 | 0.05 | 0.09 | 0.42 | 0.43 | 0.20 | 2.36 | 2.78 | 2.78 | 1.08 |
| | 12 | 1.13 | 0.40 | 0.05 | 0.01 | 0.05 | 0.23 | 0.03 | 0.02 | 0.37 | 0.37 | 0.27 |
| 1983 | 1 | 0.45 | 0.21 | 0.00 | 0.01 | 0.01 | 0.01 | 0.06 | 0.06 | 0.04 | 0.04 | 0.09 |
| | 2 | 0.22 | 0.11 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.04 |
| | 3 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.61 | 0.61 | 0.13 |
| | 4 | 0.81 | 0.62 | 0.00 | 0.00 | 0.00 | 0.05 | 0.06 | 0.02 | 0.02 | 0.02 | 0.16 |
| | 5 | 1.22 | 0.42 | 0.01 | 0.13 | 0.17 | 0.18 | 0.21 | 0.19 | 0.12 | 0.12 | 0.28 |
| | 6 | 1.56 | 0.55 | 0.03 | 0.12 | 0.32 | 0.25 | 0.16 | 0.46 | 0.83 | 0.83 | 0.51 |
| | 7 | 1.43 | 0.80 | 1.63 | 1.49 | 0.45 | 0.07 | 0.11 | 0.07 | 0.27 | 0.27 | 0.66 |
| | 8 | 1.08 | 0.76 | 1.92 | 1.25 | 0.18 | 0.10 | 0.10 | 0.10 | 0.01 | 0.01 | 0.55 |
| | 9 | 2.25 | 0.94 | 1.26 | 1.11 | 1.23 | 1.29 | 3.71 | 5.03 | 7.68 | 7.68 | 3.22 |
| | 10 | 2.18 | 1.18 | 1.51 | 2.25 | 2.17 | 2.09 | 2.58 | 0.90 | 1.35 | 1.35 | 1.75 |
| | 11 | 1.78 | 1.44 | 0.69 | 0.91 | 0.77 | 0.40 | 0.69 | 1.18 | 1.40 | 1.40 | 1.07 |
| | 12 | 0.89 | 1.07 | 1.29 | 0.87 | 0.97 | 0.45 | 0.37 | 1.17 | 3.72 | 3.72 | 1.45 |
| 1984 | 1 | 0.62 | 0.64 | 0.14 | 0.12 | 0.17 | 0.61 | 0.46 | 0.31 | 1.75 | 1.75 | 0.66 |
| | 2 | 0.10 | 0.13 | 0.08 | 0.04 | 0.05 | 0.17 | 1.68 | 2.00 | 0.43 | 0.43 | 0.51 |
| | 3 | 0.11 | 0.01 | 0.04 | 0.04 | 0.04 | 0.06 | 0.05 | 0.60 | 0.01 | 0.01 | 0.09 |
| | 4 | 0.02 | 0.08 | 0.02 | 0.03 | 0.06 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 |
| | 5 | 0.42 | 0.09 | 0.00 | 0.05 | 0.10 | 0.14 | 0.15 | 0.24 | 0.11 | 0.11 | 0.14 |
| | 6 | 0.73 | 0.65 | 0.00 | 0.09 | 0.36 | 0.68 | 1.52 | 1.04 | 1.16 | 1.16 | 0.74 |
| | 7 | 2.38 | 0.91 | 0.26 | 0.36 | 0.28 | 0.50 | 0.41 | 0.98 | 0.18 | 0.18 | 0.64 |
| | 8 | 1.33 | 0.47 | 1.01 | 0.96 | 0.75 | 0.35 | 0.13 | 0.03 | 0.28 | 0.28 | 0.56 |
| | 9 | 1.44 | 0.59 | 1.09 | 1.59 | 2.23 | 2.64 | 3.02 | 3.28 | 4.48 | 4.48 | 2.48 |
| | 10 | 1.89 | 0.86 | 1.26 | 0.81 | 1.64 | 2.14 | 1.85 | 3.00 | 5.83 | 5.83 | 2.51 |
| | 11 | 1.49 | 0.56 | 0.22 | 0.73 | 0.47 | 0.54 | 0.27 | 0.11 | 0.96 | 0.96 | 0.63 |
| | 12 | 1.55 | 0.79 | 0.05 | 0.04 | 0.08 | 0.02 | 0.00 | 0.01 | 0.01 | 0.01 | 0.26 |
| 1985 | 1 | 0.88 | 0.12 | 0.02 | 0.00 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.11 |
| | 2 | 0.37 | 0.09 | 0.09 | 0.01 | 0.00 | 0.01 | 0.05 | 0.03 | 0.05 | 0.05 | 0.07 |
| | 3 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.01 | 0.01 | 0.03 |
| | 4 | 1.21 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 |
| | 5 | 0.56 | 0.58 | 0.00 | 0.01 | 0.02 | 0.03 | 0.07 | 0.04 | 0.13 | 0.13 | 0.16 |
| | 6 | 0.64 | 0.81 | 0.23 | 0.05 | 0.18 | 0.39 | 0.47 | 0.44 | 0.08 | 0.08 | 0.34 |
| | 7 | 1.32 | 0.81 | 1.10 | 0.79 | 0.57 | 0.30 | 0.11 | 0.07 | 0.08 | 0.08 | 0.52 |
| | 8 | 1.50 | 0.34 | 1.07 | 0.54 | 0.11 | 0.88 | 2.64 | 3.24 | 4.50 | 4.50 | 1.93 |
| | 9 | 2.14 | 0.35 | 1.51 | 0.40 | 0.31 | 0.43 | 1.25 | 0.70 | 0.20 | 0.20 | 0.75 |
| | 10 | 2.28 | 1.00 | 1.04 | 1.60 | 2.72 | 4.26 | 3.86 | 2.14 | 1.75 | 1.75 | 2.24 |
| | 11 | 1.94 | 1.76 | 1.50 | 2.27 | 2.61 | 2.37 | 0.85 | 1.81 | 1.31 | 1.31 | 1.77 |
| | 12 | 2.14 | 1.39 | 0.35 | 0.39 | 0.59 | 0.31 | 0.12 | 0.17 | 0.72 | 0.72 | 0.69 |
| 1986 | 1 | 0.59 | 0.01 | 0.04 | 0.01 | 0.03 | 0.19 | 0.28 | 0.18 | 0.13 | 0.13 | 0.16 |
| | 2 | 0.14 | 0.09 | 0.02 | 0.02 | 0.02 | 0.04 | 0.08 | 0.15 | 0.15 | 0.15 | 0.07 |
| | 3 | 0.18 | 0.04 | 0.02 | 0.03 | 0.05 | 0.04 | 0.11 | 0.43 | 0.75 | 0.75 | 0.24 |
| | 4 | 0.27 | 0.11 | 0.05 | 0.03 | 0.04 | 0.08 | 0.12 | 0.29 | 1.69 | 1.69 | 0.44 |
| | 5 | 1.04 | 0.53 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.04 | 0.01 | 0.01 | 0.17 |
| | 6 | 0.71 | 0.63 | 0.00 | 0.11 | 0.47 | 0.76 | 0.57 | 0.41 | 0.17 | 0.17 | 0.40 |
| | 7 | 2.01 | 1.18 | 0.23 | 0.12 | 0.13 | 0.25 | 0.35 | 0.36 | 0.83 | 0.83 | 0.63 |
| | 8 | 1.42 | 0.59 | 0.97 | 0.64 | 0.45 | 0.43 | 0.53 | 1.04 | 1.46 | 1.46 | 0.90 |
| | 9 | 1.50 | 0.55 | 1.75 | 0.84 | 0.79 | 1.22 | 1.15 | 0.91 | 1.33 | 1.33 | 1.14 |
| | 10 | 2.44 | 1.47 | 1.55 | 1.81 | 2.41 | 2.94 | 3.85 | 4.73 | 4.16 | 4.16 | 2.95 |
| | 11 | 1.26 | 1.36 | 1.85 | 2.67 | 2.53 | 3.49 | 4.80 | 2.03 | 1.50 | 1.50 | 2.30 |
| | 12 | 1.06 | 0.20 | 0.26 | 0.39 | 1.71 | 3.14 | 3.94 | 2.98 | 1.47 | 1.47 | 1.66 |
| 1987 | 1 | 0.16 | 0.13 | 0.05 | 0.02 | 0.11 | 2.52 | 1.24 | 0.03 | 1.70 | 1.70 | 0.77 |
| | 2 | 0.06 | 0.05 | 0.01 | 0.07 | 0.12 | 0.21 | 1.97 | 1.45 | 1.25 | 1.25 | 0.64 |
| | 3 | 0.09 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.28 | 0.22 | 0.22 | 0.08 |
| | 4 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.02 | 0.55 | 0.55 | 0.14 |
| | 5 | 0.95 | 2.34 | 0.01 | 0.04 | 0.19 | 0.49 | 1.01 | 0.66 | 2.13 | 2.13 | 0.99 |
| | 6 | 1.68 | 1.15 | 0.09 | 0.10 | 0.30 | 0.70 | 1.17 | 1.08 | 0.56 | 0.56 | 0.74 |
| | 7 | 3.23 | 1.62 | 2.24 | 0.14 | 0.31 | 0.47 | 0.57 | 0.71 | 1.88 | 1.88 | 1.30 |
| | 8 | 1.45 | 1.29 | 2.12 | 0.31 | 0.55 | 0.63 | 1.05 | 1.26 | 0.99 | 0.99 | 1.07 |
| | 9 | 3.92 | 2.35 | 1.57 | 0.50 | 0.69 | 1.58 | 2.38 | 2.80 | 3.48 | 3.48 | 2.27 |
| | 10 | 2.56 | 0.75 | 0.63 | 0.38 | 1.03 | 1.36 | 1.11 | 1.07 | 2.48 | 2.48 | 1.38 |
| | 11 | 0.74 | 0.64 | 0.05 | 0.02 | 0.03 | 0.04 | 0.02 | 0.01 | 0.02 | 0.02 | 0.16 |
| | 12 | 0.82 | 0.63 | 0.10 | 0.30 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.19 |

補足表 3-2. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された漁獲係数（続き）

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 平均 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1988 | 1 | 0.46 | 0.23 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 |
| | 2 | 0.29 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| | 3 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4 | 0.97 | 0.18 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 |
| | 5 | 0.92 | 0.47 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 |
| | 6 | 1.29 | 0.88 | 0.00 | 0.01 | 0.02 | 0.08 | 0.22 | 0.45 | 1.42 | 1.42 | 0.58 |
| | 7 | 2.00 | 0.90 | 0.71 | 0.94 | 0.19 | 0.09 | 0.23 | 0.31 | 0.47 | 0.47 | 0.63 |
| | 8 | 2.11 | 0.83 | 0.89 | 0.78 | 1.07 | 1.37 | 1.97 | 2.59 | 2.98 | 2.98 | 1.76 |
| | 9 | 1.64 | 0.99 | 1.90 | 1.73 | 1.40 | 1.04 | 1.78 | 3.06 | 4.78 | 4.78 | 2.31 |
| | 10 | 2.09 | 1.71 | 0.52 | 0.68 | 1.51 | 2.01 | 1.45 | 0.92 | 3.72 | 3.72 | 1.83 |
| | 11 | 2.12 | 1.54 | 0.74 | 0.71 | 1.47 | 1.84 | 1.40 | 1.45 | 1.41 | 1.41 | 1.41 |
| | 12 | 0.72 | 1.03 | 0.26 | 0.09 | 0.03 | 0.05 | 0.09 | 0.09 | 0.10 | 0.10 | 0.26 |
| 1989 | 1 | 2.05 | 0.32 | 0.00 | 0.00 | 0.00 | 0.04 | 0.25 | 0.34 | 0.34 | 0.34 | 0.34 |
| | 2 | 0.41 | 0.21 | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.20 | 0.20 | 0.20 | 0.11 |
| | 3 | 0.51 | 0.24 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.01 | 0.00 | 0.00 | 0.08 |
| | 4 | 1.13 | 0.81 | 0.00 | 0.00 | 0.01 | 0.09 | 0.10 | 0.05 | 0.00 | 0.00 | 0.22 |
| | 5 | 0.88 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.03 | 0.26 |
| | 6 | 1.61 | 1.82 | 0.00 | 0.08 | 0.42 | 0.18 | 0.32 | 0.39 | 0.70 | 0.70 | 0.62 |
| | 7 | 1.69 | 1.21 | 0.69 | 0.47 | 0.37 | 0.76 | 1.34 | 0.95 | 0.80 | 0.80 | 0.91 |
| | 8 | 2.63 | 1.75 | 1.85 | 0.60 | 0.41 | 1.22 | 1.55 | 1.37 | 3.64 | 3.64 | 1.87 |
| | 9 | 2.15 | 1.04 | 3.11 | 3.58 | 3.72 | 5.36 | 4.06 | 2.86 | 3.89 | 3.89 | 3.37 |
| | 10 | 1.74 | 1.45 | 1.48 | 2.88 | 2.72 | 3.13 | 1.05 | 1.16 | 3.29 | 3.29 | 2.22 |
| | 11 | 0.48 | 1.23 | 0.06 | 0.29 | 0.06 | 0.49 | 0.76 | 0.90 | 1.42 | 1.42 | 0.71 |
| | 12 | 1.35 | 0.44 | 0.28 | 0.13 | 0.06 | 0.67 | 1.88 | 2.22 | 2.92 | 2.92 | 1.29 |
| 1990 | 1 | 0.12 | 0.39 | 0.00 | 0.01 | 0.01 | 0.02 | 0.86 | 0.23 | 0.45 | 0.45 | 0.25 |
| | 2 | 0.05 | 0.12 | 0.11 | 0.00 | 0.00 | 0.00 | 0.09 | 0.70 | 0.70 | 0.70 | 0.18 |
| | 3 | 0.56 | 0.08 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.07 | 0.07 | 0.08 |
| | 4 | 1.61 | 0.08 | 0.00 | 0.00 | 0.01 | 0.07 | 0.79 | 0.12 | 0.13 | 0.13 | 0.29 |
| | 5 | 0.75 | 0.45 | 0.00 | 0.00 | 0.03 | 0.03 | 0.21 | 0.01 | 0.01 | 0.01 | 0.15 |
| | 6 | 0.84 | 1.05 | 0.72 | 0.42 | 0.53 | 0.19 | 0.06 | 0.01 | 0.03 | 0.03 | 0.39 |
| | 7 | 2.63 | 1.64 | 0.82 | 0.49 | 0.98 | 0.48 | 0.29 | 0.43 | 0.18 | 0.18 | 0.81 |
| | 8 | 2.98 | 1.85 | 1.19 | 1.90 | 1.74 | 0.69 | 0.81 | 0.99 | 0.92 | 0.92 | 1.40 |
| | 9 | 1.95 | 1.14 | 1.31 | 1.83 | 0.94 | 0.25 | 0.28 | 0.66 | 2.31 | 2.31 | 1.30 |
| | 10 | 2.55 | 0.56 | 0.36 | 0.32 | 0.27 | 0.42 | 0.97 | 1.21 | 1.20 | 1.20 | 0.90 |
| | 11 | 1.63 | 0.84 | 0.16 | 0.39 | 0.27 | 0.14 | 0.43 | 0.40 | 0.19 | 0.19 | 0.46 |
| | 12 | 0.44 | 0.44 | 0.06 | 0.07 | 0.11 | 0.03 | 0.08 | 0.08 | 0.04 | 0.04 | 0.14 |
| 1991 | 1 | 0.13 | 0.20 | 0.15 | 0.29 | 0.19 | 0.15 | 0.24 | 0.22 | 0.23 | 0.23 | 0.20 |
| | 2 | 0.10 | 0.10 | 0.00 | 0.00 | 0.03 | 0.04 | 0.07 | 0.07 | 0.19 | 0.19 | 0.08 |
| | 3 | 0.42 | 0.15 | 0.00 | 0.00 | 0.02 | 0.07 | 0.05 | 0.12 | 0.19 | 0.19 | 0.12 |
| | 4 | 1.49 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.05 | 0.16 | 0.16 | 0.19 |
| | 5 | 2.65 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 |
| | 6 | 1.08 | 1.35 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.17 | 0.37 | 0.37 | 0.35 |
| | 7 | 2.66 | 2.03 | 0.24 | 0.02 | 0.02 | 0.07 | 0.28 | 0.48 | 0.86 | 0.86 | 0.75 |
| | 8 | 1.77 | 0.91 | 1.42 | 0.51 | 0.45 | 0.48 | 1.16 | 1.49 | 1.64 | 1.64 | 1.15 |
| | 9 | 2.44 | 1.38 | 0.97 | 0.60 | 1.12 | 1.35 | 2.01 | 2.20 | 2.49 | 2.49 | 1.70 |
| | 10 | 3.31 | 2.13 | 0.76 | 0.42 | 0.40 | 0.24 | 0.95 | 1.06 | 0.95 | 0.95 | 1.12 |
| | 11 | 2.03 | 1.76 | 0.22 | 1.23 | 0.37 | 0.24 | 0.25 | 0.75 | 0.99 | 0.99 | 0.88 |
| | 12 | 1.37 | 1.16 | 0.01 | 0.07 | 0.10 | 0.01 | 0.01 | 0.04 | 0.20 | 0.20 | 0.32 |
| 1992 | 1 | 0.87 | 0.49 | 0.00 | 0.05 | 0.43 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.19 |
| | 2 | 0.25 | 0.12 | 0.00 | 0.03 | 0.10 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| | 3 | 0.01 | 0.01 | 0.00 | 0.05 | 0.14 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| | 4 | 0.73 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.13 | 0.13 | 0.11 |
| | 5 | 1.80 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.06 | 0.32 |
| | 6 | 1.96 | 0.48 | 0.41 | 0.14 | 0.00 | 0.05 | 0.29 | 0.67 | 0.67 | 0.67 | 0.47 |
| | 7 | 2.73 | 1.19 | 0.62 | 0.19 | 0.15 | 0.44 | 0.68 | 0.67 | 2.54 | 2.54 | 1.17 |
| | 8 | 2.28 | 0.68 | 0.90 | 1.31 | 0.93 | 0.71 | 0.64 | 0.71 | 0.26 | 0.26 | 0.87 |
| | 9 | 2.19 | 0.80 | 1.16 | 1.91 | 1.58 | 1.02 | 0.80 | 1.39 | 1.80 | 1.80 | 1.44 |
| | 10 | 2.16 | 0.89 | 0.99 | 1.59 | 2.04 | 3.16 | 4.38 | 4.77 | 5.42 | 5.42 | 3.08 |
| | 11 | 1.92 | 1.26 | 0.27 | 0.38 | 0.19 | 0.15 | 0.09 | 0.11 | 0.08 | 0.08 | 0.45 |
| | 12 | 0.82 | 1.03 | 0.04 | 0.01 | 0.02 | 0.03 | 0.07 | 0.08 | 0.08 | 0.08 | 0.23 |
| 1993 | 1 | 0.97 | 1.16 | 0.04 | 0.07 | 0.03 | 0.01 | 0.04 | 0.02 | 0.04 | 0.04 | 0.24 |
| | 2 | 0.26 | 0.40 | 0.12 | 0.18 | 0.07 | 0.01 | 0.05 | 0.01 | 0.03 | 0.03 | 0.12 |
| | 3 | 0.15 | 0.13 | 0.05 | 0.14 | 0.04 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 |
| | 4 | 1.09 | 0.15 | 0.05 | 0.02 | 0.03 | 0.10 | 0.16 | 0.10 | 0.14 | 0.14 | 0.20 |
| | 5 | 1.79 | 0.18 | 0.00 | 0.01 | 0.01 | 0.08 | 0.15 | 0.15 | 0.10 | 0.10 | 0.26 |
| | 6 | 1.83 | 0.58 | 0.26 | 0.01 | 0.02 | 0.06 | 0.18 | 0.25 | 0.35 | 0.35 | 0.39 |
| | 7 | 2.82 | 1.57 | 0.70 | 0.19 | 0.18 | 0.50 | 1.67 | 3.07 | 2.57 | 2.57 | 1.58 |
| | 8 | 1.98 | 1.29 | 1.20 | 0.59 | 0.91 | 1.08 | 0.90 | 0.55 | 1.01 | 1.01 | 1.05 |
| | 9 | 0.91 | 0.61 | 0.42 | 1.20 | 1.68 | 1.95 | 2.15 | 2.57 | 2.74 | 2.74 | 1.70 |
| | 10 | 2.21 | 1.04 | 0.51 | 0.23 | 0.52 | 1.06 | 0.94 | 1.01 | 1.80 | 1.80 | 1.11 |
| | 11 | 2.47 | 1.21 | 0.44 | 0.56 | 0.50 | 0.30 | 0.52 | 1.10 | 1.23 | 1.23 | 0.96 |
| | 12 | 1.70 | 0.38 | 0.04 | 0.08 | 0.15 | 0.26 | 0.28 | 0.41 | 0.52 | 0.52 | 0.43 |
| 1994 | 1 | 0.48 | 0.80 | 0.03 | 0.02 | 0.06 | 0.08 | 0.09 | 0.13 | 0.16 | 0.16 | 0.20 |
| | 2 | 0.27 | 0.55 | 0.00 | 0.00 | 0.02 | 0.05 | 0.17 | 0.28 | 0.28 | 0.28 | 0.16 |
| | 3 | 0.86 | 0.34 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.04 | 0.04 | 0.13 |
| | 4 | 2.12 | 0.59 | 0.00 | 0.00 | 0.02 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.30 |
| | 5 | 1.79 | 0.59 | 0.00 | 0.03 | 0.04 | 0.04 | 0.11 | 0.13 | 0.12 | 0.12 | 0.30 |
| | 6 | 1.67 | 1.19 | 0.01 | 0.01 | 0.06 | 0.16 | 0.35 | 0.51 | 0.91 | 0.91 | 0.58 |
| | 7 | 2.27 | 1.31 | 0.62 | 0.32 | 0.73 | 0.73 | 0.88 | 1.42 | 3.03 | 3.03 | 1.43 |
| | 8 | 1.95 | 1.31 | 0.98 | 1.25 | 1.37 | 0.86 | 1.20 | 1.46 | 2.91 | 2.91 | 1.62 |
| | 9 | 2.82 | 1.23 | 0.81 | 1.37 | 1.32 | 0.62 | 0.67 | 0.84 | 1.66 | 1.66 | 1.30 |
| | 10 | 2.16 | 1.05 | 1.21 | 1.04 | 0.74 | 0.40 | 0.47 | 0.99 | 1.67 | 1.67 | 1.14 |
| | 11 | 1.75 | 0.91 | 0.42 | 0.09 | 0.00 | 0.01 | 0.06 | 0.08 | 0.19 | 0.19 | 0.37 |
| | 12 | 0.61 | 0.45 | 0.21 | 0.02 | 0.00 | 0.01 | 0.08 | 0.16 | 0.13 | 0.13 | 0.18 |

補足表 3-2. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された漁獲係数（続き）

| 年 | 月 \ 月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 平均 |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| 1995 | 1 | 0.48 | 0.38 | 0.02 | 0.07 | 0.06 | 0.12 | 0.05 | 0.03 | 0.08 | 0.08 | 0.14 |
| | 2 | 0.60 | 0.41 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.11 |
| | 3 | 2.06 | 0.58 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 |
| | 4 | 0.90 | 0.05 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| | 5 | 1.20 | 0.07 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.14 |
| | 6 | 1.71 | 1.08 | 0.07 | 0.01 | 0.01 | 0.07 | 0.20 | 0.49 | 0.85 | 0.85 | 0.53 |
| | 7 | 1.80 | 1.55 | 0.29 | 0.21 | 0.20 | 0.46 | 1.48 | 3.44 | 4.84 | 4.84 | 1.91 |
| | 8 | 1.64 | 2.08 | 1.82 | 1.45 | 1.27 | 1.18 | 0.97 | 0.23 | 0.28 | 0.28 | 1.12 |
| | 9 | 2.10 | 1.94 | 1.50 | 0.71 | 0.73 | 0.59 | 1.05 | 1.83 | 4.12 | 4.12 | 1.87 |
| | 10 | 1.36 | 1.49 | 0.44 | 0.03 | 0.06 | 0.12 | 0.37 | 0.90 | 2.40 | 2.40 | 0.96 |
| | 11 | 1.16 | 0.95 | 0.16 | 0.00 | 0.00 | 0.06 | 0.41 | 0.65 | 2.00 | 2.00 | 0.74 |
| | 12 | 1.10 | 1.19 | 1.19 | 0.02 | 0.00 | 0.04 | 0.34 | 0.62 | 0.51 | 0.51 | 0.55 |
| 1996 | 1 | 0.55 | 0.59 | 0.02 | 0.01 | 0.02 | 0.03 | 0.13 | 0.22 | 0.38 | 0.38 | 0.23 |
| | 2 | 0.42 | 0.39 | 0.00 | 0.02 | 0.05 | 0.03 | 0.13 | 0.25 | 0.41 | 0.41 | 0.21 |
| | 3 | 0.48 | 0.02 | 0.00 | 0.01 | 0.03 | 0.05 | 0.06 | 0.11 | 0.19 | 0.19 | 0.11 |
| | 4 | 1.99 | 0.12 | 0.00 | 0.01 | 0.03 | 0.05 | 0.16 | 0.08 | 0.14 | 0.14 | 0.27 |
| | 5 | 2.49 | 0.53 | 0.01 | 0.04 | 0.15 | 0.29 | 0.27 | 0.17 | 0.03 | 0.03 | 0.40 |
| | 6 | 1.25 | 0.58 | 0.00 | 0.00 | 0.07 | 0.13 | 0.19 | 0.27 | 0.59 | 0.59 | 0.37 |
| | 7 | 2.30 | 1.19 | 0.39 | 0.13 | 0.31 | 0.40 | 0.81 | 0.86 | 1.88 | 1.88 | 1.01 |
| | 8 | 2.11 | 1.53 | 1.35 | 0.81 | 1.14 | 1.32 | 1.72 | 1.80 | 1.89 | 1.89 | 1.56 |
| | 9 | 2.03 | 1.87 | 0.96 | 0.91 | 1.34 | 1.37 | 1.49 | 1.41 | 1.45 | 1.45 | 1.43 |
| | 10 | 1.53 | 1.61 | 0.09 | 0.57 | 0.99 | 1.00 | 0.33 | 0.30 | 0.35 | 0.35 | 0.71 |
| | 11 | 1.03 | 1.22 | 0.02 | 0.11 | 0.20 | 0.23 | 0.12 | 0.03 | 0.03 | 0.03 | 0.30 |
| | 12 | 1.11 | 1.61 | 0.02 | 0.18 | 0.28 | 0.24 | 0.10 | 0.06 | 0.02 | 0.02 | 0.36 |
| 1997 | 1 | 1.35 | 1.34 | 0.00 | 0.04 | 0.12 | 0.25 | 0.27 | 0.24 | 0.14 | 0.14 | 0.39 |
| | 2 | 0.68 | 0.76 | 0.00 | 0.02 | 0.04 | 0.11 | 0.12 | 0.11 | 0.06 | 0.06 | 0.20 |
| | 3 | 0.89 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0.10 |
| | 4 | 1.70 | 0.01 | 0.00 | 0.02 | 0.04 | 0.06 | 0.05 | 0.05 | 0.03 | 0.03 | 0.20 |
| | 5 | 1.50 | 0.42 | 0.00 | 0.07 | 0.12 | 0.21 | 0.14 | 0.09 | 0.06 | 0.06 | 0.27 |
| | 6 | 1.62 | 0.94 | 0.00 | 0.01 | 0.52 | 1.65 | 1.77 | 2.17 | 2.29 | 2.29 | 1.33 |
| | 7 | 2.28 | 1.46 | 0.32 | 0.26 | 0.22 | 0.41 | 0.42 | 0.62 | 0.61 | 0.61 | 0.72 |
| | 8 | 2.02 | 2.11 | 2.29 | 1.23 | 0.83 | 0.89 | 0.49 | 1.94 | 4.98 | 4.98 | 2.18 |
| | 9 | 0.52 | 1.30 | 1.95 | 0.64 | 0.27 | 0.06 | 0.12 | 0.07 | 0.25 | 0.25 | 0.54 |
| | 10 | 1.82 | 1.32 | 0.94 | 0.30 | 0.01 | 0.71 | 0.41 | 0.92 | 2.18 | 2.18 | 1.08 |
| | 11 | 1.67 | 1.60 | 0.09 | 0.00 | 0.01 | 0.48 | 0.90 | 0.09 | 0.27 | 0.27 | 0.54 |
| | 12 | 1.12 | 0.90 | 0.19 | 0.00 | 0.01 | 1.28 | 1.48 | 0.77 | 0.03 | 0.03 | 0.58 |
| 1998 | 1 | 0.57 | 1.07 | 0.00 | 0.00 | 0.00 | 0.01 | 0.09 | 0.05 | 0.22 | 0.22 | 0.22 |
| | 2 | 0.07 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.08 | 0.04 |
| | 3 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.47 | 0.47 | 0.20 |
| | 4 | 2.06 | 0.22 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.02 | 0.04 | 0.04 | 0.24 |
| | 5 | 1.86 | 0.38 | 0.00 | 0.03 | 0.13 | 0.13 | 0.12 | 0.12 | 0.09 | 0.09 | 0.28 |
| | 6 | 1.28 | 1.20 | 0.06 | 0.01 | 0.02 | 0.06 | 0.40 | 0.19 | 0.39 | 0.39 | 0.40 |
| | 7 | 2.52 | 1.70 | 0.32 | 0.07 | 0.86 | 1.20 | 0.63 | 0.83 | 0.34 | 0.34 | 0.88 |
| | 8 | 2.19 | 1.71 | 0.85 | 0.47 | 0.23 | 1.18 | 0.82 | 0.12 | 0.32 | 0.32 | 0.82 |
| | 9 | 1.16 | 0.87 | 0.29 | 0.14 | 0.29 | 0.15 | 0.59 | 0.30 | 0.07 | 0.07 | 0.39 |
| | 10 | 2.35 | 1.56 | 0.64 | 0.32 | 0.54 | 0.78 | 0.07 | 0.51 | 0.34 | 0.34 | 0.75 |
| | 11 | 1.39 | 2.23 | 0.92 | 0.45 | 0.46 | 0.48 | 0.20 | 0.01 | 0.11 | 0.11 | 0.64 |
| | 12 | 1.05 | 1.59 | 0.01 | 0.01 | 0.16 | 0.29 | 0.09 | 0.04 | 0.00 | 0.00 | 0.32 |
| 1999 | 1 | 0.67 | 1.17 | 0.01 | 0.00 | 0.00 | 0.01 | 0.04 | 0.05 | 0.04 | 0.04 | 0.20 |
| | 2 | 0.23 | 0.06 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.08 | 0.08 | 0.08 | 0.06 |
| | 3 | 1.17 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.14 |
| | 4 | 2.43 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.06 | 0.06 | 0.27 |
| | 5 | 2.84 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.03 | 0.35 |
| | 6 | 2.16 | 0.99 | 0.08 | 0.01 | 0.10 | 0.41 | 0.59 | 0.52 | 0.65 | 0.65 | 0.61 |
| | 7 | 1.86 | 1.28 | 0.34 | 0.20 | 0.15 | 0.28 | 0.27 | 0.36 | 0.64 | 0.64 | 0.60 |
| | 8 | 2.82 | 1.72 | 0.50 | 0.22 | 0.13 | 0.14 | 0.29 | 0.48 | 1.09 | 1.09 | 0.85 |
| | 9 | 1.73 | 0.83 | 0.01 | 0.02 | 0.09 | 0.19 | 0.25 | 0.42 | 0.66 | 0.66 | 0.49 |
| | 10 | 2.39 | 1.69 | 0.02 | 0.06 | 0.33 | 0.82 | 0.29 | 0.37 | 0.53 | 0.53 | 0.70 |
| | 11 | 1.71 | 1.05 | 0.03 | 0.10 | 0.51 | 0.96 | 0.58 | 0.19 | 0.30 | 0.30 | 0.57 |
| | 12 | 0.71 | 0.82 | 0.01 | 0.04 | 0.31 | 0.51 | 0.22 | 0.13 | 0.04 | 0.04 | 0.28 |
| 2000 | 1 | 0.35 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.16 | 0.16 | 0.14 |
| | 2 | 0.23 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.13 | 0.30 | 0.30 | 0.15 |
| | 3 | 1.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.09 | 0.09 | 0.13 |
| | 4 | 1.50 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 |
| | 5 | 1.57 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.22 |
| | 6 | 1.93 | 0.67 | 0.00 | 0.04 | 0.00 | 0.21 | 0.48 | 0.46 | 0.92 | 0.92 | 0.56 |
| | 7 | 2.70 | 1.10 | 0.53 | 0.30 | 0.10 | 0.08 | 0.05 | 0.09 | 0.22 | 0.22 | 0.54 |
| | 8 | 2.76 | 0.76 | 1.36 | 0.75 | 0.46 | 0.27 | 0.34 | 0.33 | 1.11 | 1.11 | 0.92 |
| | 9 | 1.49 | 1.54 | 0.95 | 0.38 | 0.43 | 0.69 | 1.20 | 1.31 | 1.18 | 1.18 | 1.03 |
| | 10 | 1.45 | 1.09 | 0.35 | 0.41 | 0.75 | 1.16 | 1.13 | 0.92 | 1.00 | 1.00 | 0.93 |
| | 11 | 0.55 | 1.26 | 0.59 | 0.15 | 0.07 | 0.13 | 0.15 | 0.08 | 0.08 | 0.08 | 0.31 |
| | 12 | 0.78 | 0.89 | 0.03 | 0.06 | 0.06 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.19 |
| 2001 | 1 | 0.59 | 0.76 | 0.04 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.14 |
| | 2 | 0.26 | 0.69 | 0.48 | 0.01 | 0.05 | 0.19 | 0.17 | 0.04 | 0.05 | 0.05 | 0.20 |
| | 3 | 0.49 | 0.17 | 0.18 | 0.00 | 0.01 | 0.03 | 0.06 | 0.05 | 0.01 | 0.01 | 0.10 |
| | 4 | 0.84 | 0.05 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.10 |
| | 5 | 1.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| | 6 | 1.69 | 0.34 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.13 | 0.40 | 0.40 | 0.30 |
| | 7 | 2.64 | 1.52 | 0.50 | 0.18 | 0.33 | 0.67 | 0.37 | 0.59 | 0.53 | 0.53 | 0.79 |
| | 8 | 2.78 | 0.82 | 0.92 | 1.00 | 1.43 | 1.74 | 1.40 | 1.35 | 1.24 | 1.24 | 1.39 |
| | 9 | 1.17 | 0.68 | 0.64 | 0.63 | 0.93 | 1.06 | 0.92 | 0.88 | 0.86 | 0.86 | 0.86 |
| | 10 | 2.23 | 0.66 | 0.37 | 0.25 | 0.92 | 0.96 | 1.01 | 0.43 | 0.23 | 0.23 | 0.73 |
| | 11 | 1.87 | 0.35 | 0.06 | 0.06 | 0.13 | 0.22 | 0.17 | 0.08 | 0.01 | 0.01 | 0.30 |
| | 12 | 0.70 | 0.97 | 0.04 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.18 |

補足表 3-2. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された漁獲係数（続き）

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 平均 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2002 | 1 | 0.34 | 0.51 | 0.18 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| | 2 | 0.05 | 0.31 | 0.16 | 0.28 | 0.19 | 0.07 | 0.04 | 0.01 | 0.00 | 0.00 | 0.11 |
| | 3 | 0.01 | 0.40 | 0.17 | 0.12 | 0.21 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| | 4 | 0.84 | 0.02 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.02 | 0.02 | 0.02 | 0.10 |
| | 5 | 0.76 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.01 | 0.11 |
| | 6 | 1.71 | 0.58 | 0.00 | 0.00 | 0.05 | 0.14 | 0.12 | 0.62 | 0.57 | 0.57 | 0.44 |
| | 7 | 2.36 | 1.71 | 0.65 | 0.52 | 0.56 | 0.67 | 0.44 | 0.13 | 0.45 | 0.45 | 0.79 |
| | 8 | 1.71 | 1.00 | 0.78 | 0.99 | 1.63 | 1.94 | 1.58 | 0.56 | 0.23 | 0.23 | 1.07 |
| | 9 | 2.20 | 1.69 | 0.71 | 0.77 | 1.93 | 2.08 | 1.65 | 1.32 | 0.57 | 0.57 | 1.35 |
| | 10 | 2.61 | 2.02 | 0.21 | 0.16 | 0.23 | 0.77 | 0.63 | 0.19 | 0.08 | 0.08 | 0.70 |
| | 11 | 1.73 | 1.49 | 0.63 | 0.48 | 0.66 | 0.12 | 0.37 | 0.24 | 0.10 | 0.10 | 0.59 |
| | 12 | 1.19 | 1.33 | 0.63 | 0.43 | 0.43 | 0.05 | 0.00 | 0.01 | 0.01 | 0.01 | 0.41 |
| 2003 | 1 | 0.52 | 0.75 | 0.19 | 0.10 | 0.08 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.17 |
| | 2 | 0.13 | 0.52 | 0.19 | 0.00 | 0.02 | 0.13 | 0.18 | 0.26 | 0.25 | 0.25 | 0.19 |
| | 3 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.10 | 0.10 | 0.04 |
| | 4 | 2.15 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.33 |
| | 5 | 1.69 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 |
| | 6 | 0.96 | 1.23 | 0.23 | 0.02 | 0.01 | 0.04 | 0.24 | 0.51 | 1.16 | 1.16 | 0.56 |
| | 7 | 1.66 | 1.34 | 0.64 | 0.34 | 0.25 | 0.17 | 0.10 | 0.14 | 0.14 | 0.14 | 0.49 |
| | 8 | 1.74 | 1.27 | 0.82 | 0.57 | 0.50 | 0.42 | 0.29 | 0.11 | 0.07 | 0.07 | 0.59 |
| | 9 | 1.03 | 0.86 | 0.55 | 0.26 | 0.17 | 0.25 | 0.56 | 1.04 | 1.71 | 1.71 | 0.81 |
| | 10 | 1.69 | 1.57 | 0.64 | 0.06 | 0.20 | 0.61 | 0.70 | 0.62 | 0.57 | 0.57 | 0.72 |
| | 11 | 1.00 | 0.82 | 0.46 | 0.85 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 |
| | 12 | 1.34 | 0.84 | 0.21 | 0.59 | 1.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 |
| 2004 | 1 | 1.21 | 1.00 | 0.17 | 0.04 | 0.14 | 0.53 | 0.02 | 0.01 | 0.01 | 0.01 | 0.31 |
| | 2 | 1.65 | 1.21 | 0.33 | 0.08 | 0.07 | 0.23 | 1.47 | 0.02 | 0.01 | 0.01 | 0.51 |
| | 3 | 0.25 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.36 | 0.01 | 0.01 | 0.08 |
| | 4 | 2.58 | 1.24 | 0.06 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.40 |
| | 5 | 2.13 | 1.28 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.35 |
| | 6 | 0.94 | 0.75 | 0.45 | 0.06 | 0.03 | 0.07 | 0.43 | 0.86 | 1.03 | 1.03 | 0.57 |
| | 7 | 1.98 | 1.94 | 0.78 | 0.20 | 0.03 | 0.05 | 0.29 | 0.81 | 0.68 | 0.68 | 0.75 |
| | 8 | 1.54 | 1.19 | 1.10 | 1.03 | 0.86 | 0.71 | 0.58 | 0.76 | 2.33 | 2.33 | 1.24 |
| | 9 | 1.01 | 1.68 | 0.45 | 0.44 | 0.95 | 2.18 | 2.40 | 2.55 | 3.11 | 3.11 | 1.79 |
| | 10 | 2.11 | 1.76 | 0.73 | 1.16 | 1.01 | 0.90 | 0.30 | 0.45 | 0.65 | 0.65 | 0.97 |
| | 11 | 0.56 | 1.16 | 0.33 | 0.49 | 0.58 | 0.22 | 0.01 | 0.01 | 0.02 | 0.02 | 0.34 |
| | 12 | 1.50 | 1.11 | 0.20 | 0.22 | 0.17 | 0.21 | 0.12 | 0.18 | 0.27 | 0.27 | 0.42 |
| 2005 | 1 | 0.51 | 0.54 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| | 2 | 0.04 | 0.07 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 |
| | 3 | 0.21 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| | 4 | 1.67 | 0.09 | 0.01 | 0.00 | 0.02 | 0.03 | 0.02 | 0.01 | 0.00 | 0.00 | 0.19 |
| | 5 | 0.86 | 0.25 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.10 | 0.12 | 0.12 | 0.15 |
| | 6 | 1.04 | 1.17 | 0.10 | 0.05 | 0.10 | 0.09 | 0.22 | 0.47 | 0.91 | 0.91 | 0.50 |
| | 7 | 1.74 | 1.14 | 0.56 | 0.26 | 0.23 | 0.31 | 0.26 | 0.19 | 0.47 | 0.47 | 0.56 |
| | 8 | 1.91 | 0.48 | 0.77 | 1.06 | 1.38 | 1.06 | 0.69 | 0.51 | 0.70 | 0.70 | 0.93 |
| | 9 | 0.98 | 0.14 | 0.63 | 0.55 | 0.22 | 0.58 | 0.68 | 0.78 | 0.84 | 0.84 | 0.62 |
| | 10 | 0.50 | 0.36 | 0.36 | 0.12 | 0.18 | 0.16 | 0.59 | 1.02 | 1.84 | 1.84 | 0.70 |
| | 11 | 1.06 | 0.51 | 0.29 | 0.16 | 0.65 | 1.31 | 1.40 | 1.12 | 2.12 | 2.12 | 1.07 |
| | 12 | 0.91 | 0.53 | 0.27 | 0.20 | 0.26 | 0.46 | 0.69 | 0.09 | 0.18 | 0.18 | 0.38 |
| 2006 | 1 | 0.38 | 0.06 | 0.00 | 0.02 | 0.62 | 0.18 | 0.01 | 0.00 | 0.00 | 0.00 | 0.13 |
| | 2 | 0.08 | 0.80 | 0.63 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 |
| | 3 | 0.31 | 0.06 | 0.00 | 0.00 | 0.00 | 0.02 | 0.21 | 0.08 | 0.10 | 0.10 | 0.09 |
| | 4 | 1.78 | 0.04 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.43 | 0.11 | 0.11 | 0.26 |
| | 5 | 1.74 | 0.21 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.03 | 0.13 | 0.13 | 0.23 |
| | 6 | 0.96 | 0.11 | 0.02 | 0.09 | 0.14 | 0.25 | 0.42 | 0.30 | 0.29 | 0.29 | 0.29 |
| | 7 | 1.83 | 1.53 | 0.42 | 0.08 | 0.06 | 0.08 | 0.35 | 0.52 | 0.32 | 0.32 | 0.55 |
| | 8 | 2.25 | 1.12 | 0.80 | 0.20 | 0.10 | 0.26 | 0.77 | 1.39 | 2.14 | 2.14 | 1.12 |
| | 9 | 0.97 | 1.18 | 1.04 | 0.53 | 0.67 | 1.07 | 1.38 | 1.92 | 3.68 | 3.68 | 1.61 |
| | 10 | 1.59 | 3.53 | 0.05 | 0.10 | 0.57 | 1.11 | 1.53 | 1.34 | 1.51 | 1.51 | 1.28 |
| | 11 | 1.57 | 0.22 | 0.54 | 0.03 | 0.19 | 0.48 | 1.00 | 1.06 | 1.72 | 1.72 | 0.85 |
| | 12 | 0.42 | 0.68 | 0.77 | 1.21 | 0.02 | 0.12 | 0.18 | 0.26 | 0.59 | 0.59 | 0.48 |
| 2007 | 1 | 0.50 | 0.89 | 0.24 | 0.00 | 0.16 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.18 |
| | 2 | 0.52 | 0.57 | 0.34 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 |
| | 3 | 0.80 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.09 |
| | 4 | 1.57 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.14 | 0.00 | 0.00 | 0.21 |
| | 5 | 1.09 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.16 |
| | 6 | 1.65 | 0.85 | 0.03 | 0.00 | 0.00 | 0.03 | 0.10 | 0.24 | 0.15 | 0.15 | 0.32 |
| | 7 | 1.99 | 0.90 | 0.48 | 0.17 | 0.03 | 0.10 | 0.29 | 0.40 | 1.54 | 1.54 | 0.74 |
| | 8 | 2.37 | 0.83 | 1.05 | 0.99 | 0.54 | 0.43 | 0.88 | 1.21 | 2.02 | 2.02 | 1.23 |
| | 9 | 0.61 | 1.44 | 1.56 | 1.44 | 1.33 | 2.51 | 3.11 | 3.98 | 3.92 | 3.92 | 2.38 |
| | 10 | 1.12 | 1.07 | 0.87 | 0.58 | 0.96 | 0.54 | 0.59 | 1.50 | 0.90 | 0.90 | 0.90 |
| | 11 | 1.99 | 0.46 | 0.21 | 0.41 | 0.06 | 0.02 | 0.02 | 0.08 | 0.07 | 0.07 | 0.34 |
| | 12 | 0.94 | 0.48 | 0.20 | 0.00 | 0.03 | 0.03 | 0.05 | 0.04 | 0.07 | 0.07 | 0.19 |
| 2008 | 1 | 0.13 | 0.24 | 0.07 | 0.05 | 0.03 | 0.09 | 0.05 | 0.01 | 0.00 | 0.00 | 0.07 |
| | 2 | 0.01 | 0.03 | 0.11 | 0.14 | 0.04 | 0.04 | 0.21 | 0.01 | 0.02 | 0.02 | 0.06 |
| | 3 | 0.36 | 0.05 | 0.10 | 0.09 | 0.05 | 0.02 | 0.04 | 0.04 | 0.02 | 0.02 | 0.08 |
| | 4 | 0.24 | 0.03 | 0.00 | 0.00 | 0.02 | 0.07 | 0.05 | 0.04 | 0.14 | 0.14 | 0.07 |
| | 5 | 0.69 | 0.03 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.03 | 0.02 | 0.02 | 0.08 |
| | 6 | 1.33 | 0.43 | 0.00 | 0.02 | 0.07 | 0.14 | 0.20 | 0.49 | 0.42 | 0.42 | 0.35 |
| | 7 | 2.18 | 1.28 | 0.56 | 0.11 | 0.11 | 0.10 | 0.12 | 0.13 | 0.31 | 0.31 | 0.52 |
| | 8 | 2.11 | 0.93 | 0.51 | 0.41 | 0.29 | 0.31 | 0.25 | 0.37 | 0.51 | 0.51 | 0.62 |
| | 9 | 1.91 | 0.31 | 0.24 | 0.52 | 0.67 | 0.16 | 0.21 | 0.13 | 0.14 | 0.14 | 0.45 |
| | 10 | 2.70 | 1.69 | 0.10 | 0.10 | 0.58 | 1.55 | 0.06 | 0.02 | 0.01 | 0.01 | 0.68 |
| | 11 | 1.71 | 0.86 | 0.01 | 0.06 | 0.22 | 0.37 | 0.64 | 0.00 | 0.00 | 0.00 | 0.39 |
| | 12 | 1.36 | 1.06 | 0.00 | 0.01 | 0.04 | 0.03 | 0.05 | 0.12 | 0.00 | 0.00 | 0.27 |

補足表 3-2. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された漁獲係数（続き）

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 平均 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2009 | 1 | 0.63 | 0.14 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.09 |
| | 2 | 0.12 | 0.13 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.02 | 0.04 |
| | 3 | 0.14 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.03 | 0.02 |
| | 4 | 1.76 | 0.08 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.10 | 0.10 | 0.21 |
| | 5 | 1.90 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.08 | 0.08 | 0.24 |
| | 6 | 1.68 | 0.34 | 0.02 | 0.00 | 0.00 | 0.01 | 0.09 | 0.56 | 1.26 | 1.26 | 0.52 |
| | 7 | 2.43 | 0.95 | 0.57 | 0.06 | 0.27 | 0.58 | 0.77 | 0.71 | 1.24 | 1.24 | 0.88 |
| | 8 | 3.36 | 1.70 | 0.96 | 0.15 | 0.10 | 0.25 | 0.44 | 1.35 | 1.79 | 1.79 | 1.19 |
| | 9 | 1.12 | 0.63 | 0.23 | 0.49 | 0.92 | 0.84 | 0.49 | 0.14 | 0.25 | 0.25 | 0.54 |
| | 10 | 2.05 | 1.27 | 0.13 | 0.04 | 0.15 | 0.29 | 0.21 | 0.07 | 0.01 | 0.01 | 0.42 |
| | 11 | 1.22 | 0.28 | 0.79 | 0.22 | 0.54 | 0.16 | 0.04 | 0.01 | 0.00 | 0.00 | 0.33 |
| | 12 | 1.05 | 0.53 | 0.20 | 0.13 | 0.32 | 0.18 | 0.01 | 0.00 | 0.00 | 0.00 | 0.24 |
| 2010 | 1 | 0.95 | 0.50 | 0.27 | 0.05 | 0.28 | 0.16 | 0.05 | 0.01 | 0.00 | 0.00 | 0.23 |
| | 2 | 0.19 | 0.15 | 0.27 | 0.12 | 0.06 | 0.19 | 0.13 | 0.11 | 0.01 | 0.01 | 0.12 |
| | 3 | 0.13 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| | 4 | 1.09 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.02 | 0.13 |
| | 5 | 1.27 | 0.26 | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.07 | 0.07 | 0.17 |
| | 6 | 2.05 | 0.88 | 0.01 | 0.00 | 0.01 | 0.10 | 0.26 | 0.80 | 0.82 | 0.82 | 0.57 |
| | 7 | 2.67 | 1.52 | 0.35 | 0.24 | 0.08 | 0.05 | 0.09 | 0.21 | 0.83 | 0.83 | 0.69 |
| | 8 | 2.38 | 0.78 | 0.61 | 0.52 | 0.74 | 0.67 | 0.77 | 1.00 | 1.39 | 1.39 | 1.03 |
| | 9 | 1.69 | 0.40 | 0.97 | 1.00 | 1.70 | 1.80 | 1.35 | 0.99 | 1.12 | 1.12 | 1.21 |
| | 10 | 2.47 | 0.88 | 0.81 | 0.13 | 0.50 | 0.97 | 0.63 | 0.79 | 1.30 | 1.30 | 0.98 |
| | 11 | 1.95 | 1.16 | 0.38 | 0.08 | 0.24 | 0.50 | 0.68 | 1.03 | 1.80 | 1.80 | 0.96 |
| | 12 | 0.35 | 0.46 | 0.00 | 0.02 | 0.26 | 0.57 | 0.41 | 0.25 | 0.04 | 0.04 | 0.24 |
| 2011 | 1 | 0.10 | 0.19 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 |
| | 2 | 0.05 | 0.07 | 0.17 | 0.00 | 0.01 | 0.04 | 0.10 | 0.13 | 0.15 | 0.15 | 0.09 |
| | 3 | 0.54 | 0.02 | 0.14 | 0.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.04 | 0.04 | 0.09 |
| | 4 | 0.68 | 0.12 | 0.21 | 0.00 | 0.01 | 0.14 | 0.19 | 0.18 | 0.20 | 0.20 | 0.19 |
| | 5 | 0.35 | 0.13 | 0.40 | 0.00 | 0.02 | 0.13 | 0.20 | 0.16 | 0.11 | 0.11 | 0.16 |
| | 6 | 0.77 | 0.40 | 0.00 | 0.01 | 0.07 | 0.24 | 0.45 | 0.61 | 0.49 | 0.49 | 0.35 |
| | 7 | 1.73 | 0.45 | 0.24 | 0.07 | 0.18 | 1.04 | 1.18 | 0.88 | 0.92 | 0.92 | 0.76 |
| | 8 | 3.01 | 0.54 | 0.41 | 0.31 | 0.19 | 0.43 | 0.98 | 0.90 | 0.93 | 0.93 | 0.86 |
| | 9 | 1.53 | 0.66 | 0.31 | 0.04 | 0.28 | 0.60 | 0.64 | 1.01 | 4.26 | 4.26 | 1.36 |
| | 10 | 1.66 | 1.29 | 0.08 | 0.07 | 0.32 | 1.89 | 3.48 | 2.95 | 3.09 | 3.09 | 1.79 |
| | 11 | 1.37 | 0.93 | 0.04 | 0.06 | 0.45 | 0.34 | 1.45 | 3.79 | 1.94 | 1.94 | 1.23 |
| | 12 | 1.03 | 0.80 | 0.00 | 0.00 | 0.00 | 0.02 | 0.15 | 0.02 | 0.02 | 0.02 | 0.21 |
| 2012 | 1 | 1.01 | 1.03 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.04 | 0.04 | 0.22 |
| | 2 | 0.70 | 0.16 | 0.05 | 0.07 | 0.07 | 0.07 | 0.02 | 0.01 | 0.00 | 0.00 | 0.11 |
| | 3 | 0.17 | 0.07 | 0.00 | 0.04 | 0.11 | 0.05 | 0.03 | 0.01 | 0.01 | 0.01 | 0.05 |
| | 4 | 1.57 | 1.01 | 0.00 | 0.03 | 0.08 | 0.03 | 0.01 | 0.02 | 0.01 | 0.01 | 0.28 |
| | 5 | 0.85 | 0.24 | 0.01 | 0.03 | 0.06 | 0.04 | 0.06 | 0.08 | 0.11 | 0.11 | 0.16 |
| | 6 | 0.70 | 0.49 | 0.00 | 0.01 | 0.12 | 0.23 | 0.25 | 0.28 | 0.44 | 0.44 | 0.30 |
| | 7 | 2.22 | 0.90 | 0.38 | 0.50 | 0.06 | 0.22 | 0.39 | 0.57 | 0.69 | 0.69 | 0.66 |
| | 8 | 2.26 | 0.39 | 1.64 | 1.09 | 1.29 | 1.73 | 1.77 | 1.85 | 2.12 | 2.12 | 1.63 |
| | 9 | 2.14 | 1.10 | 0.52 | 0.56 | 1.21 | 1.26 | 0.75 | 0.79 | 0.62 | 0.62 | 0.96 |
| | 10 | 2.50 | 1.16 | 0.52 | 1.20 | 0.75 | 0.07 | 0.02 | 0.02 | 0.01 | 0.01 | 0.63 |
| | 11 | 1.36 | 1.15 | 0.51 | 0.69 | 0.47 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 |
| | 12 | 0.83 | 0.63 | 0.09 | 0.01 | 0.01 | 0.03 | 0.05 | 0.08 | 0.14 | 0.14 | 0.20 |
| 2013 | 1 | 0.18 | 0.15 | 0.15 | 0.10 | 0.05 | 0.05 | 0.03 | 0.02 | 0.06 | 0.06 | 0.08 |
| | 2 | 0.06 | 0.08 | 0.09 | 0.10 | 0.10 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.05 |
| | 3 | 0.14 | 0.13 | 0.07 | 0.03 | 0.03 | 0.01 | 0.00 | 0.00 | 0.02 | 0.02 | 0.04 |
| | 4 | 0.59 | 0.09 | 0.03 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 |
| | 5 | 1.27 | 0.28 | 0.24 | 0.10 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.20 |
| | 6 | 1.73 | 0.67 | 0.00 | 0.00 | 0.07 | 0.38 | 0.81 | 0.62 | 1.05 | 1.05 | 0.64 |
| | 7 | 1.77 | 0.73 | 0.43 | 0.09 | 0.11 | 0.43 | 1.08 | 1.44 | 1.46 | 1.46 | 0.90 |
| | 8 | 1.64 | 1.12 | 1.00 | 1.21 | 0.82 | 0.76 | 0.76 | 0.90 | 1.62 | 1.62 | 1.14 |
| | 9 | 2.42 | 1.62 | 0.37 | 0.05 | 0.06 | 0.49 | 1.49 | 2.41 | 4.67 | 4.67 | 1.82 |
| | 10 | 1.59 | 1.14 | 0.24 | 0.12 | 0.55 | 1.01 | 2.30 | 2.88 | 2.68 | 2.68 | 1.52 |
| | 11 | 0.76 | 0.39 | 0.04 | 0.36 | 1.66 | 2.21 | 2.38 | 2.54 | 2.18 | 2.18 | 1.47 |
| | 12 | 0.74 | 0.68 | 0.04 | 0.11 | 0.18 | 0.35 | 0.42 | 0.43 | 0.46 | 0.46 | 0.39 |
| 2014 | 1 | 0.26 | 0.12 | 0.06 | 0.08 | 0.18 | 0.29 | 0.36 | 0.56 | 1.19 | 1.19 | 0.43 |
| | 2 | 0.13 | 0.04 | 0.07 | 0.11 | 0.10 | 0.16 | 0.29 | 0.31 | 0.78 | 0.78 | 0.28 |
| | 3 | 0.02 | 0.00 | 0.00 | 0.01 | 0.06 | 0.18 | 0.53 | 0.58 | 1.57 | 1.57 | 0.45 |
| | 4 | 0.85 | 0.50 | 0.01 | 0.01 | 0.05 | 0.25 | 0.23 | 0.30 | 1.01 | 1.01 | 0.42 |
| | 5 | 1.98 | 0.89 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.29 |
| | 6 | 2.13 | 0.54 | 0.02 | 0.01 | 0.35 | 1.18 | 1.52 | 1.03 | 0.50 | 0.50 | 0.78 |
| | 7 | 2.46 | 0.82 | 0.25 | 0.05 | 0.61 | 1.31 | 1.78 | 1.79 | 1.61 | 1.61 | 1.23 |
| | 8 | 1.74 | 0.44 | 0.47 | 0.24 | 0.39 | 0.57 | 0.69 | 0.59 | 1.30 | 1.30 | 0.77 |
| | 9 | 1.05 | 0.73 | 0.25 | 0.36 | 0.57 | 0.54 | 0.77 | 1.49 | 2.10 | 2.10 | 1.00 |
| | 10 | 1.72 | 1.41 | 0.45 | 0.27 | 0.21 | 0.19 | 0.01 | 0.03 | 0.09 | 0.09 | 0.45 |
| | 11 | 0.73 | 0.54 | 0.26 | 0.23 | 0.48 | 0.27 | 0.63 | 0.80 | 0.57 | 0.57 | 0.51 |
| | 12 | 0.60 | 0.83 | 0.16 | 0.28 | 0.28 | 0.17 | 0.33 | 0.75 | 0.17 | 0.17 | 0.37 |
| 2015 | 1 | 0.48 | 0.57 | 0.03 | 0.03 | 0.07 | 0.03 | 0.10 | 0.13 | 0.43 | 0.43 | 0.23 |
| | 2 | 0.20 | 0.15 | 0.01 | 0.02 | 0.05 | 0.12 | 0.03 | 0.03 | 0.02 | 0.02 | 0.07 |
| | 3 | 0.30 | 0.06 | 0.02 | 0.02 | 0.07 | 0.10 | 0.12 | 0.12 | 0.20 | 0.20 | 0.12 |
| | 4 | 1.10 | 0.03 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.29 | 0.22 | 0.22 | 0.20 |
| | 5 | 1.85 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.09 | 0.72 | 0.72 | 0.40 |
| | 6 | 1.97 | 0.46 | 0.00 | 0.00 | 0.03 | 0.32 | 0.58 | 0.92 | 1.39 | 1.39 | 0.71 |
| | 7 | 2.00 | 1.35 | 0.10 | 0.03 | 0.11 | 0.36 | 0.65 | 0.85 | 1.27 | 1.27 | 0.80 |
| | 8 | 2.09 | 1.03 | 0.19 | 0.09 | 0.26 | 0.48 | 0.95 | 1.28 | 2.22 | 2.22 | 1.08 |
| | 9 | 0.88 | 0.56 | 0.45 | 0.34 | 0.50 | 0.83 | 1.46 | 1.60 | 4.70 | 4.70 | 1.60 |
| | 10 | 1.92 | 0.84 | 0.73 | 0.38 | 0.55 | 0.30 | 0.17 | 0.22 | 0.56 | 0.56 | 0.62 |
| | 11 | 1.36 | 0.56 | 0.47 | 1.01 | 0.65 | 0.66 | 0.35 | 0.31 | 0.39 | 0.39 | 0.62 |
| | 12 | 1.33 | 0.44 | 0.20 | 0.27 | 0.53 | 0.46 | 0.54 | 0.06 | 0.07 | 0.07 | 0.40 |

補足表 3-2. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された漁獲係数（続き）

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 平均 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2016 | 1 | 0.92 | 0.90 | 0.03 | 0.05 | 0.09 | 0.36 | 0.20 | 0.11 | 0.01 | 0.01 | 0.27 |
| | 2 | 1.12 | 0.41 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.08 | 0.38 | 0.38 | 0.25 |
| | 3 | 0.16 | 0.18 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.36 | 0.68 | 0.68 | 0.21 |
| | 4 | 1.34 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.82 | 0.82 | 0.35 |
| | 5 | 1.51 | 0.55 | 0.00 | 0.00 | 0.00 | 0.02 | 0.10 | 0.19 | 0.28 | 0.28 | 0.29 |
| | 6 | 1.99 | 0.74 | 0.00 | 0.01 | 0.10 | 0.33 | 0.59 | 0.78 | 1.31 | 1.31 | 0.72 |
| | 7 | 1.79 | 1.03 | 0.43 | 0.16 | 0.05 | 0.10 | 0.41 | 0.88 | 1.38 | 1.38 | 0.76 |
| | 8 | 2.02 | 1.08 | 0.62 | 0.31 | 0.54 | 0.62 | 0.63 | 0.55 | 0.71 | 0.71 | 0.78 |
| | 9 | 1.52 | 0.44 | 0.08 | 0.11 | 0.45 | 0.48 | 0.89 | 2.93 | 3.42 | 3.42 | 1.38 |
| | 10 | 1.80 | 0.70 | 0.25 | 0.07 | 0.53 | 0.80 | 0.41 | 0.23 | 0.54 | 0.54 | 0.59 |
| | 11 | 1.36 | 0.36 | 0.18 | 0.62 | 0.80 | 0.54 | 0.29 | 0.20 | 0.20 | 0.20 | 0.47 |
| | 12 | 0.76 | 0.43 | 0.48 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.17 |
| 2017 | 1 | 0.40 | 0.69 | 0.02 | 0.00 | 0.01 | 0.11 | 0.12 | 0.09 | 0.15 | 0.15 | 0.17 |
| | 2 | 0.16 | 0.14 | 0.00 | 0.00 | 0.00 | 0.01 | 0.08 | 0.09 | 0.16 | 0.16 | 0.08 |
| | 3 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.19 | 0.30 | 0.30 | 0.09 |
| | 4 | 0.68 | 0.12 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.02 | 0.21 | 0.21 | 0.13 |
| | 5 | 1.59 | 0.56 | 0.15 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 |
| | 6 | 2.82 | 0.92 | 0.25 | 0.08 | 0.05 | 0.15 | 0.22 | 0.27 | 0.46 | 0.46 | 0.57 |
| | 7 | 2.84 | 1.03 | 0.41 | 0.23 | 0.17 | 0.30 | 0.85 | 1.60 | 2.11 | 2.11 | 1.16 |
| | 8 | 2.35 | 0.73 | 0.54 | 0.70 | 0.84 | 0.90 | 1.09 | 1.01 | 1.61 | 1.61 | 1.14 |
| | 9 | 1.60 | 0.51 | 0.80 | 0.55 | 0.79 | 0.36 | 0.64 | 0.64 | 0.57 | 0.57 | 0.70 |
| | 10 | 1.81 | 0.56 | 0.05 | 0.25 | 0.34 | 0.34 | 0.25 | 0.28 | 0.39 | 0.39 | 0.47 |
| | 11 | 0.72 | 2.49 | 0.03 | 0.15 | 0.54 | 0.59 | 0.39 | 0.11 | 0.15 | 0.15 | 0.53 |
| | 12 | 0.90 | 0.63 | 0.14 | 0.08 | 0.17 | 0.19 | 0.19 | 0.19 | 0.10 | 0.10 | 0.27 |

補足表 3-3. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源尾数(百万尾)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|--------|-------|-------|-------|-------|-----|-----|-----|---------|-----------|
| 1981 | 1 | 6,195 | 2,411 | 1,088 | 980 | 714 | 1,077 | 368 | 129 | 20 | 76 | 13,059 | |
| | 2 | 5,955 | 2,471 | 1,373 | 813 | 757 | 542 | 872 | 304 | 108 | 60 | 13,254 | |
| | 3 | 8,431 | 2,621 | 1,719 | 1,028 | 623 | 562 | 430 | 722 | 255 | 141 | 16,532 | |
| | 4 | 17,929 | 3,364 | 1,749 | 1,288 | 801 | 497 | 459 | 357 | 605 | 335 | 27,383 | |
| | 5 | 24,702 | 4,630 | 2,147 | 1,310 | 1,003 | 636 | 404 | 380 | 299 | 796 | 36,305 | |
| | 6 | 31,802 | 9,176 | 3,075 | 1,608 | 1,019 | 794 | 489 | 299 | 286 | 724 | 49,272 | |
| | 7 | 77,734 | 10,180 | 4,830 | 2,210 | 1,195 | 804 | 587 | 330 | 177 | 408 | 98,454 | |
| | 8 | 36,024 | 9,329 | 4,120 | 2,179 | 1,194 | 875 | 622 | 464 | 256 | 413 | 55,476 | |
| | 9 | 14,379 | 6,080 | 4,375 | 1,765 | 661 | 350 | 364 | 292 | 272 | 402 | 28,941 | |
| | 10 | 16,589 | 2,758 | 1,400 | 518 | 298 | 156 | 63 | 33 | 8 | 9 | 21,831 | |
| | 11 | 6,750 | 2,646 | 638 | 230 | 108 | 26 | 8 | 2 | 1 | 0 | 10,410 | |
| | 12 | 4,632 | 1,707 | 919 | 290 | 143 | 68 | 17 | 6 | 1 | 1 | 7,785 | 378,703 |
| 1982 | 1 | 4,478 | 2,418 | 976 | 674 | 211 | 108 | 53 | 13 | 5 | 2 | 8,937 | |
| | 2 | 4,568 | 2,757 | 1,480 | 675 | 520 | 168 | 85 | 39 | 8 | 4 | 10,304 | |
| | 3 | 6,328 | 2,798 | 1,840 | 1,084 | 500 | 364 | 104 | 58 | 28 | 8 | 13,110 | |
| | 4 | 30,468 | 3,894 | 1,962 | 1,378 | 844 | 386 | 281 | 79 | 46 | 29 | 39,368 | |
| | 5 | 57,818 | 6,954 | 2,467 | 1,469 | 1,074 | 675 | 306 | 220 | 59 | 61 | 71,104 | |
| | 6 | 111,898 | 20,556 | 3,845 | 1,848 | 1,096 | 724 | 422 | 187 | 150 | 55 | 140,782 | |
| | 7 | 88,181 | 25,121 | 9,748 | 2,064 | 1,409 | 875 | 567 | 304 | 130 | 158 | 128,557 | |
| | 8 | 38,737 | 9,340 | 7,608 | 3,400 | 1,369 | 1,053 | 685 | 438 | 232 | 179 | 63,040 | |
| | 9 | 20,575 | 5,740 | 4,517 | 2,496 | 1,255 | 561 | 416 | 274 | 182 | 141 | 36,159 | |
| | 10 | 20,235 | 5,502 | 2,246 | 1,139 | 926 | 575 | 254 | 115 | 50 | 15 | 31,058 | |
| | 11 | 24,523 | 3,990 | 2,338 | 868 | 274 | 168 | 111 | 13 | 5 | 4 | 32,293 | |
| | 12 | 30,782 | 4,252 | 1,838 | 1,668 | 619 | 144 | 89 | 76 | 1 | 0 | 39,470 | 614,182 |
| 1983 | 1 | 8,159 | 6,193 | 1,996 | 1,308 | 1,286 | 471 | 93 | 72 | 62 | 1 | 19,641 | |
| | 2 | 3,413 | 3,250 | 3,544 | 1,495 | 1,014 | 1,022 | 380 | 73 | 57 | 51 | 14,297 | |
| | 3 | 2,797 | 1,709 | 2,041 | 2,654 | 1,163 | 808 | 832 | 313 | 60 | 90 | 12,468 | |
| | 4 | 15,660 | 1,693 | 1,192 | 1,526 | 2,067 | 931 | 657 | 689 | 251 | 68 | 24,734 | |
| | 5 | 103,757 | 4,347 | 643 | 893 | 1,188 | 1,650 | 726 | 513 | 567 | 265 | 114,549 | |
| | 6 | 197,666 | 19,241 | 2,009 | 475 | 614 | 799 | 1,125 | 488 | 357 | 625 | 223,399 | |
| | 7 | 86,246 | 25,924 | 7,794 | 1,454 | 330 | 356 | 509 | 799 | 257 | 363 | 124,032 | |
| | 8 | 33,289 | 12,922 | 8,190 | 1,142 | 255 | 168 | 272 | 379 | 623 | 399 | 57,640 | |
| | 9 | 91,385 | 7,046 | 4,225 | 900 | 254 | 171 | 124 | 205 | 286 | 861 | 105,457 | |
| | 10 | 94,468 | 6,025 | 1,926 | 896 | 231 | 60 | 38 | 3 | 1 | 0 | 103,648 | |
| | 11 | 23,469 | 6,711 | 1,307 | 320 | 74 | 21 | 6 | 2 | 1 | 0 | 31,912 | |
| | 12 | 8,048 | 4,248 | 1,122 | 491 | 101 | 27 | 12 | 3 | 1 | 0 | 12,287 | 844,066 |
| 1984 | 1 | 6,229 | 2,065 | 598 | 230 | 160 | 31 | 14 | 7 | 1 | 0 | 9,334 | |
| | 2 | 3,027 | 2,101 | 762 | 388 | 160 | 108 | 14 | 7 | 4 | 0 | 6,571 | |
| | 3 | 2,946 | 1,713 | 1,291 | 527 | 290 | 122 | 75 | 2 | 1 | 2 | 6,969 | |
| | 4 | 8,396 | 1,653 | 1,194 | 932 | 395 | 224 | 94 | 59 | 1 | 3 | 12,950 | |
| | 5 | 66,028 | 5,127 | 1,072 | 880 | 703 | 299 | 178 | 78 | 50 | 3 | 74,416 | |
| | 6 | 138,428 | 27,125 | 3,305 | 801 | 651 | 507 | 212 | 126 | 52 | 40 | 171,247 | |
| | 7 | 146,025 | 41,903 | 9,990 | 2,469 | 569 | 363 | 210 | 39 | 37 | 24 | 201,628 | |
| | 8 | 33,096 | 8,460 | 11,825 | 5,790 | 1,344 | 346 | 181 | 115 | 12 | 43 | 61,214 | |
| | 9 | 24,545 | 5,485 | 3,715 | 3,225 | 1,722 | 511 | 200 | 132 | 94 | 35 | 39,665 | |
| | 10 | 78,423 | 3,648 | 2,133 | 935 | 513 | 148 | 30 | 8 | 4 | 1 | 85,843 | |
| | 11 | 33,389 | 7,394 | 1,087 | 454 | 323 | 80 | 14 | 4 | 0 | 0 | 42,744 | |
| | 12 | 21,238 | 4,728 | 2,956 | 650 | 170 | 162 | 38 | 9 | 3 | 0 | 29,955 | 742,535 |
| 1985 | 1 | 8,002 | 2,812 | 1,507 | 2,113 | 487 | 126 | 130 | 32 | 8 | 3 | 15,219 | |
| | 2 | 2,901 | 2,067 | 1,746 | 1,107 | 1,639 | 383 | 100 | 107 | 26 | 8 | 10,087 | |
| | 3 | 3,058 | 1,258 | 1,333 | 1,191 | 855 | 1,312 | 311 | 80 | 88 | 28 | 9,513 | |
| | 4 | 21,841 | 1,567 | 831 | 998 | 929 | 684 | 1,070 | 254 | 64 | 96 | 28,336 | |
| | 5 | 77,069 | 4,057 | 489 | 623 | 778 | 744 | 558 | 888 | 213 | 136 | 85,554 | |
| | 6 | 126,107 | 27,615 | 1,598 | 366 | 481 | 609 | 587 | 431 | 716 | 260 | 158,771 | |
| | 7 | 239,542 | 41,775 | 8,625 | 947 | 271 | 322 | 338 | 304 | 233 | 765 | 293,122 | |
| | 8 | 61,740 | 39,913 | 13,061 | 2,148 | 334 | 123 | 195 | 252 | 239 | 783 | 118,787 | |
| | 9 | 81,263 | 8,618 | 19,883 | 3,367 | 972 | 241 | 42 | 11 | 8 | 10 | 114,414 | |
| | 10 | 90,545 | 5,988 | 4,286 | 3,275 | 1,760 | 570 | 127 | 10 | 5 | 12 | 106,577 | |
| | 11 | 37,144 | 5,778 | 1,546 | 1,131 | 515 | 93 | 7 | 2 | 1 | 3 | 46,219 | |
| | 12 | 31,936 | 3,334 | 696 | 259 | 91 | 30 | 7 | 2 | 0 | 1 | 36,357 | 1,022,955 |
| 1986 | 1 | 13,891 | 2,354 | 583 | 366 | 137 | 40 | 18 | 5 | 2 | 0 | 17,397 | |
| | 2 | 8,722 | 4,795 | 1,641 | 419 | 281 | 107 | 27 | 11 | 4 | 2 | 16,010 | |
| | 3 | 6,233 | 4,745 | 3,067 | 1,209 | 321 | 222 | 86 | 22 | 9 | 4 | 15,916 | |
| | 4 | 12,773 | 3,246 | 3,198 | 2,244 | 915 | 245 | 174 | 64 | 12 | 5 | 22,876 | |
| | 5 | 73,605 | 6,075 | 2,048 | 2,287 | 1,694 | 707 | 185 | 128 | 40 | 3 | 86,772 | |
| | 6 | 188,384 | 16,322 | 2,512 | 1,534 | 1,782 | 1,352 | 568 | 146 | 103 | 36 | 212,738 | |
| | 7 | 251,211 | 57,902 | 6,111 | 1,876 | 1,073 | 896 | 519 | 265 | 81 | 99 | 320,033 | |
| | 8 | 59,477 | 21,159 | 12,464 | 3,620 | 1,291 | 756 | 572 | 302 | 155 | 67 | 99,863 | |
| | 9 | 47,031 | 8,974 | 8,282 | 3,542 | 1,491 | 661 | 404 | 280 | 89 | 43 | 70,797 | |
| | 10 | 82,962 | 6,590 | 3,632 | 1,083 | 1,189 | 542 | 159 | 106 | 94 | 30 | 96,386 | |
| | 11 | 16,540 | 4,540 | 1,069 | 575 | 138 | 85 | 23 | 3 | 1 | 2 | 22,976 | |
| | 12 | 18,223 | 2,929 | 821 | 126 | 31 | 9 | 2 | 0 | 0 | 0 | 22,142 | 1,003,906 |
| 1987 | 1 | 6,357 | 3,954 | 1,677 | 475 | 67 | 4 | 0 | 0 | 0 | 0 | 12,534 | |
| | 2 | 4,563 | 3,405 | 2,430 | 1,196 | 361 | 48 | 0 | 0 | 0 | 0 | 12,004 | |
| | 3 | 2,574 | 2,679 | 2,271 | 1,795 | 869 | 256 | 32 | 0 | 0 | 0 | 10,476 | |
| | 4 | 17,479 | 1,475 | 1,856 | 1,698 | 1,390 | 692 | 208 | 26 | 0 | 0 | 24,825 | |
| | 5 | 56,134 | 9,078 | 1,029 | 1,390 | 1,323 | 1,112 | 546 | 162 | 22 | 0 | 70,797 | |
| | 6 | 133,620 | 13,581 | 612 | 763 | 1,039 | 874 | 554 | 166 | 71 | 2 | 151,282 | |
| | 7 | 150,076 | 15,646 | 3,016 | 420 | 536 | 614 | 354 | 143 | 47 | 35 | 170,888 | |
| | 8 | 36,019 | 3,714 | 2,183 | 240 | 286 | 316 | 313 | 167 | 59 | 11 | 43,308 | |
| | 9 | 78,556 | 5,269 | 717 | 197 | 137 | 132 | 138 | 91 | 40 | 22 | 85,298 | |
| | 10 | 29,103 | 979 | 354 | 111 | 93 | 55 | 22 | 11 | 5 | 2 | 30,734 | |
| | 11 | 8,673 | 1,404 | 325 | 142 | 60 | 27 | 12 | 6 | 3 | 0 | 10,651 | |
| | 12 | 8,164 | 2,590 | 521 | 232 | 108 | 46 | 21 | 9 | 5 | 3 | 11,699 | 634,498 |

補足表 3-3. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源尾数(百万尾)(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-------|-----|-----|-----|---------|---------|
| 1988 | 1 | 5,926 | 2,249 | 972 | 354 | 134 | 85 | 38 | 17 | 8 | 7 | 9,789 | |
| | 2 | 3,422 | 2,339 | 1,250 | 689 | 273 | 107 | 69 | 31 | 14 | 12 | 8,208 | |
| | 3 | 2,062 | 1,599 | 1,454 | 936 | 537 | 219 | 88 | 57 | 26 | 23 | 7,001 | |
| | 4 | 16,039 | 1,259 | 1,117 | 1,089 | 729 | 430 | 179 | 73 | 48 | 41 | 21,005 | |
| | 5 | 66,770 | 3,820 | 740 | 834 | 842 | 584 | 352 | 148 | 61 | 76 | 74,227 | |
| | 6 | 147,977 | 16,725 | 1,686 | 553 | 647 | 674 | 477 | 292 | 124 | 115 | 169,271 | |
| | 7 | 194,816 | 25,424 | 4,898 | 1,262 | 429 | 509 | 511 | 319 | 156 | 49 | 228,372 | |
| | 8 | 71,251 | 16,448 | 7,258 | 1,805 | 385 | 285 | 381 | 337 | 196 | 109 | 98,454 | |
| | 9 | 46,148 | 5,379 | 5,019 | 2,234 | 646 | 105 | 59 | 44 | 21 | 13 | 59,669 | |
| | 10 | 61,014 | 5,581 | 1,403 | 561 | 310 | 127 | 30 | 8 | 2 | 0 | 69,037 | |
| | 11 | 42,772 | 4,724 | 711 | 622 | 221 | 55 | 14 | 6 | 3 | 0 | 49,129 | |
| | 12 | 5,721 | 3,224 | 712 | 254 | 238 | 41 | 7 | 3 | 1 | 1 | 10,200 | 804,361 |
| 1989 | 1 | 11,298 | 1,740 | 805 | 413 | 181 | 186 | 31 | 5 | 2 | 1 | 14,663 | |
| | 2 | 1,101 | 909 | 884 | 602 | 322 | 145 | 151 | 25 | 3 | 2 | 4,144 | |
| | 3 | 1,615 | 456 | 515 | 662 | 469 | 258 | 118 | 124 | 20 | 4 | 4,240 | |
| | 4 | 23,912 | 605 | 253 | 385 | 516 | 375 | 207 | 95 | 104 | 20 | 26,471 | |
| | 5 | 89,792 | 4,856 | 190 | 188 | 300 | 407 | 281 | 155 | 76 | 104 | 96,351 | |
| | 6 | 171,374 | 23,390 | 652 | 142 | 147 | 240 | 332 | 232 | 129 | 148 | 196,785 | |
| | 7 | 148,618 | 21,511 | 2,661 | 488 | 102 | 78 | 164 | 200 | 132 | 116 | 174,070 | |
| | 8 | 56,216 | 17,166 | 4,502 | 997 | 239 | 56 | 30 | 36 | 65 | 94 | 79,401 | |
| | 9 | 39,811 | 2,542 | 2,092 | 531 | 424 | 128 | 14 | 5 | 8 | 4 | 45,557 | |
| | 10 | 13,106 | 2,900 | 629 | 70 | 12 | 8 | 0 | 0 | 0 | 0 | 16,725 | |
| | 11 | 4,671 | 1,441 | 476 | 107 | 3 | 1 | 0 | 0 | 0 | 0 | 6,699 | |
| | 12 | 5,667 | 1,817 | 295 | 334 | 63 | 2 | 0 | 0 | 0 | 0 | 8,178 | 673,284 |
| 1990 | 1 | 1,068 | 916 | 822 | 167 | 229 | 47 | 1 | 0 | 0 | 0 | 3,251 | |
| | 2 | 1,221 | 595 | 434 | 615 | 128 | 183 | 38 | 0 | 0 | 0 | 3,213 | |
| | 3 | 2,555 | 725 | 371 | 292 | 478 | 103 | 149 | 31 | 0 | 0 | 4,705 | |
| | 4 | 28,296 | 913 | 468 | 273 | 227 | 383 | 83 | 123 | 26 | 0 | 30,794 | |
| | 5 | 41,741 | 3,535 | 593 | 351 | 213 | 181 | 292 | 31 | 92 | 19 | 47,047 | |
| | 6 | 77,750 | 12,327 | 1,590 | 444 | 273 | 170 | 143 | 234 | 21 | 93 | 93,046 | |
| | 7 | 240,647 | 21,068 | 3,042 | 579 | 227 | 129 | 115 | 112 | 195 | 94 | 266,207 | |
| | 8 | 63,728 | 10,813 | 2,884 | 1,002 | 277 | 68 | 65 | 72 | 61 | 203 | 79,172 | |
| | 9 | 21,322 | 2,032 | 1,191 | 657 | 117 | 39 | 28 | 24 | 22 | 89 | 25,520 | |
| | 10 | 52,210 | 1,890 | 457 | 241 | 82 | 36 | 25 | 17 | 10 | 9 | 54,978 | |
| | 11 | 27,519 | 2,561 | 762 | 240 | 137 | 50 | 20 | 8 | 4 | 5 | 31,305 | |
| | 12 | 9,790 | 3,380 | 777 | 487 | 127 | 84 | 36 | 11 | 4 | 7 | 14,702 | 653,940 |
| 1991 | 1 | 7,832 | 3,939 | 1,536 | 548 | 355 | 90 | 66 | 27 | 8 | 9 | 14,412 | |
| | 2 | 6,638 | 4,306 | 2,265 | 994 | 318 | 236 | 64 | 43 | 18 | 12 | 14,894 | |
| | 3 | 3,814 | 3,748 | 2,743 | 1,696 | 774 | 248 | 185 | 49 | 34 | 21 | 13,313 | |
| | 4 | 35,046 | 1,566 | 2,266 | 2,055 | 1,321 | 608 | 189 | 147 | 37 | 39 | 43,273 | |
| | 5 | 70,179 | 4,966 | 1,097 | 1,696 | 1,596 | 1,052 | 489 | 148 | 117 | 54 | 81,394 | |
| | 6 | 102,827 | 3,092 | 523 | 822 | 1,322 | 1,275 | 857 | 404 | 124 | 145 | 111,391 | |
| | 7 | 175,937 | 21,927 | 560 | 392 | 641 | 1,057 | 1,020 | 648 | 286 | 157 | 202,624 | |
| | 8 | 23,629 | 7,727 | 2,027 | 330 | 299 | 501 | 809 | 642 | 335 | 158 | 36,456 | |
| | 9 | 21,086 | 2,510 | 2,178 | 368 | 154 | 152 | 254 | 211 | 122 | 81 | 27,115 | |
| | 10 | 60,489 | 1,150 | 441 | 621 | 158 | 40 | 32 | 28 | 20 | 14 | 62,994 | |
| | 11 | 9,596 | 1,384 | 96 | 154 | 319 | 84 | 26 | 10 | 8 | 11 | 11,688 | |
| | 12 | 3,603 | 792 | 168 | 57 | 35 | 177 | 54 | 17 | 4 | 6 | 4,914 | 624,468 |
| 1992 | 1 | 1,498 | 570 | 174 | 125 | 42 | 26 | 144 | 45 | 14 | 7 | 2,644 | |
| | 2 | 853 | 393 | 245 | 131 | 92 | 22 | 20 | 119 | 37 | 17 | 1,930 | |
| | 3 | 801 | 417 | 246 | 183 | 99 | 67 | 17 | 16 | 100 | 46 | 1,993 | |
| | 4 | 24,539 | 496 | 289 | 184 | 135 | 68 | 52 | 14 | 14 | 124 | 25,916 | |
| | 5 | 96,789 | 7,404 | 322 | 216 | 144 | 108 | 56 | 43 | 11 | 102 | 105,196 | |
| | 6 | 146,903 | 10,016 | 1,472 | 241 | 169 | 115 | 89 | 46 | 36 | 90 | 159,177 | |
| | 7 | 86,964 | 12,912 | 4,367 | 731 | 164 | 135 | 94 | 70 | 29 | 55 | 105,520 | |
| | 8 | 22,625 | 3,558 | 2,752 | 1,765 | 469 | 113 | 71 | 40 | 30 | 6 | 31,429 | |
| | 9 | 23,501 | 1,454 | 1,260 | 840 | 372 | 148 | 45 | 31 | 16 | 23 | 27,691 | |
| | 10 | 28,397 | 1,644 | 458 | 296 | 97 | 62 | 44 | 17 | 7 | 6 | 31,026 | |
| | 11 | 18,938 | 2,048 | 473 | 127 | 47 | 10 | 2 | 0 | 0 | 0 | 21,646 | |
| | 12 | 6,107 | 1,736 | 408 | 272 | 68 | 31 | 7 | 2 | 0 | 0 | 8,631 | 522,797 |
| 1993 | 1 | 4,443 | 1,690 | 434 | 292 | 210 | 53 | 25 | 5 | 1 | 0 | 7,153 | |
| | 2 | 2,075 | 1,053 | 371 | 311 | 212 | 163 | 43 | 20 | 5 | 1 | 4,254 | |
| | 3 | 3,836 | 999 | 497 | 247 | 204 | 158 | 132 | 34 | 16 | 5 | 6,128 | |
| | 4 | 19,033 | 2,061 | 617 | 353 | 168 | 156 | 129 | 108 | 28 | 18 | 22,672 | |
| | 5 | 71,521 | 3,985 | 1,245 | 440 | 269 | 131 | 115 | 90 | 82 | 34 | 77,912 | |
| | 6 | 132,008 | 7,462 | 2,335 | 929 | 338 | 213 | 98 | 82 | 65 | 88 | 143,619 | |
| | 7 | 83,543 | 13,242 | 2,929 | 1,343 | 719 | 265 | 164 | 68 | 54 | 91 | 102,418 | |
| | 8 | 39,192 | 3,131 | 1,935 | 1,094 | 868 | 483 | 131 | 26 | 3 | 9 | 46,873 | |
| | 9 | 16,401 | 3,402 | 605 | 438 | 471 | 281 | 134 | 44 | 12 | 4 | 21,792 | |
| | 10 | 38,677 | 4,137 | 1,299 | 298 | 103 | 71 | 33 | 13 | 3 | 1 | 44,634 | |
| | 11 | 24,485 | 2,648 | 1,022 | 582 | 185 | 49 | 20 | 11 | 4 | 1 | 29,006 | |
| | 12 | 15,551 | 1,292 | 553 | 492 | 259 | 90 | 30 | 10 | 3 | 1 | 18,279 | 524,740 |
| 1994 | 1 | 2,959 | 1,781 | 619 | 399 | 355 | 179 | 57 | 18 | 5 | 2 | 6,375 | |
| | 2 | 1,575 | 1,143 | 560 | 450 | 304 | 268 | 135 | 43 | 14 | 5 | 4,498 | |
| | 3 | 3,662 | 754 | 462 | 419 | 351 | 243 | 216 | 106 | 30 | 12 | 6,257 | |
| | 4 | 25,518 | 973 | 377 | 346 | 327 | 281 | 198 | 177 | 87 | 35 | 28,318 | |
| | 5 | 81,947 | 1,916 | 378 | 281 | 270 | 261 | 224 | 154 | 139 | 97 | 85,667 | |
| | 6 | 72,002 | 8,594 | 743 | 282 | 212 | 207 | 204 | 167 | 113 | 176 | 82,700 | |
| | 7 | 60,728 | 8,470 | 1,840 | 553 | 217 | 160 | 145 | 119 | 84 | 98 | 72,414 | |
| | 8 | 41,681 | 3,908 | 1,603 | 744 | 312 | 84 | 63 | 50 | 24 | 7 | 48,476 | |
| | 9 | 56,873 | 3,712 | 742 | 451 | 167 | 64 | 29 | 16 | 10 | 1 | 62,065 | |
| | 10 | 18,142 | 2,117 | 759 | 247 | 89 | 36 | 28 | 12 | 6 | 2 | 21,439 | |
| | 11 | 8,677 | 1,312 | 520 | 170 | 68 | 34 | 20 | 14 | 4 | 1 | 10,821 | |
| | 12 | 4,912 | 944 | 370 | 256 | 121 | 54 | 28 | 15 | 11 | 4 | 6,716 | 435,746 |

補足表 3-3. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源尾数(百万尾)(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-----|-----|-----|-----|-----|---------|---------|
| 1995 | 1 | 2,823 | 1,664 | 421 | 224 | 195 | 97 | 44 | 21 | 11 | 11 | 5,513 | |
| | 2 | 4,019 | 1,095 | 802 | 308 | 163 | 147 | 71 | 35 | 17 | 17 | 6,674 | |
| | 3 | 13,400 | 1,381 | 509 | 600 | 239 | 129 | 119 | 58 | 29 | 29 | 16,491 | |
| | 4 | 6,438 | 1,070 | 543 | 380 | 466 | 190 | 104 | 98 | 49 | 49 | 9,385 | |
| | 5 | 34,625 | 1,632 | 714 | 405 | 293 | 371 | 153 | 86 | 82 | 82 | 38,443 | |
| | 6 | 95,905 | 6,516 | 1,070 | 531 | 310 | 230 | 299 | 126 | 72 | 139 | 105,198 | |
| | 7 | 76,625 | 10,844 | 1,554 | 750 | 411 | 247 | 175 | 202 | 65 | 76 | 90,948 | |
| | 8 | 31,037 | 7,891 | 1,612 | 869 | 474 | 269 | 127 | 33 | 5 | 1 | 42,317 | |
| | 9 | 42,338 | 3,761 | 690 | 196 | 158 | 107 | 68 | 40 | 22 | 4 | 47,384 | |
| | 10 | 17,369 | 3,234 | 379 | 115 | 75 | 61 | 49 | 20 | 5 | 0 | 21,308 | |
| | 11 | 7,747 | 2,783 | 511 | 182 | 87 | 57 | 45 | 28 | 7 | 0 | 11,446 | |
| | 12 | 5,261 | 1,518 | 755 | 326 | 142 | 69 | 44 | 25 | 12 | 1 | 8,153 | 403,261 |
| 1996 | 1 | 3,007 | 1,094 | 325 | 171 | 249 | 114 | 55 | 26 | 11 | 7 | 5,059 | |
| | 2 | 2,205 | 1,082 | 426 | 240 | 132 | 197 | 90 | 40 | 17 | 10 | 4,438 | |
| | 3 | 3,324 | 910 | 517 | 318 | 184 | 100 | 155 | 65 | 26 | 16 | 5,615 | |
| | 4 | 32,347 | 1,291 | 627 | 387 | 246 | 143 | 78 | 122 | 49 | 29 | 35,320 | |
| | 5 | 92,464 | 2,753 | 807 | 469 | 298 | 191 | 111 | 55 | 95 | 58 | 97,302 | |
| | 6 | 65,786 | 4,793 | 1,144 | 598 | 350 | 205 | 117 | 71 | 39 | 126 | 73,230 | |
| | 7 | 78,648 | 11,822 | 1,887 | 857 | 465 | 262 | 148 | 80 | 45 | 77 | 94,291 | |
| | 8 | 28,470 | 4,958 | 2,518 | 959 | 588 | 272 | 143 | 55 | 28 | 16 | 38,006 | |
| | 9 | 18,690 | 2,150 | 752 | 490 | 331 | 151 | 59 | 21 | 8 | 6 | 22,658 | |
| | 10 | 9,616 | 1,531 | 233 | 215 | 154 | 70 | 31 | 11 | 4 | 3 | 11,867 | |
| | 11 | 8,268 | 1,298 | 214 | 159 | 95 | 46 | 21 | 19 | 7 | 4 | 10,130 | |
| | 12 | 6,074 | 1,846 | 270 | 157 | 111 | 62 | 30 | 16 | 15 | 9 | 8,591 | 406,508 |
| 1997 | 1 | 4,316 | 1,256 | 259 | 198 | 103 | 67 | 40 | 22 | 12 | 20 | 6,293 | |
| | 2 | 762 | 703 | 230 | 193 | 149 | 73 | 43 | 25 | 15 | 24 | 2,218 | |
| | 3 | 2,443 | 242 | 231 | 172 | 148 | 115 | 53 | 31 | 19 | 31 | 3,485 | |
| | 4 | 31,569 | 627 | 170 | 173 | 134 | 117 | 92 | 43 | 26 | 42 | 32,994 | |
| | 5 | 36,862 | 3,605 | 435 | 127 | 133 | 103 | 91 | 73 | 35 | 56 | 41,518 | |
| | 6 | 107,317 | 5,141 | 1,657 | 325 | 92 | 94 | 68 | 65 | 56 | 72 | 114,888 | |
| | 7 | 90,371 | 13,310 | 1,405 | 1,241 | 250 | 44 | 15 | 10 | 6 | 11 | 106,663 | |
| | 8 | 33,378 | 5,771 | 2,178 | 762 | 748 | 160 | 24 | 8 | 4 | 8 | 43,041 | |
| | 9 | 7,831 | 2,770 | 492 | 166 | 174 | 261 | 54 | 12 | 1 | 0 | 11,761 | |
| | 10 | 27,760 | 2,923 | 529 | 53 | 68 | 107 | 200 | 40 | 9 | 1 | 31,689 | |
| | 11 | 12,653 | 2,828 | 551 | 154 | 30 | 54 | 43 | 110 | 13 | 1 | 16,437 | |
| | 12 | 4,003 | 1,484 | 402 | 376 | 120 | 24 | 27 | 14 | 85 | 9 | 6,545 | 417,532 |
| 1998 | 1 | 1,890 | 817 | 422 | 248 | 293 | 96 | 5 | 5 | 6 | 77 | 3,859 | |
| | 2 | 1,611 | 668 | 198 | 316 | 194 | 234 | 78 | 4 | 4 | 56 | 3,363 | |
| | 3 | 8,004 | 937 | 418 | 148 | 246 | 155 | 191 | 64 | 3 | 47 | 10,214 | |
| | 4 | 48,598 | 1,715 | 658 | 313 | 115 | 197 | 126 | 158 | 54 | 27 | 51,961 | |
| | 5 | 51,977 | 3,863 | 967 | 493 | 244 | 91 | 159 | 101 | 130 | 65 | 58,090 | |
| | 6 | 44,962 | 5,042 | 1,853 | 724 | 383 | 189 | 65 | 116 | 75 | 152 | 53,560 | |
| | 7 | 69,959 | 7,818 | 1,072 | 1,309 | 561 | 300 | 145 | 36 | 81 | 130 | 81,411 | |
| | 8 | 17,915 | 3,504 | 1,004 | 582 | 948 | 190 | 74 | 64 | 13 | 127 | 24,420 | |
| | 9 | 8,173 | 1,257 | 445 | 320 | 284 | 602 | 48 | 27 | 48 | 86 | 11,289 | |
| | 10 | 39,512 | 1,601 | 370 | 249 | 217 | 170 | 425 | 22 | 17 | 105 | 42,689 | |
| | 11 | 12,626 | 2,359 | 236 | 146 | 142 | 101 | 64 | 330 | 11 | 73 | 16,086 | |
| | 12 | 10,097 | 1,960 | 178 | 71 | 72 | 72 | 51 | 43 | 274 | 64 | 12,883 | 369,826 |
| 1999 | 1 | 3,257 | 2,214 | 281 | 133 | 55 | 49 | 44 | 39 | 35 | 286 | 6,392 | |
| | 2 | 2,729 | 1,038 | 483 | 209 | 103 | 44 | 40 | 35 | 31 | 259 | 4,970 | |
| | 3 | 6,910 | 1,351 | 689 | 362 | 163 | 83 | 35 | 31 | 27 | 227 | 9,877 | |
| | 4 | 88,803 | 1,337 | 789 | 516 | 282 | 130 | 68 | 29 | 26 | 212 | 92,191 | |
| | 5 | 234,795 | 4,911 | 909 | 591 | 402 | 226 | 106 | 55 | 23 | 189 | 242,206 | |
| | 6 | 135,995 | 8,590 | 1,996 | 680 | 461 | 322 | 184 | 87 | 45 | 173 | 148,533 | |
| | 7 | 54,557 | 9,830 | 2,250 | 1,384 | 524 | 335 | 175 | 85 | 43 | 97 | 69,279 | |
| | 8 | 28,284 | 5,320 | 1,930 | 1,201 | 884 | 363 | 206 | 111 | 50 | 63 | 38,411 | |
| | 9 | 16,100 | 1,051 | 672 | 876 | 753 | 620 | 259 | 128 | 57 | 32 | 20,547 | |
| | 10 | 20,497 | 1,779 | 322 | 497 | 671 | 549 | 418 | 167 | 71 | 39 | 25,011 | |
| | 11 | 7,338 | 1,179 | 230 | 236 | 365 | 385 | 198 | 259 | 97 | 55 | 10,342 | |
| | 12 | 2,461 | 827 | 289 | 168 | 166 | 175 | 120 | 92 | 180 | 95 | 4,574 | 672,334 |
| 2000 | 1 | 3,022 | 754 | 256 | 215 | 126 | 97 | 85 | 80 | 67 | 224 | 4,928 | |
| | 2 | 2,456 | 1,332 | 282 | 192 | 168 | 101 | 79 | 70 | 63 | 209 | 4,952 | |
| | 3 | 7,203 | 1,217 | 595 | 211 | 150 | 134 | 82 | 64 | 51 | 170 | 9,876 | |
| | 4 | 41,174 | 1,651 | 823 | 445 | 164 | 120 | 110 | 67 | 52 | 172 | 44,778 | |
| | 5 | 87,146 | 5,740 | 1,149 | 617 | 347 | 132 | 98 | 91 | 56 | 188 | 95,564 | |
| | 6 | 197,739 | 11,373 | 2,288 | 860 | 481 | 278 | 108 | 81 | 76 | 203 | 213,486 | |
| | 7 | 139,504 | 18,019 | 4,106 | 1,712 | 669 | 369 | 184 | 55 | 43 | 94 | 164,755 | |
| | 8 | 43,760 | 5,870 | 4,208 | 1,806 | 987 | 485 | 280 | 145 | 42 | 93 | 57,675 | |
| | 9 | 8,584 | 1,738 | 1,928 | 813 | 666 | 501 | 302 | 166 | 87 | 38 | 14,824 | |
| | 10 | 12,553 | 1,210 | 262 | 561 | 435 | 346 | 206 | 76 | 38 | 33 | 15,719 | |
| | 11 | 5,487 | 1,835 | 286 | 139 | 289 | 164 | 89 | 55 | 25 | 22 | 8,390 | |
| | 12 | 7,194 | 1,987 | 364 | 119 | 93 | 216 | 118 | 64 | 42 | 37 | 10,233 | 645,181 |
| 2001 | 1 | 3,988 | 2,063 | 571 | 264 | 87 | 70 | 173 | 95 | 53 | 66 | 7,432 | |
| | 2 | 2,775 | 1,383 | 677 | 411 | 206 | 69 | 57 | 143 | 80 | 100 | 5,901 | |
| | 3 | 6,453 | 1,343 | 486 | 313 | 317 | 156 | 47 | 39 | 115 | 145 | 9,414 | |
| | 4 | 14,600 | 2,464 | 797 | 303 | 243 | 251 | 125 | 36 | 32 | 218 | 19,070 | |
| | 5 | 43,194 | 3,941 | 1,643 | 597 | 236 | 194 | 203 | 102 | 30 | 208 | 50,347 | |
| | 6 | 173,582 | 9,243 | 2,648 | 1,230 | 466 | 189 | 158 | 168 | 86 | 201 | 187,972 | |
| | 7 | 112,262 | 20,120 | 4,628 | 1,979 | 959 | 372 | 152 | 123 | 124 | 162 | 140,881 | |
| | 8 | 57,181 | 4,995 | 3,101 | 2,094 | 1,289 | 553 | 156 | 87 | 57 | 142 | 69,657 | |
| | 9 | 11,775 | 2,219 | 1,550 | 925 | 602 | 248 | 79 | 32 | 19 | 49 | 17,498 | |
| | 10 | 12,555 | 2,287 | 792 | 613 | 383 | 191 | 70 | 26 | 11 | 24 | 16,952 | |
| | 11 | 17,877 | 843 | 831 | 412 | 373 | 123 | 60 | 21 | 14 | 24 | 20,576 | |
| | 12 | 7,068 | 1,718 | 419 | 586 | 301 | 261 | 80 | 42 | 16 | 32 | 10,524 | 556,223 |

補足表 3-3. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源尾数(百万尾)(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-------|-----|-----|-----|---------|---------|
| 2002 | 1 | 4,192 | 2,199 | 457 | 302 | 454 | 235 | 210 | 66 | 35 | 41 | 8,192 | |
| | 2 | 4,039 | 1,872 | 932 | 286 | 231 | 364 | 192 | 174 | 55 | 64 | 8,208 | |
| | 3 | 4,557 | 2,414 | 961 | 594 | 168 | 153 | 276 | 153 | 144 | 100 | 9,521 | |
| | 4 | 23,204 | 2,836 | 1,134 | 607 | 410 | 109 | 118 | 229 | 128 | 207 | 28,983 | |
| | 5 | 31,567 | 6,242 | 1,961 | 849 | 473 | 328 | 85 | 93 | 188 | 278 | 42,066 | |
| | 6 | 149,708 | 9,275 | 3,398 | 1,469 | 662 | 379 | 268 | 70 | 77 | 393 | 165,698 | |
| | 7 | 74,426 | 16,860 | 3,664 | 2,538 | 1,141 | 505 | 270 | 196 | 31 | 224 | 99,856 | |
| | 8 | 53,936 | 4,375 | 2,141 | 1,437 | 1,172 | 521 | 211 | 144 | 145 | 139 | 64,220 | |
| | 9 | 131,693 | 6,087 | 1,127 | 737 | 417 | 184 | 61 | 36 | 69 | 191 | 140,602 | |
| | 10 | 85,055 | 9,171 | 787 | 413 | 265 | 49 | 19 | 10 | 8 | 124 | 95,901 | |
| | 11 | 21,123 | 3,902 | 857 | 476 | 274 | 169 | 18 | 8 | 7 | 104 | 26,939 | |
| | 12 | 5,328 | 2,334 | 619 | 342 | 229 | 113 | 123 | 11 | 6 | 85 | 9,189 | 699,374 |
| 2003 | 1 | 1,951 | 1,013 | 434 | 247 | 174 | 119 | 88 | 102 | 9 | 76 | 4,213 | |
| | 2 | 1,286 | 726 | 337 | 268 | 175 | 129 | 96 | 73 | 85 | 71 | 3,245 | |
| | 3 | 6,341 | 703 | 304 | 208 | 209 | 138 | 93 | 66 | 47 | 103 | 8,212 | |
| | 4 | 79,490 | 3,697 | 475 | 227 | 162 | 167 | 113 | 75 | 53 | 115 | 84,575 | |
| | 5 | 168,682 | 5,766 | 881 | 356 | 177 | 130 | 136 | 93 | 63 | 139 | 176,424 | |
| | 6 | 91,502 | 19,459 | 2,049 | 660 | 278 | 142 | 106 | 113 | 78 | 170 | 114,557 | |
| | 7 | 93,611 | 21,815 | 3,991 | 1,225 | 503 | 220 | 111 | 70 | 57 | 66 | 121,669 | |
| | 8 | 28,216 | 11,094 | 4,003 | 1,578 | 677 | 314 | 152 | 84 | 51 | 90 | 46,259 | |
| | 9 | 23,952 | 3,099 | 2,199 | 1,319 | 695 | 328 | 169 | 94 | 63 | 111 | 32,029 | |
| | 10 | 31,190 | 5,329 | 918 | 950 | 797 | 468 | 209 | 80 | 28 | 27 | 39,994 | |
| | 11 | 11,319 | 3,614 | 778 | 362 | 695 | 520 | 209 | 86 | 36 | 26 | 17,646 | |
| | 12 | 12,919 | 2,611 | 1,117 | 369 | 121 | 491 | 420 | 173 | 72 | 52 | 18,345 | 667,169 |
| 2004 | 1 | 6,254 | 2,111 | 791 | 676 | 160 | 34 | 396 | 348 | 145 | 105 | 11,019 | |
| | 2 | 2,876 | 1,172 | 546 | 501 | 506 | 111 | 16 | 323 | 289 | 210 | 6,549 | |
| | 3 | 3,932 | 346 | 245 | 292 | 361 | 380 | 72 | 3 | 266 | 420 | 6,318 | |
| | 4 | 137,064 | 1,907 | 217 | 184 | 228 | 289 | 309 | 59 | 2 | 577 | 140,835 | |
| | 5 | 79,420 | 6,517 | 389 | 153 | 140 | 179 | 235 | 256 | 49 | 472 | 87,810 | |
| | 6 | 66,376 | 5,887 | 1,273 | 292 | 119 | 111 | 146 | 195 | 215 | 435 | 75,048 | |
| | 7 | 51,476 | 16,273 | 1,952 | 606 | 213 | 92 | 85 | 79 | 69 | 196 | 71,042 | |
| | 8 | 45,741 | 4,445 | 1,641 | 670 | 387 | 165 | 72 | 52 | 30 | 114 | 53,316 | |
| | 9 | 14,864 | 6,106 | 950 | 409 | 186 | 131 | 66 | 33 | 20 | 12 | 22,777 | |
| | 10 | 14,236 | 3,377 | 800 | 454 | 205 | 58 | 12 | 5 | 2 | 1 | 19,150 | |
| | 11 | 2,844 | 1,078 | 410 | 288 | 111 | 60 | 19 | 7 | 3 | 2 | 4,822 | |
| | 12 | 6,335 | 1,020 | 238 | 220 | 137 | 50 | 39 | 16 | 6 | 3 | 8,065 | 506,751 |
| 2005 | 1 | 2,782 | 883 | 237 | 147 | 137 | 93 | 33 | 29 | 11 | 6 | 4,357 | |
| | 2 | 2,512 | 1,041 | 361 | 175 | 114 | 110 | 76 | 27 | 24 | 15 | 4,456 | |
| | 3 | 4,437 | 1,516 | 684 | 269 | 136 | 90 | 89 | 62 | 23 | 33 | 7,339 | |
| | 4 | 27,164 | 2,242 | 993 | 512 | 210 | 109 | 74 | 74 | 52 | 47 | 31,476 | |
| | 5 | 47,099 | 3,210 | 1,435 | 737 | 398 | 165 | 86 | 60 | 61 | 84 | 53,335 | |
| | 6 | 81,755 | 12,430 | 1,752 | 1,075 | 575 | 318 | 133 | 67 | 45 | 109 | 98,258 | |
| | 7 | 66,085 | 18,036 | 2,717 | 1,193 | 800 | 415 | 238 | 88 | 35 | 53 | 89,661 | |
| | 8 | 41,409 | 7,244 | 4,071 | 1,164 | 720 | 509 | 250 | 152 | 61 | 46 | 55,626 | |
| | 9 | 9,236 | 3,839 | 3,159 | 1,410 | 314 | 145 | 143 | 104 | 76 | 45 | 18,471 | |
| | 10 | 8,768 | 2,167 | 2,338 | 1,263 | 633 | 203 | 66 | 60 | 40 | 44 | 15,582 | |
| | 11 | 14,506 | 3,339 | 1,064 | 1,220 | 872 | 422 | 140 | 30 | 18 | 11 | 21,623 | |
| | 12 | 11,438 | 3,145 | 1,410 | 596 | 814 | 365 | 93 | 29 | 8 | 3 | 17,901 | 418,085 |
| 2006 | 1 | 6,403 | 2,876 | 1,306 | 804 | 378 | 504 | 187 | 39 | 22 | 8 | 12,529 | |
| | 2 | 2,248 | 2,728 | 1,907 | 978 | 617 | 163 | 344 | 154 | 33 | 26 | 9,196 | |
| | 3 | 2,676 | 1,294 | 859 | 764 | 761 | 487 | 133 | 285 | 129 | 49 | 7,437 | |
| | 4 | 19,985 | 1,223 | 860 | 643 | 595 | 609 | 390 | 90 | 220 | 136 | 24,751 | |
| | 5 | 31,075 | 2,103 | 822 | 644 | 501 | 477 | 489 | 297 | 49 | 270 | 36,727 | |
| | 6 | 76,236 | 3,418 | 1,196 | 613 | 496 | 392 | 377 | 391 | 242 | 237 | 83,599 | |
| | 7 | 59,625 | 18,174 | 2,155 | 877 | 438 | 344 | 251 | 205 | 243 | 304 | 82,615 | |
| | 8 | 45,657 | 6,005 | 2,777 | 1,064 | 630 | 329 | 259 | 146 | 102 | 336 | 57,306 | |
| | 9 | 31,062 | 3,025 | 1,378 | 936 | 677 | 458 | 207 | 100 | 31 | 44 | 37,917 | |
| | 10 | 22,119 | 7,386 | 652 | 366 | 429 | 277 | 128 | 43 | 12 | 2 | 31,413 | |
| | 11 | 12,635 | 2,813 | 152 | 464 | 257 | 194 | 74 | 23 | 9 | 3 | 16,625 | |
| | 12 | 7,864 | 1,640 | 1,583 | 67 | 352 | 171 | 98 | 23 | 7 | 2 | 11,805 | 411,922 |
| 2007 | 1 | 4,805 | 3,248 | 584 | 547 | 16 | 275 | 124 | 69 | 15 | 4 | 9,686 | |
| | 2 | 3,691 | 1,832 | 936 | 344 | 426 | 11 | 223 | 101 | 57 | 16 | 7,637 | |
| | 3 | 7,156 | 1,378 | 731 | 499 | 268 | 341 | 9 | 185 | 85 | 62 | 10,713 | |
| | 4 | 22,371 | 2,018 | 919 | 545 | 389 | 215 | 279 | 7 | 155 | 124 | 27,022 | |
| | 5 | 40,491 | 2,923 | 943 | 688 | 424 | 311 | 175 | 230 | 5 | 235 | 46,426 | |
| | 6 | 125,889 | 8,528 | 1,250 | 704 | 537 | 340 | 254 | 145 | 193 | 198 | 138,037 | |
| | 7 | 94,069 | 15,171 | 2,563 | 905 | 549 | 428 | 269 | 191 | 96 | 285 | 114,525 | |
| | 8 | 61,927 | 8,072 | 4,347 | 1,186 | 597 | 428 | 316 | 166 | 107 | 69 | 77,215 | |
| | 9 | 11,307 | 3,615 | 2,482 | 1,136 | 345 | 280 | 228 | 109 | 42 | 20 | 19,563 | |
| | 10 | 17,457 | 3,832 | 602 | 390 | 210 | 73 | 19 | 8 | 2 | 1 | 22,594 | |
| | 11 | 32,698 | 3,563 | 925 | 189 | 170 | 64 | 35 | 9 | 2 | 1 | 37,656 | |
| | 12 | 11,436 | 2,793 | 1,586 | 562 | 98 | 129 | 52 | 28 | 7 | 2 | 16,693 | 527,766 |
| 2008 | 1 | 3,671 | 2,802 | 1,216 | 971 | 438 | 76 | 102 | 41 | 23 | 7 | 9,346 | |
| | 2 | 5,146 | 2,016 | 1,546 | 853 | 717 | 339 | 57 | 80 | 34 | 25 | 10,814 | |
| | 3 | 11,211 | 3,201 | 1,375 | 1,033 | 580 | 550 | 267 | 38 | 66 | 49 | 18,370 | |
| | 4 | 14,950 | 4,915 | 2,148 | 928 | 736 | 443 | 441 | 214 | 31 | 96 | 24,902 | |
| | 5 | 20,689 | 7,350 | 3,363 | 1,609 | 721 | 580 | 338 | 346 | 172 | 93 | 35,261 | |
| | 6 | 101,805 | 6,465 | 5,007 | 2,519 | 1,254 | 578 | 469 | 267 | 283 | 221 | 118,869 | |
| | 7 | 117,537 | 16,862 | 2,959 | 3,734 | 1,926 | 939 | 409 | 320 | 137 | 279 | 145,102 | |
| | 8 | 22,027 | 8,313 | 3,279 | 1,270 | 2,597 | 1,378 | 696 | 300 | 236 | 258 | 40,354 | |
| | 9 | 64,272 | 1,668 | 2,302 | 1,470 | 656 | 1,561 | 824 | 452 | 174 | 250 | 73,629 | |
| | 10 | 87,690 | 5,940 | 857 | 1,353 | 679 | 268 | 1,092 | 556 | 332 | 311 | 99,076 | |
| | 11 | 23,203 | 3,681 | 768 | 580 | 953 | 304 | 47 | 854 | 457 | 540 | 31,387 | |
| | 12 | 7,543 | 2,616 | 1,089 | 571 | 425 | 612 | 172 | 20 | 714 | 843 | 14,606 | 621,715 |

補足表 3-3. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源尾数(百万尾)(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-----|-----|-----|-------|---------|---------|
| 2009 | 1 | 4,760 | 1,217 | 640 | 812 | 441 | 329 | 486 | 135 | 15 | 1,317 | 10,153 | |
| | 2 | 3,513 | 1,579 | 742 | 474 | 623 | 348 | 265 | 400 | 112 | 1,093 | 9,148 | |
| | 3 | 2,370 | 1,940 | 971 | 550 | 359 | 493 | 280 | 215 | 333 | 996 | 8,506 | |
| | 4 | 23,005 | 1,295 | 1,356 | 727 | 429 | 287 | 402 | 232 | 178 | 1,091 | 29,002 | |
| | 5 | 81,484 | 2,477 | 843 | 1,015 | 567 | 343 | 234 | 329 | 186 | 972 | 88,450 | |
| | 6 | 133,503 | 7,628 | 1,336 | 632 | 792 | 453 | 279 | 191 | 270 | 906 | 145,990 | |
| | 7 | 115,439 | 15,571 | 3,821 | 980 | 493 | 633 | 368 | 212 | 91 | 282 | 137,890 | |
| | 8 | 81,922 | 6,338 | 4,241 | 1,614 | 718 | 301 | 288 | 141 | 88 | 91 | 95,742 | |
| | 9 | 25,171 | 1,778 | 810 | 1,222 | 1,079 | 521 | 191 | 154 | 31 | 25 | 30,982 | |
| | 10 | 34,008 | 5,142 | 666 | 483 | 582 | 343 | 185 | 97 | 112 | 37 | 41,654 | |
| | 11 | 12,536 | 2,745 | 1,009 | 438 | 363 | 401 | 211 | 123 | 76 | 124 | 18,028 | |
| | 12 | 10,004 | 2,304 | 1,455 | 343 | 275 | 170 | 280 | 167 | 103 | 168 | 15,270 | 630,814 |
| 2010 | 1 | 4,345 | 2,181 | 953 | 888 | 236 | 160 | 116 | 229 | 140 | 229 | 9,479 | |
| | 2 | 2,132 | 1,046 | 926 | 546 | 661 | 143 | 111 | 91 | 190 | 312 | 6,159 | |
| | 3 | 3,325 | 1,103 | 634 | 530 | 376 | 498 | 97 | 81 | 69 | 418 | 7,131 | |
| | 4 | 19,117 | 1,829 | 754 | 475 | 413 | 301 | 407 | 80 | 68 | 411 | 23,854 | |
| | 5 | 57,278 | 4,011 | 1,129 | 564 | 370 | 331 | 246 | 336 | 65 | 396 | 64,726 | |
| | 6 | 158,222 | 10,085 | 2,178 | 841 | 439 | 296 | 268 | 200 | 277 | 365 | 173,171 | |
| | 7 | 103,895 | 12,720 | 2,953 | 1,614 | 653 | 349 | 219 | 172 | 76 | 240 | 122,891 | |
| | 8 | 53,994 | 4,518 | 1,946 | 1,561 | 989 | 482 | 272 | 167 | 117 | 116 | 64,162 | |
| | 9 | 43,380 | 3,115 | 1,461 | 791 | 722 | 379 | 202 | 105 | 51 | 49 | 50,254 | |
| | 10 | 120,521 | 4,989 | 1,472 | 413 | 227 | 105 | 51 | 43 | 33 | 28 | 127,882 | |
| | 11 | 42,682 | 6,390 | 1,459 | 491 | 282 | 110 | 33 | 23 | 16 | 14 | 51,499 | |
| | 12 | 9,034 | 3,804 | 1,407 | 744 | 355 | 177 | 55 | 14 | 7 | 4 | 15,600 | 716,809 |
| 2011 | 1 | 5,273 | 4,000 | 1,690 | 1,052 | 570 | 218 | 82 | 30 | 9 | 9 | 12,934 | |
| | 2 | 2,933 | 2,993 | 2,318 | 1,256 | 816 | 451 | 176 | 67 | 25 | 15 | 11,049 | |
| | 3 | 2,835 | 1,737 | 1,969 | 1,467 | 975 | 649 | 354 | 132 | 49 | 29 | 10,197 | |
| | 4 | 4,792 | 1,031 | 1,196 | 1,285 | 1,141 | 778 | 522 | 286 | 107 | 64 | 11,202 | |
| | 5 | 12,727 | 1,518 | 645 | 723 | 1,000 | 902 | 553 | 356 | 200 | 119 | 18,743 | |
| | 6 | 29,821 | 5,596 | 936 | 326 | 561 | 788 | 647 | 376 | 255 | 241 | 39,546 | |
| | 7 | 51,001 | 8,603 | 2,627 | 701 | 252 | 419 | 505 | 343 | 171 | 257 | 64,878 | |
| | 8 | 147,736 | 5,650 | 3,838 | 1,545 | 510 | 169 | 121 | 129 | 120 | 145 | 159,963 | |
| | 9 | 22,720 | 4,565 | 2,315 | 1,910 | 887 | 339 | 90 | 38 | 44 | 88 | 32,996 | |
| | 10 | 24,567 | 3,093 | 1,664 | 1,269 | 1,429 | 535 | 152 | 39 | 12 | 2 | 32,762 | |
| | 11 | 20,104 | 2,916 | 595 | 1,156 | 922 | 835 | 66 | 4 | 2 | 1 | 26,600 | |
| | 12 | 15,487 | 3,188 | 805 | 430 | 845 | 472 | 486 | 13 | 0 | 0 | 21,727 | 442,596 |
| 2012 | 1 | 5,800 | 3,447 | 1,009 | 603 | 335 | 676 | 378 | 395 | 9 | 0 | 12,653 | |
| | 2 | 3,113 | 1,327 | 864 | 748 | 460 | 262 | 548 | 312 | 331 | 8 | 7,974 | |
| | 3 | 3,875 | 971 | 795 | 618 | 545 | 344 | 199 | 447 | 259 | 285 | 8,337 | |
| | 4 | 14,093 | 2,050 | 634 | 595 | 461 | 391 | 267 | 160 | 371 | 454 | 19,477 | |
| | 5 | 17,837 | 1,827 | 524 | 475 | 450 | 340 | 310 | 218 | 132 | 694 | 22,806 | |
| | 6 | 48,025 | 4,752 | 1,013 | 388 | 359 | 339 | 266 | 242 | 169 | 624 | 56,177 | |
| | 7 | 93,903 | 14,861 | 2,052 | 759 | 300 | 255 | 220 | 172 | 153 | 431 | 113,105 | |
| | 8 | 124,282 | 6,379 | 4,232 | 1,053 | 357 | 226 | 167 | 123 | 81 | 247 | 137,148 | |
| | 9 | 98,737 | 8,110 | 3,035 | 618 | 275 | 79 | 33 | 24 | 16 | 33 | 110,960 | |
| | 10 | 82,430 | 7,236 | 1,895 | 1,348 | 274 | 66 | 18 | 13 | 9 | 23 | 93,311 | |
| | 11 | 24,873 | 4,235 | 1,589 | 844 | 316 | 103 | 50 | 15 | 11 | 26 | 32,063 | |
| | 12 | 12,605 | 3,978 | 946 | 717 | 329 | 159 | 79 | 41 | 12 | 31 | 18,898 | 632,908 |
| 2013 | 1 | 5,790 | 3,435 | 1,496 | 651 | 554 | 260 | 125 | 62 | 32 | 32 | 12,437 | |
| | 2 | 3,769 | 3,026 | 2,074 | 966 | 459 | 422 | 203 | 101 | 51 | 51 | 11,122 | |
| | 3 | 4,107 | 2,218 | 1,971 | 1,415 | 684 | 331 | 341 | 167 | 84 | 84 | 11,402 | |
| | 4 | 6,464 | 2,236 | 1,368 | 1,375 | 1,069 | 534 | 268 | 281 | 140 | 140 | 13,875 | |
| | 5 | 47,399 | 2,243 | 1,434 | 995 | 1,047 | 841 | 436 | 222 | 236 | 236 | 55,088 | |
| | 6 | 81,516 | 8,310 | 1,193 | 842 | 699 | 807 | 682 | 358 | 185 | 394 | 94,985 | |
| | 7 | 81,861 | 9,034 | 2,975 | 893 | 656 | 524 | 449 | 250 | 162 | 171 | 96,977 | |
| | 8 | 52,883 | 8,759 | 3,049 | 1,443 | 639 | 469 | 279 | 127 | 50 | 65 | 67,764 | |
| | 9 | 101,206 | 6,433 | 2,014 | 840 | 337 | 226 | 178 | 108 | 43 | 19 | 111,405 | |
| | 10 | 46,956 | 5,640 | 896 | 1,039 | 622 | 255 | 114 | 34 | 8 | 0 | 55,564 | |
| | 11 | 24,983 | 5,988 | 1,272 | 527 | 716 | 287 | 76 | 9 | 2 | 0 | 33,861 | |
| | 12 | 14,840 | 7,318 | 2,837 | 914 | 286 | 109 | 26 | 6 | 1 | 0 | 26,337 | 590,817 |
| 2014 | 1 | 6,342 | 4,417 | 2,610 | 2,050 | 641 | 190 | 63 | 14 | 3 | 0 | 16,330 | |
| | 2 | 2,037 | 3,069 | 2,765 | 1,835 | 1,469 | 429 | 116 | 37 | 7 | 1 | 11,764 | |
| | 3 | 1,952 | 1,118 | 2,068 | 1,936 | 1,280 | 1,067 | 299 | 72 | 22 | 3 | 9,818 | |
| | 4 | 12,839 | 1,199 | 783 | 1,545 | 1,496 | 969 | 727 | 147 | 34 | 4 | 19,743 | |
| | 5 | 58,615 | 3,430 | 513 | 583 | 1,193 | 1,139 | 615 | 480 | 91 | 12 | 66,670 | |
| | 6 | 122,802 | 5,064 | 986 | 384 | 454 | 953 | 921 | 503 | 401 | 86 | 132,553 | |
| | 7 | 83,681 | 9,098 | 2,077 | 724 | 295 | 258 | 238 | 167 | 150 | 250 | 96,937 | |
| | 8 | 62,961 | 4,457 | 2,807 | 1,210 | 536 | 128 | 57 | 33 | 23 | 68 | 72,281 | |
| | 9 | 31,592 | 6,892 | 2,018 | 1,320 | 741 | 291 | 59 | 24 | 16 | 21 | 42,974 | |
| | 10 | 33,598 | 6,913 | 2,322 | 1,180 | 719 | 335 | 139 | 23 | 4 | 4 | 45,238 | |
| | 11 | 15,043 | 3,773 | 1,183 | 1,108 | 704 | 467 | 225 | 114 | 19 | 6 | 22,643 | |
| | 12 | 12,689 | 4,557 | 1,548 | 685 | 687 | 348 | 292 | 99 | 43 | 12 | 20,961 | 557,910 |
| 2015 | 1 | 7,158 | 4,337 | 1,390 | 989 | 403 | 414 | 241 | 174 | 39 | 39 | 15,184 | |
| | 2 | 3,325 | 2,767 | 1,719 | 1,009 | 748 | 300 | 328 | 182 | 128 | 44 | 10,549 | |
| | 3 | 2,858 | 1,697 | 1,671 | 1,271 | 773 | 572 | 218 | 265 | 147 | 142 | 9,614 | |
| | 4 | 12,306 | 1,326 | 1,121 | 1,226 | 970 | 575 | 422 | 161 | 196 | 200 | 18,502 | |
| | 5 | 55,628 | 2,574 | 903 | 839 | 955 | 774 | 460 | 325 | 101 | 268 | 62,828 | |
| | 6 | 114,124 | 5,477 | 1,000 | 676 | 654 | 765 | 631 | 372 | 250 | 153 | 124,102 | |
| | 7 | 73,212 | 9,969 | 2,432 | 749 | 527 | 507 | 456 | 294 | 124 | 85 | 88,353 | |
| | 8 | 57,916 | 6,220 | 1,813 | 1,651 | 568 | 379 | 290 | 197 | 106 | 50 | 69,190 | |
| | 9 | 21,182 | 4,483 | 1,563 | 1,125 | 1,179 | 352 | 192 | 93 | 46 | 14 | 30,229 | |
| | 10 | 44,261 | 5,522 | 1,806 | 749 | 626 | 575 | 126 | 37 | 16 | 0 | 53,718 | |
| | 11 | 21,960 | 4,078 | 1,682 | 651 | 401 | 290 | 349 | 88 | 25 | 8 | 29,532 | |
| | 12 | 32,256 | 3,531 | 1,635 | 784 | 185 | 167 | 122 | 204 | 54 | 19 | 38,957 | 550,758 |

補足表 3-3. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源尾数(百万尾)(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-----|-----|-----|-----|---------|---------|
| 2016 | 1 | 12,186 | 5,361 | 1,599 | 1,004 | 466 | 87 | 86 | 59 | 162 | 57 | 21,067 | |
| | 2 | 7,550 | 3,036 | 1,531 | 1,164 | 744 | 342 | 50 | 58 | 45 | 183 | 14,702 | |
| | 3 | 5,399 | 1,541 | 1,417 | 1,139 | 894 | 583 | 273 | 40 | 45 | 132 | 11,462 | |
| | 4 | 36,112 | 2,891 | 907 | 1,061 | 887 | 712 | 472 | 221 | 23 | 76 | 43,363 | |
| | 5 | 59,522 | 5,942 | 1,213 | 680 | 827 | 709 | 580 | 389 | 180 | 37 | 70,078 | |
| | 6 | 119,817 | 8,264 | 2,419 | 908 | 530 | 661 | 568 | 437 | 270 | 139 | 134,014 | |
| | 7 | 57,859 | 10,266 | 2,780 | 1,805 | 700 | 384 | 389 | 261 | 168 | 93 | 74,704 | |
| | 8 | 38,112 | 6,052 | 2,568 | 1,350 | 1,198 | 535 | 284 | 214 | 91 | 55 | 50,459 | |
| | 9 | 63,101 | 3,159 | 1,442 | 1,035 | 772 | 557 | 235 | 125 | 103 | 61 | 70,591 | |
| | 10 | 56,974 | 8,636 | 1,422 | 996 | 724 | 393 | 281 | 80 | 6 | 5 | 69,517 | |
| | 11 | 34,511 | 5,895 | 3,023 | 828 | 721 | 343 | 145 | 155 | 54 | 5 | 45,679 | |
| | 12 | 18,677 | 5,563 | 2,904 | 1,887 | 346 | 260 | 164 | 90 | 107 | 41 | 30,038 | 635,675 |
| 2017 | 1 | 5,677 | 5,474 | 2,532 | 1,351 | 1,442 | 275 | 210 | 133 | 75 | 125 | 17,294 | |
| | 2 | 3,351 | 2,373 | 1,935 | 1,859 | 1,053 | 1,147 | 202 | 154 | 102 | 145 | 12,322 | |
| | 3 | 4,117 | 1,783 | 1,453 | 1,442 | 1,447 | 843 | 930 | 154 | 118 | 178 | 12,465 | |
| | 4 | 15,559 | 2,533 | 1,243 | 1,085 | 1,122 | 1,157 | 675 | 744 | 106 | 185 | 24,409 | |
| | 5 | 49,473 | 4,950 | 1,580 | 931 | 846 | 898 | 939 | 544 | 611 | 201 | 60,972 | |
| | 6 | 138,237 | 6,286 | 1,983 | 1,024 | 716 | 667 | 732 | 778 | 455 | 686 | 151,564 | |
| | 7 | 96,679 | 5,174 | 1,764 | 1,156 | 733 | 547 | 469 | 485 | 499 | 611 | 108,117 | |
| | 8 | 31,701 | 3,543 | 1,301 | 881 | 719 | 496 | 330 | 166 | 82 | 114 | 39,332 | |
| | 9 | 15,943 | 1,894 | 1,205 | 567 | 343 | 248 | 165 | 92 | 50 | 33 | 20,540 | |
| | 10 | 18,040 | 2,008 | 797 | 406 | 255 | 125 | 142 | 72 | 41 | 40 | 21,925 | |
| | 11 | 12,526 | 1,843 | 806 | 568 | 247 | 145 | 72 | 91 | 46 | 46 | 16,391 | |
| | 12 | 9,693 | 3,828 | 108 | 586 | 380 | 116 | 65 | 41 | 69 | 67 | 14,953 | 500,284 |

補足表 3-4. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源量(トン)

| 年 | 月 \ 月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|
| 1981 | 1 | 396 | 1,191 | 1,846 | 2,683 | 2,841 | 5,764 | 2,584 | 1,121 | 203 | 1,240 | 19,871 | |
| | 2 | 381 | 1,221 | 2,328 | 2,224 | 3,012 | 2,902 | 6,122 | 2,653 | 1,113 | 971 | 22,927 | |
| | 3 | 540 | 1,295 | 2,916 | 2,814 | 2,477 | 3,007 | 3,023 | 6,293 | 2,635 | 2,299 | 27,300 | |
| | 4 | 1,147 | 1,662 | 2,966 | 3,525 | 3,187 | 2,657 | 3,221 | 3,113 | 6,256 | 5,459 | 33,194 | |
| | 5 | 1,581 | 2,287 | 3,641 | 3,585 | 3,989 | 3,402 | 2,838 | 3,316 | 3,095 | 12,959 | 40,692 | |
| | 6 | 2,035 | 4,533 | 5,215 | 4,401 | 4,057 | 4,251 | 3,437 | 2,604 | 2,955 | 11,792 | 45,278 | |
| | 7 | 4,975 | 5,029 | 8,191 | 6,049 | 4,756 | 4,300 | 4,122 | 2,875 | 1,828 | 6,647 | 48,774 | |
| | 8 | 2,306 | 4,609 | 6,987 | 5,964 | 4,751 | 4,680 | 4,366 | 4,049 | 2,647 | 6,732 | 47,091 | |
| | 9 | 920 | 3,004 | 7,420 | 4,832 | 2,632 | 1,874 | 2,556 | 2,543 | 2,808 | 6,551 | 35,140 | |
| | 10 | 1,062 | 1,362 | 2,375 | 1,417 | 1,186 | 833 | 441 | 290 | 81 | 142 | 9,190 | |
| | 11 | 432 | 1,307 | 1,082 | 629 | 431 | 142 | 59 | 14 | 6 | 5 | 4,107 | |
| | 12 | 296 | 843 | 1,559 | 794 | 570 | 361 | 122 | 57 | 12 | 12 | 4,627 | 338,191 |
| 1982 | 1 | 287 | 1,194 | 1,655 | 1,846 | 839 | 579 | 370 | 114 | 52 | 26 | 6,961 | |
| | 2 | 292 | 1,362 | 2,511 | 1,849 | 2,067 | 899 | 598 | 337 | 83 | 61 | 10,060 | |
| | 3 | 405 | 1,382 | 3,121 | 2,967 | 1,988 | 1,947 | 729 | 503 | 292 | 128 | 13,462 | |
| | 4 | 1,950 | 1,923 | 3,327 | 3,772 | 3,357 | 2,067 | 1,974 | 690 | 476 | 479 | 20,017 | |
| | 5 | 3,700 | 3,435 | 4,184 | 4,022 | 4,275 | 3,614 | 2,147 | 1,919 | 609 | 1,001 | 28,907 | |
| | 6 | 7,161 | 10,155 | 6,521 | 5,058 | 4,362 | 3,875 | 2,963 | 1,633 | 1,554 | 901 | 44,183 | |
| | 7 | 5,644 | 12,410 | 16,533 | 5,649 | 5,606 | 4,682 | 3,983 | 2,653 | 1,343 | 2,579 | 61,082 | |
| | 8 | 2,479 | 4,614 | 12,903 | 9,306 | 5,447 | 5,637 | 4,808 | 3,819 | 2,397 | 2,916 | 54,327 | |
| | 9 | 1,317 | 2,836 | 7,662 | 6,833 | 4,995 | 3,001 | 2,925 | 2,390 | 1,885 | 2,290 | 36,134 | |
| | 10 | 1,295 | 2,718 | 3,809 | 3,119 | 3,685 | 3,075 | 1,785 | 1,004 | 520 | 245 | 21,255 | |
| | 11 | 1,569 | 1,971 | 3,966 | 2,375 | 1,088 | 901 | 783 | 109 | 53 | 58 | 12,873 | |
| | 12 | 1,970 | 2,101 | 3,117 | 4,565 | 2,463 | 769 | 628 | 659 | 10 | 7 | 16,290 | 325,549 |
| 1983 | 1 | 522 | 3,059 | 3,386 | 3,580 | 5,118 | 2,521 | 656 | 626 | 641 | 14 | 20,123 | |
| | 2 | 218 | 1,606 | 6,010 | 4,091 | 4,033 | 5,467 | 2,666 | 633 | 589 | 831 | 26,144 | |
| | 3 | 179 | 844 | 3,462 | 7,265 | 4,629 | 4,321 | 5,846 | 2,731 | 618 | 1,458 | 31,353 | |
| | 4 | 1,002 | 836 | 2,022 | 4,176 | 8,226 | 4,981 | 4,617 | 6,005 | 2,594 | 1,115 | 35,573 | |
| | 5 | 6,640 | 2,148 | 1,090 | 2,444 | 4,727 | 8,827 | 5,102 | 4,472 | 5,860 | 4,322 | 45,633 | |
| | 6 | 12,651 | 9,505 | 3,408 | 1,299 | 2,444 | 4,276 | 7,904 | 4,252 | 3,688 | 10,182 | 59,609 | |
| | 7 | 5,520 | 12,806 | 13,218 | 3,981 | 1,313 | 1,904 | 3,571 | 6,967 | 2,660 | 5,917 | 57,858 | |
| | 8 | 2,131 | 6,383 | 13,890 | 3,125 | 1,015 | 902 | 1,911 | 3,304 | 6,446 | 6,500 | 45,607 | |
| | 9 | 5,849 | 3,481 | 7,166 | 2,463 | 1,011 | 913 | 872 | 1,788 | 2,960 | 14,019 | 40,522 | |
| | 10 | 6,046 | 2,976 | 3,267 | 2,452 | 920 | 319 | 269 | 22 | 12 | 7 | 16,290 | |
| | 11 | 1,502 | 3,315 | 2,216 | 877 | 294 | 114 | 42 | 21 | 9 | 6 | 8,396 | |
| | 12 | 515 | 1,226 | 1,903 | 1,345 | 402 | 146 | 82 | 22 | 6 | 4 | 5,651 | 392,758 |
| 1984 | 1 | 399 | 1,020 | 1,015 | 631 | 636 | 163 | 100 | 58 | 7 | 0 | 4,028 | |
| | 2 | 194 | 1,038 | 1,292 | 1,063 | 635 | 578 | 95 | 65 | 42 | 2 | 5,004 | |
| | 3 | 189 | 846 | 2,190 | 1,442 | 1,155 | 651 | 525 | 18 | 9 | 38 | 7,061 | |
| | 4 | 537 | 816 | 2,026 | 2,551 | 1,573 | 1,197 | 660 | 516 | 10 | 43 | 9,929 | |
| | 5 | 4,226 | 2,533 | 1,818 | 2,408 | 2,796 | 1,598 | 1,249 | 679 | 513 | 49 | 17,868 | |
| | 6 | 8,859 | 13,400 | 5,606 | 2,191 | 2,589 | 2,712 | 1,489 | 1,103 | 534 | 647 | 39,130 | |
| | 7 | 9,346 | 20,700 | 16,943 | 6,756 | 2,266 | 1,941 | 1,472 | 336 | 387 | 394 | 60,540 | |
| | 8 | 2,118 | 4,179 | 20,056 | 15,847 | 5,350 | 1,853 | 1,268 | 1,005 | 125 | 708 | 52,510 | |
| | 9 | 1,571 | 2,710 | 6,301 | 8,827 | 6,853 | 2,732 | 1,405 | 1,149 | 974 | 577 | 33,098 | |
| | 10 | 5,019 | 1,802 | 3,617 | 2,558 | 2,041 | 793 | 210 | 71 | 43 | 20 | 16,174 | |
| | 11 | 2,137 | 3,653 | 1,843 | 1,241 | 1,284 | 428 | 100 | 34 | 3 | 0 | 10,724 | |
| | 12 | 1,359 | 2,336 | 5,014 | 1,779 | 676 | 869 | 268 | 79 | 30 | 2 | 12,410 | 268,476 |
| 1985 | 1 | 512 | 1,389 | 2,555 | 5,784 | 1,939 | 672 | 914 | 275 | 78 | 42 | 14,162 | |
| | 2 | 186 | 1,021 | 2,962 | 3,029 | 6,523 | 2,051 | 705 | 937 | 269 | 136 | 17,820 | |
| | 3 | 196 | 621 | 2,260 | 3,261 | 3,402 | 7,022 | 2,183 | 694 | 907 | 451 | 20,998 | |
| | 4 | 1,398 | 774 | 1,410 | 2,731 | 3,695 | 3,662 | 7,516 | 2,217 | 666 | 1,569 | 25,639 | |
| | 5 | 4,932 | 2,004 | 829 | 1,704 | 3,095 | 3,979 | 3,919 | 7,741 | 2,205 | 2,215 | 32,623 | |
| | 6 | 8,071 | 13,642 | 2,710 | 1,002 | 1,915 | 3,259 | 4,123 | 3,759 | 7,403 | 4,235 | 50,120 | |
| | 7 | 15,331 | 20,637 | 14,628 | 2,592 | 1,076 | 1,723 | 2,373 | 2,653 | 2,412 | 12,464 | 75,890 | |
| | 8 | 3,951 | 19,717 | 22,152 | 5,878 | 1,330 | 657 | 1,366 | 2,196 | 2,468 | 12,749 | 72,464 | |
| | 9 | 5,201 | 4,257 | 33,721 | 9,217 | 3,866 | 1,289 | 293 | 100 | 85 | 157 | 58,186 | |
| | 10 | 5,795 | 2,958 | 7,269 | 8,963 | 7,003 | 3,051 | 895 | 86 | 49 | 202 | 36,269 | |
| | 11 | 2,377 | 2,854 | 2,622 | 3,096 | 2,048 | 496 | 46 | 19 | 10 | 41 | 13,610 | |
| | 12 | 2,044 | 1,647 | 1,181 | 710 | 362 | 163 | 50 | 20 | 3 | 13 | 6,192 | 423,974 |
| 1986 | 1 | 889 | 1,163 | 989 | 1,002 | 545 | 215 | 128 | 45 | 17 | 7 | 5,001 | |
| | 2 | 558 | 2,369 | 2,783 | 1,147 | 1,119 | 572 | 192 | 100 | 38 | 25 | 8,903 | |
| | 3 | 399 | 2,344 | 5,201 | 3,308 | 1,277 | 1,187 | 603 | 190 | 92 | 62 | 14,663 | |
| | 4 | 817 | 1,604 | 5,424 | 6,141 | 3,642 | 1,309 | 1,223 | 555 | 123 | 83 | 20,922 | |
| | 5 | 4,711 | 3,001 | 3,474 | 6,259 | 6,739 | 3,784 | 1,297 | 1,118 | 412 | 43 | 30,839 | |
| | 6 | 12,057 | 8,063 | 4,261 | 4,199 | 7,091 | 7,235 | 3,987 | 1,270 | 1,065 | 580 | 49,808 | |
| | 7 | 16,078 | 28,604 | 10,364 | 5,133 | 4,267 | 4,795 | 3,645 | 2,311 | 840 | 1,611 | 77,649 | |
| | 8 | 3,807 | 10,453 | 21,139 | 9,909 | 5,135 | 4,046 | 4,019 | 2,634 | 1,605 | 1,084 | 63,830 | |
| | 9 | 3,010 | 4,433 | 14,046 | 9,695 | 5,931 | 3,539 | 2,835 | 2,438 | 924 | 708 | 47,558 | |
| | 10 | 5,310 | 3,255 | 6,159 | 2,964 | 4,731 | 2,903 | 1,117 | 927 | 972 | 484 | 28,822 | |
| | 11 | 1,059 | 2,243 | 1,812 | 1,573 | 548 | 457 | 165 | 24 | 8 | 27 | 7,916 | |
| | 12 | 1,166 | 1,447 | 1,392 | 345 | 123 | 47 | 15 | 1 | 3 | 7 | 4,548 | 360,459 |
| 1987 | 1 | 407 | 1,953 | 2,844 | 1,300 | 266 | 24 | 2 | 0 | 0 | 2 | 6,799 | |
| | 2 | 292 | 1,682 | 4,122 | 3,274 | 1,438 | 257 | 2 | 1 | 0 | 0 | 11,068 | |
| | 3 | 165 | 1,323 | 3,852 | 4,912 | 3,458 | 1,372 | 224 | 0 | 0 | 0 | 15,307 | |
| | 4 | 1,119 | 729 | 3,148 | 4,647 | 5,531 | 3,700 | 1,464 | 231 | 0 | 0 | 20,569 | |
| | 5 | 3,593 | 4,484 | 1,745 | 3,805 | 5,266 | 5,948 | 3,838 | 1,415 | 225 | 0 | 30,319 | |
| | 6 | 8,552 | 6,709 | 1,038 | 2,088 | 4,133 | 4,676 | 3,892 | 1,445 | 730 | 36 | 33,298 | |
| | 7 | 9,605 | 7,729 | 5,115 | 1,151 | 2,134 | 3,288 | 2,486 | 1,249 | 486 | 576 | 33,820 | |
| | 8 | 2,305 | 1,835 | 3,702 | 658 | 1,139 | 1,693 | 2,201 | 1,453 | 609 | 174 | 15,768 | |
| | 9 | 5,028 | 2,603 | 1,216 | 539 | 544 | 707 | 968 | 790 | 409 | 355 | 13,159 | |
| | 10 | 1,863 | 484 | 600 | 305 | 371 | 295 | 157 | 93 | 48 | 26 | 4,239 | |
| | 11 | 555 | 694 | 551 | 388 | 237 | 142 | 81 | 53 | 32 | 7 | 2,740 | |
| | 12 | 523 | 1,279 | 884 | 634 | 431 | 248 | 146 | 82 | 52 | 47 | 4,326 | 191,413 |

補足表 3-4. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源量(トン)
(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 1988 | 1 | 379 | 1,111 | 1,648 | 969 | 533 | 453 | 265 | 149 | 81 | 109 | 5,698 | |
| | 2 | 219 | 1,156 | 2,119 | 1,887 | 1,087 | 574 | 486 | 273 | 148 | 200 | 8,149 | |
| | 3 | 132 | 790 | 2,466 | 2,561 | 2,138 | 1,171 | 615 | 500 | 271 | 367 | 11,012 | |
| | 4 | 1,027 | 622 | 1,895 | 2,981 | 2,903 | 2,303 | 1,256 | 633 | 498 | 672 | 14,788 | |
| | 5 | 4,273 | 1,887 | 1,255 | 2,283 | 3,352 | 3,125 | 2,470 | 1,293 | 630 | 1,232 | 21,799 | |
| | 6 | 9,471 | 8,262 | 2,859 | 1,513 | 2,574 | 3,609 | 3,351 | 2,543 | 1,285 | 1,881 | 37,349 | |
| | 7 | 12,468 | 12,560 | 8,307 | 3,453 | 1,706 | 2,722 | 3,590 | 2,778 | 1,613 | 798 | 49,994 | |
| | 8 | 4,560 | 8,125 | 12,309 | 4,939 | 1,530 | 1,524 | 2,675 | 2,942 | 2,031 | 1,769 | 42,406 | |
| | 9 | 2,953 | 2,657 | 8,512 | 6,116 | 2,570 | 564 | 415 | 385 | 220 | 214 | 24,606 | |
| | 10 | 3,905 | 2,757 | 2,379 | 1,534 | 1,232 | 682 | 214 | 72 | 18 | 4 | 12,798 | |
| | 11 | 2,737 | 2,334 | 1,206 | 1,703 | 881 | 292 | 98 | 52 | 29 | 1 | 9,333 | |
| | 12 | 366 | 1,593 | 1,207 | 694 | 948 | 218 | 50 | 25 | 12 | 9 | 5,121 | 243,052 |
| 1989 | 1 | 723 | 860 | 1,366 | 1,130 | 720 | 993 | 221 | 47 | 23 | 22 | 6,104 | |
| | 2 | 70 | 449 | 1,499 | 1,647 | 1,281 | 775 | 1,061 | 218 | 36 | 35 | 7,071 | |
| | 3 | 103 | 225 | 874 | 1,812 | 1,867 | 1,379 | 827 | 1,083 | 206 | 63 | 8,439 | |
| | 4 | 1,530 | 299 | 428 | 1,055 | 2,053 | 2,006 | 1,451 | 830 | 1,070 | 327 | 11,051 | |
| | 5 | 5,747 | 2,399 | 322 | 516 | 1,192 | 2,180 | 1,974 | 1,356 | 785 | 1,696 | 18,167 | |
| | 6 | 10,968 | 11,555 | 1,106 | 389 | 585 | 1,283 | 2,334 | 2,021 | 1,336 | 2,409 | 33,984 | |
| | 7 | 9,512 | 10,626 | 4,513 | 1,336 | 408 | 415 | 1,152 | 1,744 | 1,364 | 1,888 | 32,958 | |
| | 8 | 3,598 | 8,480 | 7,635 | 2,729 | 951 | 302 | 207 | 310 | 671 | 1,530 | 26,413 | |
| | 9 | 2,548 | 1,256 | 3,548 | 1,453 | 1,689 | 683 | 96 | 45 | 78 | 57 | 11,452 | |
| | 10 | 839 | 1,432 | 1,067 | 191 | 46 | 44 | 3 | 2 | 3 | 3 | 3,630 | |
| | 11 | 299 | 712 | 807 | 293 | 12 | 3 | 2 | 1 | 1 | 0 | 2,131 | |
| | 12 | 363 | 898 | 500 | 915 | 249 | 12 | 2 | 1 | 1 | 0 | 2,940 | 164,341 |
| 1990 | 1 | 68 | 453 | 1,395 | 456 | 912 | 253 | 7 | 0 | 0 | 0 | 3,544 | |
| | 2 | 78 | 294 | 736 | 1,683 | 511 | 977 | 265 | 3 | 0 | 0 | 4,546 | |
| | 3 | 164 | 358 | 630 | 799 | 1,903 | 550 | 1,047 | 272 | 3 | 0 | 5,726 | |
| | 4 | 1,811 | 451 | 794 | 748 | 904 | 2,049 | 586 | 1,075 | 270 | 4 | 8,692 | |
| | 5 | 2,671 | 1,746 | 1,005 | 960 | 847 | 968 | 2,052 | 273 | 949 | 317 | 11,788 | |
| | 6 | 4,976 | 6,089 | 2,697 | 1,215 | 1,088 | 909 | 1,005 | 2,045 | 221 | 1,512 | 21,756 | |
| | 7 | 15,401 | 10,407 | 5,159 | 1,584 | 905 | 689 | 810 | 979 | 2,014 | 1,526 | 39,472 | |
| | 8 | 4,079 | 5,342 | 4,892 | 2,741 | 1,100 | 365 | 455 | 624 | 631 | 3,304 | 23,533 | |
| | 9 | 1,365 | 1,004 | 2,020 | 1,798 | 464 | 209 | 196 | 210 | 231 | 1,455 | 8,950 | |
| | 10 | 3,341 | 934 | 775 | 659 | 327 | 194 | 175 | 152 | 108 | 152 | 6,817 | |
| | 11 | 1,761 | 1,265 | 1,292 | 657 | 544 | 269 | 137 | 68 | 45 | 82 | 6,121 | |
| | 12 | 627 | 1,670 | 1,318 | 1,334 | 504 | 449 | 251 | 92 | 46 | 108 | 6,398 | 147,345 |
| 1991 | 1 | 501 | 1,946 | 2,606 | 1,499 | 1,414 | 484 | 466 | 239 | 84 | 146 | 9,385 | |
| | 2 | 425 | 2,127 | 3,842 | 2,719 | 1,266 | 1,262 | 448 | 378 | 191 | 188 | 12,846 | |
| | 3 | 244 | 1,852 | 4,653 | 4,643 | 3,080 | 1,329 | 1,299 | 429 | 349 | 343 | 18,221 | |
| | 4 | 2,243 | 774 | 3,843 | 5,623 | 5,258 | 3,253 | 1,326 | 1,279 | 378 | 627 | 24,604 | |
| | 5 | 4,491 | 2,453 | 1,861 | 4,642 | 6,351 | 5,628 | 3,432 | 1,293 | 1,212 | 879 | 32,242 | |
| | 6 | 6,581 | 1,527 | 887 | 2,249 | 5,259 | 6,825 | 6,021 | 3,524 | 1,280 | 2,357 | 36,511 | |
| | 7 | 11,260 | 10,832 | 951 | 1,072 | 2,549 | 5,655 | 7,162 | 5,655 | 2,959 | 2,552 | 50,646 | |
| | 8 | 1,512 | 3,817 | 3,437 | 902 | 1,191 | 2,681 | 5,678 | 5,603 | 3,462 | 2,575 | 30,858 | |
| | 9 | 1,350 | 1,240 | 3,695 | 1,006 | 612 | 815 | 1,781 | 1,839 | 1,259 | 1,317 | 14,913 | |
| | 10 | 3,871 | 568 | 749 | 1,700 | 627 | 216 | 228 | 246 | 202 | 231 | 8,638 | |
| | 11 | 614 | 683 | 162 | 422 | 1,267 | 451 | 183 | 91 | 85 | 179 | 4,139 | |
| | 12 | 231 | 391 | 285 | 157 | 140 | 947 | 382 | 147 | 43 | 98 | 2,821 | 245,824 |
| 1992 | 1 | 96 | 282 | 296 | 342 | 167 | 137 | 1,011 | 389 | 140 | 115 | 2,973 | |
| | 2 | 55 | 194 | 415 | 357 | 367 | 117 | 140 | 1,039 | 385 | 280 | 3,349 | |
| | 3 | 51 | 206 | 418 | 501 | 393 | 358 | 122 | 144 | 1,033 | 750 | 3,976 | |
| | 4 | 1,570 | 245 | 490 | 505 | 539 | 366 | 368 | 126 | 143 | 2,012 | 6,364 | |
| | 5 | 6,195 | 3,658 | 545 | 592 | 572 | 580 | 392 | 374 | 118 | 1,667 | 14,694 | |
| | 6 | 9,402 | 4,948 | 2,497 | 659 | 671 | 616 | 622 | 402 | 369 | 1,471 | 21,657 | |
| | 7 | 5,566 | 6,379 | 7,406 | 2,000 | 652 | 722 | 659 | 610 | 300 | 893 | 25,185 | |
| | 8 | 1,448 | 1,758 | 4,668 | 4,830 | 1,868 | 606 | 500 | 345 | 310 | 91 | 16,424 | |
| | 9 | 1,504 | 718 | 2,137 | 2,299 | 1,479 | 791 | 318 | 271 | 169 | 377 | 10,065 | |
| | 10 | 1,817 | 812 | 777 | 809 | 387 | 330 | 306 | 147 | 67 | 90 | 5,543 | |
| | 11 | 1,212 | 1,012 | 803 | 348 | 188 | 54 | 15 | 4 | 1 | 1 | 3,637 | |
| | 12 | 391 | 858 | 692 | 744 | 269 | 167 | 50 | 14 | 4 | 2 | 3,191 | 117,058 |
| 1993 | 1 | 284 | 835 | 735 | 800 | 834 | 283 | 174 | 48 | 13 | 6 | 4,012 | |
| | 2 | 133 | 520 | 629 | 852 | 842 | 873 | 300 | 173 | 47 | 21 | 4,390 | |
| | 3 | 246 | 494 | 843 | 675 | 810 | 847 | 927 | 293 | 169 | 78 | 5,383 | |
| | 4 | 1,218 | 1,018 | 1,047 | 966 | 668 | 835 | 902 | 945 | 290 | 290 | 8,181 | |
| | 5 | 4,577 | 1,969 | 2,111 | 1,204 | 1,069 | 700 | 810 | 789 | 846 | 549 | 14,625 | |
| | 6 | 8,449 | 3,686 | 3,960 | 2,544 | 1,346 | 1,142 | 691 | 716 | 672 | 1,436 | 24,641 | |
| | 7 | 5,347 | 6,541 | 4,967 | 3,675 | 2,863 | 1,418 | 1,149 | 595 | 557 | 1,484 | 28,596 | |
| | 8 | 2,508 | 1,547 | 3,282 | 2,994 | 3,455 | 2,586 | 921 | 223 | 28 | 152 | 17,696 | |
| | 9 | 1,050 | 1,680 | 1,026 | 1,198 | 1,876 | 1,504 | 944 | 386 | 127 | 60 | 9,851 | |
| | 10 | 2,475 | 2,044 | 2,202 | 816 | 410 | 378 | 230 | 113 | 29 | 14 | 8,712 | |
| | 11 | 1,567 | 1,308 | 1,734 | 1,592 | 736 | 261 | 141 | 92 | 41 | 8 | 7,481 | |
| | 12 | 995 | 638 | 938 | 1,346 | 1,030 | 479 | 208 | 86 | 31 | 18 | 5,769 | 139,337 |
| 1994 | 1 | 189 | 880 | 1,049 | 1,093 | 1,413 | 958 | 398 | 161 | 56 | 33 | 6,230 | |
| | 2 | 101 | 565 | 950 | 1,232 | 1,211 | 1,436 | 950 | 374 | 140 | 88 | 7,046 | |
| | 3 | 234 | 373 | 784 | 1,147 | 1,397 | 1,301 | 1,516 | 927 | 315 | 197 | 8,191 | |
| | 4 | 1,633 | 481 | 639 | 947 | 1,300 | 1,504 | 1,388 | 1,544 | 903 | 565 | 10,904 | |
| | 5 | 5,245 | 947 | 641 | 770 | 1,073 | 1,397 | 1,573 | 1,344 | 1,440 | 1,574 | 16,003 | |
| | 6 | 4,608 | 4,246 | 1,260 | 772 | 844 | 1,107 | 1,432 | 1,454 | 1,168 | 2,871 | 19,763 | |
| | 7 | 3,887 | 4,184 | 3,121 | 1,513 | 863 | 854 | 1,015 | 1,038 | 873 | 1,601 | 18,948 | |
| | 8 | 2,668 | 1,930 | 2,718 | 2,037 | 1,241 | 449 | 444 | 433 | 248 | 121 | 12,289 | |
| | 9 | 3,640 | 1,834 | 1,259 | 1,235 | 663 | 341 | 204 | 138 | 100 | 24 | 9,437 | |
| | 10 | 1,161 | 1,046 | 1,288 | 675 | 356 | 191 | 196 | 107 | 59 | 29 | 5,108 | |
| | 11 | 555 | 648 | 882 | 465 | 271 | 184 | 138 | 126 | 40 | 20 | 3,328 | |
| | 12 | 314 | 466 | 628 | 701 | 483 | 290 | 195 | 134 | 116 | 57 | 3,386 | 120,633 |

補足表 3-4. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源量(トン)
(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 1995 | 1 | 181 | 822 | 714 | 614 | 778 | 521 | 309 | 185 | 114 | 179 | 4,416 | |
| | 2 | 257 | 541 | 1,360 | 844 | 647 | 787 | 496 | 302 | 178 | 281 | 5,693 | |
| | 3 | 858 | 682 | 863 | 1,641 | 950 | 690 | 835 | 509 | 300 | 472 | 7,798 | |
| | 4 | 412 | 528 | 920 | 1,039 | 1,852 | 1,015 | 730 | 858 | 505 | 795 | 8,655 | |
| | 5 | 2,216 | 806 | 1,210 | 1,109 | 1,167 | 1,984 | 1,075 | 748 | 851 | 1,341 | 12,508 | |
| | 6 | 6,138 | 3,219 | 1,814 | 1,454 | 1,232 | 1,232 | 2,097 | 1,099 | 741 | 2,259 | 21,287 | |
| | 7 | 4,904 | 5,357 | 2,635 | 2,053 | 1,637 | 1,320 | 1,230 | 1,760 | 669 | 1,242 | 22,808 | |
| | 8 | 1,986 | 3,898 | 2,734 | 2,378 | 1,885 | 1,437 | 895 | 289 | 56 | 15 | 15,573 | |
| | 9 | 2,710 | 1,858 | 1,170 | 538 | 630 | 572 | 476 | 351 | 227 | 66 | 8,597 | |
| | 10 | 1,112 | 1,598 | 643 | 315 | 300 | 328 | 341 | 171 | 56 | 6 | 4,869 | |
| | 11 | 496 | 1,375 | 866 | 499 | 346 | 304 | 313 | 243 | 69 | 7 | 4,518 | |
| | 12 | 337 | 750 | 1,280 | 892 | 566 | 372 | 308 | 214 | 127 | 13 | 4,858 | 121,580 |
| 1996 | 1 | 192 | 540 | 551 | 469 | 992 | 609 | 384 | 226 | 115 | 108 | 4,186 | |
| | 2 | 141 | 535 | 722 | 656 | 524 | 1,052 | 631 | 347 | 180 | 168 | 4,956 | |
| | 3 | 213 | 449 | 877 | 872 | 730 | 537 | 1,092 | 569 | 270 | 253 | 5,862 | |
| | 4 | 2,070 | 638 | 1,063 | 1,059 | 978 | 766 | 548 | 1,064 | 510 | 477 | 9,174 | |
| | 5 | 5,918 | 1,360 | 1,368 | 1,284 | 1,187 | 1,024 | 782 | 479 | 978 | 945 | 15,326 | |
| | 6 | 4,210 | 2,368 | 1,940 | 1,638 | 1,392 | 1,099 | 820 | 618 | 404 | 2,050 | 16,539 | |
| | 7 | 5,033 | 5,840 | 3,200 | 2,345 | 1,849 | 1,404 | 1,040 | 695 | 468 | 1,255 | 23,131 | |
| | 8 | 1,822 | 2,449 | 4,270 | 2,625 | 2,338 | 1,456 | 1,006 | 476 | 291 | 258 | 16,991 | |
| | 9 | 1,196 | 1,062 | 1,275 | 1,342 | 1,317 | 808 | 416 | 186 | 79 | 92 | 7,773 | |
| | 10 | 615 | 756 | 395 | 588 | 613 | 373 | 220 | 96 | 45 | 43 | 3,744 | |
| | 11 | 529 | 641 | 363 | 435 | 377 | 246 | 148 | 162 | 71 | 68 | 3,040 | |
| | 12 | 389 | 912 | 458 | 431 | 443 | 331 | 209 | 136 | 156 | 147 | 3,612 | 114,334 |
| 1997 | 1 | 276 | 620 | 439 | 543 | 408 | 361 | 281 | 196 | 127 | 324 | 3,575 | |
| | 2 | 49 | 347 | 391 | 529 | 593 | 390 | 300 | 220 | 152 | 387 | 3,358 | |
| | 3 | 156 | 119 | 392 | 471 | 588 | 613 | 374 | 274 | 197 | 501 | 3,685 | |
| | 4 | 2,020 | 310 | 288 | 474 | 531 | 629 | 649 | 378 | 268 | 680 | 6,227 | |
| | 5 | 2,359 | 1,781 | 737 | 348 | 527 | 551 | 636 | 638 | 357 | 907 | 8,841 | |
| | 6 | 6,868 | 2,540 | 2,810 | 889 | 367 | 505 | 481 | 568 | 581 | 1,171 | 16,781 | |
| | 7 | 5,784 | 6,575 | 2,383 | 3,397 | 995 | 235 | 104 | 84 | 65 | 179 | 19,801 | |
| | 8 | 2,136 | 2,851 | 3,694 | 2,084 | 2,976 | 858 | 167 | 70 | 45 | 129 | 15,011 | |
| | 9 | 501 | 1,368 | 835 | 453 | 694 | 1,396 | 377 | 106 | 10 | 1 | 5,741 | |
| | 10 | 1,777 | 1,444 | 898 | 144 | 270 | 571 | 1,404 | 345 | 97 | 11 | 6,961 | |
| | 11 | 810 | 1,397 | 935 | 422 | 121 | 288 | 300 | 963 | 137 | 16 | 5,389 | |
| | 12 | 256 | 733 | 682 | 1,028 | 479 | 129 | 190 | 126 | 879 | 150 | 4,652 | 100,022 |
| 1998 | 1 | 121 | 404 | 716 | 680 | 1,165 | 512 | 39 | 45 | 58 | 1,255 | 4,994 | |
| | 2 | 103 | 330 | 335 | 865 | 770 | 1,253 | 545 | 36 | 42 | 916 | 5,196 | |
| | 3 | 512 | 463 | 709 | 405 | 981 | 829 | 1,342 | 561 | 35 | 768 | 6,605 | |
| | 4 | 3,110 | 847 | 1,117 | 857 | 458 | 1,054 | 884 | 1,378 | 555 | 437 | 10,698 | |
| | 5 | 3,326 | 1,908 | 1,640 | 1,350 | 970 | 486 | 1,116 | 880 | 1,348 | 1,062 | 14,087 | |
| | 6 | 2,878 | 2,491 | 3,142 | 1,982 | 1,523 | 1,011 | 459 | 1,009 | 773 | 2,476 | 17,744 | |
| | 7 | 4,477 | 3,862 | 1,819 | 3,583 | 2,230 | 1,604 | 1,019 | 318 | 833 | 2,110 | 21,856 | |
| | 8 | 1,147 | 1,731 | 1,703 | 1,592 | 3,771 | 1,015 | 520 | 557 | 138 | 2,062 | 14,235 | |
| | 9 | 523 | 621 | 754 | 876 | 1,130 | 3,220 | 334 | 236 | 493 | 1,394 | 9,581 | |
| | 10 | 2,529 | 791 | 628 | 683 | 862 | 912 | 2,985 | 191 | 174 | 1,711 | 11,465 | |
| | 11 | 808 | 1,165 | 400 | 398 | 564 | 541 | 447 | 2,874 | 114 | 1,192 | 8,504 | |
| | 12 | 646 | 968 | 303 | 193 | 287 | 385 | 359 | 378 | 2,837 | 1,043 | 7,399 | 132,364 |
| 1999 | 1 | 208 | 1,094 | 477 | 363 | 217 | 262 | 310 | 339 | 360 | 4,651 | 8,283 | |
| | 2 | 175 | 513 | 819 | 571 | 412 | 234 | 279 | 308 | 322 | 4,222 | 7,854 | |
| | 3 | 442 | 668 | 1,168 | 990 | 647 | 444 | 247 | 269 | 282 | 3,700 | 8,857 | |
| | 4 | 5,683 | 660 | 1,338 | 1,412 | 1,122 | 697 | 475 | 252 | 264 | 3,456 | 15,359 | |
| | 5 | 15,027 | 2,426 | 1,541 | 1,618 | 1,600 | 1,208 | 745 | 477 | 235 | 3,078 | 27,955 | |
| | 6 | 8,704 | 4,243 | 3,385 | 1,862 | 1,834 | 1,723 | 1,294 | 762 | 467 | 2,823 | 27,097 | |
| | 7 | 3,492 | 4,856 | 3,815 | 3,788 | 2,085 | 1,790 | 1,229 | 742 | 449 | 1,574 | 23,821 | |
| | 8 | 1,810 | 2,628 | 3,273 | 3,286 | 3,518 | 1,940 | 1,450 | 966 | 513 | 1,023 | 20,408 | |
| | 9 | 1,030 | 519 | 1,139 | 2,397 | 2,998 | 3,318 | 1,816 | 1,118 | 592 | 523 | 15,451 | |
| | 10 | 1,312 | 879 | 545 | 1,361 | 2,670 | 2,936 | 2,939 | 1,459 | 732 | 637 | 15,470 | |
| | 11 | 470 | 582 | 391 | 645 | 1,452 | 2,058 | 1,393 | 2,259 | 1,005 | 896 | 11,149 | |
| | 12 | 158 | 409 | 490 | 460 | 660 | 936 | 845 | 801 | 1,859 | 1,552 | 8,169 | 189,872 |
| 2000 | 1 | 193 | 373 | 434 | 589 | 500 | 520 | 600 | 700 | 696 | 3,651 | 8,256 | |
| | 2 | 157 | 658 | 478 | 525 | 668 | 538 | 557 | 607 | 649 | 3,408 | 8,245 | |
| | 3 | 461 | 601 | 1,008 | 577 | 595 | 719 | 576 | 555 | 528 | 2,769 | 8,389 | |
| | 4 | 2,635 | 816 | 1,397 | 1,218 | 654 | 641 | 771 | 588 | 533 | 2,796 | 12,049 | |
| | 5 | 5,577 | 2,836 | 1,949 | 1,688 | 1,381 | 704 | 687 | 794 | 584 | 3,066 | 19,266 | |
| | 6 | 12,655 | 5,618 | 3,881 | 2,353 | 1,913 | 1,487 | 755 | 707 | 785 | 3,310 | 33,464 | |
| | 7 | 8,928 | 8,902 | 6,963 | 4,685 | 2,662 | 1,977 | 1,291 | 479 | 445 | 1,535 | 37,868 | |
| | 8 | 2,801 | 2,900 | 7,136 | 4,943 | 3,925 | 2,593 | 1,966 | 1,264 | 437 | 1,515 | 29,480 | |
| | 9 | 549 | 859 | 3,270 | 2,225 | 2,652 | 2,682 | 2,124 | 1,445 | 903 | 616 | 17,324 | |
| | 10 | 803 | 598 | 444 | 1,536 | 1,731 | 1,852 | 1,445 | 660 | 389 | 532 | 9,991 | |
| | 11 | 351 | 907 | 485 | 380 | 1,151 | 876 | 625 | 479 | 261 | 357 | 5,871 | |
| | 12 | 460 | 981 | 618 | 325 | 369 | 1,158 | 826 | 557 | 439 | 601 | 6,334 | 196,537 |
| 2001 | 1 | 255 | 1,019 | 968 | 724 | 348 | 376 | 1,217 | 832 | 545 | 1,082 | 7,367 | |
| | 2 | 178 | 683 | 1,148 | 1,124 | 819 | 371 | 398 | 1,249 | 824 | 1,634 | 8,428 | |
| | 3 | 413 | 663 | 824 | 856 | 1,262 | 837 | 328 | 344 | 1,193 | 2,367 | 9,087 | |
| | 4 | 934 | 1,217 | 1,352 | 829 | 966 | 1,344 | 876 | 317 | 327 | 3,558 | 11,721 | |
| | 5 | 2,764 | 1,947 | 2,786 | 1,635 | 940 | 1,037 | 1,426 | 890 | 311 | 3,382 | 17,117 | |
| | 6 | 11,109 | 4,566 | 4,491 | 3,368 | 1,853 | 1,012 | 1,112 | 1,468 | 885 | 3,276 | 33,141 | |
| | 7 | 7,185 | 9,939 | 7,849 | 5,416 | 3,816 | 1,990 | 1,065 | 1,073 | 1,282 | 2,645 | 42,261 | |
| | 8 | 3,660 | 2,468 | 5,260 | 5,732 | 5,129 | 2,959 | 1,094 | 760 | 590 | 2,319 | 29,971 | |
| | 9 | 754 | 1,096 | 2,629 | 2,532 | 2,397 | 1,325 | 556 | 277 | 196 | 796 | 12,557 | |
| | 10 | 804 | 1,130 | 1,343 | 1,678 | 1,523 | 1,021 | 491 | 229 | 114 | 394 | 8,727 | |
| | 11 | 1,144 | 416 | 1,409 | 1,127 | 1,485 | 656 | 420 | 184 | 148 | 386 | 7,375 | |
| | 12 | 452 | 849 | 711 | 1,604 | 1,198 | 1,398 | 565 | 365 | 169 | 517 | 7,826 | 195,578 |

補足表 3-4. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源量(トン)
(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|--------|-------|--------|--------|-------|-------|-------|-------|--------|--------|---------|
| 2002 | 1 | 268 | 1,086 | 775 | 827 | 1,806 | 1,260 | 1,478 | 571 | 361 | 660 | 9,093 | |
| | 2 | 259 | 925 | 1,581 | 783 | 918 | 1,945 | 1,351 | 1,522 | 567 | 1,038 | 10,887 | |
| | 3 | 292 | 1,192 | 1,631 | 1,626 | 670 | 820 | 1,936 | 1,332 | 1,491 | 1,633 | 12,623 | |
| | 4 | 1,485 | 1,401 | 1,924 | 1,660 | 1,633 | 583 | 832 | 1,993 | 1,324 | 3,369 | 16,204 | |
| | 5 | 2,020 | 3,084 | 3,327 | 2,325 | 1,882 | 1,755 | 595 | 815 | 1,947 | 4,533 | 22,283 | |
| | 6 | 9,581 | 4,582 | 5,763 | 4,021 | 2,635 | 2,027 | 1,881 | 606 | 797 | 6,395 | 38,287 | |
| | 7 | 4,763 | 8,329 | 6,214 | 6,946 | 4,541 | 2,703 | 1,896 | 1,713 | 325 | 3,657 | 41,086 | |
| | 8 | 3,452 | 2,161 | 3,631 | 3,932 | 4,663 | 2,786 | 1,481 | 1,255 | 1,498 | 2,260 | 27,120 | |
| | 9 | 8,428 | 3,007 | 1,911 | 2,018 | 1,660 | 983 | 430 | 315 | 711 | 3,109 | 22,572 | |
| | 10 | 5,444 | 4,531 | 1,335 | 1,131 | 1,055 | 260 | 132 | 85 | 83 | 2,026 | 16,081 | |
| | 11 | 1,352 | 1,928 | 1,454 | 1,303 | 1,090 | 906 | 129 | 73 | 70 | 1,691 | 9,994 | |
| | 12 | 341 | 1,153 | 1,049 | 936 | 910 | 606 | 864 | 92 | 57 | 1,383 | 7,391 | 233,621 |
| 2003 | 1 | 125 | 501 | 736 | 677 | 693 | 636 | 616 | 888 | 90 | 1,239 | 6,201 | |
| | 2 | 82 | 358 | 571 | 733 | 697 | 692 | 671 | 634 | 882 | 1,157 | 6,479 | |
| | 3 | 406 | 347 | 515 | 570 | 830 | 739 | 652 | 578 | 486 | 1,677 | 6,801 | |
| | 4 | 5,087 | 1,826 | 806 | 622 | 646 | 894 | 791 | 658 | 548 | 1,877 | 13,755 | |
| | 5 | 10,796 | 2,849 | 1,493 | 975 | 705 | 696 | 958 | 814 | 648 | 2,270 | 22,203 | |
| | 6 | 5,856 | 9,613 | 3,476 | 1,805 | 1,105 | 760 | 746 | 987 | 808 | 2,775 | 27,930 | |
| | 7 | 5,991 | 10,777 | 6,769 | 3,352 | 2,001 | 1,177 | 780 | 607 | 592 | 1,070 | 33,116 | |
| | 8 | 1,806 | 5,481 | 6,789 | 4,320 | 2,692 | 1,681 | 1,069 | 729 | 527 | 1,469 | 26,562 | |
| | 9 | 1,533 | 1,531 | 3,729 | 3,609 | 2,766 | 1,753 | 1,187 | 820 | 650 | 1,806 | 19,387 | |
| | 10 | 1,996 | 2,633 | 1,556 | 2,599 | 3,170 | 2,506 | 1,466 | 696 | 290 | 433 | 17,344 | |
| | 11 | 724 | 1,785 | 1,319 | 990 | 2,767 | 2,785 | 1,467 | 752 | 372 | 426 | 13,387 | |
| | 12 | 827 | 1,290 | 1,894 | 1,010 | 481 | 2,625 | 2,947 | 1,508 | 746 | 855 | 14,182 | 207,346 |
| 2004 | 1 | 400 | 1,043 | 1,341 | 1,849 | 636 | 180 | 2,784 | 3,034 | 1,499 | 1,717 | 14,484 | |
| | 2 | 184 | 579 | 925 | 1,371 | 2,014 | 594 | 113 | 2,814 | 2,990 | 3,426 | 15,011 | |
| | 3 | 252 | 171 | 416 | 800 | 1,437 | 2,032 | 504 | 27 | 2,753 | 6,842 | 15,234 | |
| | 4 | 8,772 | 942 | 368 | 503 | 905 | 1,544 | 2,172 | 513 | 19 | 9,395 | 25,135 | |
| | 5 | 5,083 | 3,219 | 660 | 418 | 557 | 958 | 1,651 | 2,236 | 511 | 7,682 | 22,975 | |
| | 6 | 4,428 | 2,908 | 2,160 | 798 | 472 | 596 | 1,025 | 1,698 | 2,218 | 7,093 | 23,216 | |
| | 7 | 3,294 | 8,039 | 3,310 | 1,658 | 848 | 495 | 595 | 689 | 715 | 3,198 | 22,842 | |
| | 8 | 2,927 | 2,196 | 2,783 | 1,833 | 1,541 | 882 | 503 | 457 | 306 | 1,851 | 15,279 | |
| | 9 | 951 | 3,016 | 1,611 | 1,118 | 742 | 700 | 465 | 291 | 212 | 193 | 9,300 | |
| | 10 | 911 | 1,668 | 1,357 | 1,241 | 816 | 309 | 85 | 44 | 23 | 20 | 6,472 | |
| | 11 | 182 | 533 | 695 | 787 | 443 | 321 | 134 | 65 | 28 | 25 | 3,212 | |
| | 12 | 405 | 504 | 404 | 602 | 546 | 267 | 276 | 137 | 64 | 56 | 3,260 | 176,418 |
| 2005 | 1 | 178 | 436 | 401 | 401 | 546 | 495 | 232 | 253 | 114 | 101 | 3,158 | |
| | 2 | 161 | 514 | 613 | 479 | 455 | 587 | 531 | 238 | 251 | 237 | 4,067 | |
| | 3 | 284 | 749 | 1,160 | 737 | 541 | 484 | 625 | 543 | 236 | 535 | 5,893 | |
| | 4 | 1,739 | 1,107 | 1,684 | 1,402 | 835 | 583 | 519 | 643 | 540 | 766 | 9,818 | |
| | 5 | 3,014 | 1,586 | 2,434 | 2,018 | 1,582 | 880 | 606 | 522 | 635 | 1,363 | 14,640 | |
| | 6 | 5,232 | 6,140 | 2,971 | 2,942 | 2,286 | 1,701 | 933 | 587 | 468 | 1,772 | 25,033 | |
| | 7 | 4,229 | 8,910 | 4,607 | 3,265 | 3,185 | 2,223 | 1,673 | 768 | 364 | 858 | 30,082 | |
| | 8 | 2,650 | 3,579 | 6,904 | 3,187 | 2,865 | 2,723 | 1,757 | 1,322 | 629 | 753 | 26,369 | |
| | 9 | 591 | 1,897 | 5,358 | 3,858 | 1,251 | 774 | 1,007 | 906 | 786 | 731 | 17,159 | |
| | 10 | 561 | 1,071 | 3,965 | 3,457 | 2,518 | 1,084 | 464 | 527 | 413 | 717 | 14,777 | |
| | 11 | 928 | 1,650 | 1,805 | 3,339 | 3,468 | 2,257 | 986 | 266 | 190 | 183 | 15,072 | |
| | 12 | 732 | 1,554 | 2,392 | 1,631 | 3,239 | 1,951 | 656 | 251 | 86 | 49 | 12,540 | 178,608 |
| 2006 | 1 | 410 | 1,421 | 2,215 | 2,201 | 1,506 | 2,697 | 1,316 | 340 | 229 | 131 | 12,465 | |
| | 2 | 144 | 1,347 | 3,234 | 2,677 | 2,455 | 871 | 2,416 | 1,340 | 337 | 415 | 15,237 | |
| | 3 | 171 | 639 | 1,456 | 2,090 | 3,028 | 2,608 | 934 | 2,488 | 1,331 | 799 | 15,543 | |
| | 4 | 1,279 | 604 | 1,458 | 1,760 | 2,369 | 3,261 | 2,742 | 781 | 2,272 | 2,212 | 18,738 | |
| | 5 | 1,989 | 1,039 | 1,394 | 1,763 | 1,995 | 2,552 | 3,435 | 2,593 | 507 | 4,397 | 21,662 | |
| | 6 | 4,879 | 1,689 | 2,029 | 1,679 | 1,974 | 2,100 | 2,649 | 3,407 | 2,500 | 3,861 | 26,766 | |
| | 7 | 3,816 | 8,978 | 3,656 | 2,400 | 1,743 | 1,840 | 1,760 | 1,792 | 2,509 | 4,947 | 33,441 | |
| | 8 | 2,922 | 2,966 | 4,710 | 2,913 | 2,506 | 1,761 | 1,818 | 1,276 | 1,059 | 5,480 | 27,411 | |
| | 9 | 1,988 | 1,495 | 2,338 | 2,561 | 2,694 | 2,448 | 1,454 | 869 | 316 | 710 | 16,873 | |
| | 10 | 1,416 | 3,649 | 1,106 | 1,002 | 1,705 | 1,483 | 898 | 375 | 126 | 26 | 11,786 | |
| | 11 | 809 | 1,389 | 258 | 1,271 | 1,023 | 1,038 | 522 | 201 | 98 | 42 | 6,652 | |
| | 12 | 503 | 810 | 2,694 | 1,538 | 389 | 690 | 363 | 246 | 69 | 30 | 7,480 | 214,056 |
| 2007 | 1 | 308 | 1,605 | 990 | 1,498 | 62 | 1,471 | 867 | 598 | 150 | 65 | 7,614 | |
| | 2 | 236 | 905 | 1,587 | 942 | 1,696 | 57 | 1,565 | 885 | 591 | 254 | 8,717 | |
| | 3 | 458 | 681 | 1,239 | 1,366 | 1,068 | 1,826 | 61 | 1,611 | 879 | 1,002 | 10,192 | |
| | 4 | 1,432 | 997 | 1,559 | 1,492 | 1,549 | 1,150 | 1,958 | 60 | 1,599 | 2,016 | 13,812 | |
| | 5 | 2,591 | 1,444 | 1,600 | 1,884 | 1,688 | 1,666 | 1,229 | 2,006 | 52 | 3,822 | 17,982 | |
| | 6 | 8,057 | 4,213 | 2,119 | 1,928 | 2,135 | 1,818 | 1,787 | 1,265 | 1,994 | 3,226 | 28,542 | |
| | 7 | 6,020 | 7,494 | 4,347 | 2,477 | 2,183 | 2,289 | 1,888 | 1,664 | 989 | 4,645 | 33,997 | |
| | 8 | 3,963 | 3,987 | 7,372 | 3,247 | 2,375 | 2,289 | 2,220 | 1,451 | 1,111 | 1,122 | 29,137 | |
| | 9 | 724 | 1,786 | 4,209 | 3,110 | 1,372 | 1,497 | 1,599 | 952 | 430 | 321 | 15,999 | |
| | 10 | 1,117 | 1,893 | 1,022 | 1,067 | 835 | 392 | 131 | 74 | 18 | 17 | 6,656 | |
| | 11 | 2,093 | 1,760 | 1,569 | 518 | 677 | 345 | 245 | 75 | 16 | 15 | 7,313 | |
| | 12 | 732 | 1,380 | 2,690 | 1,538 | 389 | 690 | 363 | 246 | 69 | 32 | 8,129 | 187,997 |
| 2008 | 1 | 235 | 1,384 | 2,062 | 2,657 | 1,741 | 409 | 716 | 355 | 235 | 111 | 9,905 | |
| | 2 | 329 | 996 | 2,621 | 2,334 | 2,854 | 1,815 | 402 | 698 | 351 | 406 | 12,806 | |
| | 3 | 718 | 1,581 | 2,332 | 2,826 | 2,306 | 2,941 | 1,876 | 334 | 686 | 793 | 16,393 | |
| | 4 | 957 | 2,428 | 3,643 | 2,540 | 2,928 | 2,370 | 3,094 | 1,864 | 319 | 1,559 | 21,704 | |
| | 5 | 1,324 | 3,631 | 5,703 | 4,404 | 2,871 | 3,103 | 2,374 | 3,019 | 1,778 | 1,520 | 29,726 | |
| | 6 | 6,516 | 3,194 | 8,493 | 6,894 | 4,991 | 3,091 | 3,296 | 2,331 | 2,925 | 3,592 | 45,322 | |
| | 7 | 7,522 | 8,330 | 5,018 | 10,221 | 7,664 | 5,024 | 2,870 | 2,789 | 1,418 | 4,544 | 55,400 | |
| | 8 | 1,410 | 4,107 | 5,562 | 3,476 | 10,334 | 7,376 | 4,885 | 2,614 | 2,445 | 4,197 | 46,405 | |
| | 9 | 4,113 | 824 | 3,904 | 4,024 | 6,11 | 8,355 | 5,786 | 3,938 | 1,802 | 4,077 | 39,433 | |
| | 10 | 5,612 | 2,934 | 1,453 | 3,703 | 2,702 | 1,432 | 7,666 | 4,847 | 3,430 | 5,063 | 38,842 | |
| | 11 | 1,485 | 1,818 | 1,303 | 1,588 | 3,790 | 1,625 | 327 | 7,446 | 4,728 | 8,804 | 32,915 | |
| | 12 | 483 | 1,292 | 1,847 | 1,564 | 1,692 | 3,274 | 1,207 | 177 | 7,379 | 13,740 | 32,654 | 381,503 |

補足表 3-4. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源量(トン)
(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| 2009 | 1 | 305 | 601 | 1,085 | 2,223 | 1,757 | 1,758 | 3,415 | 1,178 | 156 | 21,453 | 33,930 | |
| | 2 | 225 | 780 | 1,259 | 1,296 | 2,478 | 1,860 | 1,862 | 3,490 | 1,162 | 17,799 | 32,212 | |
| | 3 | 152 | 958 | 1,646 | 1,506 | 1,428 | 2,636 | 1,970 | 1,879 | 3,439 | 16,217 | 31,831 | |
| | 4 | 1,472 | 640 | 2,299 | 1,990 | 1,707 | 1,538 | 2,826 | 2,022 | 1,839 | 17,767 | 34,100 | |
| | 5 | 5,215 | 1,224 | 1,431 | 2,779 | 2,255 | 1,834 | 1,641 | 2,870 | 1,920 | 15,837 | 37,005 | |
| | 6 | 8,544 | 3,768 | 2,266 | 1,729 | 3,150 | 2,426 | 1,962 | 1,662 | 2,788 | 14,761 | 43,056 | |
| | 7 | 7,388 | 7,692 | 6,481 | 2,682 | 1,960 | 3,387 | 2,584 | 1,851 | 945 | 4,590 | 39,560 | |
| | 8 | 5,243 | 3,131 | 7,192 | 4,418 | 2,856 | 1,610 | 2,024 | 1,229 | 908 | 1,482 | 30,094 | |
| | 9 | 1,611 | 878 | 1,375 | 3,345 | 4,293 | 2,788 | 1,343 | 1,343 | 316 | 413 | 17,705 | |
| | 10 | 2,177 | 2,540 | 1,129 | 1,321 | 2,317 | 1,837 | 1,296 | 848 | 1,156 | 598 | 15,218 | |
| | 11 | 802 | 1,356 | 1,712 | 1,200 | 1,444 | 2,148 | 1,481 | 1,077 | 783 | 2,018 | 14,021 | |
| | 12 | 640 | 1,138 | 2,468 | 940 | 1,093 | 911 | 1,967 | 1,458 | 1,064 | 2,742 | 14,420 | 343,152 |
| 2010 | 1 | 278 | 1,078 | 1,616 | 2,432 | 938 | 859 | 813 | 1,996 | 1,450 | 3,737 | 15,197 | |
| | 2 | 136 | 517 | 1,571 | 1,494 | 2,631 | 764 | 783 | 797 | 1,968 | 5,074 | 15,736 | |
| | 3 | 213 | 545 | 1,075 | 1,450 | 1,497 | 2,663 | 679 | 707 | 713 | 6,816 | 16,360 | |
| | 4 | 1,223 | 903 | 1,279 | 1,300 | 1,644 | 1,612 | 2,855 | 698 | 701 | 6,697 | 18,913 | |
| | 5 | 3,666 | 1,982 | 1,915 | 1,544 | 1,472 | 1,770 | 1,724 | 2,930 | 675 | 6,455 | 24,133 | |
| | 6 | 10,126 | 4,982 | 3,694 | 2,301 | 1,748 | 1,584 | 1,884 | 1,744 | 2,859 | 5,941 | 36,864 | |
| | 7 | 6,649 | 6,284 | 5,008 | 4,418 | 2,599 | 1,868 | 1,538 | 1,498 | 782 | 3,901 | 34,546 | |
| | 8 | 3,456 | 2,232 | 3,300 | 4,272 | 3,935 | 2,581 | 1,913 | 1,452 | 1,205 | 1,889 | 26,235 | |
| | 9 | 2,776 | 1,539 | 2,478 | 2,164 | 2,871 | 2,026 | 1,417 | 914 | 529 | 798 | 17,513 | |
| | 10 | 7,713 | 2,465 | 2,496 | 1,130 | 905 | 563 | 360 | 378 | 337 | 452 | 16,799 | |
| | 11 | 2,732 | 3,157 | 2,475 | 1,343 | 1,121 | 590 | 228 | 198 | 170 | 226 | 12,239 | |
| | 12 | 578 | 1,879 | 2,386 | 2,037 | 1,411 | 947 | 385 | 119 | 70 | 69 | 9,881 | 244,416 |
| 2011 | 1 | 337 | 1,976 | 2,867 | 2,879 | 2,268 | 1,168 | 577 | 264 | 92 | 145 | 12,573 | |
| | 2 | 188 | 1,478 | 3,931 | 3,438 | 3,245 | 2,416 | 1,235 | 583 | 258 | 241 | 17,013 | |
| | 3 | 181 | 858 | 3,340 | 4,016 | 3,881 | 3,471 | 2,484 | 1,155 | 507 | 474 | 20,368 | |
| | 4 | 307 | 509 | 2,028 | 3,518 | 4,541 | 4,165 | 3,663 | 2,494 | 1,108 | 1,036 | 23,369 | |
| | 5 | 815 | 750 | 1,095 | 1,979 | 3,978 | 4,826 | 3,882 | 3,107 | 2,064 | 1,930 | 24,425 | |
| | 6 | 1,909 | 2,764 | 1,587 | 891 | 2,234 | 4,215 | 4,542 | 3,277 | 2,639 | 3,927 | 27,984 | |
| | 7 | 3,264 | 4,250 | 4,456 | 1,918 | 1,003 | 2,242 | 3,547 | 2,994 | 1,764 | 4,186 | 29,624 | |
| | 8 | 9,455 | 2,791 | 6,510 | 4,228 | 2,029 | 906 | 852 | 1,126 | 1,237 | 2,357 | 31,490 | |
| | 9 | 1,454 | 2,255 | 3,927 | 5,229 | 3,528 | 1,811 | 631 | 330 | 457 | 1,441 | 21,062 | |
| | 10 | 1,572 | 1,528 | 2,823 | 3,473 | 5,688 | 2,864 | 1,066 | 342 | 120 | 26 | 19,501 | |
| | 11 | 1,287 | 1,441 | 1,010 | 3,164 | 3,667 | 4,468 | 466 | 34 | 18 | 8 | 15,562 | |
| | 12 | 991 | 1,575 | 1,366 | 1,176 | 3,363 | 2,525 | 3,415 | 112 | 1 | 4 | 14,529 | 257,499 |
| 2012 | 1 | 371 | 1,703 | 1,711 | 1,651 | 1,333 | 3,616 | 2,658 | 3,448 | 96 | 5 | 16,592 | |
| | 2 | 199 | 656 | 1,466 | 2,047 | 1,831 | 1,401 | 3,851 | 2,720 | 3,420 | 127 | 17,719 | |
| | 3 | 248 | 479 | 1,348 | 1,691 | 2,167 | 1,840 | 1,398 | 3,899 | 2,674 | 4,649 | 20,393 | |
| | 4 | 902 | 1,013 | 1,076 | 1,629 | 1,836 | 2,094 | 1,873 | 1,398 | 3,835 | 7,403 | 23,058 | |
| | 5 | 1,142 | 902 | 888 | 1,300 | 1,792 | 1,818 | 2,179 | 1,901 | 1,362 | 11,308 | 24,591 | |
| | 6 | 3,074 | 2,348 | 1,719 | 1,062 | 1,428 | 1,815 | 1,868 | 2,109 | 1,742 | 10,157 | 27,321 | |
| | 7 | 6,010 | 7,341 | 3,480 | 2,078 | 1,192 | 1,364 | 1,545 | 1,498 | 1,584 | 7,016 | 33,108 | |
| | 8 | 7,954 | 3,151 | 7,177 | 2,881 | 1,422 | 1,210 | 1,174 | 1,072 | 839 | 4,026 | 30,907 | |
| | 9 | 6,319 | 4,007 | 5,148 | 1,690 | 1,093 | 421 | 230 | 206 | 167 | 545 | 19,827 | |
| | 10 | 5,276 | 3,575 | 3,213 | 3,689 | 1,092 | 351 | 128 | 111 | 93 | 369 | 17,896 | |
| | 11 | 1,592 | 2,092 | 2,695 | 2,311 | 1,258 | 554 | 350 | 130 | 109 | 430 | 11,520 | |
| | 12 | 807 | 1,965 | 1,604 | 1,963 | 1,308 | 850 | 555 | 360 | 128 | 508 | 10,049 | 252,981 |
| 2013 | 1 | 371 | 1,697 | 2,537 | 1,781 | 2,206 | 1,393 | 881 | 541 | 332 | 523 | 12,261 | |
| | 2 | 241 | 1,495 | 3,517 | 2,645 | 1,826 | 2,258 | 1,428 | 879 | 528 | 833 | 15,651 | |
| | 3 | 263 | 1,096 | 3,342 | 3,872 | 2,723 | 1,772 | 2,393 | 1,458 | 867 | 1,365 | 19,151 | |
| | 4 | 414 | 1,104 | 2,320 | 3,763 | 4,255 | 2,860 | 1,883 | 2,454 | 1,443 | 2,274 | 22,770 | |
| | 5 | 3,034 | 1,108 | 2,432 | 2,722 | 4,166 | 4,500 | 3,059 | 1,937 | 2,439 | 3,842 | 29,238 | |
| | 6 | 5,217 | 4,105 | 2,023 | 2,305 | 2,780 | 4,320 | 4,787 | 3,126 | 1,911 | 6,418 | 36,992 | |
| | 7 | 5,239 | 4,463 | 5,046 | 2,444 | 2,610 | 2,804 | 3,157 | 2,183 | 1,676 | 2,783 | 32,405 | |
| | 8 | 3,385 | 4,327 | 5,171 | 3,951 | 2,542 | 2,510 | 1,960 | 1,104 | 516 | 1,063 | 26,528 | |
| | 9 | 6,477 | 3,178 | 3,416 | 2,300 | 1,341 | 1,211 | 1,253 | 942 | 446 | 314 | 20,877 | |
| | 10 | 3,005 | 2,786 | 1,519 | 2,843 | 2,475 | 1,367 | 799 | 292 | 84 | 8 | 15,179 | |
| | 11 | 1,599 | 2,958 | 2,158 | 1,444 | 2,850 | 1,534 | 532 | 83 | 16 | 8 | 13,182 | |
| | 12 | 950 | 3,615 | 4,812 | 2,501 | 1,138 | 584 | 180 | 51 | 7 | 3 | 13,840 | 258,073 |
| 2014 | 1 | 406 | 2,182 | 4,426 | 5,611 | 2,549 | 1,019 | 441 | 121 | 33 | 7 | 16,795 | |
| | 2 | 130 | 1,516 | 4,689 | 5,021 | 5,844 | 2,295 | 816 | 318 | 69 | 15 | 20,714 | |
| | 3 | 125 | 552 | 3,507 | 5,299 | 5,091 | 5,708 | 2,103 | 630 | 232 | 48 | 23,296 | |
| | 4 | 822 | 592 | 1,328 | 4,229 | 5,952 | 5,185 | 5,105 | 1,279 | 352 | 73 | 24,915 | |
| | 5 | 3,751 | 1,694 | 870 | 1,596 | 4,745 | 6,094 | 4,317 | 4,183 | 945 | 194 | 28,390 | |
| | 6 | 7,859 | 2,501 | 1,672 | 1,051 | 1,808 | 5,100 | 6,465 | 4,387 | 4,142 | 1,405 | 36,391 | |
| | 7 | 5,356 | 4,494 | 3,523 | 1,981 | 1,174 | 1,378 | 1,673 | 1,455 | 1,550 | 4,075 | 26,659 | |
| | 8 | 4,030 | 2,202 | 4,761 | 3,313 | 2,132 | 687 | 397 | 291 | 241 | 1,104 | 19,158 | |
| | 9 | 2,022 | 3,405 | 3,422 | 3,612 | 2,949 | 1,559 | 416 | 205 | 161 | 344 | 18,095 | |
| | 10 | 2,150 | 3,415 | 3,938 | 3,230 | 2,862 | 1,792 | 978 | 199 | 46 | 62 | 18,672 | |
| | 11 | 963 | 1,864 | 2,006 | 3,032 | 2,803 | 2,501 | 1,582 | 995 | 192 | 104 | 16,041 | |
| | 12 | 812 | 2,251 | 2,626 | 1,874 | 2,733 | 1,861 | 2,054 | 866 | 445 | 194 | 15,717 | 264,842 |
| 2015 | 1 | 458 | 2,143 | 2,357 | 2,706 | 1,603 | 2,214 | 1,691 | 1,515 | 406 | 643 | 15,736 | |
| | 2 | 213 | 1,367 | 2,916 | 2,762 | 2,977 | 1,606 | 2,300 | 1,584 | 1,320 | 709 | 17,753 | |
| | 3 | 183 | 838 | 2,834 | 3,479 | 3,077 | 3,063 | 1,533 | 2,307 | 1,521 | 2,308 | 21,144 | |
| | 4 | 788 | 655 | 1,901 | 3,355 | 3,860 | 3,079 | 2,964 | 1,400 | 2,026 | 3,259 | 23,286 | |
| | 5 | 3,560 | 1,272 | 1,531 | 2,297 | 3,800 | 4,142 | 3,231 | 2,836 | 1,042 | 4,366 | 28,079 | |
| | 6 | 7,304 | 2,706 | 1,696 | 1,851 | 2,604 | 4,093 | 4,432 | 3,243 | 2,581 | 2,486 | 32,996 | |
| | 7 | 4,686 | 4,924 | 4,124 | 2,050 | 2,096 | 2,713 | 3,202 | 2,562 | 1,285 | 1,376 | 29,019 | |
| | 8 | 3,707 | 3,073 | 3,075 | 4,520 | 2,262 | 2,028 | 2,039 | 1,714 | 1,092 | 809 | 24,318 | |
| | 9 | 1,356 | 2,215 | 2,650 | 3,078 | 4,692 | 1,884 | 1,346 | 815 | 473 | 233 | 18,742 | |
| | 10 | 2,833 | 2,728 | 3,062 | 2,050 | 2,491 | 3,077 | 885 | 321 | 164 | 8 | 17,619 | |
| | 11 | 1,405 | 2,015 | 2,853 | 1,781 | 1,595 | 1,550 | 2,453 | 770 | 256 | 129 | 14,807 | |
| | 12 | 2,064 | 1,744 | 2,773 | 2,147 | 738 | 893 | 859 | 1,779 | 560 | 304 | 13,862 | 257,359 |

補足表 3-4. カタクチイワシ瀬戸内海系群におけるコホート解析によって推定された資源量(トン)
(続き)

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| 2016 | 1 | 780 | 2,648 | 2,711 | 2,748 | 1,855 | 468 | 602 | 516 | 1,670 | 935 | 14,933 | |
| | 2 | 483 | 1,500 | 2,597 | 3,186 | 2,959 | 1,832 | 349 | 505 | 461 | 2,986 | 16,857 | |
| | 3 | 346 | 761 | 2,404 | 3,116 | 3,556 | 3,118 | 1,920 | 347 | 464 | 2,147 | 18,179 | |
| | 4 | 2,311 | 1,428 | 1,539 | 2,905 | 3,529 | 3,811 | 3,317 | 1,930 | 240 | 1,234 | 22,244 | |
| | 5 | 3,809 | 2,935 | 2,057 | 1,860 | 3,291 | 3,791 | 4,074 | 3,394 | 1,862 | 598 | 27,672 | |
| | 6 | 7,668 | 4,082 | 4,103 | 2,486 | 2,108 | 3,538 | 3,991 | 3,813 | 2,795 | 2,260 | 36,845 | |
| | 7 | 3,703 | 5,071 | 4,715 | 4,942 | 2,786 | 2,053 | 2,730 | 2,274 | 1,733 | 1,518 | 31,524 | |
| | 8 | 2,439 | 2,990 | 4,356 | 3,694 | 4,766 | 2,864 | 1,993 | 1,868 | 939 | 902 | 26,810 | |
| | 9 | 4,038 | 1,561 | 2,446 | 2,833 | 3,072 | 2,981 | 1,650 | 1,089 | 1,069 | 994 | 21,733 | |
| | 10 | 3,646 | 4,266 | 2,412 | 2,727 | 2,882 | 2,105 | 1,974 | 698 | 58 | 74 | 20,842 | |
| | 11 | 2,209 | 2,912 | 5,128 | 2,266 | 2,868 | 1,834 | 1,017 | 1,355 | 554 | 81 | 20,225 | |
| | 12 | 1,195 | 2,748 | 4,925 | 5,164 | 1,378 | 1,390 | 1,152 | 787 | 1,106 | 662 | 20,506 | 278,370 |
| 2017 | 1 | 363 | 2,704 | 4,293 | 3,699 | 5,737 | 1,474 | 1,473 | 1,162 | 776 | 2,031 | 23,713 | |
| | 2 | 214 | 1,172 | 3,282 | 5,088 | 4,191 | 6,135 | 1,418 | 1,347 | 1,057 | 2,367 | 26,271 | |
| | 3 | 263 | 881 | 2,465 | 3,947 | 5,759 | 4,508 | 6,530 | 1,343 | 1,218 | 2,906 | 29,820 | |
| | 4 | 996 | 1,251 | 2,108 | 2,970 | 4,463 | 6,193 | 4,741 | 6,490 | 1,099 | 3,013 | 33,323 | |
| | 5 | 3,166 | 2,445 | 2,680 | 2,548 | 3,365 | 4,804 | 6,592 | 4,742 | 6,320 | 3,269 | 39,931 | |
| | 6 | 8,847 | 3,105 | 3,363 | 2,802 | 2,849 | 3,567 | 5,142 | 6,784 | 4,705 | 11,172 | 52,337 | |
| | 7 | 6,187 | 2,556 | 2,992 | 3,165 | 2,917 | 2,925 | 3,291 | 4,232 | 5,158 | 9,954 | 43,376 | |
| | 8 | 2,029 | 1,750 | 2,207 | 2,412 | 2,860 | 2,652 | 2,316 | 1,447 | 846 | 1,864 | 20,383 | |
| | 9 | 1,020 | 936 | 2,044 | 1,552 | 1,364 | 1,326 | 1,160 | 799 | 522 | 540 | 11,262 | |
| | 10 | 1,155 | 992 | 1,351 | 1,111 | 1,015 | 669 | 994 | 627 | 420 | 649 | 8,983 | |
| | 11 | 802 | 911 | 1,367 | 1,555 | 983 | 774 | 508 | 798 | 473 | 748 | 8,919 | |
| | 12 | 620 | 1,891 | 183 | 1,603 | 1,513 | 620 | 459 | 354 | 714 | 1,090 | 9,047 | 307,366 |

補足資料4 資源量や親魚量の表記に関する検討

本系群では、資源量を1～12月の資源量の合計、親魚量を5～10月の親魚量の合計値として表記することとした。これらの表記方法を採用するにいたるまでの検討内容を以下に示す。

1. 背景と問題点

本系群では月別月齢別漁獲尾数データを用いたコホート解析により、月別月齢別資源尾数、および資源量を推定しており、これらは各月1日における値である。この方法自体に問題はなく、シラスを含めた資源管理方策を検討するためには有効であると考えられる。しかしながら、1～12月の値を合計して暦年の資源尾数や資源量とすると、1月1日に存在した個体に、翌月1日の生残個体を毎月加算していることになる。

2. 1～12月の平均値として表すことの検討

そこで、資源量を1～12月の平均値で表すことを検討した。これは、各年1～12月の間に変動している資源量を平均的な資源量として表すことになる。しかし、月別月齢別漁獲尾数データを用いたコホート解析においては毎月の加入を含め、各個体が成長して増加する資源から毎月漁獲が行われる。通常、漁獲量は1～12月の合計値として表されるため、1～12月の平均値で表した資源量よりも漁獲量の方が大きくなる。2017年を例として、この関係を補足図4-1に示した。2017年の資源量を1～12月の平均値(点線)として表した。漁獲量は1～12月の合計値(12月時点における累積値)であり、資源量(1～12月の平均値)よりも漁獲量(12月時点での累積値)の方が大きな値として表現されることになる。また、1～12月の平均値である月単位の資源量と1～12月の12か月間を累積した年単位の漁獲量という時間単位の異なる数値が混在することになり、資源評価報告書全般にわたって表現が複雑になる。資源量と漁獲量の両者を1～12月の平均値として表すことも可能であるが、年単位の漁獲量も併記する必要があるため、より複雑なものとなる。

3. 年別年齢別漁獲尾数データを用いたコホート解析による資源評価の検討

もう1つの解決方法を探るため、我が国周辺海域で資源評価対象となっているカタクチイワシ太平洋系群やカタクチイワシ対馬暖流系群と同様に、年別年齢別漁獲尾数データを用いたコホート解析を適用し、資源量を試算した。これにより、個体を重複して集計することなく、資源尾数や資源量を表すことができる。カタクチイワシ瀬戸内海系群において漁獲尾数を年齢別に整理したところ、解析対象期間とした36年のうち、11年間で2歳魚が漁獲されなかつたため、年齢構成を0歳魚と1+歳魚とした。自然死亡係数Mについては、月別月齢別漁獲尾数データを用いたコホート解析で使用した値を利用し、0歳魚については1～11月齢魚の合計値2.65、1+歳魚については12～23月齢魚の合計値2.00とした。コホート解析の結果、資源量の推定値の変動傾向は比較的よく一致した(補足図4-2)。

しかし、以下の理由により、年別年齢別漁獲尾数データを用いたコホート解析結果を資源評価に適用するのは、現状では困難であると判断された。

- ・将来予測において再生産成功率RPS×親魚量から加入量を推定するが、産卵が5月齢から開始される(0歳魚の一部が親魚となる)ため、RPS×親魚量から加入量を推定できな

い。

・0歳魚を親魚としない（親魚は1+歳魚のみ）と仮定した場合、極めて少ない親魚量となる年や少ない親魚量から多くの加入量が発生する年が生じることなど、非現実的な結果となる。これは、本資源の多くが0歳魚で占められていることによる。

4. 合計値を資源評価で使用することの妥当性の検討

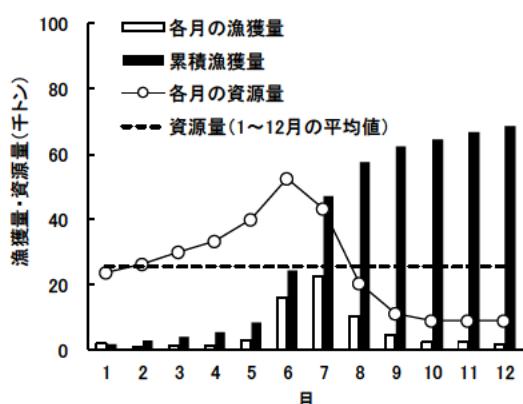
合計値を資源評価で使用することの妥当性を検討するため、資源量や親魚量における合計値と平均値について経年推移の比較を行った。

各年における1~12月の資源量の合計値と平均値の関係は以下の通りであり、合計値と平均値の経年推移の変動傾向は一致する（補足図4-3）。したがって、1~12月の合計値と平均値のいずれを採用しても経年推移の変動傾向は変わらない。

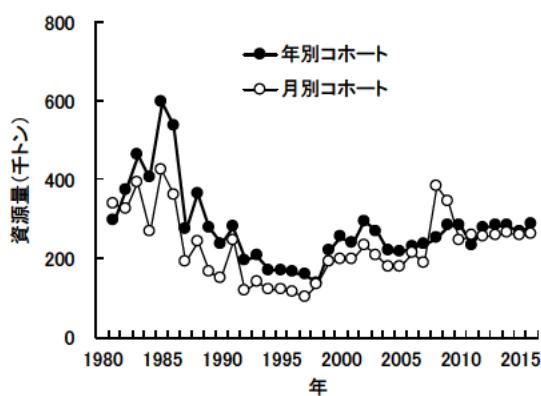
1~12月の資源量の平均値=1~12月の資源量の合計値／12（1~12月の月数）
親魚量についても合計値と平均値の経年推移の変動傾向は一致する（補足図4-4）。

5~10月の親魚量の平均値=5~10月の親魚量の合計値／6（5~10月の月数）

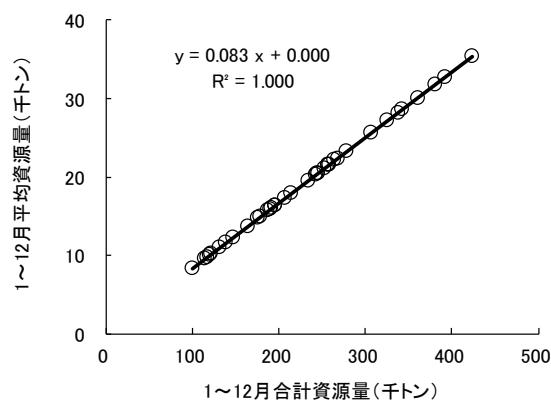
以上の検討結果から、1~12月の資源量の合計値や5~10月の親魚量の合計値は各月の生残個体を累積的に合計している値という点で問題はあるものの、資源評価で経年推移を判断する上では問題ないことから、表現型としてこれらの合計値を採用することとした。



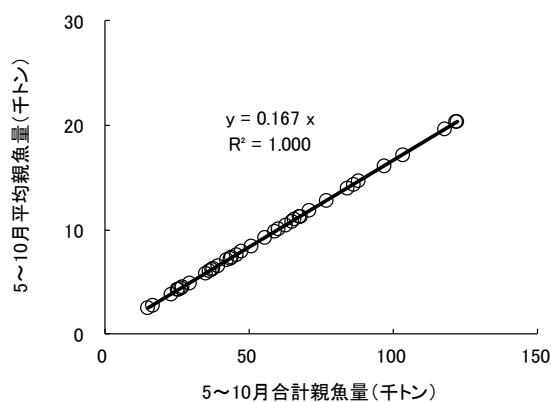
補足図4-1. 漁獲量と資源量の関係



補足図4-2. 年別コホート解析と月別コホート解析による資源量推定結果の比較



補足図 4-3. 資源量における 1～12 月の合計値と平均値の関係



補足図 4-4. 親魚量における 5～10 月の合計値と平均値の関係

補足資料 5 将来予測における加入量の仮定

将来予測は資源量推定と同様、月別月齢別に行った。2018年以降の各月の加入量については、月別に再生産成功率 RPS を求め、それらと各月の親魚量から加入量を求めた。その際、今後の各月の RPS は直近年を除いた最近 10 年間（2007～2016 年）の平均値（補足表 5-1）で継続すると仮定した。各年の加入量の上限値は、直近年を除いた最近 10 年間の最大値（0.618 兆尾）と仮定し（補足表 5-2）、各月の加入量の上限値（補足表 5-3）は、0.618 兆尾×直近年を除いた最近 10 年間における各月の加入量の平均割合（補足表 5-4）と仮定した。

補足表 5-1. 直近年を除いた最近 10 年間（2007～2016 年）における月別の再生産成功率 RPS（千尾／kg）の平均値

| 月 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| RPS | 1.9 | 0.8 | 0.7 | 1.7 | 3.4 | 7.0 | 5.1 | 5.5 | 5.5 | 10.4 | 9.2 | 4.2 |

この補足表における RPS は当該月の加入量とその前の月の親魚量の関係から求めた。例えば 1 月における RPS、1.9（千尾／kg）は、前年 12 月の親魚量と 1 月の加入量の関係を示す。

補足表 5-2. 直近年を除いた最近 10 年間における各年 1～12 月の合計加入量（兆尾）

| 年 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1～12 月 合計加入量 | 0.433 | 0.480 | 0.528 | 0.618 | 0.340 | 0.530 | 0.472 | 0.444 | 0.446 | 0.510 |

補足表 5-3. 将来予測における各月の加入量の上限値（兆尾）

| 月 | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------|-------|-------|-------|-------|-------|-------|
| 加入量の 上限値 | 0.008 | 0.005 | 0.006 | 0.021 | 0.057 | 0.132 |

| 月 | 7 | 8 | 9 | 10 | 11 | 12 | 合計 |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| 加入量の 上限値 | 0.112 | 0.096 | 0.061 | 0.068 | 0.033 | 0.019 | 0.618 |

補足表 5-4. 直近年を除いた最近 10 年間における各月の加入量の平均割合（%）

| 月 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 合計 |
|----|-----|-----|-----|-----|-----|------|------|------|-----|------|-----|-----|-------|
| 割合 | 1.3 | 0.8 | 1.0 | 3.4 | 9.3 | 21.3 | 18.2 | 15.6 | 9.9 | 11.0 | 5.3 | 3.1 | 100.0 |

補足資料 6 将来予測結果

ABCtarget と ABClimit を算定する際の将来予測のうち、2019 年における月別月齢別の資源尾数、資源量、漁獲尾数、漁獲量を補足図 6-1～6-4 に示した。各補足図において、Ftarget で求めた値が Flimit で求めた値よりも大きくなる月を矢印で示した。また、2018～2019 年における月別月齢別の資源尾数、資源量、漁獲係数、漁獲尾数、漁獲量を補足表 6-1～6-5 に示した。

1. 資源尾数

1 月齢では 2019 年 3 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなり、2～10 月齢では 2 月以降に大きくなつた（補足図 6-1、補足表 6-1）。全月齢を込みにした場合には、2 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなつた。

2. 資源量

各月齢の挙動は資源尾数の結果と類似した。すなわち、1 月齢では 2019 年 3 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなり、2～10 月齢では 2 月以降に大きくなつた（補足図 6-2、補足表 6-2）。全月齢を込みにした場合には、2 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなつた。

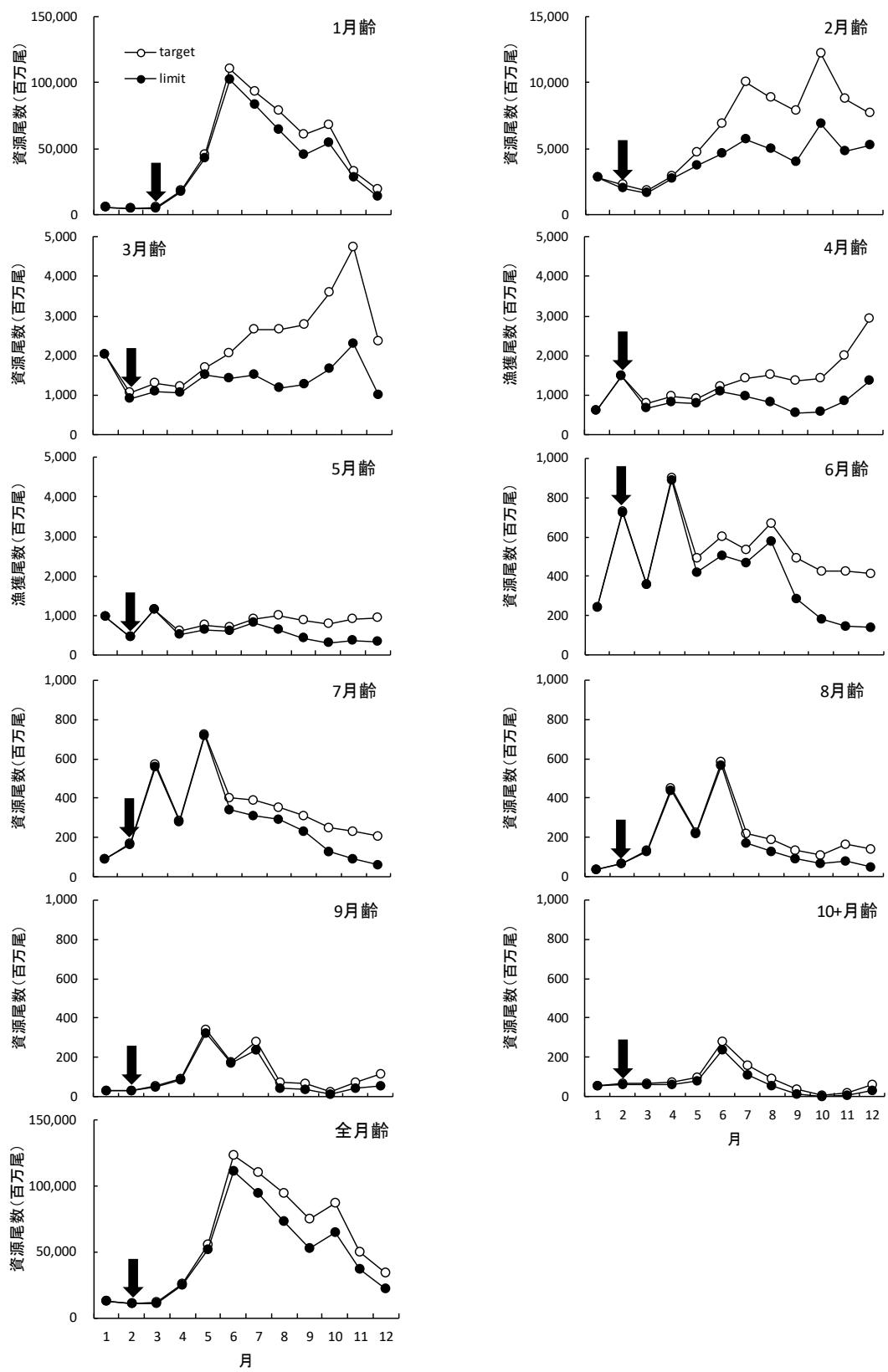
3. 漁獲尾数

2 月齢と 10 月齢では 2019 年 5 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなり、1 月齢と 3 月齢では 6 月以降、4 月齢と 7～9 月齢では 7 月以降、5 月齢では 8 月以降、6 月齢では 9 月以降に大きくなつた（補足図 6-3、補足表 6-4）。その結果、全月齢を込みにした場合には、6 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなつた。また各月までの累積漁獲尾数では、7 月以降に Ftarget で求めた値が大きくなつた。

4. 漁獲量

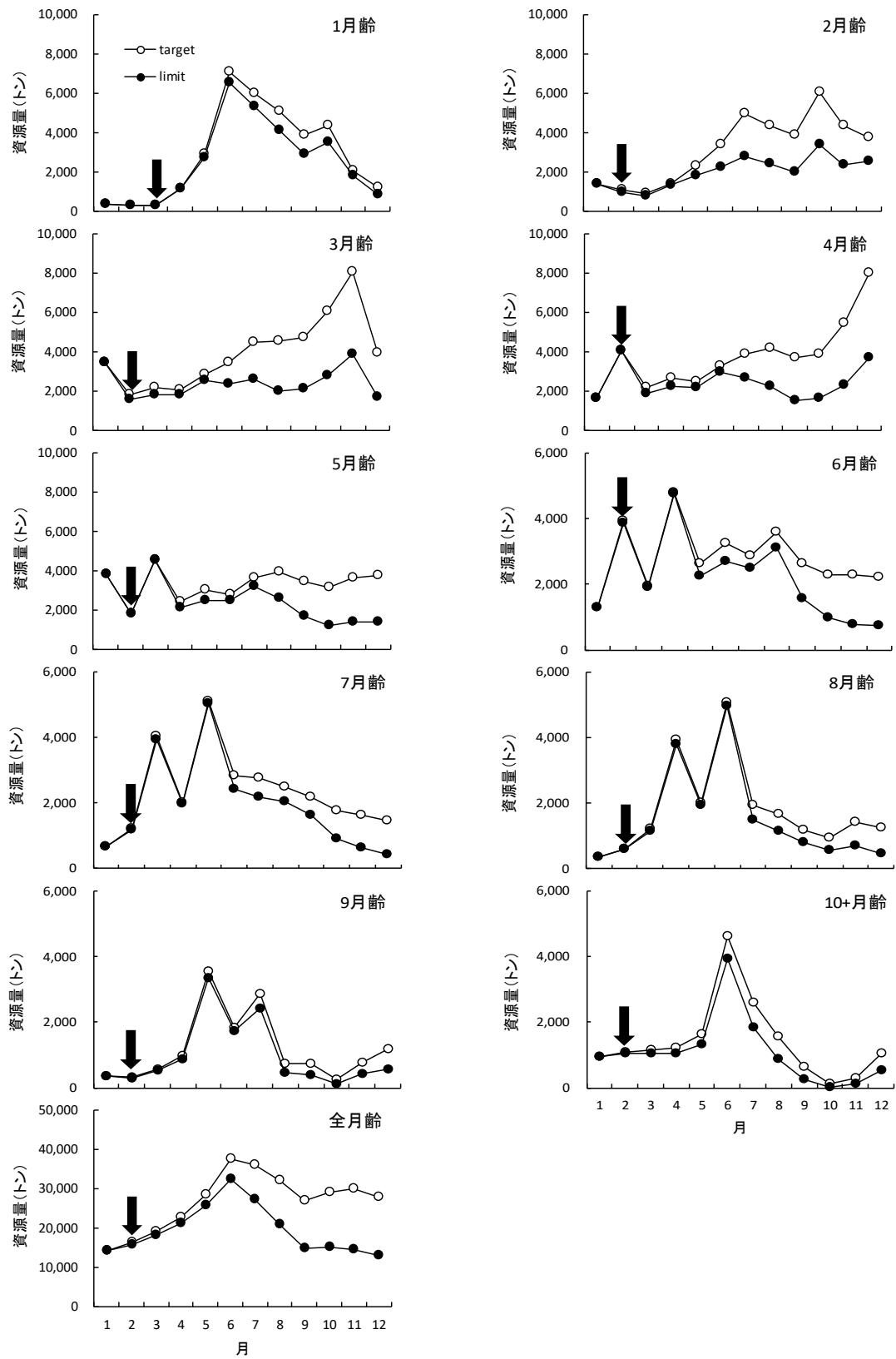
各月齢の挙動は漁獲尾数の結果と類似した。すなわち、2 月齢と 10 月齢では 2019 年 5 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなり、1 月齢と 3 月齢では 6 月以降、4 月齢と 7～9 月齢では 7 月以降、5 月齢では 8 月以降、6 月齢では 9 月以降に大きくなつた（補足図 6-4、補足表 6-5）。その結果、全月齢を込みにした場合には、6 月以降に Ftarget で求めた値が Flimit で求めた値よりも大きくなつた。また各月までの累積漁獲量では、7 月以降に Ftarget で求めた値が大きくなつた。

以上を整理すると、資源管理を開始する 2019 年において漁獲係数を Flimit から Ftarget に減少させた場合、5 月までは Flimit で得られる各月の漁獲尾数や漁獲量が、Ftarget で得られるそれより多かつた。しかし 6 月以降は資源尾数や資源量の増加の効果により、Ftarget で得られる漁獲尾数や漁獲量の方が多くなつた。その結果、各月までの累積漁獲尾数や累積漁獲量は、7 月以降に Ftarget の場合の方が Flimit の場合よりも多くなつた。



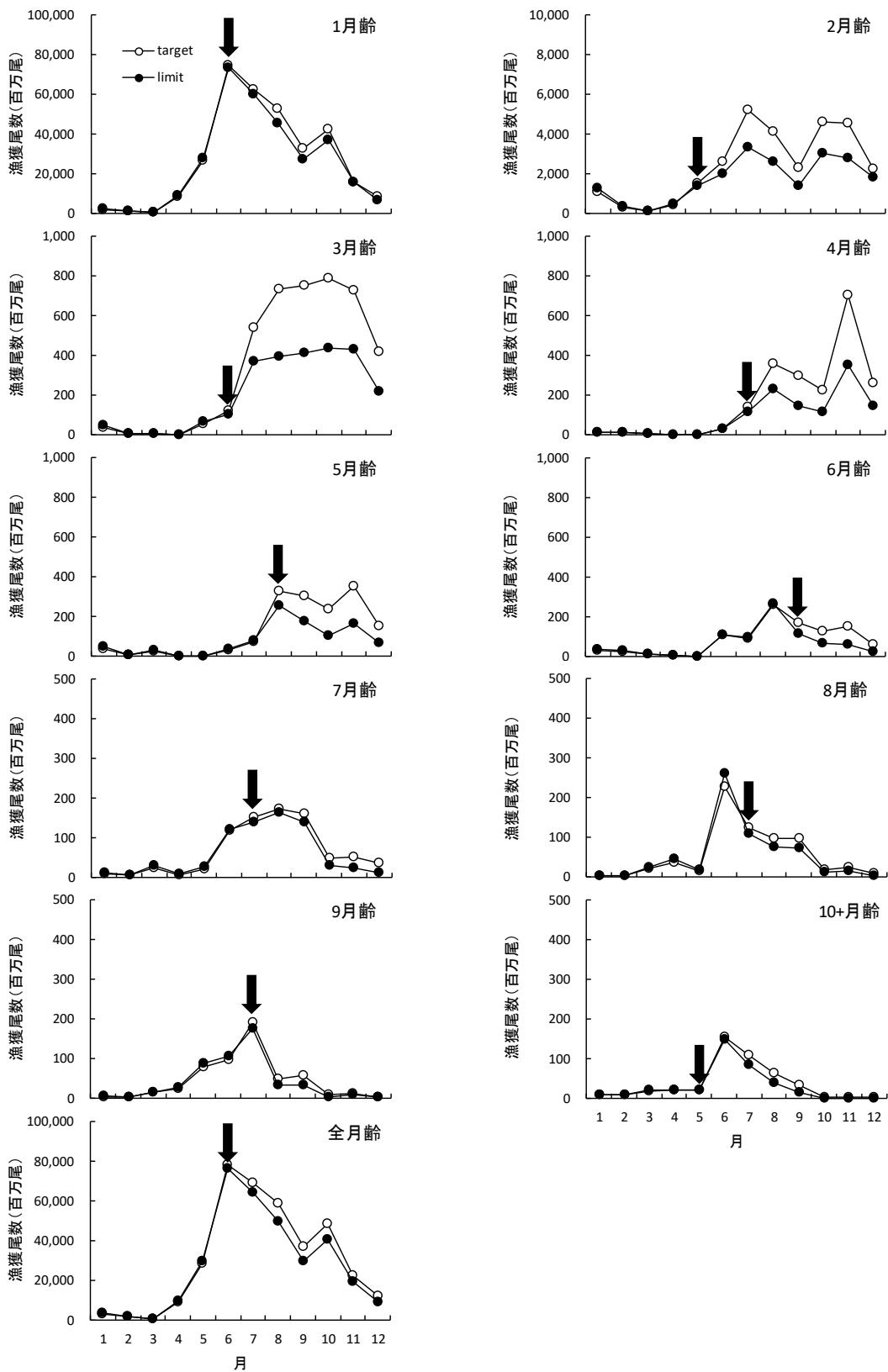
補足図 6-1. カタクチイワシ瀬戸内海系群の将来予測における 2019 年の月齢別資源尾数 (百万尾) の経月推移

各月齢において、矢印で示した月に F_{target} で求めた値が F_{limit} で求めた値よりも大きくなる。



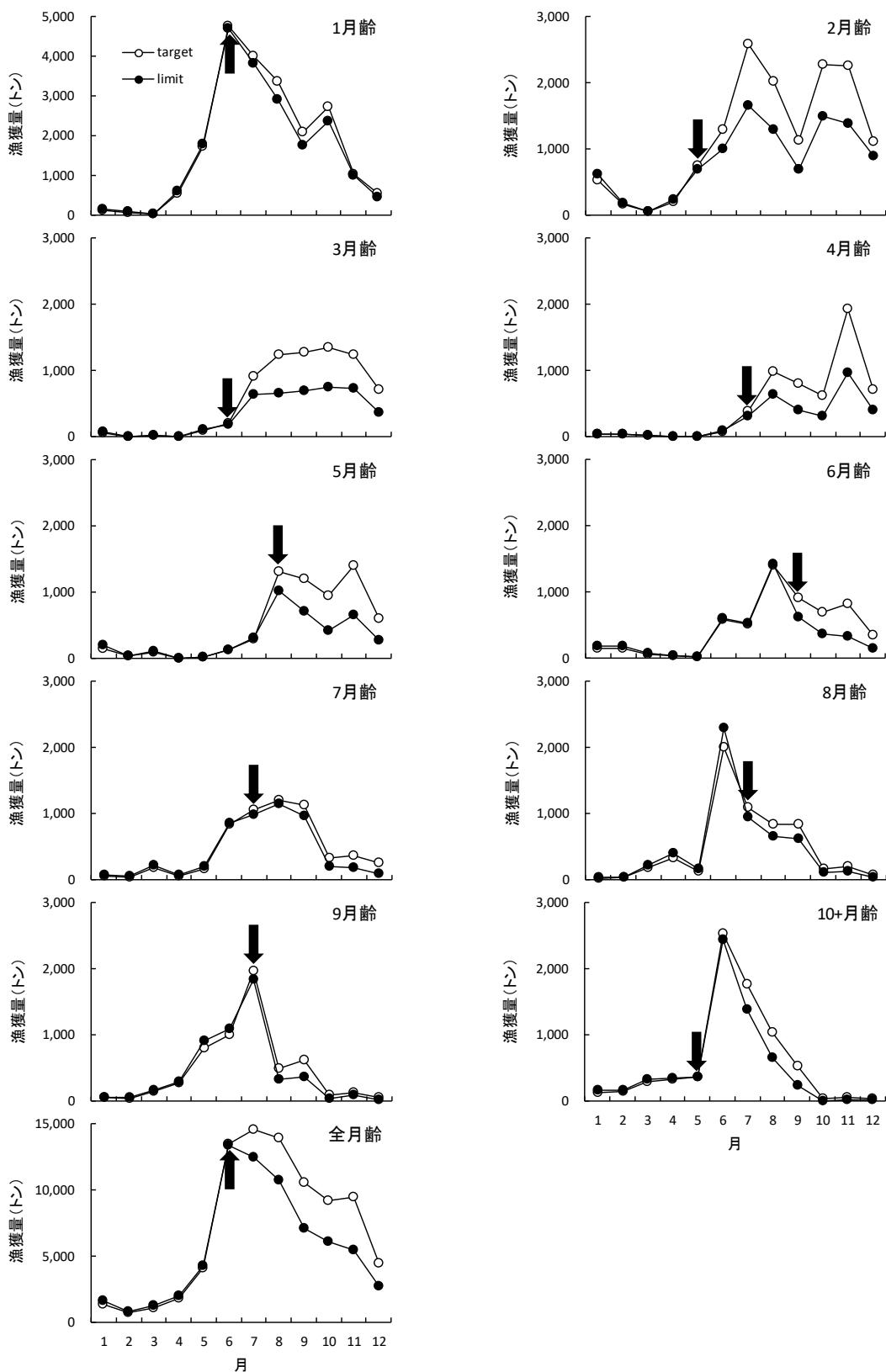
補足図 6-2. カタクチイワシ瀬戸内海系群の将来予測における 2019 年の月齢別資源量(トン)の経月推移

各月齢において、矢印で示した月に F_{target} で求めた値が F_{limit} で求めた値よりも大きくなる。



補足図 6-3. カタクチイワシ瀬戸内海系群の将来予測における 2019 年の月齢別漁獲尾数
(百万尾) の経月推移

各月齢において、矢印で示した月に F_{target} で求めた値が F_{limit} で求めた値よりも大きくなる。



補足図 6-4. カタクチイワシ瀬戸内海系群の将来予測における 2019 年の月齢別漁獲量 (トン) の経月推移

各月齢において、矢印で示した月に F_{target} で求めた値が F_{limit} で求めた値よりも大きくなる。

補足表 6-1. カタクチイワシ瀬戸内海系群における資源尾数（百万尾）の将来予測

ABCtarget

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|-----------------|------|---------|---------|--------|--------|--------|-------|-------|-------|-------|-------|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 |
| 2019 | | 2 | 4,534 | 2,271 | 1,074 | 1,486 | 462 | 732 | 173 | 69 | 31 | 67 | 10,899 |
| 2019 | | 3 | 5,280 | 1,858 | 1,308 | 799 | 1,147 | 363 | 574 | 138 | 55 | 70 | 11,592 |
| 2019 | | 4 | 18,294 | 2,888 | 1,217 | 973 | 618 | 898 | 286 | 452 | 95 | 76 | 25,797 |
| 2019 | | 5 | 45,186 | 4,722 | 1,679 | 911 | 758 | 494 | 727 | 230 | 344 | 101 | 55,153 |
| 2019 | | 6 | 110,371 | 6,902 | 2,044 | 1,206 | 708 | 604 | 401 | 583 | 178 | 284 | 123,280 |
| 2019 年 1~12 月合計 | | 542,917 | 76,861 | 28,103 | 16,627 | 10,069 | 6,302 | 4,004 | 2,479 | 1,376 | 1,039 | 689,777 | |

ABClimit

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 | |
|-----------------|------|---------|---------|--------|--------|-------|-------|-------|-------|-------|-----|---------|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 | |
| 2019 | | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| 2019 | | 2 | 4,534 | 1,997 | 921 | 1,478 | 459 | 723 | 167 | 67 | 30 | 64 | 10,441 | |
| 2019 | | 3 | 5,170 | 1,671 | 1,094 | 684 | 1,138 | 359 | 561 | 132 | 52 | 65 | 10,927 | |
| 2019 | | 4 | 17,813 | 2,735 | 1,076 | 813 | 528 | 886 | 280 | 436 | 87 | 65 | 24,718 | |
| 2019 | | 5 | 42,869 | 3,685 | 1,516 | 806 | 633 | 422 | 716 | 223 | 324 | 82 | 51,276 | |
| 2019 | | 6 | 101,818 | 4,603 | 1,413 | 1,078 | 625 | 504 | 342 | 568 | 170 | 241 | 111,362 | |
| 2019 | | 7 | 83,620 | 5,708 | 1,524 | 967 | 812 | 469 | 310 | 173 | 236 | 113 | 93,931 | |
| 2019 | | 8 | 64,183 | 4,946 | 1,190 | 818 | 650 | 580 | 293 | 130 | 44 | 54 | 72,888 | |
| 2019 | | 9 | 45,729 | 4,024 | 1,266 | 551 | 432 | 290 | 232 | 94 | 40 | 17 | 52,674 | |
| 2019 | | 10 | 54,641 | 6,888 | 1,648 | 591 | 301 | 186 | 131 | 66 | 12 | 2 | 64,469 | |
| 2019 | | 11 | 28,282 | 4,775 | 2,298 | 855 | 360 | 146 | 91 | 81 | 43 | 7 | 36,937 | |
| 2019 | | 12 | 13,681 | 5,213 | 999 | 1,347 | 353 | 142 | 63 | 52 | 55 | 33 | 21,938 | 564,528 |
| 2019 年 1~12 月合計 | | 468,410 | 49,074 | 16,974 | 10,593 | 7,251 | 4,952 | 3,281 | 2,064 | 1,127 | 802 | 564,528 | | |

補足表 6-2. カタクチイワシ瀬戸内海系群における資源量（トン）の将来予測

ABCtarget

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|-----------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 年 1~12 月合計 | | 34,747 | 37,970 | 47,662 | 45,508 | 40,065 | 33,724 | 28,119 | 21,616 | 14,223 | 16,932 | 320,564 | |

ABClimit

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|-----------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 986 | 1,562 | 4,044 | 1,828 | 3,871 | 1,175 | 588 | 310 | 1,040 | 15,695 | |
| | 3 | 331 | 826 | 1,856 | 1,871 | 4,529 | 1,920 | 3,940 | 1,149 | 543 | 1,059 | 18,024 | |
| | 4 | 1,140 | 1,351 | 1,824 | 2,224 | 2,103 | 4,740 | 1,966 | 3,806 | 896 | 1,062 | 21,113 | |
| | 5 | 2,744 | 1,820 | 2,571 | 2,205 | 2,520 | 2,259 | 5,026 | 1,948 | 3,352 | 1,340 | 25,784 | |
| | 6 | 6,516 | 2,274 | 2,397 | 2,951 | 2,487 | 2,697 | 2,403 | 4,956 | 1,753 | 3,928 | 32,362 | |
| | 7 | 5,352 | 2,820 | 2,584 | 2,646 | 3,230 | 2,510 | 2,179 | 1,506 | 2,442 | 1,836 | 27,105 | |
| | 8 | 4,108 | 2,443 | 2,018 | 2,238 | 2,587 | 3,101 | 2,055 | 1,135 | 458 | 883 | 21,027 | |
| | 9 | 2,927 | 1,988 | 2,147 | 1,509 | 1,718 | 1,552 | 1,632 | 817 | 409 | 270 | 14,969 | |
| | 10 | 3,497 | 3,403 | 2,796 | 1,619 | 1,200 | 998 | 920 | 578 | 129 | 35 | 15,173 | |
| | 11 | 1,810 | 2,359 | 3,897 | 2,340 | 1,431 | 779 | 641 | 707 | 444 | 118 | 14,525 | |
| | 12 | 876 | 2,575 | 1,694 | 3,687 | 1,406 | 759 | 442 | 458 | 564 | 532 | 12,994 | 233,108 |
| 2019 年 1~12 月合計 | | 29,978 | 24,243 | 28,788 | 28,993 | 28,852 | 26,499 | 23,042 | 17,997 | 11,654 | 13,062 | 233,108 | |

補足表 6-3. カタクチイワシ瀬戸内海系群における漁獲係数の将来予測

ABCtarget

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 2018 | 1 | 0.60 | 0.72 | 0.03 | 0.03 | 0.06 | 0.17 | 0.14 | 0.11 | 0.20 | 0.20 |
| | 2 | 0.50 | 0.23 | 0.01 | 0.01 | 0.02 | 0.05 | 0.05 | 0.07 | 0.19 | 0.19 |
| | 3 | 0.16 | 0.08 | 0.01 | 0.01 | 0.03 | 0.04 | 0.06 | 0.23 | 0.39 | 0.39 |
| | 4 | 1.04 | 0.22 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.11 | 0.42 | 0.42 |
| | 5 | 1.65 | 0.57 | 0.05 | 0.00 | 0.01 | 0.01 | 0.04 | 0.09 | 0.33 | 0.33 |
| | 6 | 2.26 | 0.70 | 0.08 | 0.03 | 0.06 | 0.27 | 0.46 | 0.66 | 1.05 | 1.05 |
| | 7 | 2.21 | 1.14 | 0.31 | 0.14 | 0.11 | 0.25 | 0.64 | 1.11 | 1.59 | 1.59 |
| | 8 | 2.15 | 0.94 | 0.45 | 0.36 | 0.55 | 0.67 | 0.89 | 0.95 | 1.51 | 1.51 |
| | 9 | 1.33 | 0.50 | 0.44 | 0.33 | 0.58 | 0.56 | 1.00 | 1.72 | 2.90 | 2.90 |
| | 10 | 1.84 | 0.70 | 0.34 | 0.23 | 0.47 | 0.48 | 0.27 | 0.24 | 0.50 | 0.50 |
| | 11 | 1.14 | 1.13 | 0.23 | 0.59 | 0.66 | 0.60 | 0.34 | 0.21 | 0.25 | 0.25 |
| | 12 | 0.99 | 0.50 | 0.27 | 0.13 | 0.23 | 0.22 | 0.25 | 0.08 | 0.06 | 0.06 |
| 2019 | 1 | 0.51 | 0.62 | 0.02 | 0.02 | 0.05 | 0.14 | 0.12 | 0.09 | 0.17 | 0.17 |
| | 2 | 0.42 | 0.20 | 0.01 | 0.01 | 0.02 | 0.04 | 0.04 | 0.06 | 0.16 | 0.16 |
| | 3 | 0.13 | 0.07 | 0.01 | 0.01 | 0.02 | 0.04 | 0.05 | 0.19 | 0.34 | 0.34 |
| | 4 | 0.89 | 0.19 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.10 | 0.36 | 0.36 |
| | 5 | 1.41 | 0.48 | 0.04 | 0.00 | 0.01 | 0.01 | 0.03 | 0.08 | 0.28 | 0.28 |
| | 6 | 1.93 | 0.60 | 0.07 | 0.03 | 0.05 | 0.23 | 0.40 | 0.56 | 0.90 | 0.90 |
| | 7 | 1.89 | 0.97 | 0.27 | 0.12 | 0.09 | 0.22 | 0.55 | 0.95 | 1.36 | 1.36 |
| | 8 | 1.84 | 0.81 | 0.38 | 0.31 | 0.47 | 0.57 | 0.76 | 0.81 | 1.29 | 1.29 |
| | 9 | 1.14 | 0.43 | 0.38 | 0.28 | 0.49 | 0.47 | 0.85 | 1.47 | 2.48 | 2.48 |
| | 10 | 1.57 | 0.60 | 0.29 | 0.20 | 0.40 | 0.41 | 0.23 | 0.21 | 0.43 | 0.43 |
| | 11 | 0.98 | 0.97 | 0.20 | 0.51 | 0.57 | 0.51 | 0.29 | 0.18 | 0.21 | 0.21 |
| | 12 | 0.85 | 0.43 | 0.23 | 0.11 | 0.20 | 0.19 | 0.21 | 0.07 | 0.05 | 0.05 |

ABClimit

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 2018 | 1 | 0.60 | 0.72 | 0.03 | 0.03 | 0.06 | 0.17 | 0.14 | 0.11 | 0.20 | 0.20 |
| | 2 | 0.50 | 0.23 | 0.01 | 0.01 | 0.02 | 0.05 | 0.05 | 0.07 | 0.19 | 0.19 |
| | 3 | 0.16 | 0.08 | 0.01 | 0.01 | 0.03 | 0.04 | 0.06 | 0.23 | 0.39 | 0.39 |
| | 4 | 1.04 | 0.22 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.11 | 0.42 | 0.42 |
| | 5 | 1.65 | 0.57 | 0.05 | 0.00 | 0.01 | 0.01 | 0.04 | 0.09 | 0.33 | 0.33 |
| | 6 | 2.26 | 0.70 | 0.08 | 0.03 | 0.06 | 0.27 | 0.46 | 0.66 | 1.05 | 1.05 |
| | 7 | 2.21 | 1.14 | 0.31 | 0.14 | 0.11 | 0.25 | 0.64 | 1.11 | 1.59 | 1.59 |
| | 8 | 2.15 | 0.94 | 0.45 | 0.36 | 0.55 | 0.67 | 0.89 | 0.95 | 1.51 | 1.51 |
| | 9 | 1.33 | 0.50 | 0.44 | 0.33 | 0.58 | 0.56 | 1.00 | 1.72 | 2.90 | 2.90 |
| | 10 | 1.84 | 0.70 | 0.34 | 0.23 | 0.47 | 0.48 | 0.27 | 0.24 | 0.50 | 0.50 |
| | 11 | 1.14 | 1.13 | 0.23 | 0.59 | 0.66 | 0.60 | 0.34 | 0.21 | 0.25 | 0.25 |
| | 12 | 0.99 | 0.50 | 0.27 | 0.13 | 0.23 | 0.22 | 0.25 | 0.08 | 0.06 | 0.06 |
| 2019 | 1 | 0.64 | 0.77 | 0.03 | 0.03 | 0.06 | 0.18 | 0.15 | 0.12 | 0.21 | 0.21 |
| | 2 | 0.53 | 0.25 | 0.01 | 0.01 | 0.02 | 0.05 | 0.05 | 0.07 | 0.20 | 0.20 |
| | 3 | 0.17 | 0.09 | 0.01 | 0.01 | 0.03 | 0.05 | 0.06 | 0.24 | 0.42 | 0.42 |
| | 4 | 1.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.12 | 0.45 | 0.45 |
| | 5 | 1.76 | 0.61 | 0.05 | 0.00 | 0.01 | 0.01 | 0.04 | 0.10 | 0.36 | 0.36 |
| | 6 | 2.41 | 0.75 | 0.09 | 0.03 | 0.06 | 0.28 | 0.50 | 0.70 | 1.13 | 1.13 |
| | 7 | 2.36 | 1.21 | 0.33 | 0.15 | 0.12 | 0.27 | 0.68 | 1.19 | 1.69 | 1.69 |
| | 8 | 2.30 | 1.01 | 0.48 | 0.39 | 0.59 | 0.71 | 0.95 | 1.02 | 1.61 | 1.61 |
| | 9 | 1.42 | 0.54 | 0.47 | 0.35 | 0.62 | 0.59 | 1.07 | 1.84 | 3.10 | 3.10 |
| | 10 | 1.97 | 0.74 | 0.37 | 0.25 | 0.51 | 0.51 | 0.29 | 0.26 | 0.53 | 0.53 |
| | 11 | 1.22 | 1.21 | 0.24 | 0.63 | 0.71 | 0.64 | 0.37 | 0.22 | 0.26 | 0.26 |
| | 12 | 1.06 | 0.54 | 0.29 | 0.13 | 0.25 | 0.24 | 0.27 | 0.09 | 0.06 | 0.06 |

補足表 6-4. カタクチイワシ瀬戸内海系群における漁獲尾数（百万尾）の将来予測

ABCtarget

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|-----------------|------|---------|--------|-------|-------|-------|-------|-----|-----|-----|-----|---------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 1,931 | 1,089 | 39 | 12 | 40 | 30 | 10 | 3 | 5 | 8 | 3,168 | |
| | 2 | 1,238 | 343 | 7 | 12 | 8 | 27 | 6 | 4 | 4 | 9 | 1,658 | |
| | 3 | 525 | 105 | 8 | 5 | 23 | 12 | 26 | 22 | 14 | 18 | 760 | |
| | 4 | 8,500 | 418 | 0 | 0 | 1 | 7 | 8 | 38 | 26 | 21 | 9,020 | |
| | 5 | 27,014 | 1,519 | 59 | 3 | 3 | 3 | 23 | 16 | 78 | 23 | 28,742 | |
| | 6 | 74,626 | 2,617 | 124 | 29 | 32 | 111 | 120 | 229 | 97 | 155 | 78,139 | |
| | 7 | 62,619 | 5,224 | 538 | 140 | 72 | 95 | 151 | 126 | 190 | 108 | 69,262 | |
| | 8 | 52,645 | 4,109 | 736 | 360 | 330 | 262 | 172 | 96 | 48 | 64 | 58,823 | |
| | 9 | 32,836 | 2,308 | 755 | 296 | 304 | 169 | 162 | 97 | 59 | 33 | 37,018 | |
| | 10 | 42,499 | 4,602 | 791 | 227 | 237 | 129 | 48 | 19 | 8 | 2 | 48,563 | |
| | 11 | 16,052 | 4,566 | 729 | 703 | 352 | 154 | 53 | 24 | 13 | 3 | 22,649 | |
| | 12 | 8,786 | 2,240 | 418 | 261 | 153 | 64 | 37 | 9 | 5 | 3 | 11,976 | 369,778 |
| 2019 年 1~12 月合計 | | 329,271 | 29,141 | 4,203 | 2,049 | 1,555 | 1,063 | 815 | 683 | 550 | 448 | 369,778 | |

ABClimit

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|-----------------|------|---------|--------|-------|-------|-----|-----|-----|-----|-----|-----|---------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 2,278 | 1,272 | 49 | 15 | 49 | 36 | 12 | 4 | 6 | 10 | 3,732 | |
| | 2 | 1,473 | 368 | 7 | 15 | 10 | 33 | 8 | 4 | 5 | 11 | 1,935 | |
| | 3 | 632 | 118 | 8 | 5 | 29 | 15 | 32 | 26 | 17 | 21 | 901 | |
| | 4 | 9,431 | 484 | 0 | 0 | 1 | 9 | 10 | 46 | 29 | 22 | 10,030 | |
| | 5 | 28,088 | 1,403 | 66 | 3 | 4 | 3 | 28 | 19 | 89 | 23 | 29,726 | |
| | 6 | 73,318 | 2,041 | 106 | 32 | 35 | 112 | 122 | 262 | 105 | 150 | 76,284 | |
| | 7 | 59,887 | 3,365 | 374 | 117 | 79 | 100 | 140 | 110 | 177 | 85 | 64,434 | |
| | 8 | 45,680 | 2,635 | 393 | 233 | 258 | 267 | 164 | 76 | 33 | 40 | 49,778 | |
| | 9 | 27,461 | 1,406 | 413 | 145 | 178 | 117 | 139 | 72 | 35 | 15 | 29,981 | |
| | 10 | 37,182 | 3,033 | 439 | 115 | 107 | 68 | 30 | 14 | 5 | 1 | 40,993 | |
| | 11 | 15,779 | 2,810 | 432 | 355 | 163 | 62 | 26 | 15 | 9 | 2 | 19,652 | |
| | 12 | 7,080 | 1,815 | 217 | 149 | 70 | 27 | 13 | 4 | 3 | 2 | 9,381 | 336,827 |
| 2019 年 1~12 月合計 | | 308,290 | 20,749 | 2,504 | 1,185 | 983 | 850 | 723 | 652 | 512 | 379 | 336,827 | |

2019 年における各月までの累積漁獲尾数

| 年 | 月 | ABCtarget | ABClimit |
|------|----|-----------|----------|
| 2019 | 1 | 3,168 | 3,732 |
| | 2 | 4,826 | 5,667 |
| | 3 | 5,585 | 6,568 |
| | 4 | 14,606 | 16,599 |
| | 5 | 43,348 | 46,325 |
| | 6 | 121,487 | 122,608 |
| | 7 | 190,749 | 187,042 |
| | 8 | 249,572 | 236,820 |
| | 9 | 286,590 | 266,801 |
| | 10 | 335,153 | 307,794 |
| | 11 | 357,802 | 327,446 |
| | 12 | 369,778 | 336,827 |

補足表 6-5. カタクチイワシ瀬戸内海系群における漁獲量（トン）の将来予測

ABCtarget

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|--------------|------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 124 | 538 | 67 | 33 | 158 | 158 | 68 | 29 | 50 | 136 | 1,361 | |
| | 2 | 79 | 169 | 11 | 34 | 32 | 145 | 45 | 32 | 43 | 148 | 739 | |
| | 3 | 34 | 52 | 13 | 13 | 93 | 64 | 184 | 194 | 149 | 301 | 1,098 | |
| | 4 | 544 | 207 | 0 | 1 | 4 | 39 | 56 | 333 | 272 | 340 | 1,796 | |
| | 5 | 1,729 | 751 | 100 | 9 | 14 | 15 | 160 | 140 | 809 | 375 | 4,100 | |
| | 6 | 4,776 | 1,293 | 210 | 80 | 127 | 593 | 842 | 1,999 | 1,005 | 2,523 | 13,446 | |
| | 7 | 4,008 | 2,580 | 913 | 383 | 286 | 506 | 1,058 | 1,095 | 1,967 | 1,764 | 14,560 | |
| | 8 | 3,369 | 2,030 | 1,249 | 985 | 1,313 | 1,403 | 1,208 | 840 | 501 | 1,037 | 13,935 | |
| | 9 | 2,102 | 1,140 | 1,280 | 811 | 1,208 | 904 | 1,135 | 844 | 614 | 536 | 10,573 | |
| | 10 | 2,720 | 2,273 | 1,342 | 620 | 945 | 691 | 337 | 162 | 87 | 40 | 9,217 | |
| | 11 | 1,027 | 2,256 | 1,236 | 1,925 | 1,399 | 823 | 375 | 212 | 134 | 54 | 9,441 | |
| | 12 | 562 | 1,107 | 709 | 715 | 607 | 344 | 258 | 79 | 52 | 45 | 4,479 | 84,747 |
| 2019年1~12月合計 | | 21,073 | 14,396 | 7,129 | 5,608 | 6,187 | 5,686 | 5,725 | 5,960 | 5,684 | 7,298 | 84,747 | |

ABClimit

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|--------------|------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 146 | 628 | 83 | 42 | 196 | 194 | 84 | 35 | 61 | 167 | 1,637 | |
| | 2 | 94 | 182 | 12 | 42 | 40 | 178 | 54 | 38 | 52 | 174 | 867 | |
| | 3 | 40 | 58 | 14 | 14 | 115 | 78 | 224 | 226 | 172 | 335 | 1,277 | |
| | 4 | 604 | 239 | 0 | 1 | 5 | 48 | 69 | 397 | 297 | 352 | 2,011 | |
| | 5 | 1,798 | 693 | 112 | 9 | 14 | 16 | 195 | 169 | 922 | 368 | 4,297 | |
| | 6 | 4,692 | 1,008 | 180 | 89 | 140 | 601 | 857 | 2,289 | 1,090 | 2,442 | 13,387 | |
| | 7 | 3,833 | 1,662 | 634 | 321 | 314 | 537 | 981 | 958 | 1,834 | 1,378 | 12,452 | |
| | 8 | 2,924 | 1,302 | 667 | 637 | 1,026 | 1,428 | 1,150 | 663 | 337 | 651 | 10,783 | |
| | 9 | 1,758 | 694 | 700 | 397 | 709 | 628 | 975 | 629 | 359 | 237 | 7,086 | |
| | 10 | 2,380 | 1,498 | 745 | 315 | 426 | 362 | 213 | 120 | 49 | 13 | 6,120 | |
| | 11 | 1,010 | 1,388 | 732 | 970 | 649 | 332 | 179 | 127 | 94 | 25 | 5,508 | |
| | 12 | 453 | 897 | 368 | 408 | 279 | 144 | 94 | 36 | 30 | 29 | 2,738 | 68,163 |
| 2019年1~12月合計 | | 19,731 | 10,250 | 4,246 | 3,245 | 3,912 | 4,547 | 5,074 | 5,689 | 5,297 | 6,171 | 68,163 | |

2019年における各月までの累積漁獲量

| 年 | 月 | ABCtarget | ABClimit |
|------|----|-----------|----------|
| 2019 | 1 | 1,361 | 1,637 |
| | 2 | 2,100 | 2,504 |
| | 3 | 3,198 | 3,780 |
| | 4 | 4,994 | 5,792 |
| | 5 | 9,095 | 10,088 |
| | 6 | 22,541 | 23,476 |
| | 7 | 37,101 | 35,928 |
| | 8 | 51,036 | 46,710 |
| | 9 | 61,610 | 53,797 |
| | 10 | 70,827 | 59,917 |
| | 11 | 80,268 | 65,425 |
| | 12 | 84,747 | 68,163 |

補足資料 7 F を変化させた場合の月別月齢別漁獲尾数、漁獲量、資源尾数、および資源量の計算結果

補足表 7-1-1. 0.60Fcurrent で漁獲を継続した場合の漁獲尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-------|-------|-----|-----|-----|-----|-----|-----|--------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 1,455 | 832 | 28 | 9 | 28 | 21 | 7 | 2 | 3 | 6 | 2,391 | |
| | 2 | 922 | 289 | 6 | 9 | 6 | 19 | 5 | 3 | 3 | 7 | 1,268 | |
| | 3 | 385 | 85 | 7 | 4 | 17 | 9 | 19 | 17 | 11 | 15 | 569 | |
| | 4 | 6,917 | 322 | 0 | 0 | 1 | 5 | 6 | 28 | 22 | 18 | 7,320 | |
| | 5 | 23,999 | 1,534 | 47 | 3 | 3 | 2 | 16 | 12 | 61 | 22 | 25,699 | |
| | 6 | 71,807 | 3,244 | 136 | 23 | 26 | 100 | 108 | 179 | 81 | 149 | 75,854 | |
| | 7 | 62,164 | 8,188 | 764 | 159 | 59 | 81 | 151 | 136 | 192 | 136 | 72,029 | |
| | 8 | 55,266 | 6,461 | 1,436 | 557 | 407 | 236 | 168 | 118 | 72 | 104 | 64,823 | |
| | 9 | 26,587 | 3,627 | 1,431 | 639 | 528 | 240 | 178 | 128 | 106 | 83 | 33,546 | |
| | 10 | 35,852 | 4,921 | 1,388 | 469 | 567 | 257 | 76 | 24 | 15 | 9 | 43,579 | |
| | 11 | 12,777 | 5,806 | 883 | 1,385 | 812 | 420 | 118 | 41 | 18 | 8 | 22,268 | |
| | 12 | 6,895 | 2,235 | 647 | 331 | 336 | 167 | 112 | 21 | 9 | 5 | 10,758 | 360,104 |
| 2020 | 1 | 1,892 | 1,965 | 73 | 45 | 110 | 172 | 78 | 37 | 38 | 37 | 4,447 | |
| | 2 | 989 | 376 | 13 | 23 | 30 | 76 | 39 | 30 | 48 | 54 | 1,678 | |
| | 3 | 420 | 91 | 9 | 10 | 44 | 45 | 74 | 138 | 127 | 153 | 1,110 | |
| | 4 | 7,670 | 351 | 0 | 0 | 2 | 14 | 30 | 111 | 177 | 197 | 8,552 | |
| | 5 | 28,519 | 1,701 | 51 | 3 | 4 | 6 | 43 | 62 | 240 | 201 | 30,829 | |
| | 6 | 77,251 | 3,855 | 151 | 26 | 28 | 130 | 254 | 470 | 426 | 792 | 83,383 | |
| | 7 | 65,148 | 8,809 | 908 | 176 | 64 | 86 | 197 | 321 | 503 | 717 | 76,929 | |
| | 8 | 55,266 | 6,771 | 1,545 | 661 | 451 | 257 | 180 | 153 | 170 | 387 | 65,842 | |
| | 9 | 26,587 | 3,627 | 1,500 | 688 | 627 | 266 | 194 | 137 | 138 | 263 | 34,026 | |
| | 10 | 35,852 | 4,921 | 1,388 | 492 | 610 | 306 | 84 | 27 | 16 | 19 | 43,714 | |
| | 11 | 12,777 | 5,806 | 883 | 1,385 | 851 | 452 | 140 | 45 | 20 | 12 | 22,371 | |
| | 12 | 6,895 | 2,235 | 647 | 331 | 336 | 175 | 121 | 25 | 10 | 6 | 10,781 | 383,661 |
| 2021 | 1 | 1,892 | 1,965 | 73 | 45 | 110 | 172 | 82 | 39 | 46 | 42 | 4,466 | |
| | 2 | 989 | 376 | 13 | 23 | 30 | 76 | 39 | 32 | 52 | 63 | 1,692 | |
| | 3 | 420 | 91 | 9 | 10 | 44 | 45 | 74 | 138 | 133 | 172 | 1,135 | |
| | 4 | 7,670 | 351 | 0 | 0 | 2 | 14 | 30 | 111 | 177 | 214 | 8,570 | |
| | 5 | 28,519 | 1,701 | 51 | 3 | 4 | 6 | 43 | 62 | 240 | 210 | 30,838 | |
| | 6 | 77,251 | 3,855 | 151 | 26 | 28 | 130 | 254 | 470 | 426 | 809 | 83,399 | |
| | 7 | 65,148 | 8,809 | 908 | 176 | 64 | 86 | 197 | 321 | 503 | 727 | 76,939 | |
| | 8 | 55,266 | 6,771 | 1,545 | 661 | 451 | 257 | 180 | 153 | 170 | 390 | 65,845 | |
| | 9 | 26,587 | 3,627 | 1,500 | 688 | 627 | 266 | 194 | 137 | 138 | 265 | 34,028 | |
| | 10 | 35,852 | 4,921 | 1,388 | 492 | 610 | 306 | 84 | 27 | 16 | 19 | 43,714 | |
| | 11 | 12,777 | 5,806 | 883 | 1,385 | 851 | 452 | 140 | 45 | 20 | 12 | 22,371 | |
| | 12 | 6,895 | 2,235 | 647 | 331 | 336 | 175 | 121 | 25 | 10 | 6 | 10,781 | 383,778 |
| 2022 | 1 | 1,892 | 1,965 | 73 | 45 | 110 | 172 | 82 | 39 | 46 | 42 | 4,466 | |
| | 2 | 989 | 376 | 13 | 23 | 30 | 76 | 39 | 32 | 52 | 63 | 1,692 | |
| | 3 | 420 | 91 | 9 | 10 | 44 | 45 | 74 | 138 | 133 | 172 | 1,135 | |
| | 4 | 7,670 | 351 | 0 | 0 | 2 | 14 | 30 | 111 | 177 | 214 | 8,570 | |
| | 5 | 28,519 | 1,701 | 51 | 3 | 4 | 6 | 43 | 62 | 240 | 210 | 30,838 | |
| | 6 | 77,251 | 3,855 | 151 | 26 | 28 | 130 | 254 | 470 | 426 | 809 | 83,400 | |
| | 7 | 65,148 | 8,809 | 908 | 176 | 64 | 86 | 197 | 321 | 503 | 727 | 76,939 | |
| | 8 | 55,266 | 6,771 | 1,545 | 661 | 451 | 257 | 180 | 153 | 170 | 390 | 65,845 | |
| | 9 | 26,587 | 3,627 | 1,500 | 688 | 627 | 266 | 194 | 137 | 138 | 265 | 34,028 | |
| | 10 | 35,852 | 4,921 | 1,388 | 492 | 610 | 306 | 84 | 27 | 16 | 19 | 43,714 | |
| | 11 | 12,777 | 5,806 | 883 | 1,385 | 851 | 452 | 140 | 45 | 20 | 12 | 22,371 | |
| | 12 | 6,895 | 2,235 | 647 | 331 | 336 | 175 | 121 | 25 | 10 | 6 | 10,781 | 383,778 |
| 2023 | 1 | 1,892 | 1,965 | 73 | 45 | 110 | 172 | 82 | 39 | 46 | 42 | 4,466 | |
| | 2 | 989 | 376 | 13 | 23 | 30 | 76 | 39 | 32 | 52 | 63 | 1,692 | |
| | 3 | 420 | 91 | 9 | 10 | 44 | 45 | 74 | 138 | 133 | 172 | 1,135 | |
| | 4 | 7,670 | 351 | 0 | 0 | 2 | 14 | 30 | 111 | 177 | 214 | 8,570 | |
| | 5 | 28,519 | 1,701 | 51 | 3 | 4 | 6 | 43 | 62 | 240 | 210 | 30,838 | |
| | 6 | 77,251 | 3,855 | 151 | 26 | 28 | 130 | 254 | 470 | 426 | 809 | 83,400 | |
| | 7 | 65,148 | 8,809 | 908 | 176 | 64 | 86 | 197 | 321 | 503 | 727 | 76,939 | |
| | 8 | 55,266 | 6,771 | 1,545 | 661 | 451 | 257 | 180 | 153 | 170 | 390 | 65,845 | |
| | 9 | 26,587 | 3,627 | 1,500 | 688 | 627 | 266 | 194 | 137 | 138 | 265 | 34,028 | |
| | 10 | 35,852 | 4,921 | 1,388 | 492 | 610 | 306 | 84 | 27 | 16 | 19 | 43,714 | |
| | 11 | 12,777 | 5,806 | 883 | 1,385 | 851 | 452 | 140 | 45 | 20 | 12 | 22,371 | |
| | 12 | 6,895 | 2,235 | 647 | 331 | 336 | 175 | 121 | 25 | 10 | 6 | 10,781 | 383,778 |
| 2024 | 1 | 1,892 | 1,965 | 73 | 45 | 110 | 172 | 82 | 39 | 46 | 42 | 4,466 | |
| | 2 | 989 | 376 | 13 | 23 | 30 | 76 | 39 | 32 | 52 | 63 | 1,692 | |
| | 3 | 420 | 91 | 9 | 10 | 44 | 45 | 74 | 138 | 133 | 172 | 1,135 | |
| | 4 | 7,670 | 351 | 0 | 0 | 2 | 14 | 30 | 111 | 177 | 214 | 8,570 | |
| | 5 | 28,519 | 1,701 | 51 | 3 | 4 | 6 | 43 | 62 | 240 | 210 | 30,838 | |
| | 6 | 77,251 | 3,855 | 151 | 26 | 28 | 130 | 254 | 470 | 426 | 809 | 83,400 | |
| | 7 | 65,148 | 8,809 | 908 | 176 | 64 | 86 | 197 | 321 | 503 | 727 | 76,939 | |
| | 8 | 55,266 | 6,771 | 1,545 | 661 | 451 | 257 | 180 | 153 | 170 | 390 | 65,845 | |
| | 9 | 26,587 | 3,627 | 1,500 | 688 | 627 | 266 | 194 | 137 | 138 | 265 | 34,028 | |
| | 10 | 35,852 | 4,921 | 1,388 | 492 | 610 | 306 | 84 | 27 | 16 | 19 | 43,714 | |
| | 11 | 12,777 | 5,806 | 883 | 1,385 | 851 | 452 | 140 | 45 | 20 | 12 | 22,371 | |
| | 12 | 6,895 | 2,235 | 647 | 331 | 336 | 175 | 121 | 25 | 10 | 6 | 10,781 | 383,778 |

補足表 7-1-2. 0.60Fcurrent で漁獲を継続した場合の漁獲量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 93 | 411 | 47 | 24 | 112 | 113 | 48 | 20 | 36 | 98 | 1,002 | |
| | 2 | 59 | 143 | 10 | 24 | 23 | 104 | 33 | 23 | 32 | 112 | 562 | |
| | 3 | 25 | 42 | 12 | 11 | 66 | 46 | 134 | 148 | 116 | 243 | 842 | |
| | 4 | 443 | 159 | 0 | 1 | 4 | 28 | 41 | 247 | 225 | 299 | 1,446 | |
| | 5 | 1,536 | 758 | 80 | 7 | 12 | 13 | 115 | 103 | 635 | 351 | 3,609 | |
| | 6 | 4,596 | 1,603 | 231 | 64 | 104 | 533 | 756 | 1,561 | 839 | 2,429 | 12,716 | |
| | 7 | 3,979 | 4,045 | 1,296 | 435 | 235 | 431 | 1,063 | 1,183 | 1,980 | 2,208 | 16,856 | |
| | 8 | 3,537 | 3,192 | 2,436 | 1,523 | 1,618 | 1,262 | 1,179 | 1,026 | 744 | 1,691 | 18,209 | |
| | 9 | 1,702 | 1,792 | 2,428 | 1,749 | 2,100 | 1,282 | 1,252 | 1,113 | 1,099 | 1,353 | 15,868 | |
| | 10 | 2,295 | 2,431 | 2,354 | 1,284 | 2,255 | 1,378 | 532 | 213 | 158 | 144 | 13,043 | |
| | 11 | 818 | 2,868 | 1,497 | 3,792 | 3,230 | 2,248 | 830 | 357 | 187 | 131 | 15,957 | |
| | 12 | 441 | 1,104 | 1,098 | 906 | 1,335 | 894 | 788 | 186 | 91 | 76 | 6,919 | 107,028 |
| 2020 | 1 | 121 | 971 | 123 | 123 | 437 | 921 | 547 | 320 | 397 | 595 | 4,555 | |
| | 2 | 63 | 186 | 23 | 63 | 120 | 406 | 270 | 265 | 501 | 879 | 2,776 | |
| | 3 | 27 | 45 | 15 | 27 | 173 | 239 | 523 | 1,204 | 1,310 | 2,499 | 6,061 | |
| | 4 | 491 | 173 | 0 | 1 | 9 | 74 | 213 | 967 | 1,827 | 3,205 | 6,960 | |
| | 5 | 1,825 | 840 | 87 | 7 | 15 | 30 | 301 | 540 | 2,483 | 3,267 | 9,397 | |
| | 6 | 4,944 | 1,905 | 256 | 70 | 112 | 694 | 1,786 | 4,097 | 4,402 | 12,904 | 31,169 | |
| | 7 | 4,169 | 4,352 | 1,540 | 482 | 256 | 463 | 1,383 | 2,795 | 5,198 | 11,679 | 32,317 | |
| | 8 | 3,537 | 3,345 | 2,620 | 1,810 | 1,794 | 1,376 | 1,265 | 1,334 | 1,759 | 6,306 | 25,146 | |
| | 9 | 1,702 | 1,792 | 2,544 | 1,882 | 2,495 | 1,421 | 1,364 | 1,193 | 1,429 | 4,287 | 20,109 | |
| | 10 | 2,295 | 2,431 | 2,354 | 1,346 | 2,426 | 1,637 | 590 | 232 | 170 | 305 | 13,784 | |
| | 11 | 818 | 2,868 | 1,497 | 3,792 | 3,385 | 2,418 | 987 | 396 | 204 | 191 | 16,554 | |
| | 12 | 441 | 1,104 | 1,098 | 906 | 1,335 | 937 | 847 | 221 | 101 | 91 | 7,082 | 175,911 |
| 2021 | 1 | 121 | 971 | 123 | 123 | 437 | 921 | 573 | 344 | 471 | 678 | 4,764 | |
| | 2 | 63 | 186 | 23 | 63 | 120 | 406 | 270 | 277 | 539 | 1,025 | 2,972 | |
| | 3 | 27 | 45 | 15 | 27 | 173 | 239 | 523 | 1,204 | 1,373 | 2,806 | 6,432 | |
| | 4 | 491 | 173 | 0 | 1 | 9 | 74 | 213 | 967 | 1,827 | 3,491 | 7,246 | |
| | 5 | 1,825 | 840 | 87 | 7 | 15 | 30 | 301 | 540 | 2,483 | 3,420 | 9,550 | |
| | 6 | 4,944 | 1,905 | 256 | 70 | 112 | 694 | 1,786 | 4,097 | 4,402 | 13,179 | 31,444 | |
| | 7 | 4,169 | 4,352 | 1,540 | 482 | 256 | 463 | 1,383 | 2,795 | 5,198 | 11,842 | 32,480 | |
| | 8 | 3,537 | 3,345 | 2,620 | 1,810 | 1,794 | 1,376 | 1,265 | 1,334 | 1,759 | 6,358 | 25,197 | |
| | 9 | 1,702 | 1,792 | 2,544 | 1,882 | 2,495 | 1,421 | 1,364 | 1,193 | 1,429 | 4,312 | 20,134 | |
| | 10 | 2,295 | 2,431 | 2,354 | 1,346 | 2,426 | 1,637 | 590 | 232 | 170 | 306 | 13,785 | |
| | 11 | 818 | 2,868 | 1,497 | 3,792 | 3,385 | 2,418 | 987 | 396 | 204 | 191 | 16,555 | |
| | 12 | 441 | 1,104 | 1,098 | 906 | 1,335 | 937 | 847 | 221 | 101 | 91 | 7,082 | 177,640 |
| 2022 | 1 | 121 | 971 | 123 | 123 | 437 | 921 | 573 | 344 | 471 | 679 | 4,764 | |
| | 2 | 63 | 186 | 23 | 63 | 120 | 406 | 270 | 277 | 539 | 1,025 | 2,972 | |
| | 3 | 27 | 45 | 15 | 27 | 173 | 239 | 523 | 1,204 | 1,373 | 2,806 | 6,432 | |
| | 4 | 491 | 173 | 0 | 1 | 9 | 74 | 213 | 967 | 1,827 | 3,491 | 7,246 | |
| | 5 | 1,825 | 840 | 87 | 7 | 15 | 30 | 301 | 540 | 2,483 | 3,421 | 9,550 | |
| | 6 | 4,944 | 1,905 | 256 | 70 | 112 | 694 | 1,786 | 4,097 | 4,402 | 13,179 | 31,444 | |
| | 7 | 4,169 | 4,352 | 1,540 | 482 | 256 | 463 | 1,383 | 2,795 | 5,198 | 11,842 | 32,480 | |
| | 8 | 3,537 | 3,345 | 2,620 | 1,810 | 1,794 | 1,376 | 1,265 | 1,334 | 1,759 | 6,358 | 25,197 | |
| | 9 | 1,702 | 1,792 | 2,544 | 1,882 | 2,495 | 1,421 | 1,364 | 1,193 | 1,429 | 4,312 | 20,134 | |
| | 10 | 2,295 | 2,431 | 2,354 | 1,346 | 2,426 | 1,637 | 590 | 232 | 170 | 306 | 13,785 | |
| | 11 | 818 | 2,868 | 1,497 | 3,792 | 3,385 | 2,418 | 987 | 396 | 204 | 191 | 16,555 | |
| | 12 | 441 | 1,104 | 1,098 | 906 | 1,335 | 937 | 847 | 221 | 101 | 91 | 7,082 | 177,641 |
| 2023 | 1 | 121 | 971 | 123 | 123 | 437 | 921 | 573 | 344 | 471 | 679 | 4,764 | |
| | 2 | 63 | 186 | 23 | 63 | 120 | 406 | 270 | 277 | 539 | 1,025 | 2,972 | |
| | 3 | 27 | 45 | 15 | 27 | 173 | 239 | 523 | 1,204 | 1,373 | 2,806 | 6,432 | |
| | 4 | 491 | 173 | 0 | 1 | 9 | 74 | 213 | 967 | 1,827 | 3,491 | 7,246 | |
| | 5 | 1,825 | 840 | 87 | 7 | 15 | 30 | 301 | 540 | 2,483 | 3,421 | 9,550 | |
| | 6 | 4,944 | 1,905 | 256 | 70 | 112 | 694 | 1,786 | 4,097 | 4,402 | 13,179 | 31,444 | |
| | 7 | 4,169 | 4,352 | 1,540 | 482 | 256 | 463 | 1,383 | 2,795 | 5,198 | 11,842 | 32,480 | |
| | 8 | 3,537 | 3,345 | 2,620 | 1,810 | 1,794 | 1,376 | 1,265 | 1,334 | 1,759 | 6,358 | 25,197 | |
| | 9 | 1,702 | 1,792 | 2,544 | 1,882 | 2,495 | 1,421 | 1,364 | 1,193 | 1,429 | 4,312 | 20,134 | |
| | 10 | 2,295 | 2,431 | 2,354 | 1,346 | 2,426 | 1,637 | 590 | 232 | 170 | 306 | 13,785 | |
| | 11 | 818 | 2,868 | 1,497 | 3,792 | 3,385 | 2,418 | 987 | 396 | 204 | 191 | 16,555 | |
| | 12 | 441 | 1,104 | 1,098 | 906 | 1,335 | 937 | 847 | 221 | 101 | 91 | 7,082 | 177,641 |
| 2024 | 1 | 121 | 971 | 123 | 123 | 437 | 921 | 573 | 344 | 471 | 679 | 4,764 | |
| | 2 | 63 | 186 | 23 | 63 | 120 | 406 | 270 | 277 | 539 | 1,025 | 2,972 | |
| | 3 | 27 | 45 | 15 | 27 | 173 | 239 | 523 | 1,204 | 1,373 | 2,806 | 6,432 | |
| | 4 | 491 | 173 | 0 | 1 | 9 | 74 | 213 | 967 | 1,827 | 3,491 | 7,246 | |
| | 5 | 1,825 | 840 | 87 | 7 | 15 | 30 | 301 | 540 | 2,483 | 3,421 | 9,550 | |
| | 6 | 4,944 | 1,905 | 256 | 70 | 112 | 694 | 1,786 | 4,097 | 4,402 | 13,179 | 31,444 | |
| | 7 | 4,169 | 4,352 | 1,540 | 482 | 256 | 463 | 1,383 | 2,795 | 5,198 | 11,842 | 32,480 | |
| | 8 | 3,537 | 3,345 | 2,620 | 1,810 | 1,794 | 1,376 | 1,265 | 1,334 | 1,759 | 6,358 | 25,197 | |
| | 9 | 1,702 | 1,792 | 2,544 | 1,882 | 2,495 | 1,421 | 1,364 | 1,193 | 1,429 | 4,312 | 20,134 | |
| | 10 | 2,295 | 2,431 | 2,354 | 1,346 | 2,426 | 1,637 | 590 | 232 | 170 | 306 | 13,785 | |
| | 11 | 818 | 2,868 | 1,497 | 3,792 | 3,385 | 2,418 | 987 | 396 | 204 | 191 | 16,555 | |
| | 12 | 441 | 1,104 | 1,098 | 906 | 1,335 | 937 | 847 | 221 | 101 | 91 | 7,082 | 177,641 |

補足表 7-1-3. 0.60Fcurrent で漁獲を継続した場合の資源尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| | 2 | 4,534 | 2,647 | 1,290 | 1,496 | 465 | 743 | 181 | 72 | 32 | 70 | 11,530 | |
| | 3 | 5,417 | 2,107 | 1,618 | 962 | 1,158 | 367 | 589 | 146 | 58 | 77 | 12,499 | |
| | 4 | 18,895 | 3,084 | 1,410 | 1,206 | 746 | 913 | 293 | 471 | 107 | 90 | 27,214 | |
| | 5 | 48,289 | 6,350 | 1,897 | 1,056 | 940 | 597 | 741 | 237 | 369 | 130 | 60,605 | |
| | 6 | 122,357 | 11,229 | 3,175 | 1,380 | 821 | 750 | 485 | 600 | 188 | 346 | 141,331 | |
| | 7 | 107,064 | 19,753 | 5,170 | 2,261 | 1,055 | 634 | 523 | 305 | 339 | 240 | 137,342 | |
| | 8 | 96,339 | 17,812 | 7,015 | 3,211 | 1,622 | 792 | 445 | 296 | 131 | 189 | 127,852 | |
| | 9 | 61,059 | 16,559 | 7,099 | 4,011 | 2,012 | 935 | 434 | 216 | 140 | 110 | 92,575 | |
| | 10 | 67,761 | 17,171 | 8,594 | 4,078 | 2,563 | 1,139 | 548 | 198 | 65 | 37 | 102,154 | |
| | 11 | 32,533 | 14,035 | 7,940 | 5,236 | 2,765 | 1,545 | 698 | 385 | 143 | 64 | 65,345 | |
| | 12 | 19,403 | 10,247 | 4,994 | 5,183 | 2,859 | 1,488 | 883 | 471 | 286 | 151 | 45,965 | 837,379 |
| 2020 | 1 | 7,894 | 6,685 | 5,326 | 3,181 | 3,748 | 1,989 | 1,065 | 630 | 376 | 357 | 31,252 | |
| | 2 | 4,863 | 3,442 | 3,050 | 3,927 | 2,440 | 2,904 | 1,470 | 812 | 495 | 551 | 23,953 | |
| | 3 | 5,902 | 2,260 | 2,103 | 2,273 | 3,041 | 1,927 | 2,304 | 1,184 | 653 | 791 | 22,438 | |
| | 4 | 20,951 | 3,360 | 1,512 | 1,568 | 1,763 | 2,396 | 1,534 | 1,843 | 867 | 965 | 36,759 | |
| | 5 | 57,384 | 7,041 | 2,067 | 1,132 | 1,222 | 1,410 | 1,946 | 1,245 | 1,444 | 1,206 | 76,096 | |
| | 6 | 131,633 | 13,344 | 3,521 | 1,503 | 880 | 975 | 1,147 | 1,575 | 987 | 1,837 | 157,403 | |
| | 7 | 112,203 | 21,250 | 6,143 | 2,507 | 1,150 | 680 | 680 | 720 | 890 | 1,270 | 147,492 | |
| | 8 | 96,339 | 18,667 | 7,547 | 3,816 | 1,799 | 863 | 477 | 384 | 310 | 706 | 130,908 | |
| | 9 | 61,059 | 16,559 | 7,439 | 4,315 | 2,391 | 1,037 | 473 | 232 | 182 | 347 | 94,035 | |
| | 10 | 67,761 | 17,171 | 8,594 | 4,274 | 2,757 | 1,353 | 607 | 215 | 69 | 79 | 102,882 | |
| | 11 | 32,533 | 14,035 | 7,940 | 5,236 | 2,898 | 1,663 | 829 | 427 | 156 | 93 | 65,810 | |
| | 12 | 19,403 | 10,247 | 4,994 | 5,183 | 2,859 | 1,560 | 950 | 560 | 317 | 182 | 46,254 | 935,281 |
| 2021 | 1 | 7,894 | 6,685 | 5,326 | 3,181 | 3,748 | 1,989 | 1,116 | 678 | 446 | 408 | 31,472 | |
| | 2 | 4,863 | 3,442 | 3,050 | 3,927 | 2,440 | 2,904 | 1,470 | 851 | 532 | 643 | 24,120 | |
| | 3 | 5,902 | 2,260 | 2,103 | 2,273 | 3,041 | 1,927 | 2,304 | 1,184 | 685 | 888 | 22,567 | |
| | 4 | 20,951 | 3,360 | 1,512 | 1,568 | 1,763 | 2,396 | 1,534 | 1,843 | 867 | 1,051 | 36,845 | |
| | 5 | 57,384 | 7,041 | 2,067 | 1,132 | 1,222 | 1,410 | 1,946 | 1,245 | 1,444 | 1,263 | 76,153 | |
| | 6 | 131,633 | 13,344 | 3,521 | 1,503 | 880 | 975 | 1,147 | 1,575 | 987 | 1,876 | 157,442 | |
| | 7 | 112,203 | 21,250 | 6,143 | 2,507 | 1,150 | 680 | 680 | 720 | 890 | 1,287 | 147,510 | |
| | 8 | 96,339 | 18,667 | 7,547 | 3,816 | 1,799 | 863 | 477 | 384 | 310 | 712 | 130,913 | |
| | 9 | 61,059 | 16,559 | 7,439 | 4,315 | 2,391 | 1,037 | 473 | 232 | 182 | 349 | 94,037 | |
| | 10 | 67,761 | 17,171 | 8,594 | 4,274 | 2,757 | 1,353 | 607 | 215 | 69 | 79 | 102,882 | |
| | 11 | 32,533 | 14,035 | 7,940 | 5,236 | 2,898 | 1,663 | 829 | 427 | 156 | 93 | 65,810 | |
| | 12 | 19,403 | 10,247 | 4,994 | 5,183 | 2,859 | 1,560 | 950 | 560 | 317 | 182 | 46,254 | 936,006 |
| 2022 | 1 | 7,894 | 6,685 | 5,326 | 3,181 | 3,748 | 1,989 | 1,116 | 678 | 446 | 408 | 31,472 | |
| | 2 | 4,863 | 3,442 | 3,050 | 3,927 | 2,440 | 2,904 | 1,470 | 851 | 532 | 643 | 24,120 | |
| | 3 | 5,902 | 2,260 | 2,103 | 2,273 | 3,041 | 1,927 | 2,304 | 1,184 | 685 | 889 | 22,567 | |
| | 4 | 20,951 | 3,360 | 1,512 | 1,568 | 1,763 | 2,396 | 1,534 | 1,843 | 867 | 1,051 | 36,845 | |
| | 5 | 57,384 | 7,041 | 2,067 | 1,132 | 1,222 | 1,410 | 1,946 | 1,245 | 1,444 | 1,263 | 76,153 | |
| | 6 | 131,633 | 13,344 | 3,521 | 1,503 | 880 | 975 | 1,147 | 1,575 | 987 | 1,876 | 157,442 | |
| | 7 | 112,203 | 21,250 | 6,143 | 2,507 | 1,150 | 680 | 680 | 720 | 890 | 1,287 | 147,510 | |
| | 8 | 96,339 | 18,667 | 7,547 | 3,816 | 1,799 | 863 | 477 | 384 | 310 | 712 | 130,913 | |
| | 9 | 61,059 | 16,559 | 7,439 | 4,315 | 2,391 | 1,037 | 473 | 232 | 182 | 349 | 94,037 | |
| | 10 | 67,761 | 17,171 | 8,594 | 4,274 | 2,757 | 1,353 | 607 | 215 | 69 | 79 | 102,882 | |
| | 11 | 32,533 | 14,035 | 7,940 | 5,236 | 2,898 | 1,663 | 829 | 427 | 156 | 93 | 65,810 | |
| | 12 | 19,403 | 10,247 | 4,994 | 5,183 | 2,859 | 1,560 | 950 | 560 | 317 | 182 | 46,254 | 936,006 |
| 2023 | 1 | 7,894 | 6,685 | 5,326 | 3,181 | 3,748 | 1,989 | 1,116 | 678 | 446 | 408 | 31,472 | |
| | 2 | 4,863 | 3,442 | 3,050 | 3,927 | 2,440 | 2,904 | 1,470 | 851 | 532 | 643 | 24,120 | |
| | 3 | 5,902 | 2,260 | 2,103 | 2,273 | 3,041 | 1,927 | 2,304 | 1,184 | 685 | 889 | 22,567 | |
| | 4 | 20,951 | 3,360 | 1,512 | 1,568 | 1,763 | 2,396 | 1,534 | 1,843 | 867 | 1,051 | 36,845 | |
| | 5 | 57,384 | 7,041 | 2,067 | 1,132 | 1,222 | 1,410 | 1,946 | 1,245 | 1,444 | 1,263 | 76,153 | |
| | 6 | 131,633 | 13,344 | 3,521 | 1,503 | 880 | 975 | 1,147 | 1,575 | 987 | 1,876 | 157,442 | |
| | 7 | 112,203 | 21,250 | 6,143 | 2,507 | 1,150 | 680 | 680 | 720 | 890 | 1,287 | 147,510 | |
| | 8 | 96,339 | 18,667 | 7,547 | 3,816 | 1,799 | 863 | 477 | 384 | 310 | 712 | 130,913 | |
| | 9 | 61,059 | 16,559 | 7,439 | 4,315 | 2,391 | 1,037 | 473 | 232 | 182 | 349 | 94,037 | |
| | 10 | 67,761 | 17,171 | 8,594 | 4,274 | 2,757 | 1,353 | 607 | 215 | 69 | 79 | 102,882 | |
| | 11 | 32,533 | 14,035 | 7,940 | 5,236 | 2,898 | 1,663 | 829 | 427 | 156 | 93 | 65,810 | |
| | 12 | 19,403 | 10,247 | 4,994 | 5,183 | 2,859 | 1,560 | 950 | 560 | 317 | 182 | 46,254 | 936,006 |
| 2024 | 1 | 7,894 | 6,685 | 5,326 | 3,181 | 3,748 | 1,989 | 1,116 | 678 | 446 | 408 | 31,472 | |
| | 2 | 4,863 | 3,442 | 3,050 | 3,927 | 2,440 | 2,904 | 1,470 | 851 | 532 | 643 | 24,120 | |
| | 3 | 5,902 | 2,260 | 2,103 | 2,273 | 3,041 | 1,927 | 2,304 | 1,184 | 685 | 889 | 22,567 | |
| | 4 | 20,951 | 3,360 | 1,512 | 1,568 | 1,763 | 2,396 | 1,534 | 1,843 | 867 | 1,051 | 36,845 | |
| | 5 | 57,384 | 7,041 | 2,067 | 1,132 | 1,222 | 1,410 | 1,946 | 1,245 | 1,444 | 1,263 | 76,153 | |
| | 6 | 131,633 | 13,344 | 3,521 | 1,503 | 880 | 975 | 1,147 | 1,575 | 987 | 1,876 | 157,442 | |
| | 7 | 112,203 | 21,250 | 6,143 | 2,507 | 1,150 | 680 | 680 | 720 | 890 | 1,287 | 147,510 | |
| | 8 | 96,339 | 18,667 | 7,547 | 3,816 | 1,799 | 863 | 477 | 384 | 310 | 712 | 130,913 | |
| | 9 | 61,059 | 16,559 | 7,439 | 4,315 | 2,391 | 1,037 | 473 | 232 | 182 | 349 | 94,037 | |
| | 10 | 67,761 | 17,171 | 8,594 | 4,274 | 2,757 | 1,353 | 607 | 215 | 69 | 79 | 102,882 | |
| | 11 | 32,533 | 14,035 | 7,940 | 5,236 | 2,898 | 1,663 | 829 | 427 | 156 | 93 | 65,810 | |
| | 12 | 19,403 | 10 | | | | | | | | | | |

補足表 7-1-4. 0.60Fcurrent で漁獲を継続した場合の資源量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 1,308 | 2,189 | 4,095 | 1,851 | 3,973 | 1,271 | 627 | 327 | 1,140 | 17,070 | |
| | 3 | 347 | 1,041 | 2,744 | 2,632 | 4,610 | 1,966 | 4,138 | 1,271 | 598 | 1,251 | 20,598 | |
| | 4 | 1,209 | 1,523 | 2,391 | 3,300 | 2,969 | 4,886 | 2,054 | 4,111 | 1,103 | 1,465 | 25,011 | |
| | 5 | 3,090 | 3,137 | 3,217 | 2,889 | 3,739 | 3,193 | 5,206 | 2,070 | 3,818 | 2,109 | 32,470 | |
| | 6 | 7,831 | 5,547 | 5,386 | 3,777 | 3,266 | 4,013 | 3,409 | 5,232 | 1,946 | 5,632 | 46,039 | |
| | 7 | 6,852 | 9,758 | 8,768 | 6,187 | 4,198 | 3,392 | 3,671 | 2,657 | 3,507 | 3,911 | 52,900 | |
| | 8 | 6,166 | 8,799 | 11,897 | 8,788 | 6,454 | 4,239 | 3,126 | 2,579 | 1,357 | 3,083 | 56,487 | |
| | 9 | 3,908 | 8,180 | 12,039 | 10,979 | 8,005 | 5,005 | 3,048 | 1,886 | 1,450 | 1,784 | 56,282 | |
| | 10 | 4,337 | 8,483 | 14,576 | 11,162 | 10,197 | 6,094 | 3,846 | 1,724 | 667 | 605 | 61,690 | |
| | 11 | 2,082 | 6,933 | 13,466 | 14,331 | 11,002 | 8,269 | 4,901 | 3,360 | 1,483 | 1,039 | 66,866 | |
| | 12 | 1,242 | 5,062 | 8,470 | 14,186 | 11,374 | 7,963 | 6,201 | 4,109 | 2,953 | 2,465 | 64,026 | 513,777 |
| 2020 | 1 | 505 | 3,302 | 9,033 | 8,705 | 14,914 | 10,644 | 7,479 | 5,497 | 3,883 | 5,821 | 69,785 | |
| | 2 | 311 | 1,700 | 5,172 | 10,747 | 9,708 | 15,538 | 10,322 | 7,085 | 5,117 | 8,981 | 74,681 | |
| | 3 | 378 | 1,117 | 3,568 | 6,220 | 12,099 | 10,312 | 16,181 | 10,325 | 6,756 | 12,887 | 79,843 | |
| | 4 | 1,341 | 1,660 | 2,564 | 4,291 | 7,015 | 12,823 | 10,775 | 16,075 | 8,959 | 15,715 | 81,218 | |
| | 5 | 3,673 | 3,478 | 3,505 | 3,099 | 4,862 | 7,545 | 13,664 | 10,857 | 14,932 | 19,645 | 85,260 | |
| | 6 | 8,425 | 6,592 | 5,972 | 4,115 | 3,503 | 5,218 | 8,056 | 13,733 | 10,208 | 29,926 | 95,747 | |
| | 7 | 7,181 | 10,498 | 10,419 | 6,860 | 4,574 | 3,638 | 4,773 | 6,278 | 9,205 | 20,684 | 84,110 | |
| | 8 | 6,166 | 9,222 | 12,799 | 10,443 | 7,156 | 4,618 | 3,352 | 3,353 | 3,207 | 11,498 | 71,813 | |
| | 9 | 3,908 | 8,180 | 12,617 | 11,811 | 9,512 | 5,549 | 3,321 | 2,023 | 1,885 | 5,655 | 64,460 | |
| | 10 | 4,337 | 8,483 | 14,576 | 11,698 | 10,970 | 7,242 | 4,265 | 1,878 | 715 | 1,287 | 65,446 | |
| | 11 | 2,082 | 6,933 | 13,466 | 14,331 | 11,530 | 8,896 | 5,824 | 3,725 | 1,616 | 1,516 | 69,919 | |
| | 12 | 1,242 | 5,062 | 8,470 | 14,186 | 11,374 | 8,345 | 6,672 | 4,883 | 3,274 | 2,963 | 66,472 | 908,752 |
| 2021 | 1 | 505 | 3,302 | 9,033 | 8,705 | 14,914 | 10,644 | 7,838 | 5,913 | 4,615 | 6,643 | 72,113 | |
| | 2 | 311 | 1,700 | 5,172 | 10,747 | 9,708 | 15,538 | 10,322 | 7,425 | 5,505 | 10,466 | 76,894 | |
| | 3 | 378 | 1,117 | 3,568 | 6,220 | 12,099 | 10,312 | 16,181 | 10,325 | 7,081 | 14,472 | 81,752 | |
| | 4 | 1,341 | 1,660 | 2,564 | 4,291 | 7,015 | 12,823 | 10,775 | 16,075 | 8,959 | 17,115 | 82,618 | |
| | 5 | 3,673 | 3,478 | 3,505 | 3,099 | 4,862 | 7,545 | 13,664 | 10,857 | 14,932 | 20,567 | 86,182 | |
| | 6 | 8,425 | 6,592 | 5,972 | 4,115 | 3,503 | 5,218 | 8,056 | 13,733 | 10,208 | 30,565 | 96,386 | |
| | 7 | 7,181 | 10,498 | 10,419 | 6,860 | 4,574 | 3,638 | 4,773 | 6,278 | 9,205 | 20,971 | 84,397 | |
| | 8 | 6,166 | 9,222 | 12,799 | 10,443 | 7,156 | 4,618 | 3,352 | 3,353 | 3,207 | 11,592 | 71,907 | |
| | 9 | 3,908 | 8,180 | 12,617 | 11,811 | 9,512 | 5,549 | 3,321 | 2,023 | 1,885 | 5,687 | 64,492 | |
| | 10 | 4,337 | 8,483 | 14,576 | 11,698 | 10,970 | 7,242 | 4,265 | 1,878 | 715 | 1,287 | 65,451 | |
| | 11 | 2,082 | 6,933 | 13,466 | 14,331 | 11,530 | 8,896 | 5,824 | 3,725 | 1,616 | 1,516 | 69,919 | |
| | 12 | 1,242 | 5,062 | 8,470 | 14,186 | 11,374 | 8,345 | 6,672 | 4,883 | 3,274 | 2,965 | 66,474 | 918,587 |
| 2022 | 1 | 505 | 3,302 | 9,033 | 8,705 | 14,914 | 10,644 | 7,838 | 5,913 | 4,615 | 6,645 | 72,115 | |
| | 2 | 311 | 1,700 | 5,172 | 10,747 | 9,708 | 15,538 | 10,322 | 7,425 | 5,505 | 10,467 | 76,896 | |
| | 3 | 378 | 1,117 | 3,568 | 6,220 | 12,099 | 10,312 | 16,181 | 10,325 | 7,081 | 14,473 | 81,753 | |
| | 4 | 1,341 | 1,660 | 2,564 | 4,291 | 7,015 | 12,823 | 10,775 | 16,075 | 8,959 | 17,115 | 82,618 | |
| | 5 | 3,673 | 3,478 | 3,505 | 3,099 | 4,862 | 7,545 | 13,664 | 10,857 | 14,932 | 20,567 | 86,182 | |
| | 6 | 8,425 | 6,592 | 5,972 | 4,115 | 3,503 | 5,218 | 8,056 | 13,733 | 10,208 | 30,566 | 96,387 | |
| | 7 | 7,181 | 10,498 | 10,419 | 6,860 | 4,574 | 3,638 | 4,773 | 6,278 | 9,205 | 20,971 | 84,398 | |
| | 8 | 6,166 | 9,222 | 12,799 | 10,443 | 7,156 | 4,618 | 3,352 | 3,353 | 3,207 | 11,592 | 71,907 | |
| | 9 | 3,908 | 8,180 | 12,617 | 11,811 | 9,512 | 5,549 | 3,321 | 2,023 | 1,885 | 5,687 | 64,492 | |
| | 10 | 4,337 | 8,483 | 14,576 | 11,698 | 10,970 | 7,242 | 4,265 | 1,878 | 715 | 1,287 | 65,451 | |
| | 11 | 2,082 | 6,933 | 13,466 | 14,331 | 11,530 | 8,896 | 5,824 | 3,725 | 1,616 | 1,516 | 69,919 | |
| | 12 | 1,242 | 5,062 | 8,470 | 14,186 | 11,374 | 8,345 | 6,672 | 4,883 | 3,274 | 2,965 | 66,474 | 918,593 |
| 2023 | 1 | 505 | 3,302 | 9,033 | 8,705 | 14,914 | 10,644 | 7,838 | 5,913 | 4,615 | 6,645 | 72,115 | |
| | 2 | 311 | 1,700 | 5,172 | 10,747 | 9,708 | 15,538 | 10,322 | 7,425 | 5,505 | 10,467 | 76,896 | |
| | 3 | 378 | 1,117 | 3,568 | 6,220 | 12,099 | 10,312 | 16,181 | 10,325 | 7,081 | 14,473 | 81,753 | |
| | 4 | 1,341 | 1,660 | 2,564 | 4,291 | 7,015 | 12,823 | 10,775 | 16,075 | 8,959 | 17,115 | 82,618 | |
| | 5 | 3,673 | 3,478 | 3,505 | 3,099 | 4,862 | 7,545 | 13,664 | 10,857 | 14,932 | 20,567 | 86,182 | |
| | 6 | 8,425 | 6,592 | 5,972 | 4,115 | 3,503 | 5,218 | 8,056 | 13,733 | 10,208 | 30,566 | 96,387 | |
| | 7 | 7,181 | 10,498 | 10,419 | 6,860 | 4,574 | 3,638 | 4,773 | 6,278 | 9,205 | 20,971 | 84,398 | |
| | 8 | 6,166 | 9,222 | 12,799 | 10,443 | 7,156 | 4,618 | 3,352 | 3,353 | 3,207 | 11,592 | 71,907 | |
| | 9 | 3,908 | 8,180 | 12,617 | 11,811 | 9,512 | 5,549 | 3,321 | 2,023 | 1,885 | 5,687 | 64,492 | |
| | 10 | 4,337 | 8,483 | 14,576 | 11,698 | 10,970 | 7,242 | 4,265 | 1,878 | 715 | 1,287 | 65,451 | |
| | 11 | 2,082 | 6,933 | 13,466 | 14,331 | 11,530 | 8,896 | 5,824 | 3,725 | 1,616 | 1,516 | 69,919 | |
| | 12 | 1,242 | 5,062 | 8,470 | 14,186 | 11,374 | 8,345 | 6,672 | 4,883 | 3,274 | 2,965 | 66,474 | 918,593 |
| 2024 | 1 | 505 | 3,302 | 9,033 | 8,705 | 14,914 | 10,644 | 7,838 | 5,913 | 4,615 | 6,645 | 72,115 | |
| | 2 | 311 | 1,700 | 5,172 | 10,747 | 9,708 | 15,538 | 10,322 | 7,425 | 5,505 | 10,467 | 76,896 | |
| | 3 | 378 | 1,117 | 3,568 | 6,220 | 12,099 | 10,312 | 16,181 | 10,325 | 7,081 | 14,473 | 81,753 | |
| | 4 | 1,341 | 1,660 | 2,564 | 4,291 | 7,015 | 12,823 | 10,775 | 16,075 | 8,959 | 17,115 | 82,618 | |
| | 5 | 3,673 | 3,478 | 3,505 | 3,099 | 4,862 | 7,545 | 13,664 | 10,857 | 14,932 | 20,567 | 86,182 | |
| | 6 | 8,425 | 6,592 | 5,972 | 4,115 | 3,503 | 5,218 | 8,056 | 13,733 | 10,208 | 30,566 | 96,387 | |
| | 7 | 7,181 | 10,498 | 10,419 | 6,860 | 4,574 | 3,638 | | | | | | |

補足表 7-2-1. 0.80Fcurrent で漁獲を継続した場合の漁獲尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-------|-----|-----|-----|-----|-----|-----|-----|--------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 1,835 | 1,038 | 37 | 11 | 37 | 28 | 9 | 3 | 5 | 8 | 3,011 | |
| | 2 | 1,173 | 334 | 6 | 12 | 8 | 25 | 6 | 3 | 4 | 9 | 1,580 | |
| | 3 | 496 | 102 | 8 | 5 | 22 | 11 | 25 | 21 | 14 | 18 | 721 | |
| | 4 | 8,208 | 399 | 0 | 0 | 1 | 7 | 8 | 36 | 26 | 20 | 8,705 | |
| | 5 | 26,557 | 1,537 | 57 | 3 | 3 | 3 | 21 | 15 | 75 | 23 | 28,295 | |
| | 6 | 74,544 | 2,766 | 127 | 28 | 31 | 109 | 118 | 219 | 94 | 155 | 78,193 | |
| | 7 | 62,977 | 5,803 | 586 | 145 | 70 | 92 | 152 | 129 | 192 | 115 | 70,262 | |
| | 8 | 54,293 | 4,569 | 858 | 399 | 349 | 259 | 173 | 102 | 53 | 71 | 61,125 | |
| | 9 | 31,666 | 2,600 | 874 | 353 | 345 | 184 | 167 | 104 | 68 | 40 | 36,400 | |
| | 10 | 41,321 | 4,714 | 913 | 267 | 289 | 151 | 53 | 20 | 10 | 3 | 47,742 | |
| | 11 | 15,426 | 4,853 | 767 | 832 | 425 | 193 | 64 | 27 | 14 | 4 | 22,604 | |
| | 12 | 8,419 | 2,261 | 464 | 278 | 185 | 80 | 47 | 11 | 6 | 3 | 11,753 | 370,391 |
| 2020 | 1 | 2,386 | 2,011 | 69 | 31 | 90 | 91 | 36 | 15 | 19 | 23 | 4,772 | |
| | 2 | 1,258 | 434 | 13 | 22 | 21 | 62 | 20 | 14 | 19 | 30 | 1,892 | |
| | 3 | 551 | 109 | 10 | 9 | 41 | 31 | 60 | 69 | 55 | 69 | 1,005 | |
| | 4 | 9,335 | 444 | 0 | 0 | 2 | 13 | 21 | 88 | 84 | 80 | 10,067 | |
| | 5 | 33,260 | 1,749 | 63 | 3 | 4 | 5 | 40 | 42 | 182 | 81 | 35,430 | |
| | 6 | 87,013 | 3,464 | 145 | 31 | 33 | 142 | 229 | 414 | 259 | 417 | 92,148 | |
| | 7 | 73,572 | 6,774 | 734 | 165 | 77 | 99 | 198 | 250 | 363 | 310 | 82,543 | |
| | 8 | 62,591 | 5,337 | 1,001 | 500 | 396 | 288 | 185 | 132 | 103 | 156 | 70,690 | |
| | 9 | 31,666 | 2,998 | 1,021 | 412 | 432 | 209 | 185 | 111 | 88 | 84 | 37,206 | |
| | 10 | 41,321 | 4,714 | 1,052 | 312 | 337 | 189 | 61 | 22 | 10 | 5 | 48,025 | |
| | 11 | 15,426 | 4,853 | 767 | 959 | 496 | 225 | 80 | 31 | 16 | 5 | 22,857 | |
| | 12 | 8,419 | 2,261 | 464 | 278 | 213 | 93 | 55 | 14 | 7 | 4 | 11,807 | 418,441 |
| 2021 | 1 | 2,386 | 2,011 | 69 | 31 | 90 | 105 | 42 | 17 | 24 | 27 | 4,803 | |
| | 2 | 1,258 | 434 | 13 | 22 | 21 | 62 | 23 | 16 | 22 | 35 | 1,906 | |
| | 3 | 551 | 109 | 10 | 9 | 41 | 31 | 60 | 80 | 64 | 81 | 1,037 | |
| | 4 | 9,335 | 444 | 0 | 0 | 2 | 13 | 21 | 88 | 96 | 94 | 10,094 | |
| | 5 | 33,260 | 1,749 | 63 | 3 | 4 | 5 | 40 | 42 | 182 | 95 | 35,443 | |
| | 6 | 87,013 | 3,464 | 145 | 31 | 33 | 142 | 229 | 414 | 259 | 438 | 92,169 | |
| | 7 | 73,572 | 6,774 | 734 | 165 | 77 | 99 | 198 | 250 | 363 | 320 | 82,552 | |
| | 8 | 62,591 | 5,337 | 1,001 | 500 | 396 | 288 | 185 | 132 | 103 | 159 | 70,692 | |
| | 9 | 31,666 | 2,998 | 1,021 | 412 | 432 | 209 | 185 | 111 | 88 | 85 | 37,207 | |
| | 10 | 41,321 | 4,714 | 1,052 | 312 | 337 | 189 | 61 | 22 | 10 | 5 | 48,025 | |
| | 11 | 15,426 | 4,853 | 767 | 959 | 496 | 225 | 80 | 31 | 16 | 5 | 22,857 | |
| | 12 | 8,419 | 2,261 | 464 | 278 | 213 | 93 | 55 | 14 | 7 | 4 | 11,807 | 418,592 |
| 2022 | 1 | 2,386 | 2,011 | 69 | 31 | 90 | 105 | 42 | 17 | 24 | 27 | 4,803 | |
| | 2 | 1,258 | 434 | 13 | 22 | 21 | 62 | 23 | 16 | 22 | 35 | 1,906 | |
| | 3 | 551 | 109 | 10 | 9 | 41 | 31 | 60 | 80 | 64 | 81 | 1,037 | |
| | 4 | 9,335 | 444 | 0 | 0 | 2 | 13 | 21 | 88 | 96 | 94 | 10,094 | |
| | 5 | 33,260 | 1,749 | 63 | 3 | 4 | 5 | 40 | 42 | 182 | 95 | 35,443 | |
| | 6 | 87,013 | 3,464 | 145 | 31 | 33 | 142 | 229 | 414 | 259 | 438 | 92,169 | |
| | 7 | 73,572 | 6,774 | 734 | 165 | 77 | 99 | 198 | 250 | 363 | 320 | 82,552 | |
| | 8 | 62,591 | 5,337 | 1,001 | 500 | 396 | 288 | 185 | 132 | 103 | 159 | 70,692 | |
| | 9 | 31,666 | 2,998 | 1,021 | 412 | 432 | 209 | 185 | 111 | 88 | 85 | 37,207 | |
| | 10 | 41,321 | 4,714 | 1,052 | 312 | 337 | 189 | 61 | 22 | 10 | 5 | 48,025 | |
| | 11 | 15,426 | 4,853 | 767 | 959 | 496 | 225 | 80 | 31 | 16 | 5 | 22,857 | |
| | 12 | 8,419 | 2,261 | 464 | 278 | 213 | 93 | 55 | 14 | 7 | 4 | 11,807 | 418,592 |
| 2023 | 1 | 2,386 | 2,011 | 69 | 31 | 90 | 105 | 42 | 17 | 24 | 27 | 4,803 | |
| | 2 | 1,258 | 434 | 13 | 22 | 21 | 62 | 23 | 16 | 22 | 35 | 1,906 | |
| | 3 | 551 | 109 | 10 | 9 | 41 | 31 | 60 | 80 | 64 | 81 | 1,037 | |
| | 4 | 9,335 | 444 | 0 | 0 | 2 | 13 | 21 | 88 | 96 | 94 | 10,094 | |
| | 5 | 33,260 | 1,749 | 63 | 3 | 4 | 5 | 40 | 42 | 182 | 95 | 35,443 | |
| | 6 | 87,013 | 3,464 | 145 | 31 | 33 | 142 | 229 | 414 | 259 | 438 | 92,169 | |
| | 7 | 73,572 | 6,774 | 734 | 165 | 77 | 99 | 198 | 250 | 363 | 320 | 82,552 | |
| | 8 | 62,591 | 5,337 | 1,001 | 500 | 396 | 288 | 185 | 132 | 103 | 159 | 70,692 | |
| | 9 | 31,666 | 2,998 | 1,021 | 412 | 432 | 209 | 185 | 111 | 88 | 85 | 37,207 | |
| | 10 | 41,321 | 4,714 | 1,052 | 312 | 337 | 189 | 61 | 22 | 10 | 5 | 48,025 | |
| | 11 | 15,426 | 4,853 | 767 | 959 | 496 | 225 | 80 | 31 | 16 | 5 | 22,857 | |
| | 12 | 8,419 | 2,261 | 464 | 278 | 213 | 93 | 55 | 14 | 7 | 4 | 11,807 | 418,592 |
| 2024 | 1 | 2,386 | 2,011 | 69 | 31 | 90 | 105 | 42 | 17 | 24 | 27 | 4,803 | |
| | 2 | 1,258 | 434 | 13 | 22 | 21 | 62 | 23 | 16 | 22 | 35 | 1,906 | |
| | 3 | 551 | 109 | 10 | 9 | 41 | 31 | 60 | 80 | 64 | 81 | 1,037 | |
| | 4 | 9,335 | 444 | 0 | 0 | 2 | 13 | 21 | 88 | 96 | 94 | 10,094 | |
| | 5 | 33,260 | 1,749 | 63 | 3 | 4 | 5 | 40 | 42 | 182 | 95 | 35,443 | |
| | 6 | 87,013 | 3,464 | 145 | 31 | 33 | 142 | 229 | 414 | 259 | 438 | 92,169 | |
| | 7 | 73,572 | 6,774 | 734 | 165 | 77 | 99 | 198 | 250 | 363 | 320 | 82,552 | |
| | 8 | 62,591 | 5,337 | 1,001 | 500 | 396 | 288 | 185 | 132 | 103 | 159 | 70,692 | |
| | 9 | 31,666 | 2,998 | 1,021 | 412 | 432 | 209 | 185 | 111 | 88 | 85 | 37,207 | |
| | 10 | 41,321 | 4,714 | 1,052 | 312 | 337 | 189 | 61 | 22 | 10 | 5 | 48,025 | |
| | 11 | 15,426 | 4,853 | 767 | 959 | 496 | 225 | 80 | 31 | 16 | 5 | 22,857 | |
| | 12 | 8,419 | 2,261 | 464 | 278 | 213 | 93 | 55 | 14 | 7 | 4 | 11,807 | 418,592 |

補足表 7-2-2. 0.80Fcurren で漁獲を継続した場合の漁獲量 (トン) の将来予測

| 年 | 月 \ 月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 117 | 513 | 62 | 31 | 148 | 149 | 64 | 27 | 47 | 128 | 1,287 | |
| | 2 | 75 | 165 | 11 | 32 | 30 | 136 | 43 | 30 | 41 | 140 | 704 | |
| | 3 | 32 | 50 | 13 | 13 | 87 | 60 | 174 | 185 | 143 | 290 | 1,047 | |
| | 4 | 525 | 197 | 0 | 1 | 4 | 37 | 53 | 315 | 264 | 334 | 1,731 | |
| | 5 | 1,700 | 759 | 96 | 8 | 13 | 15 | 150 | 132 | 776 | 373 | 4,023 | |
| | 6 | 4,771 | 1,367 | 216 | 77 | 123 | 585 | 830 | 1,914 | 976 | 2,525 | 13,383 | |
| | 7 | 4,031 | 2,867 | 994 | 398 | 277 | 494 | 1,070 | 1,124 | 1,987 | 1,866 | 15,106 | |
| | 8 | 3,475 | 2,257 | 1,455 | 1,092 | 1,387 | 1,385 | 1,214 | 885 | 551 | 1,160 | 14,860 | |
| | 9 | 2,027 | 1,285 | 1,482 | 965 | 1,373 | 984 | 1,170 | 904 | 700 | 658 | 11,548 | |
| | 10 | 2,645 | 2,329 | 1,548 | 732 | 1,149 | 809 | 375 | 174 | 100 | 53 | 9,914 | |
| | 11 | 987 | 2,397 | 1,301 | 2,277 | 1,690 | 1,031 | 449 | 240 | 146 | 65 | 10,582 | |
| | 12 | 539 | 1,117 | 786 | 760 | 735 | 426 | 331 | 96 | 59 | 51 | 4,901 | 89,084 |
| 2020 | 1 | 153 | 993 | 118 | 86 | 359 | 487 | 252 | 130 | 200 | 382 | 3,159 | |
| | 2 | 81 | 214 | 21 | 60 | 83 | 331 | 140 | 119 | 197 | 484 | 1,730 | |
| | 3 | 35 | 54 | 17 | 25 | 164 | 164 | 421 | 606 | 564 | 1,123 | 3,175 | |
| | 4 | 597 | 219 | 0 | 1 | 8 | 70 | 145 | 766 | 864 | 1,303 | 3,974 | |
| | 5 | 2,129 | 864 | 107 | 9 | 17 | 29 | 283 | 363 | 1,883 | 1,327 | 7,010 | |
| | 6 | 5,569 | 1,711 | 246 | 85 | 132 | 761 | 1,609 | 3,614 | 2,673 | 6,795 | 23,196 | |
| | 7 | 4,709 | 3,346 | 1,244 | 452 | 308 | 529 | 1,391 | 2,177 | 3,752 | 5,056 | 22,965 | |
| | 8 | 4,006 | 2,637 | 1,698 | 1,367 | 1,577 | 1,540 | 1,302 | 1,151 | 1,066 | 2,547 | 18,891 | |
| | 9 | 2,027 | 1,481 | 1,732 | 1,126 | 1,720 | 1,119 | 1,301 | 969 | 911 | 1,372 | 13,757 | |
| | 10 | 2,645 | 2,329 | 1,784 | 855 | 1,342 | 1,014 | 427 | 193 | 107 | 86 | 10,780 | |
| | 11 | 987 | 2,397 | 1,301 | 2,624 | 1,975 | 1,204 | 562 | 272 | 162 | 78 | 11,562 | |
| | 12 | 539 | 1,117 | 786 | 760 | 848 | 498 | 386 | 121 | 68 | 58 | 5,179 | 125,378 |
| 2021 | 1 | 153 | 993 | 118 | 86 | 359 | 562 | 294 | 151 | 250 | 434 | 3,400 | |
| | 2 | 81 | 214 | 21 | 60 | 83 | 331 | 161 | 139 | 230 | 575 | 1,895 | |
| | 3 | 35 | 54 | 17 | 25 | 164 | 164 | 421 | 699 | 659 | 1,325 | 3,565 | |
| | 4 | 597 | 219 | 0 | 1 | 8 | 70 | 145 | 766 | 996 | 1,531 | 4,334 | |
| | 5 | 2,129 | 864 | 107 | 9 | 17 | 29 | 283 | 363 | 1,883 | 1,544 | 7,227 | |
| | 6 | 5,569 | 1,711 | 246 | 85 | 132 | 761 | 1,609 | 3,614 | 2,673 | 7,139 | 23,539 | |
| | 7 | 4,709 | 3,346 | 1,244 | 452 | 308 | 529 | 1,391 | 2,177 | 3,752 | 5,214 | 23,123 | |
| | 8 | 4,006 | 2,637 | 1,698 | 1,367 | 1,577 | 1,540 | 1,302 | 1,151 | 1,066 | 2,584 | 18,928 | |
| | 9 | 2,027 | 1,481 | 1,732 | 1,126 | 1,720 | 1,119 | 1,301 | 969 | 911 | 1,384 | 13,768 | |
| | 10 | 2,645 | 2,329 | 1,784 | 855 | 1,342 | 1,014 | 427 | 193 | 107 | 86 | 10,780 | |
| | 11 | 987 | 2,397 | 1,301 | 2,624 | 1,975 | 1,204 | 562 | 272 | 162 | 79 | 11,562 | |
| | 12 | 539 | 1,117 | 786 | 760 | 848 | 498 | 386 | 121 | 68 | 58 | 5,179 | 127,301 |
| 2022 | 1 | 153 | 993 | 118 | 86 | 359 | 562 | 294 | 151 | 250 | 434 | 3,400 | |
| | 2 | 81 | 214 | 21 | 60 | 83 | 331 | 161 | 139 | 230 | 575 | 1,895 | |
| | 3 | 35 | 54 | 17 | 25 | 164 | 164 | 421 | 699 | 659 | 1,326 | 3,565 | |
| | 4 | 597 | 219 | 0 | 1 | 8 | 70 | 145 | 766 | 996 | 1,531 | 4,334 | |
| | 5 | 2,129 | 864 | 107 | 9 | 17 | 29 | 283 | 363 | 1,883 | 1,544 | 7,227 | |
| | 6 | 5,569 | 1,711 | 246 | 85 | 132 | 761 | 1,609 | 3,614 | 2,673 | 7,139 | 23,539 | |
| | 7 | 4,709 | 3,346 | 1,244 | 452 | 308 | 529 | 1,391 | 2,177 | 3,752 | 5,214 | 23,123 | |
| | 8 | 4,006 | 2,637 | 1,698 | 1,367 | 1,577 | 1,540 | 1,302 | 1,151 | 1,066 | 2,584 | 18,928 | |
| | 9 | 2,027 | 1,481 | 1,732 | 1,126 | 1,720 | 1,119 | 1,301 | 969 | 911 | 1,384 | 13,768 | |
| | 10 | 2,645 | 2,329 | 1,784 | 855 | 1,342 | 1,014 | 427 | 193 | 107 | 86 | 10,780 | |
| | 11 | 987 | 2,397 | 1,301 | 2,624 | 1,975 | 1,204 | 562 | 272 | 162 | 79 | 11,562 | |
| | 12 | 539 | 1,117 | 786 | 760 | 848 | 498 | 386 | 121 | 68 | 58 | 5,179 | 127,301 |
| 2023 | 1 | 153 | 993 | 118 | 86 | 359 | 562 | 294 | 151 | 250 | 434 | 3,400 | |
| | 2 | 81 | 214 | 21 | 60 | 83 | 331 | 161 | 139 | 230 | 575 | 1,895 | |
| | 3 | 35 | 54 | 17 | 25 | 164 | 164 | 421 | 699 | 659 | 1,326 | 3,565 | |
| | 4 | 597 | 219 | 0 | 1 | 8 | 70 | 145 | 766 | 996 | 1,531 | 4,334 | |
| | 5 | 2,129 | 864 | 107 | 9 | 17 | 29 | 283 | 363 | 1,883 | 1,544 | 7,227 | |
| | 6 | 5,569 | 1,711 | 246 | 85 | 132 | 761 | 1,609 | 3,614 | 2,673 | 7,139 | 23,539 | |
| | 7 | 4,709 | 3,346 | 1,244 | 452 | 308 | 529 | 1,391 | 2,177 | 3,752 | 5,214 | 23,123 | |
| | 8 | 4,006 | 2,637 | 1,698 | 1,367 | 1,577 | 1,540 | 1,302 | 1,151 | 1,066 | 2,584 | 18,928 | |
| | 9 | 2,027 | 1,481 | 1,732 | 1,126 | 1,720 | 1,119 | 1,301 | 969 | 911 | 1,384 | 13,768 | |
| | 10 | 2,645 | 2,329 | 1,784 | 855 | 1,342 | 1,014 | 427 | 193 | 107 | 86 | 10,780 | |
| | 11 | 987 | 2,397 | 1,301 | 2,624 | 1,975 | 1,204 | 562 | 272 | 162 | 79 | 11,562 | |
| | 12 | 539 | 1,117 | 786 | 760 | 848 | 498 | 386 | 121 | 68 | 58 | 5,179 | 127,301 |
| 2024 | 1 | 153 | 993 | 118 | 86 | 359 | 562 | 294 | 151 | 250 | 434 | 3,400 | |
| | 2 | 81 | 214 | 21 | 60 | 83 | 331 | 161 | 139 | 230 | 575 | 1,895 | |
| | 3 | 35 | 54 | 17 | 25 | 164 | 164 | 421 | 699 | 659 | 1,326 | 3,565 | |
| | 4 | 597 | 219 | 0 | 1 | 8 | 70 | 145 | 766 | 996 | 1,531 | 4,334 | |
| | 5 | 2,129 | 864 | 107 | 9 | 17 | 29 | 283 | 363 | 1,883 | 1,544 | 7,227 | |
| | 6 | 5,569 | 1,711 | 246 | 85 | 132 | 761 | 1,609 | 3,614 | 2,673 | 7,139 | 23,539 | |
| | 7 | 4,709 | 3,346 | 1,244 | 452 | 308 | 529 | 1,391 | 2,177 | 3,752 | 5,214 | 23,123 | |
| | 8 | 4,006 | 2,637 | 1,698 | 1,367 | 1,577 | 1,540 | 1,302 | 1,151 | 1,066 | 2,584 | 18,928 | |
| | 9 | 2,027 | 1,481 | 1,732 | 1,126 | 1,720 | 1,119 | 1,301 | 969 | 911 | 1,384 | 13,768 | |
| | 10 | 2,645 | 2,329 | 1,784 | 855 | 1,342 | 1,014 | 427 | 193 | 107 | 86 | 10,780 | |
| | 11 | 987 | 2,397 | 1,301 | 2,624 | 1,975 | 1,204 | 562 | 272 | 162 | 79 | 11,562 | |
| | 12 | 539 | 1,117 | 786 | 760 | 848 | 498 | 386 | 121 | 68 | 58 | 5,179 | 127,301 |

補足表 7-2-3. 0.80Fcurrent で漁獲を継続した場合の資源尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-------|-------|-----|-----|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| | 2 | 4,534 | 2,347 | 1,117 | 1,488 | 463 | 734 | 175 | 70 | 31 | 67 | 11,027 | |
| | 3 | 5,309 | 1,909 | 1,369 | 831 | 1,150 | 364 | 577 | 140 | 56 | 72 | 11,776 | |
| | 4 | 18,420 | 2,929 | 1,256 | 1,019 | 644 | 901 | 287 | 456 | 98 | 78 | 26,089 | |
| | 5 | 45,820 | 5,032 | 1,723 | 941 | 794 | 515 | 730 | 231 | 349 | 107 | 56,242 | |
| | 6 | 112,770 | 7,661 | 2,247 | 1,242 | 731 | 633 | 418 | 586 | 180 | 296 | 126,763 | |
| | 7 | 96,045 | 11,590 | 3,063 | 1,573 | 943 | 557 | 418 | 239 | 291 | 173 | 114,894 | |
| | 8 | 83,567 | 10,276 | 3,279 | 1,787 | 1,098 | 693 | 372 | 208 | 83 | 110 | 101,473 | |
| | 9 | 61,059 | 9,338 | 3,390 | 1,713 | 1,041 | 567 | 332 | 151 | 82 | 49 | 77,723 | |
| | 10 | 67,761 | 13,154 | 4,381 | 1,783 | 1,024 | 525 | 297 | 124 | 32 | 11 | 89,092 | |
| | 11 | 32,533 | 9,710 | 5,290 | 2,491 | 1,154 | 562 | 292 | 198 | 86 | 24 | 52,340 | |
| | 12 | 19,403 | 8,152 | 2,754 | 3,299 | 1,208 | 544 | 285 | 184 | 141 | 76 | 36,046 | 716,431 |
| 2020 | 1 | 7,894 | 5,480 | 3,832 | 1,662 | 2,327 | 802 | 372 | 194 | 144 | 176 | 22,882 | |
| | 2 | 4,863 | 3,052 | 2,165 | 2,810 | 1,268 | 1,783 | 573 | 276 | 149 | 232 | 17,169 | |
| | 3 | 5,902 | 2,047 | 1,780 | 1,610 | 2,171 | 997 | 1,401 | 457 | 219 | 277 | 16,861 | |
| | 4 | 20,951 | 3,256 | 1,347 | 1,325 | 1,247 | 1,702 | 787 | 1,107 | 320 | 306 | 32,348 | |
| | 5 | 57,384 | 5,723 | 1,916 | 1,009 | 1,032 | 997 | 1,379 | 634 | 848 | 379 | 71,301 | |
| | 6 | 131,633 | 9,594 | 2,556 | 1,380 | 784 | 823 | 810 | 1,107 | 493 | 796 | 149,975 | |
| | 7 | 112,203 | 13,529 | 3,837 | 1,789 | 1,049 | 598 | 544 | 463 | 549 | 469 | 135,029 | |
| | 8 | 96,339 | 12,004 | 3,827 | 2,239 | 1,248 | 770 | 399 | 271 | 160 | 242 | 117,500 | |
| | 9 | 61,059 | 10,765 | 3,960 | 2,000 | 1,304 | 645 | 369 | 162 | 106 | 102 | 80,473 | |
| | 10 | 67,761 | 13,154 | 5,050 | 2,083 | 1,196 | 658 | 338 | 138 | 34 | 17 | 90,429 | |
| | 11 | 32,533 | 9,710 | 5,290 | 2,872 | 1,348 | 656 | 366 | 225 | 95 | 29 | 53,125 | |
| | 12 | 19,403 | 8,152 | 2,754 | 3,299 | 1,393 | 635 | 333 | 231 | 160 | 87 | 36,446 | 823,539 |
| 2021 | 1 | 7,894 | 5,480 | 3,832 | 1,662 | 2,327 | 925 | 435 | 226 | 181 | 200 | 23,160 | |
| | 2 | 4,863 | 3,052 | 2,165 | 2,810 | 1,268 | 1,783 | 661 | 323 | 174 | 275 | 17,371 | |
| | 3 | 5,902 | 2,047 | 1,780 | 1,610 | 2,171 | 997 | 1,401 | 527 | 256 | 327 | 17,018 | |
| | 4 | 20,951 | 3,256 | 1,347 | 1,325 | 1,247 | 1,702 | 787 | 1,107 | 369 | 360 | 32,450 | |
| | 5 | 57,384 | 5,723 | 1,916 | 1,009 | 1,032 | 997 | 1,379 | 634 | 848 | 441 | 71,363 | |
| | 6 | 131,633 | 9,594 | 2,556 | 1,380 | 784 | 823 | 810 | 1,107 | 493 | 836 | 150,016 | |
| | 7 | 112,203 | 13,529 | 3,837 | 1,789 | 1,049 | 598 | 544 | 463 | 549 | 484 | 135,044 | |
| | 8 | 96,339 | 12,004 | 3,827 | 2,239 | 1,248 | 770 | 399 | 271 | 160 | 246 | 117,503 | |
| | 9 | 61,059 | 10,765 | 3,960 | 2,000 | 1,304 | 645 | 369 | 162 | 106 | 102 | 80,474 | |
| | 10 | 67,761 | 13,154 | 5,050 | 2,083 | 1,196 | 658 | 338 | 138 | 34 | 17 | 90,429 | |
| | 11 | 32,533 | 9,710 | 5,290 | 2,872 | 1,348 | 656 | 366 | 225 | 95 | 29 | 53,125 | |
| | 12 | 19,403 | 8,152 | 2,754 | 3,299 | 1,393 | 635 | 333 | 231 | 160 | 87 | 36,446 | 824,399 |
| 2022 | 1 | 7,894 | 5,480 | 3,832 | 1,662 | 2,327 | 925 | 435 | 226 | 181 | 200 | 23,160 | |
| | 2 | 4,863 | 3,052 | 2,165 | 2,810 | 1,268 | 1,783 | 661 | 323 | 174 | 275 | 17,371 | |
| | 3 | 5,902 | 2,047 | 1,780 | 1,610 | 2,171 | 997 | 1,401 | 527 | 256 | 327 | 17,018 | |
| | 4 | 20,951 | 3,256 | 1,347 | 1,325 | 1,247 | 1,702 | 787 | 1,107 | 369 | 360 | 32,450 | |
| | 5 | 57,384 | 5,723 | 1,916 | 1,009 | 1,032 | 997 | 1,379 | 634 | 848 | 441 | 71,363 | |
| | 6 | 131,633 | 9,594 | 2,556 | 1,380 | 784 | 823 | 810 | 1,107 | 493 | 836 | 150,016 | |
| | 7 | 112,203 | 13,529 | 3,837 | 1,789 | 1,049 | 598 | 544 | 463 | 549 | 484 | 135,044 | |
| | 8 | 96,339 | 12,004 | 3,827 | 2,239 | 1,248 | 770 | 399 | 271 | 160 | 246 | 117,503 | |
| | 9 | 61,059 | 10,765 | 3,960 | 2,000 | 1,304 | 645 | 369 | 162 | 106 | 102 | 80,474 | |
| | 10 | 67,761 | 13,154 | 5,050 | 2,083 | 1,196 | 658 | 338 | 138 | 34 | 17 | 90,429 | |
| | 11 | 32,533 | 9,710 | 5,290 | 2,872 | 1,348 | 656 | 366 | 225 | 95 | 29 | 53,125 | |
| | 12 | 19,403 | 8,152 | 2,754 | 3,299 | 1,393 | 635 | 333 | 231 | 160 | 87 | 36,446 | 824,399 |
| 2023 | 1 | 7,894 | 5,480 | 3,832 | 1,662 | 2,327 | 925 | 435 | 226 | 181 | 200 | 23,160 | |
| | 2 | 4,863 | 3,052 | 2,165 | 2,810 | 1,268 | 1,783 | 661 | 323 | 174 | 275 | 17,371 | |
| | 3 | 5,902 | 2,047 | 1,780 | 1,610 | 2,171 | 997 | 1,401 | 527 | 256 | 327 | 17,018 | |
| | 4 | 20,951 | 3,256 | 1,347 | 1,325 | 1,247 | 1,702 | 787 | 1,107 | 369 | 360 | 32,450 | |
| | 5 | 57,384 | 5,723 | 1,916 | 1,009 | 1,032 | 997 | 1,379 | 634 | 848 | 441 | 71,363 | |
| | 6 | 131,633 | 9,594 | 2,556 | 1,380 | 784 | 823 | 810 | 1,107 | 493 | 836 | 150,016 | |
| | 7 | 112,203 | 13,529 | 3,837 | 1,789 | 1,049 | 598 | 544 | 463 | 549 | 484 | 135,044 | |
| | 8 | 96,339 | 12,004 | 3,827 | 2,239 | 1,248 | 770 | 399 | 271 | 160 | 246 | 117,503 | |
| | 9 | 61,059 | 10,765 | 3,960 | 2,000 | 1,304 | 645 | 369 | 162 | 106 | 102 | 80,474 | |
| | 10 | 67,761 | 13,154 | 5,050 | 2,083 | 1,196 | 658 | 338 | 138 | 34 | 17 | 90,429 | |
| | 11 | 32,533 | 9,710 | 5,290 | 2,872 | 1,348 | 656 | 366 | 225 | 95 | 29 | 53,125 | |
| | 12 | 19,403 | 8,152 | 2,754 | 3,299 | 1,393 | 635 | 333 | 231 | 160 | 87 | 36,446 | 824,399 |
| 2024 | 1 | 7,894 | 5,480 | 3,832 | 1,662 | 2,327 | 925 | 435 | 226 | 181 | 200 | 23,160 | |
| | 2 | 4,863 | 3,052 | 2,165 | 2,810 | 1,268 | 1,783 | 661 | 323 | 174 | 275 | 17,371 | |
| | 3 | 5,902 | 2,047 | 1,780 | 1,610 | 2,171 | 997 | 1,401 | 527 | 256 | 327 | 17,018 | |
| | 4 | 20,951 | 3,256 | 1,347 | 1,325 | 1,247 | 1,702 | 787 | 1,107 | 369 | 360 | 32,450 | |
| | 5 | 57,384 | 5,723 | 1,916 | 1,009 | 1,032 | 997 | 1,379 | 634 | 848 | 441 | 71,363 | |
| | 6 | 131,633 | 9,594 | 2,556 | 1,380 | 784 | 823 | 810 | 1,107 | 493 | 836 | 150,016 | |
| | 7 | 112,203 | 13,529 | 3,837 | 1,789 | 1,049 | 598 | 544 | 463 | 549 | 484 | 135,044 | |
| | 8 | 96,339 | 12,004 | 3,827 | 2,239 | 1,248 | 770 | 399 | 271 | 160 | 246 | 117,503 | |
| | 9 | 61,059 | 10,765 | 3,960 | 2,000 | 1,304 | 645 | 369 | 162 | 106 | 102 | 80,474 | |
| | 10 | 67,761 | 13,154 | 5,050 | 2,083 | 1,196 | 658 | 338 | 138 | 34 | 17 | 90,429 | |
| | 11 | 32,533 | 9,710 | 5,290 | 2,872 | 1,348 | 656 | 366 | 225 | 95 | 29 | 53,125 | |
| | 12 | 19,403 | 8,152 | 2,754 | 3,299 | 1,393 | 635 | 333 | 231 | 160 | 87 | 36,446 | 824,399 |

補足表 7-2-4. 0.80Fcurrent で漁獲を継続した場合の資源量（トン）の将来予測

| 年 | 月＼月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 1,159 | 1,895 | 4,073 | 1,841 | 3,929 | 1,229 | 610 | 320 | 1,096 | 16,443 | |
| | 3 | 340 | 943 | 2,322 | 2,275 | 4,575 | 1,946 | 4,052 | 1,218 | 574 | 1,165 | 19,410 | |
| | 4 | 1,179 | 1,447 | 2,130 | 2,788 | 2,562 | 4,823 | 2,016 | 3,978 | 1,010 | 1,277 | 23,210 | |
| | 5 | 2,932 | 2,486 | 2,923 | 2,574 | 3,159 | 2,754 | 5,128 | 2,017 | 3,612 | 1,737 | 29,324 | |
| | 6 | 7,217 | 3,784 | 3,811 | 3,399 | 2,907 | 3,387 | 2,936 | 5,112 | 4,818 | 39,233 | | |
| | 7 | 6,147 | 5,726 | 5,196 | 4,304 | 3,753 | 2,983 | 2,938 | 2,085 | 3,005 | 2,822 | 38,958 | |
| | 8 | 5,348 | 5,076 | 5,561 | 4,892 | 4,368 | 3,709 | 2,613 | 1,816 | 853 | 1,798 | 36,035 | |
| | 9 | 3,908 | 4,613 | 5,749 | 4,690 | 4,143 | 3,035 | 2,334 | 1,319 | 845 | 793 | 31,430 | |
| | 10 | 4,337 | 6,498 | 7,430 | 4,879 | 4,076 | 2,810 | 2,088 | 1,081 | 331 | 177 | 33,706 | |
| | 11 | 2,082 | 4,796 | 8,972 | 6,819 | 4,590 | 3,007 | 2,053 | 1,726 | 886 | 397 | 35,330 | |
| | 12 | 1,242 | 4,027 | 4,671 | 9,029 | 4,806 | 2,910 | 2,002 | 1,607 | 1,456 | 1,246 | 32,997 | 350,412 |
| 2020 | 1 | 505 | 2,707 | 6,499 | 4,548 | 9,258 | 4,292 | 2,615 | 1,688 | 1,493 | 2,863 | 36,468 | |
| | 2 | 311 | 1,508 | 3,671 | 7,691 | 5,044 | 9,539 | 4,025 | 2,409 | 1,537 | 3,773 | 39,508 | |
| | 3 | 378 | 1,011 | 3,019 | 4,408 | 8,640 | 5,333 | 9,837 | 3,987 | 2,266 | 4,511 | 43,390 | |
| | 4 | 1,341 | 1,609 | 2,284 | 3,626 | 4,963 | 9,108 | 5,525 | 9,655 | 3,306 | 4,987 | 46,403 | |
| | 5 | 3,673 | 2,827 | 3,249 | 2,761 | 4,108 | 5,335 | 9,685 | 5,526 | 8,768 | 6,176 | 52,108 | |
| | 6 | 8,425 | 4,739 | 4,334 | 3,778 | 3,118 | 4,404 | 5,688 | 9,654 | 5,100 | 12,966 | 62,206 | |
| | 7 | 7,181 | 6,683 | 6,507 | 4,896 | 4,172 | 3,199 | 3,820 | 4,039 | 5,674 | 7,647 | 53,818 | |
| | 8 | 6,166 | 5,930 | 6,491 | 6,127 | 4,968 | 4,123 | 2,803 | 2,362 | 1,652 | 3,947 | 44,568 | |
| | 9 | 3,908 | 5,318 | 6,717 | 5,474 | 5,189 | 3,452 | 2,595 | 1,415 | 1,098 | 1,654 | 36,819 | |
| | 10 | 4,337 | 6,498 | 8,566 | 5,700 | 4,758 | 3,519 | 2,375 | 1,202 | 355 | 283 | 37,590 | |
| | 11 | 2,082 | 4,796 | 8,972 | 7,861 | 5,363 | 3,510 | 2,571 | 1,963 | 985 | 478 | 38,583 | |
| | 12 | 1,242 | 4,027 | 4,671 | 9,029 | 5,541 | 3,400 | 2,337 | 2,013 | 1,656 | 1,411 | 35,326 | 526,787 |
| 2021 | 1 | 505 | 2,707 | 6,499 | 4,548 | 9,258 | 4,948 | 3,055 | 1,970 | 1,870 | 3,251 | 38,611 | |
| | 2 | 311 | 1,508 | 3,671 | 7,691 | 5,044 | 9,539 | 4,640 | 2,814 | 1,794 | 4,483 | 41,495 | |
| | 3 | 378 | 1,011 | 3,019 | 4,408 | 8,640 | 5,333 | 9,837 | 4,596 | 2,647 | 5,323 | 45,193 | |
| | 4 | 1,341 | 1,609 | 2,284 | 3,626 | 4,963 | 9,108 | 5,525 | 9,655 | 3,811 | 5,859 | 47,781 | |
| | 5 | 3,673 | 2,827 | 3,249 | 2,761 | 4,108 | 5,335 | 9,685 | 5,526 | 8,768 | 7,187 | 53,119 | |
| | 6 | 8,425 | 4,739 | 4,334 | 3,778 | 3,118 | 4,404 | 5,688 | 9,654 | 5,100 | 13,622 | 62,861 | |
| | 7 | 7,181 | 6,683 | 6,507 | 4,896 | 4,172 | 3,199 | 3,820 | 4,039 | 5,674 | 7,885 | 54,057 | |
| | 8 | 6,166 | 5,930 | 6,491 | 6,127 | 4,968 | 4,123 | 2,803 | 2,362 | 1,652 | 4,004 | 44,624 | |
| | 9 | 3,908 | 5,318 | 6,717 | 5,474 | 5,189 | 3,452 | 2,595 | 1,415 | 1,098 | 1,668 | 36,834 | |
| | 10 | 4,337 | 6,498 | 8,566 | 5,700 | 4,758 | 3,519 | 2,375 | 1,202 | 355 | 283 | 37,591 | |
| | 11 | 2,082 | 4,796 | 8,972 | 7,861 | 5,363 | 3,510 | 2,571 | 1,963 | 985 | 478 | 38,584 | |
| | 12 | 1,242 | 4,027 | 4,671 | 9,029 | 5,541 | 3,400 | 2,337 | 2,013 | 1,656 | 1,411 | 35,326 | 536,076 |
| 2022 | 1 | 505 | 2,707 | 6,499 | 4,548 | 9,258 | 4,948 | 3,055 | 1,970 | 1,870 | 3,251 | 38,612 | |
| | 2 | 311 | 1,508 | 3,671 | 7,691 | 5,044 | 9,539 | 4,640 | 2,814 | 1,794 | 4,483 | 41,495 | |
| | 3 | 378 | 1,011 | 3,019 | 4,408 | 8,640 | 5,333 | 9,837 | 4,596 | 2,647 | 5,324 | 45,193 | |
| | 4 | 1,341 | 1,609 | 2,284 | 3,626 | 4,963 | 9,108 | 5,525 | 9,655 | 3,811 | 5,859 | 47,781 | |
| | 5 | 3,673 | 2,827 | 3,249 | 2,761 | 4,108 | 5,335 | 9,685 | 5,526 | 8,768 | 7,187 | 53,119 | |
| | 6 | 8,425 | 4,739 | 4,334 | 3,778 | 3,118 | 4,404 | 5,688 | 9,654 | 5,100 | 13,622 | 62,861 | |
| | 7 | 7,181 | 6,683 | 6,507 | 4,896 | 4,172 | 3,199 | 3,820 | 4,039 | 5,674 | 7,885 | 54,057 | |
| | 8 | 6,166 | 5,930 | 6,491 | 6,127 | 4,968 | 4,123 | 2,803 | 2,362 | 1,652 | 4,004 | 44,624 | |
| | 9 | 3,908 | 5,318 | 6,717 | 5,474 | 5,189 | 3,452 | 2,595 | 1,415 | 1,098 | 1,668 | 36,834 | |
| | 10 | 4,337 | 6,498 | 8,566 | 5,700 | 4,758 | 3,519 | 2,375 | 1,202 | 355 | 283 | 37,591 | |
| | 11 | 2,082 | 4,796 | 8,972 | 7,861 | 5,363 | 3,510 | 2,571 | 1,963 | 985 | 478 | 38,584 | |
| | 12 | 1,242 | 4,027 | 4,671 | 9,029 | 5,541 | 3,400 | 2,337 | 2,013 | 1,656 | 1,411 | 35,326 | 536,077 |
| 2023 | 1 | 505 | 2,707 | 6,499 | 4,548 | 9,258 | 4,948 | 3,055 | 1,970 | 1,870 | 3,251 | 38,612 | |
| | 2 | 311 | 1,508 | 3,671 | 7,691 | 5,044 | 9,539 | 4,640 | 2,814 | 1,794 | 4,483 | 41,495 | |
| | 3 | 378 | 1,011 | 3,019 | 4,408 | 8,640 | 5,333 | 9,837 | 4,596 | 2,647 | 5,324 | 45,193 | |
| | 4 | 1,341 | 1,609 | 2,284 | 3,626 | 4,963 | 9,108 | 5,525 | 9,655 | 3,811 | 5,859 | 47,781 | |
| | 5 | 3,673 | 2,827 | 3,249 | 2,761 | 4,108 | 5,335 | 9,685 | 5,526 | 8,768 | 7,187 | 53,119 | |
| | 6 | 8,425 | 4,739 | 4,334 | 3,778 | 3,118 | 4,404 | 5,688 | 9,654 | 5,100 | 13,622 | 62,861 | |
| | 7 | 7,181 | 6,683 | 6,507 | 4,896 | 4,172 | 3,199 | 3,820 | 4,039 | 5,674 | 7,885 | 54,057 | |
| | 8 | 6,166 | 5,930 | 6,491 | 6,127 | 4,968 | 4,123 | 2,803 | 2,362 | 1,652 | 4,004 | 44,624 | |
| | 9 | 3,908 | 5,318 | 6,717 | 5,474 | 5,189 | 3,452 | 2,595 | 1,415 | 1,098 | 1,668 | 36,834 | |
| | 10 | 4,337 | 6,498 | 8,566 | 5,700 | 4,758 | 3,519 | 2,375 | 1,202 | 355 | 283 | 37,591 | |
| | 11 | 2,082 | 4,796 | 8,972 | 7,861 | 5,363 | 3,510 | 2,571 | 1,963 | 985 | 478 | 38,584 | |
| | 12 | 1,242 | 4,027 | 4,671 | 9,029 | 5,541 | 3,400 | 2,337 | 2,013 | 1,656 | 1,411 | 35,326 | 536,077 |
| 2024 | 1 | 505 | 2,707 | 6,499 | 4,548 | 9,258 | 4,948 | 3,055 | 1,970 | 1,870 | 3,251 | 38,612 | |
| | 2 | 311 | 1,508 | 3,671 | 7,691 | 5,044 | 9,539 | 4,640 | 2,814 | 1,794 | 4,483 | 41,495 | |
| | 3 | 378 | 1,011 | 3,019 | 4,408 | 8,640 | 5,333 | 9,837 | 4,596 | 2,647 | 5,324 | 45,193 | |
| | 4 | 1,341 | 1,609 | 2,284 | 3,626 | 4,963 | 9,108 | 5,525 | 9,655 | 3,811 | 5,859 | 47,781 | |
| | 5 | 3,673 | 2,827 | 3,249 | 2,761 | 4,108 | 5,335 | 9,685 | 5,526 | 8,768 | 7,187 | 53,119 | |
| | 6 | 8,425 | 4,739 | 4,334 | 3,778 | 3,118 | 4,404 | 5,688 | 9,654 | 5,100 | 13,622 | 62,861 | |
| | 7 | 7,181 | 6,683 | 6,507 | 4,896 | 4,172 | 3,199 | 3,820 | 4,039 | 5,674 | 7,885 | 54,057 | |
| | 8 | 6,166 | 5,930 | 6,491 | 6,127 | 4,968 | 4,123 | 2,803 | 2,362 | 1,652 | 4,004 | 44,624 | |
| | 9 | 3,908 | 5,318 | | | | | | | | | | |

補足表 7-3-1. 1.00Fcurrent で漁獲を継続した場合の漁獲尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|--------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 2,171 | 1,217 | 46 | 14 | 46 | 34 | 11 | 4 | 6 | 10 | 3,559 | |
| | 2 | 1,401 | 362 | 7 | 14 | 9 | 31 | 7 | 4 | 5 | 10 | 1,851 | |
| | 3 | 599 | 114 | 8 | 5 | 27 | 14 | 30 | 25 | 16 | 20 | 858 | |
| | 4 | 9,166 | 464 | 0 | 0 | 1 | 9 | 9 | 43 | 28 | 21 | 9,742 | |
| | 5 | 27,850 | 1,446 | 64 | 3 | 4 | 3 | 26 | 18 | 86 | 23 | 29,524 | |
| | 6 | 73,957 | 2,220 | 112 | 31 | 34 | 112 | 122 | 253 | 103 | 152 | 77,097 | |
| | 7 | 60,936 | 3,890 | 422 | 125 | 77 | 99 | 144 | 115 | 182 | 92 | 66,083 | |
| | 8 | 47,946 | 3,051 | 483 | 269 | 280 | 267 | 167 | 82 | 37 | 47 | 52,630 | |
| | 9 | 29,313 | 1,655 | 503 | 183 | 212 | 133 | 146 | 80 | 41 | 19 | 32,285 | |
| | 10 | 42,564 | 3,496 | 533 | 144 | 139 | 84 | 35 | 15 | 6 | 1 | 47,016 | |
| | 11 | 17,533 | 3,603 | 515 | 443 | 210 | 83 | 32 | 17 | 10 | 2 | 22,450 | |
| | 12 | 8,983 | 2,146 | 294 | 180 | 90 | 36 | 19 | 5 | 4 | 2 | 11,759 | 354,853 |
| 2020 | 1 | 2,823 | 1,795 | 62 | 19 | 57 | 43 | 16 | 6 | 9 | 14 | 4,845 | |
| | 2 | 1,502 | 470 | 10 | 20 | 13 | 39 | 9 | 6 | 7 | 16 | 2,092 | |
| | 3 | 679 | 122 | 11 | 8 | 37 | 19 | 37 | 31 | 22 | 30 | 996 | |
| | 4 | 10,689 | 526 | 0 | 0 | 2 | 12 | 12 | 54 | 35 | 31 | 11,362 | |
| | 5 | 36,668 | 1,687 | 73 | 4 | 5 | 4 | 36 | 25 | 107 | 31 | 38,638 | |
| | 6 | 93,228 | 2,923 | 130 | 36 | 37 | 146 | 180 | 343 | 139 | 192 | 97,355 | |
| | 7 | 78,989 | 4,904 | 556 | 145 | 87 | 106 | 187 | 170 | 247 | 119 | 85,512 | |
| | 8 | 60,986 | 3,955 | 609 | 354 | 327 | 302 | 179 | 107 | 55 | 62 | 66,937 | |
| | 9 | 34,955 | 2,105 | 652 | 231 | 280 | 155 | 166 | 85 | 54 | 27 | 38,709 | |
| | 10 | 45,105 | 4,168 | 677 | 186 | 175 | 110 | 41 | 17 | 6 | 2 | 50,488 | |
| | 11 | 17,533 | 3,818 | 614 | 564 | 272 | 105 | 43 | 20 | 12 | 2 | 22,983 | |
| | 12 | 9,668 | 2,146 | 311 | 214 | 115 | 46 | 23 | 7 | 4 | 2 | 12,539 | 432,456 |
| 2021 | 1 | 2,823 | 1,932 | 62 | 20 | 69 | 54 | 20 | 7 | 12 | 17 | 5,017 | |
| | 2 | 1,502 | 470 | 11 | 20 | 13 | 46 | 12 | 8 | 9 | 19 | 2,110 | |
| | 3 | 679 | 122 | 11 | 8 | 37 | 20 | 45 | 39 | 29 | 37 | 1,027 | |
| | 4 | 10,689 | 526 | 0 | 0 | 2 | 12 | 13 | 64 | 45 | 40 | 11,391 | |
| | 5 | 36,668 | 1,687 | 73 | 4 | 5 | 5 | 36 | 26 | 127 | 39 | 38,669 | |
| | 6 | 93,228 | 2,923 | 130 | 36 | 37 | 146 | 194 | 343 | 148 | 232 | 97,417 | |
| | 7 | 78,989 | 4,904 | 556 | 145 | 87 | 106 | 187 | 183 | 247 | 137 | 85,542 | |
| | 8 | 63,193 | 3,955 | 609 | 354 | 327 | 302 | 179 | 107 | 59 | 65 | 69,151 | |
| | 9 | 35,363 | 2,181 | 652 | 231 | 280 | 155 | 166 | 85 | 54 | 28 | 39,195 | |
| | 10 | 45,105 | 4,217 | 702 | 186 | 175 | 110 | 41 | 17 | 6 | 2 | 50,561 | |
| | 11 | 17,533 | 3,818 | 621 | 584 | 272 | 105 | 43 | 20 | 12 | 2 | 23,011 | |
| | 12 | 9,668 | 2,146 | 311 | 217 | 119 | 46 | 23 | 7 | 4 | 2 | 12,546 | 435,636 |
| 2022 | 1 | 2,823 | 1,932 | 62 | 20 | 69 | 56 | 20 | 7 | 12 | 17 | 5,019 | |
| | 2 | 1,502 | 470 | 11 | 20 | 13 | 47 | 12 | 8 | 9 | 19 | 2,111 | |
| | 3 | 679 | 122 | 11 | 8 | 37 | 20 | 45 | 41 | 29 | 37 | 1,029 | |
| | 4 | 10,689 | 526 | 0 | 0 | 2 | 12 | 13 | 65 | 46 | 40 | 11,393 | |
| | 5 | 36,668 | 1,687 | 73 | 4 | 5 | 5 | 36 | 26 | 129 | 40 | 38,671 | |
| | 6 | 93,228 | 2,923 | 130 | 36 | 37 | 146 | 194 | 343 | 148 | 235 | 97,420 | |
| | 7 | 78,989 | 4,904 | 556 | 145 | 87 | 106 | 187 | 183 | 247 | 138 | 85,544 | |
| | 8 | 63,290 | 3,955 | 609 | 354 | 327 | 302 | 179 | 107 | 59 | 65 | 69,248 | |
| | 9 | 35,377 | 2,185 | 652 | 231 | 280 | 155 | 166 | 85 | 54 | 28 | 39,212 | |
| | 10 | 45,105 | 4,219 | 703 | 186 | 175 | 110 | 41 | 17 | 6 | 2 | 50,564 | |
| | 11 | 17,533 | 3,818 | 622 | 585 | 272 | 105 | 43 | 20 | 12 | 2 | 23,012 | |
| | 12 | 9,668 | 2,146 | 311 | 217 | 119 | 46 | 23 | 7 | 4 | 2 | 12,546 | 435,769 |
| 2023 | 1 | 2,823 | 1,932 | 62 | 20 | 69 | 56 | 20 | 7 | 12 | 17 | 5,020 | |
| | 2 | 1,502 | 470 | 11 | 20 | 13 | 47 | 12 | 8 | 9 | 19 | 2,111 | |
| | 3 | 679 | 122 | 11 | 8 | 37 | 20 | 45 | 41 | 29 | 37 | 1,029 | |
| | 4 | 10,689 | 526 | 0 | 0 | 2 | 12 | 13 | 65 | 46 | 40 | 11,393 | |
| | 5 | 36,668 | 1,687 | 73 | 4 | 5 | 5 | 36 | 26 | 129 | 40 | 38,671 | |
| | 6 | 93,228 | 2,923 | 130 | 36 | 37 | 146 | 194 | 343 | 148 | 236 | 97,420 | |
| | 7 | 78,989 | 4,904 | 556 | 145 | 87 | 106 | 187 | 183 | 247 | 138 | 85,544 | |
| | 8 | 63,293 | 3,955 | 609 | 354 | 327 | 302 | 179 | 107 | 59 | 65 | 69,252 | |
| | 9 | 35,377 | 2,185 | 652 | 231 | 280 | 155 | 166 | 85 | 54 | 28 | 39,212 | |
| | 10 | 45,105 | 4,219 | 703 | 186 | 175 | 110 | 41 | 17 | 6 | 2 | 50,564 | |
| | 11 | 17,533 | 3,818 | 622 | 585 | 272 | 105 | 43 | 20 | 12 | 2 | 23,012 | |
| | 12 | 9,668 | 2,146 | 311 | 217 | 119 | 46 | 23 | 7 | 4 | 2 | 12,546 | 435,774 |
| 2024 | 1 | 2,823 | 1,932 | 62 | 20 | 69 | 56 | 20 | 7 | 12 | 17 | 5,020 | |
| | 2 | 1,502 | 470 | 11 | 20 | 13 | 47 | 12 | 8 | 9 | 19 | 2,111 | |
| | 3 | 679 | 122 | 11 | 8 | 37 | 20 | 45 | 41 | 29 | 37 | 1,029 | |
| | 4 | 10,689 | 526 | 0 | 0 | 2 | 12 | 13 | 65 | 46 | 40 | 11,393 | |
| | 5 | 36,668 | 1,687 | 73 | 4 | 5 | 5 | 36 | 26 | 129 | 40 | 38,671 | |
| | 6 | 93,228 | 2,923 | 130 | 36 | 37 | 146 | 194 | 343 | 148 | 236 | 97,420 | |
| | 7 | 78,989 | 4,904 | 556 | 145 | 87 | 106 | 187 | 183 | 247 | 138 | 85,544 | |
| | 8 | 63,293 | 3,955 | 609 | 354 | 327 | 302 | 179 | 107 | 59 | 65 | 69,252 | |
| | 9 | 35,377 | 2,185 | 652 | 231 | 280 | 155 | 166 | 85 | 54 | 28 | 39,212 | |
| | 10 | 45,105 | 4,219 | 703 | 186 | 175 | 110 | 41 | 17 | 6 | 2 | 50,564 | |
| | 11 | 17,533 | 3,818 | 622 | 585 | 272 | 105 | 43 | 20 | 12 | 2 | 23,012 | |
| | 12 | 9,668 | 2,146 | 311 | 217 | 119 | 46 | 23 | 7 | 4 | 2 | 12,546 | 435,774 |

補足表 7-3-2. 1.00Fcurrent で漁獲を継続した場合の漁獲量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 139 | 601 | 78 | 39 | 184 | 183 | 79 | 33 | 58 | 157 | 1,551 | |
| | 2 | 90 | 179 | 12 | 40 | 37 | 168 | 51 | 36 | 49 | 166 | 828 | |
| | 3 | 38 | 56 | 14 | 14 | 108 | 74 | 211 | 217 | 165 | 325 | 1,223 | |
| | 4 | 587 | 229 | 0 | 1 | 5 | 46 | 65 | 377 | 290 | 350 | 1,949 | |
| | 5 | 1,782 | 715 | 109 | 9 | 14 | 16 | 184 | 160 | 889 | 372 | 4,250 | |
| | 6 | 4,733 | 1,097 | 190 | 86 | 136 | 602 | 856 | 2,203 | 1,067 | 2,479 | 13,449 | |
| | 7 | 3,900 | 1,922 | 716 | 341 | 307 | 530 | 1,010 | 1,005 | 1,883 | 1,497 | 13,111 | |
| | 8 | 3,069 | 1,507 | 819 | 736 | 1,116 | 1,427 | 1,174 | 719 | 384 | 758 | 11,709 | |
| | 9 | 1,876 | 818 | 853 | 502 | 845 | 709 | 1,029 | 694 | 428 | 309 | 8,061 | |
| | 10 | 2,724 | 1,727 | 903 | 393 | 552 | 447 | 248 | 133 | 59 | 19 | 7,205 | |
| | 11 | 1,122 | 1,780 | 873 | 1,214 | 834 | 446 | 228 | 151 | 106 | 32 | 6,787 | |
| | 12 | 575 | 1,060 | 498 | 492 | 359 | 191 | 131 | 47 | 36 | 33 | 3,424 | 73,546 |
| 2020 | 1 | 181 | 887 | 106 | 53 | 229 | 229 | 109 | 49 | 94 | 234 | 2,170 | |
| | 2 | 96 | 232 | 18 | 54 | 51 | 208 | 64 | 51 | 73 | 256 | 1,102 | |
| | 3 | 43 | 60 | 18 | 21 | 146 | 100 | 262 | 271 | 229 | 496 | 1,647 | |
| | 4 | 684 | 260 | 0 | 1 | 7 | 62 | 88 | 469 | 363 | 512 | 2,445 | |
| | 5 | 2,347 | 833 | 123 | 10 | 18 | 23 | 250 | 216 | 1,104 | 500 | 5,425 | |
| | 6 | 5,967 | 1,444 | 221 | 98 | 146 | 782 | 1,263 | 2,993 | 1,441 | 3,131 | 17,487 | |
| | 7 | 5,055 | 2,423 | 943 | 398 | 348 | 568 | 1,313 | 1,482 | 2,559 | 1,944 | 17,033 | |
| | 8 | 3,903 | 1,954 | 1,032 | 969 | 1,301 | 1,618 | 1,259 | 934 | 567 | 1,015 | 14,553 | |
| | 9 | 2,237 | 1,040 | 1,106 | 632 | 1,112 | 827 | 1,167 | 745 | 556 | 432 | 9,853 | |
| | 10 | 2,887 | 2,059 | 1,149 | 509 | 696 | 589 | 289 | 151 | 63 | 25 | 8,418 | |
| | 11 | 1,122 | 1,886 | 1,042 | 1,544 | 1,081 | 562 | 300 | 176 | 120 | 36 | 7,870 | |
| | 12 | 619 | 1,060 | 528 | 587 | 457 | 248 | 165 | 62 | 42 | 38 | 3,806 | 91,808 |
| 2021 | 1 | 181 | 954 | 106 | 56 | 273 | 291 | 141 | 62 | 124 | 270 | 2,458 | |
| | 2 | 96 | 232 | 19 | 54 | 54 | 248 | 82 | 65 | 92 | 311 | 1,254 | |
| | 3 | 43 | 60 | 18 | 22 | 146 | 106 | 313 | 344 | 297 | 610 | 1,960 | |
| | 4 | 684 | 260 | 0 | 1 | 7 | 62 | 93 | 559 | 461 | 644 | 2,771 | |
| | 5 | 2,347 | 833 | 123 | 10 | 18 | 25 | 250 | 229 | 1,317 | 632 | 5,784 | |
| | 6 | 5,967 | 1,444 | 221 | 98 | 146 | 782 | 1,360 | 2,993 | 1,527 | 3,785 | 18,323 | |
| | 7 | 5,055 | 2,423 | 943 | 398 | 348 | 568 | 1,313 | 1,595 | 2,559 | 2,228 | 17,430 | |
| | 8 | 4,044 | 1,954 | 1,032 | 969 | 1,301 | 1,618 | 1,259 | 934 | 610 | 1,063 | 14,786 | |
| | 9 | 2,263 | 1,078 | 1,106 | 632 | 1,112 | 827 | 1,167 | 745 | 556 | 458 | 9,943 | |
| | 10 | 2,887 | 2,083 | 1,190 | 509 | 696 | 589 | 289 | 151 | 63 | 26 | 8,484 | |
| | 11 | 1,122 | 1,886 | 1,054 | 1,600 | 1,081 | 562 | 300 | 176 | 120 | 36 | 7,938 | |
| | 12 | 619 | 1,060 | 528 | 594 | 473 | 248 | 165 | 62 | 42 | 38 | 3,830 | 94,961 |
| 2022 | 1 | 181 | 954 | 106 | 56 | 276 | 301 | 141 | 62 | 124 | 270 | 2,472 | |
| | 2 | 96 | 232 | 19 | 54 | 54 | 251 | 85 | 65 | 92 | 311 | 1,260 | |
| | 3 | 43 | 60 | 18 | 22 | 146 | 106 | 316 | 357 | 297 | 610 | 1,977 | |
| | 4 | 684 | 260 | 0 | 1 | 7 | 62 | 93 | 565 | 478 | 644 | 2,794 | |
| | 5 | 2,347 | 833 | 123 | 10 | 18 | 25 | 250 | 229 | 1,332 | 644 | 5,812 | |
| | 6 | 5,967 | 1,444 | 221 | 98 | 146 | 782 | 1,360 | 2,993 | 1,527 | 3,835 | 18,373 | |
| | 7 | 5,055 | 2,423 | 943 | 398 | 348 | 568 | 1,313 | 1,595 | 2,559 | 2,247 | 17,449 | |
| | 8 | 4,051 | 1,954 | 1,032 | 969 | 1,301 | 1,618 | 1,259 | 934 | 610 | 1,066 | 14,795 | |
| | 9 | 2,264 | 1,079 | 1,106 | 632 | 1,112 | 827 | 1,167 | 745 | 556 | 459 | 9,947 | |
| | 10 | 2,887 | 2,084 | 1,192 | 509 | 696 | 589 | 289 | 151 | 63 | 26 | 8,486 | |
| | 11 | 1,122 | 1,886 | 1,054 | 1,602 | 1,081 | 562 | 300 | 176 | 120 | 36 | 7,941 | |
| | 12 | 619 | 1,060 | 528 | 594 | 474 | 248 | 165 | 62 | 42 | 38 | 3,831 | 95,135 |
| 2023 | 1 | 181 | 954 | 106 | 56 | 276 | 302 | 141 | 62 | 124 | 270 | 2,473 | |
| | 2 | 96 | 232 | 19 | 54 | 54 | 251 | 85 | 65 | 92 | 311 | 1,260 | |
| | 3 | 43 | 60 | 18 | 22 | 146 | 106 | 317 | 357 | 297 | 610 | 1,977 | |
| | 4 | 684 | 260 | 0 | 1 | 7 | 62 | 93 | 566 | 479 | 644 | 2,795 | |
| | 5 | 2,347 | 833 | 123 | 10 | 18 | 25 | 250 | 229 | 1,332 | 645 | 5,813 | |
| | 6 | 5,967 | 1,444 | 221 | 98 | 146 | 782 | 1,360 | 2,993 | 1,527 | 3,837 | 18,375 | |
| | 7 | 5,055 | 2,423 | 943 | 398 | 348 | 568 | 1,313 | 1,595 | 2,559 | 2,247 | 17,449 | |
| | 8 | 4,051 | 1,954 | 1,032 | 969 | 1,301 | 1,618 | 1,259 | 934 | 610 | 1,066 | 14,795 | |
| | 9 | 2,264 | 1,079 | 1,106 | 632 | 1,112 | 827 | 1,167 | 745 | 556 | 459 | 9,947 | |
| | 10 | 2,887 | 2,084 | 1,192 | 509 | 696 | 589 | 289 | 151 | 63 | 26 | 8,486 | |
| | 11 | 1,122 | 1,886 | 1,054 | 1,602 | 1,081 | 562 | 300 | 176 | 120 | 36 | 7,941 | |
| | 12 | 619 | 1,060 | 528 | 594 | 474 | 248 | 165 | 62 | 42 | 38 | 3,831 | 95,142 |
| 2024 | 1 | 181 | 954 | 106 | 56 | 276 | 302 | 141 | 62 | 124 | 270 | 2,473 | |
| | 2 | 96 | 232 | 19 | 54 | 54 | 251 | 85 | 65 | 92 | 311 | 1,260 | |
| | 3 | 43 | 60 | 18 | 22 | 146 | 106 | 317 | 357 | 297 | 610 | 1,977 | |
| | 4 | 684 | 260 | 0 | 1 | 7 | 62 | 93 | 566 | 479 | 644 | 2,795 | |
| | 5 | 2,347 | 833 | 123 | 10 | 18 | 25 | 250 | 229 | 1,332 | 645 | 5,813 | |
| | 6 | 5,967 | 1,444 | 221 | 98 | 146 | 782 | 1,360 | 2,993 | 1,527 | 3,837 | 18,375 | |
| | 7 | 5,055 | 2,423 | 943 | 398 | 348 | 568 | 1,313 | 1,595 | 2,559 | 2,247 | 17,449 | |
| | 8 | 4,051 | 1,954 | 1,032 | 969 | 1,301 | 1,618 | 1,259 | 934 | 610 | 1,066 | 14,795 | |
| | 9 | 2,264 | 1,079 | 1,106 | 632 | 1,112 | 827 | 1,167 | 745 | 556 | 459 | 9,947 | |
| | 10 | 2,887 | 2,084 | 1,192 | 509 | 696 | 589 | 289 | 151 | 63 | 26 | 8,486 | |
| | 11 | 1,122 | 1,886 | 1,054 | 1,602 | 1,081 | 562 | 300 | 176 | 120 | 36 | 7,941 | |
| | 12 | 619 | 1,060 | 528 | 594 | 474 | 248 | 165 | 62 | 42 | 38 | 3,831 | 95,142 |

補足表 7-3-3. 1.00Fcurent で漁獲を継続した場合の資源尾数（百万尾）の将来予測

| 年 | 月＼月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|--------|-------|-------|-------|-------|-----|-----|-----|-----|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| | 2 | 4,534 | 2,081 | 968 | 1,480 | 460 | 726 | 169 | 68 | 30 | 65 | 10,581 | |
| | 3 | 5,205 | 1,729 | 1,159 | 719 | 1,141 | 360 | 565 | 134 | 53 | 67 | 11,131 | |
| | 4 | 17,965 | 2,783 | 1,119 | 861 | 556 | 890 | 282 | 441 | 89 | 68 | 25,054 | |
| | 5 | 43,585 | 3,989 | 1,566 | 838 | 671 | 444 | 719 | 225 | 330 | 88 | 52,456 | |
| | 6 | 104,424 | 5,239 | 1,590 | 1,118 | 650 | 534 | 360 | 573 | 172 | 254 | 114,914 | |
| | 7 | 86,559 | 6,833 | 1,820 | 1,094 | 843 | 490 | 335 | 188 | 249 | 126 | 98,537 | |
| | 8 | 68,580 | 5,955 | 1,540 | 998 | 743 | 607 | 311 | 147 | 52 | 65 | 78,997 | |
| | 9 | 50,336 | 4,982 | 1,626 | 735 | 540 | 344 | 255 | 106 | 48 | 22 | 58,994 | |
| | 10 | 63,944 | 8,306 | 2,113 | 783 | 411 | 243 | 161 | 78 | 16 | 3 | 76,059 | |
| | 11 | 32,533 | 6,339 | 2,906 | 1,122 | 484 | 205 | 123 | 102 | 51 | 10 | 43,874 | |
| | 12 | 18,028 | 6,485 | 1,433 | 1,731 | 483 | 200 | 92 | 72 | 69 | 40 | 28,634 | 612,197 |
| 2020 | 1 | 7,894 | 4,173 | 2,757 | 819 | 1,191 | 306 | 131 | 60 | 56 | 88 | 17,474 | |
| | 2 | 4,863 | 2,706 | 1,427 | 2,011 | 622 | 902 | 211 | 94 | 45 | 100 | 12,981 | |
| | 3 | 5,902 | 1,854 | 1,507 | 1,060 | 1,551 | 486 | 702 | 167 | 74 | 101 | 13,404 | |
| | 4 | 20,951 | 3,155 | 1,200 | 1,119 | 820 | 1,209 | 381 | 548 | 112 | 100 | 29,595 | |
| | 5 | 57,384 | 4,653 | 1,776 | 899 | 872 | 655 | 977 | 304 | 411 | 118 | 68,049 | |
| | 6 | 131,633 | 6,898 | 1,855 | 1,267 | 697 | 694 | 531 | 778 | 233 | 321 | 144,908 | |
| | 7 | 112,203 | 8,613 | 2,396 | 1,276 | 956 | 526 | 435 | 277 | 338 | 163 | 127,184 | |
| | 8 | 87,232 | 7,719 | 1,941 | 1,313 | 867 | 688 | 334 | 191 | 77 | 87 | 100,448 | |
| | 9 | 60,025 | 6,357 | 2,108 | 927 | 711 | 401 | 289 | 113 | 62 | 31 | 71,004 | |
| | 10 | 67,761 | 9,905 | 2,687 | 1,015 | 519 | 320 | 188 | 88 | 17 | 4 | 82,505 | |
| | 11 | 32,533 | 6,717 | 3,465 | 1,427 | 627 | 259 | 162 | 119 | 58 | 11 | 45,377 | |
| | 12 | 19,403 | 6,485 | 1,519 | 2,064 | 614 | 259 | 117 | 95 | 81 | 46 | 30,682 | 743,611 |
| 2021 | 1 | 7,894 | 4,491 | 2,757 | 868 | 1,420 | 389 | 170 | 75 | 73 | 101 | 18,239 | |
| | 2 | 4,863 | 2,706 | 1,536 | 2,011 | 659 | 1,076 | 269 | 122 | 57 | 121 | 13,420 | |
| | 3 | 5,902 | 1,854 | 1,507 | 1,141 | 1,551 | 515 | 837 | 212 | 96 | 125 | 13,740 | |
| | 4 | 20,951 | 3,155 | 1,200 | 1,119 | 882 | 1,209 | 403 | 654 | 142 | 126 | 29,842 | |
| | 5 | 57,384 | 4,653 | 1,776 | 899 | 872 | 705 | 977 | 323 | 490 | 149 | 68,227 | |
| | 6 | 131,633 | 6,898 | 1,855 | 1,267 | 697 | 694 | 572 | 778 | 246 | 388 | 145,029 | |
| | 7 | 112,203 | 8,613 | 2,396 | 1,276 | 956 | 526 | 435 | 298 | 338 | 187 | 127,229 | |
| | 8 | 90,389 | 7,719 | 1,941 | 1,313 | 867 | 688 | 334 | 191 | 82 | 91 | 103,615 | |
| | 9 | 60,726 | 6,576 | 2,108 | 927 | 711 | 401 | 289 | 113 | 62 | 32 | 71,936 | |
| | 10 | 67,761 | 10,021 | 2,785 | 1,015 | 519 | 320 | 188 | 88 | 17 | 4 | 82,718 | |
| | 11 | 32,533 | 6,717 | 3,507 | 1,478 | 627 | 259 | 162 | 119 | 58 | 11 | 45,469 | |
| | 12 | 19,403 | 6,485 | 1,519 | 2,088 | 636 | 259 | 117 | 95 | 81 | 46 | 30,729 | 750,192 |
| 2022 | 1 | 7,894 | 4,491 | 2,757 | 868 | 1,436 | 403 | 170 | 75 | 73 | 101 | 18,270 | |
| | 2 | 4,863 | 2,706 | 1,536 | 2,011 | 659 | 1,088 | 279 | 122 | 57 | 121 | 13,442 | |
| | 3 | 5,902 | 1,854 | 1,507 | 1,141 | 1,551 | 515 | 847 | 220 | 96 | 125 | 13,757 | |
| | 4 | 20,951 | 3,155 | 1,200 | 1,119 | 882 | 1,209 | 403 | 661 | 147 | 126 | 29,854 | |
| | 5 | 57,384 | 4,653 | 1,776 | 899 | 872 | 705 | 977 | 323 | 495 | 152 | 68,236 | |
| | 6 | 131,633 | 6,898 | 1,855 | 1,267 | 697 | 694 | 572 | 778 | 246 | 393 | 145,034 | |
| | 7 | 112,203 | 8,613 | 2,396 | 1,276 | 956 | 526 | 435 | 298 | 338 | 189 | 127,231 | |
| | 8 | 90,527 | 7,719 | 1,941 | 1,313 | 867 | 688 | 334 | 191 | 82 | 91 | 103,753 | |
| | 9 | 60,749 | 6,576 | 2,108 | 927 | 711 | 401 | 289 | 113 | 62 | 32 | 71,970 | |
| | 10 | 67,761 | 10,025 | 2,789 | 1,015 | 519 | 320 | 188 | 88 | 17 | 4 | 82,726 | |
| | 11 | 32,533 | 6,717 | 3,507 | 1,481 | 627 | 259 | 162 | 119 | 58 | 11 | 45,473 | |
| | 12 | 19,403 | 6,485 | 1,519 | 2,089 | 637 | 259 | 117 | 95 | 81 | 46 | 30,730 | 750,476 |
| 2023 | 1 | 7,894 | 4,491 | 2,757 | 868 | 1,437 | 404 | 170 | 75 | 73 | 101 | 18,271 | |
| | 2 | 4,863 | 2,706 | 1,536 | 2,011 | 659 | 1,089 | 279 | 122 | 57 | 121 | 13,443 | |
| | 3 | 5,902 | 1,854 | 1,507 | 1,141 | 1,551 | 515 | 847 | 220 | 96 | 125 | 13,758 | |
| | 4 | 20,951 | 3,155 | 1,200 | 1,119 | 882 | 1,209 | 403 | 662 | 147 | 126 | 29,855 | |
| | 5 | 57,384 | 4,653 | 1,776 | 899 | 872 | 705 | 977 | 323 | 495 | 152 | 68,236 | |
| | 6 | 131,633 | 6,898 | 1,855 | 1,267 | 697 | 694 | 572 | 778 | 246 | 393 | 145,034 | |
| | 7 | 112,203 | 8,613 | 2,396 | 1,276 | 956 | 526 | 435 | 298 | 338 | 189 | 127,231 | |
| | 8 | 90,532 | 7,719 | 1,941 | 1,313 | 867 | 688 | 334 | 191 | 82 | 91 | 103,758 | |
| | 9 | 60,750 | 6,576 | 2,108 | 927 | 711 | 401 | 289 | 113 | 62 | 32 | 71,971 | |
| | 10 | 67,761 | 10,025 | 2,789 | 1,015 | 519 | 320 | 188 | 88 | 17 | 4 | 82,726 | |
| | 11 | 32,533 | 6,717 | 3,507 | 1,481 | 627 | 259 | 162 | 119 | 58 | 11 | 45,473 | |
| | 12 | 19,403 | 6,485 | 1,519 | 2,089 | 637 | 259 | 117 | 95 | 81 | 46 | 30,730 | 750,487 |
| 2024 | 1 | 7,894 | 4,491 | 2,757 | 868 | 1,437 | 404 | 170 | 75 | 73 | 101 | 18,271 | |
| | 2 | 4,863 | 2,706 | 1,536 | 2,011 | 659 | 1,089 | 279 | 122 | 57 | 121 | 13,443 | |
| | 3 | 5,902 | 1,854 | 1,507 | 1,141 | 1,551 | 515 | 847 | 220 | 96 | 125 | 13,758 | |
| | 4 | 20,951 | 3,155 | 1,200 | 1,119 | 882 | 1,209 | 403 | 662 | 147 | 126 | 29,855 | |
| | 5 | 57,384 | 4,653 | 1,776 | 899 | 872 | 705 | 977 | 323 | 495 | 152 | 68,236 | |
| | 6 | 131,633 | 6,898 | 1,855 | 1,267 | 697 | 694 | 572 | 778 | 246 | 393 | 145,034 | |
| | 7 | 112,203 | 8,613 | 2,396 | 1,276 | 956 | 526 | 435 | 298 | 338 | 189 | 127,231 | |
| | 8 | 90,532 | 7,719 | 1,941 | 1,313 | 867 | 688 | 334 | 191 | 82 | 91 | 103,758 | |
| | 9 | 60,750 | 6,576 | 2,108 | 927 | 711 | 401 | 289 | 113 | 62 | 32 | 71,971 | |
| | 10 | 67,761 | 10,025 | 2,789 | 1,015 | 519 | 320 | 188 | 88 | 17 | 4 | 82,726 | |
| | 11 | 32,533 | 6,717 | 3,507 | 1,481 | 627 | 259 | 162 | 119 | 58 | 11 | 45,473 | |
| | 12 | 19,403 | 6,485 | 1,519 | 2,089 | 637 | 259 | 117 | 95 | 81 | 46 | 30,730 | 750,487 |

補足表 7-3-4. 1.00Fcurrent で漁獲を継続した場合の資源量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 1,028 | 1,641 | 4,051 | 1,831 | 3,886 | 1,188 | 593 | 313 | 1,054 | 15,876 | |
| | 3 | 333 | 854 | 1,965 | 1,967 | 4,541 | 1,927 | 3,969 | 1,166 | 550 | 1,085 | 18,357 | |
| | 4 | 1,150 | 1,375 | 1,898 | 2,356 | 2,211 | 4,761 | 1,979 | 3,849 | 924 | 1,113 | 21,616 | |
| | 5 | 2,789 | 1,971 | 2,656 | 2,294 | 2,669 | 2,376 | 5,052 | 1,965 | 3,417 | 1,431 | 26,621 | |
| | 6 | 6,683 | 2,588 | 2,697 | 3,059 | 2,588 | 2,858 | 2,529 | 4,995 | 1,780 | 4,136 | 33,914 | |
| | 7 | 5,540 | 3,375 | 3,086 | 2,996 | 3,356 | 2,623 | 2,351 | 1,637 | 2,574 | 2,047 | 29,586 | |
| | 8 | 4,389 | 2,942 | 2,611 | 2,730 | 2,957 | 3,246 | 2,185 | 1,280 | 536 | 1,057 | 23,933 | |
| | 9 | 3,222 | 2,461 | 2,758 | 2,013 | 2,150 | 1,842 | 1,788 | 923 | 492 | 355 | 18,003 | |
| | 10 | 4,092 | 4,103 | 3,583 | 2,143 | 1,637 | 1,299 | 1,134 | 678 | 164 | 53 | 18,886 | |
| | 11 | 2,082 | 3,131 | 4,928 | 3,070 | 1,924 | 1,099 | 862 | 887 | 530 | 160 | 18,674 | |
| | 12 | 1,154 | 3,204 | 2,431 | 4,737 | 1,921 | 1,068 | 649 | 630 | 718 | 658 | 17,171 | 256,973 |
| 2020 | 1 | 505 | 2,062 | 4,676 | 2,242 | 4,737 | 1,637 | 919 | 521 | 576 | 1,431 | 19,306 | |
| | 2 | 311 | 1,337 | 2,421 | 5,505 | 2,473 | 4,827 | 1,485 | 823 | 464 | 1,626 | 21,272 | |
| | 3 | 378 | 916 | 2,555 | 2,902 | 6,170 | 2,603 | 4,930 | 1,457 | 763 | 1,653 | 24,326 | |
| | 4 | 1,341 | 1,559 | 2,035 | 3,064 | 3,262 | 6,469 | 2,673 | 4,781 | 1,154 | 1,629 | 27,967 | |
| | 5 | 3,673 | 2,298 | 3,012 | 2,460 | 3,471 | 3,505 | 6,864 | 2,654 | 4,244 | 1,921 | 34,102 | |
| | 6 | 8,425 | 3,408 | 3,146 | 3,468 | 2,775 | 3,716 | 3,731 | 6,787 | 2,405 | 5,224 | 43,085 | |
| | 7 | 7,181 | 4,255 | 4,064 | 3,494 | 3,806 | 2,813 | 3,057 | 2,414 | 3,498 | 2,658 | 37,239 | |
| | 8 | 5,583 | 3,813 | 3,292 | 3,595 | 3,448 | 3,680 | 2,343 | 1,664 | 791 | 1,415 | 29,625 | |
| | 9 | 3,842 | 3,130 | 3,575 | 2,537 | 2,830 | 2,148 | 2,027 | 990 | 640 | 497 | 22,216 | |
| | 10 | 4,337 | 4,893 | 4,558 | 2,778 | 2,064 | 1,710 | 1,322 | 769 | 176 | 70 | 22,676 | |
| | 11 | 2,082 | 3,318 | 5,877 | 3,905 | 2,494 | 1,385 | 1,135 | 1,035 | 601 | 179 | 22,011 | |
| | 12 | 1,242 | 3,204 | 2,576 | 5,649 | 2,444 | 1,385 | 818 | 830 | 838 | 744 | 19,730 | 323,554 |
| 2021 | 1 | 505 | 2,219 | 4,676 | 2,376 | 5,649 | 2,083 | 1,191 | 656 | 758 | 1,650 | 21,763 | |
| | 2 | 311 | 1,337 | 2,606 | 5,505 | 2,621 | 5,757 | 1,888 | 1,067 | 585 | 1,978 | 23,654 | |
| | 3 | 378 | 916 | 2,555 | 3,123 | 6,170 | 2,758 | 5,879 | 1,853 | 990 | 2,034 | 26,655 | |
| | 4 | 1,341 | 1,559 | 2,035 | 3,064 | 3,511 | 6,469 | 2,833 | 5,701 | 1,468 | 2,049 | 30,030 | |
| | 5 | 3,673 | 2,298 | 3,012 | 2,460 | 3,471 | 3,773 | 6,864 | 2,813 | 5,061 | 2,431 | 35,855 | |
| | 6 | 8,425 | 3,408 | 3,146 | 3,468 | 2,775 | 3,716 | 4,016 | 6,787 | 2,548 | 6,315 | 44,603 | |
| | 7 | 7,181 | 4,255 | 4,064 | 3,494 | 3,806 | 2,813 | 3,057 | 2,599 | 3,498 | 3,046 | 37,812 | |
| | 8 | 5,785 | 3,813 | 3,292 | 3,595 | 3,448 | 3,680 | 2,343 | 1,664 | 851 | 1,483 | 29,955 | |
| | 9 | 3,888 | 3,244 | 3,575 | 2,537 | 2,830 | 2,148 | 2,027 | 990 | 640 | 527 | 22,405 | |
| | 10 | 4,337 | 4,950 | 4,723 | 2,778 | 2,064 | 1,710 | 1,322 | 769 | 176 | 72 | 22,899 | |
| | 11 | 2,082 | 3,318 | 5,946 | 4,046 | 2,494 | 1,385 | 1,135 | 1,035 | 601 | 179 | 22,221 | |
| | 12 | 1,242 | 3,204 | 2,576 | 5,715 | 2,533 | 1,385 | 818 | 830 | 838 | 745 | 19,885 | 337,736 |
| 2022 | 1 | 505 | 2,219 | 4,676 | 2,376 | 5,715 | 2,158 | 1,191 | 656 | 758 | 1,651 | 21,905 | |
| | 2 | 311 | 1,337 | 2,606 | 5,505 | 2,621 | 5,824 | 1,957 | 1,067 | 585 | 1,979 | 23,790 | |
| | 3 | 378 | 916 | 2,555 | 3,123 | 6,170 | 2,758 | 5,947 | 1,920 | 990 | 2,034 | 26,791 | |
| | 4 | 1,341 | 1,559 | 2,035 | 3,064 | 3,511 | 6,469 | 2,833 | 5,768 | 1,521 | 2,049 | 30,149 | |
| | 5 | 3,673 | 2,298 | 3,012 | 2,460 | 3,471 | 3,773 | 6,864 | 2,813 | 5,122 | 2,477 | 35,961 | |
| | 6 | 8,425 | 3,408 | 3,146 | 3,468 | 2,775 | 3,716 | 4,016 | 6,787 | 2,548 | 6,400 | 44,688 | |
| | 7 | 7,181 | 4,255 | 4,064 | 3,494 | 3,806 | 2,813 | 3,057 | 2,599 | 3,498 | 3,071 | 37,837 | |
| | 8 | 5,794 | 3,813 | 3,292 | 3,595 | 3,448 | 3,680 | 2,343 | 1,664 | 851 | 1,487 | 29,968 | |
| | 9 | 3,888 | 3,249 | 3,575 | 2,537 | 2,830 | 2,148 | 2,027 | 990 | 640 | 528 | 22,412 | |
| | 10 | 4,337 | 4,952 | 4,730 | 2,778 | 2,064 | 1,710 | 1,322 | 769 | 176 | 72 | 22,909 | |
| | 11 | 2,082 | 3,318 | 5,948 | 4,053 | 2,494 | 1,385 | 1,135 | 1,035 | 601 | 179 | 22,230 | |
| | 12 | 1,242 | 3,204 | 2,576 | 5,718 | 2,537 | 1,385 | 818 | 830 | 838 | 745 | 19,891 | 338,529 |
| 2023 | 1 | 505 | 2,219 | 4,676 | 2,376 | 5,717 | 2,161 | 1,191 | 656 | 758 | 1,651 | 21,911 | |
| | 2 | 311 | 1,337 | 2,606 | 5,505 | 2,621 | 5,826 | 1,960 | 1,067 | 585 | 1,979 | 23,795 | |
| | 3 | 378 | 916 | 2,555 | 3,123 | 6,170 | 2,758 | 5,950 | 1,923 | 990 | 2,034 | 26,796 | |
| | 4 | 1,341 | 1,559 | 2,035 | 3,064 | 3,511 | 6,469 | 2,833 | 5,770 | 1,523 | 2,049 | 30,154 | |
| | 5 | 3,673 | 2,298 | 3,012 | 2,460 | 3,471 | 3,773 | 6,864 | 2,813 | 5,122 | 2,479 | 35,965 | |
| | 6 | 8,425 | 3,408 | 3,146 | 3,468 | 2,775 | 3,716 | 4,016 | 6,787 | 2,548 | 6,403 | 44,691 | |
| | 7 | 7,181 | 4,255 | 4,064 | 3,494 | 3,806 | 2,813 | 3,057 | 2,599 | 3,498 | 3,072 | 37,838 | |
| | 8 | 5,794 | 3,813 | 3,292 | 3,595 | 3,448 | 3,680 | 2,343 | 1,664 | 851 | 1,487 | 29,968 | |
| | 9 | 3,888 | 3,249 | 3,575 | 2,537 | 2,830 | 2,148 | 2,027 | 990 | 640 | 528 | 22,412 | |
| | 10 | 4,337 | 4,952 | 4,730 | 2,778 | 2,064 | 1,710 | 1,322 | 769 | 176 | 72 | 22,909 | |
| | 11 | 2,082 | 3,318 | 5,948 | 4,053 | 2,494 | 1,385 | 1,135 | 1,035 | 601 | 179 | 22,230 | |
| | 12 | 1,242 | 3,204 | 2,576 | 5,718 | 2,537 | 1,385 | 818 | 830 | 838 | 745 | 19,891 | 338,560 |
| 2024 | 1 | 505 | 2,219 | 4,676 | 2,376 | 5,718 | 2,161 | 1,191 | 656 | 758 | 1,651 | 21,911 | |
| | 2 | 311 | 1,337 | 2,606 | 5,505 | 2,621 | 5,826 | 1,960 | 1,067 | 585 | 1,979 | 23,795 | |
| | 3 | 378 | 916 | 2,555 | 3,123 | 6,170 | 2,758 | 5,950 | 1,923 | 990 | 2,034 | 26,796 | |
| | 4 | 1,341 | 1,559 | 2,035 | 3,064 | 3,511 | 6,469 | 2,833 | 5,770 | 1,524 | 2,049 | 30,154 | |
| | 5 | 3,673 | 2,298 | 3,012 | 2,460 | 3,471 | 3,773 | 6,864 | 2,813 | 5,122 | 2,479 | 35,965 | |
| | 6 | 8,425 | 3,408 | 3,146 | 3,468 | 2,775 | 3,716 | 4,016 | 6,787 | 2,548 | 6,403 | 44,691 | |
| | 7 | 7,181 | 4,255 | 4,064 | 3,494 | 3,806 | 2,813 | 3,057 | 2,599 | 3,498 | 3,072 | 37,838 | |
| | 8 | 5,794 | 3,813 | 3,292 | 3,595 | 3,448 | 3,680 | 2,343 | 1,664 | 851 | 1,487 | 29,968 | |
| | 9 | 3,888 | 3,249 | 3,575 | 2,537 | 2,830 | 2,148 | 2,027 | 990 | 640 | 528 | 22,412 | |
| | 10 | 4,337 | 4,952 | 4,730 | 2,778 | | | | | | | | |

補足表 7-4-1. Fsus で漁獲を継続した場合の漁獲尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|--------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 2,278 | 1,272 | 49 | 15 | 49 | 36 | 12 | 4 | 6 | 10 | 3,732 | |
| | 2 | 1,473 | 368 | 7 | 15 | 10 | 33 | 8 | 4 | 5 | 11 | 1,935 | |
| | 3 | 632 | 118 | 8 | 5 | 29 | 15 | 32 | 26 | 17 | 21 | 901 | |
| | 4 | 9,431 | 484 | 0 | 0 | 1 | 9 | 10 | 46 | 29 | 22 | 10,030 | |
| | 5 | 28,088 | 1,403 | 66 | 3 | 4 | 3 | 28 | 19 | 89 | 23 | 29,726 | |
| | 6 | 73,318 | 2,041 | 106 | 32 | 35 | 112 | 122 | 262 | 105 | 150 | 76,284 | |
| | 7 | 59,887 | 3,365 | 374 | 117 | 79 | 100 | 140 | 110 | 177 | 85 | 64,434 | |
| | 8 | 45,680 | 2,635 | 393 | 233 | 258 | 267 | 164 | 76 | 33 | 40 | 49,778 | |
| | 9 | 27,461 | 1,406 | 413 | 145 | 178 | 117 | 139 | 72 | 35 | 15 | 29,981 | |
| | 10 | 37,182 | 3,033 | 439 | 115 | 107 | 68 | 30 | 14 | 5 | 1 | 40,993 | |
| | 11 | 15,779 | 2,810 | 432 | 355 | 163 | 62 | 26 | 15 | 9 | 2 | 19,652 | |
| | 12 | 7,080 | 1,815 | 217 | 149 | 70 | 27 | 13 | 4 | 3 | 2 | 9,381 | 336,827 |
| 2020 | 1 | 2,386 | 1,331 | 52 | 14 | 47 | 33 | 12 | 4 | 7 | 12 | 3,897 | |
| | 2 | 1,480 | 386 | 7 | 16 | 9 | 32 | 7 | 4 | 5 | 13 | 1,959 | |
| | 3 | 619 | 118 | 9 | 5 | 30 | 14 | 31 | 23 | 16 | 23 | 888 | |
| | 4 | 9,307 | 474 | 0 | 0 | 1 | 10 | 9 | 44 | 26 | 23 | 9,893 | |
| | 5 | 27,932 | 1,384 | 65 | 3 | 4 | 3 | 29 | 18 | 85 | 22 | 29,547 | |
| | 6 | 73,722 | 2,029 | 104 | 32 | 35 | 118 | 128 | 277 | 97 | 144 | 76,687 | |
| | 7 | 60,606 | 3,384 | 372 | 116 | 77 | 101 | 146 | 115 | 187 | 80 | 65,184 | |
| | 8 | 46,361 | 2,667 | 395 | 231 | 254 | 261 | 164 | 80 | 34 | 41 | 50,489 | |
| | 9 | 27,560 | 1,427 | 417 | 146 | 177 | 116 | 136 | 72 | 36 | 15 | 30,103 | |
| | 10 | 37,022 | 3,044 | 446 | 116 | 108 | 67 | 30 | 13 | 5 | 1 | 40,851 | |
| | 11 | 15,665 | 2,798 | 433 | 360 | 165 | 62 | 25 | 14 | 9 | 2 | 19,534 | |
| | 12 | 7,064 | 1,802 | 216 | 149 | 71 | 27 | 14 | 4 | 3 | 2 | 9,351 | 338,383 |
| 2021 | 1 | 2,388 | 1,327 | 51 | 14 | 47 | 33 | 12 | 4 | 7 | 12 | 3,896 | |
| | 2 | 1,483 | 386 | 7 | 16 | 9 | 32 | 7 | 4 | 5 | 12 | 1,962 | |
| | 3 | 620 | 118 | 9 | 5 | 30 | 13 | 31 | 24 | 16 | 23 | 890 | |
| | 4 | 9,308 | 475 | 0 | 0 | 1 | 9 | 9 | 44 | 26 | 23 | 9,896 | |
| | 5 | 27,904 | 1,385 | 65 | 3 | 4 | 3 | 29 | 18 | 86 | 22 | 29,518 | |
| | 6 | 73,596 | 2,027 | 104 | 32 | 35 | 118 | 127 | 275 | 97 | 145 | 76,556 | |
| | 7 | 60,502 | 3,378 | 372 | 116 | 78 | 101 | 146 | 115 | 186 | 80 | 65,072 | |
| | 8 | 46,320 | 2,662 | 395 | 231 | 254 | 262 | 165 | 80 | 34 | 41 | 50,443 | |
| | 9 | 27,579 | 1,426 | 417 | 146 | 177 | 116 | 136 | 73 | 36 | 15 | 30,120 | |
| | 10 | 37,050 | 3,046 | 445 | 116 | 107 | 67 | 30 | 14 | 5 | 1 | 40,881 | |
| | 11 | 15,664 | 2,800 | 434 | 359 | 165 | 62 | 25 | 14 | 9 | 2 | 19,535 | |
| | 12 | 7,060 | 1,802 | 216 | 150 | 71 | 27 | 14 | 4 | 3 | 2 | 9,348 | 338,117 |
| 2022 | 1 | 2,387 | 1,327 | 51 | 14 | 48 | 33 | 12 | 4 | 7 | 12 | 3,894 | |
| | 2 | 1,483 | 386 | 7 | 16 | 9 | 32 | 7 | 4 | 5 | 12 | 1,962 | |
| | 3 | 620 | 118 | 9 | 5 | 30 | 14 | 31 | 24 | 16 | 23 | 890 | |
| | 4 | 9,309 | 475 | 0 | 0 | 1 | 9 | 9 | 44 | 26 | 23 | 9,897 | |
| | 5 | 27,906 | 1,385 | 65 | 3 | 4 | 3 | 29 | 18 | 86 | 22 | 29,521 | |
| | 6 | 73,598 | 2,027 | 104 | 32 | 35 | 118 | 127 | 275 | 97 | 145 | 76,558 | |
| | 7 | 60,501 | 3,378 | 372 | 116 | 78 | 101 | 146 | 115 | 186 | 80 | 65,072 | |
| | 8 | 46,315 | 2,662 | 395 | 231 | 254 | 262 | 165 | 80 | 34 | 41 | 50,438 | |
| | 9 | 27,577 | 1,425 | 417 | 146 | 177 | 116 | 136 | 73 | 36 | 15 | 30,118 | |
| | 10 | 37,050 | 3,046 | 445 | 116 | 107 | 67 | 30 | 14 | 5 | 1 | 40,881 | |
| | 11 | 15,665 | 2,800 | 434 | 359 | 165 | 62 | 25 | 14 | 9 | 2 | 19,536 | |
| | 12 | 7,060 | 1,802 | 216 | 150 | 71 | 27 | 14 | 4 | 3 | 2 | 9,348 | 338,115 |
| 2023 | 1 | 2,387 | 1,327 | 51 | 14 | 47 | 33 | 12 | 4 | 7 | 12 | 3,894 | |
| | 2 | 1,483 | 386 | 7 | 16 | 9 | 32 | 7 | 4 | 5 | 12 | 1,962 | |
| | 3 | 620 | 118 | 9 | 5 | 30 | 14 | 31 | 24 | 16 | 23 | 890 | |
| | 4 | 9,309 | 475 | 0 | 0 | 1 | 9 | 9 | 44 | 26 | 23 | 9,897 | |
| | 5 | 27,906 | 1,385 | 65 | 3 | 4 | 3 | 29 | 18 | 86 | 22 | 29,521 | |
| | 6 | 73,598 | 2,027 | 104 | 32 | 35 | 118 | 127 | 275 | 97 | 145 | 76,559 | |
| | 7 | 60,502 | 3,378 | 372 | 116 | 78 | 101 | 146 | 115 | 186 | 80 | 65,072 | |
| | 8 | 46,315 | 2,662 | 395 | 231 | 254 | 262 | 165 | 80 | 34 | 41 | 50,439 | |
| | 9 | 27,577 | 1,425 | 417 | 146 | 177 | 116 | 136 | 73 | 36 | 15 | 30,118 | |
| | 10 | 37,050 | 3,046 | 445 | 116 | 107 | 67 | 30 | 14 | 5 | 1 | 40,880 | |
| | 11 | 15,665 | 2,800 | 434 | 359 | 165 | 62 | 25 | 14 | 9 | 2 | 19,536 | |
| | 12 | 7,060 | 1,802 | 216 | 150 | 71 | 27 | 14 | 4 | 3 | 2 | 9,348 | 338,116 |
| 2024 | 1 | 2,387 | 1,327 | 51 | 14 | 47 | 33 | 12 | 4 | 7 | 12 | 3,894 | |
| | 2 | 1,483 | 386 | 7 | 16 | 9 | 32 | 7 | 4 | 5 | 12 | 1,962 | |
| | 3 | 620 | 118 | 9 | 5 | 30 | 14 | 31 | 24 | 16 | 23 | 890 | |
| | 4 | 9,309 | 475 | 0 | 0 | 1 | 9 | 9 | 44 | 26 | 23 | 9,897 | |
| | 5 | 27,906 | 1,385 | 65 | 3 | 4 | 3 | 29 | 18 | 86 | 22 | 29,521 | |
| | 6 | 73,598 | 2,027 | 104 | 32 | 35 | 118 | 127 | 275 | 97 | 145 | 76,559 | |
| | 7 | 60,502 | 3,378 | 372 | 116 | 78 | 101 | 146 | 115 | 186 | 80 | 65,072 | |
| | 8 | 46,315 | 2,662 | 395 | 231 | 254 | 262 | 165 | 80 | 34 | 41 | 50,439 | |
| | 9 | 27,577 | 1,425 | 417 | 146 | 177 | 116 | 136 | 73 | 36 | 15 | 30,118 | |
| | 10 | 37,050 | 3,046 | 445 | 116 | 107 | 67 | 30 | 14 | 5 | 1 | 40,880 | |
| | 11 | 15,665 | 2,800 | 434 | 359 | 165 | 62 | 25 | 14 | 9 | 2 | 19,536 | |
| | 12 | 7,060 | 1,802 | 216 | 150 | 71 | 27 | 14 | 4 | 3 | 2 | 9,348 | 338,116 |

補足表 7-4-2. Fsus で漁獲を継続した場合の漁獲量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|--------|--------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 146 | 628 | 83 | 42 | 196 | 194 | 84 | 35 | 61 | 167 | 1,637 | |
| | 2 | 94 | 182 | 12 | 42 | 40 | 178 | 54 | 38 | 52 | 174 | 867 | |
| | 3 | 40 | 58 | 14 | 14 | 115 | 78 | 224 | 226 | 172 | 335 | 1,277 | |
| | 4 | 604 | 239 | 0 | 1 | 5 | 48 | 69 | 397 | 297 | 352 | 2,011 | |
| | 5 | 1,798 | 693 | 112 | 9 | 14 | 16 | 195 | 169 | 922 | 368 | 4,297 | |
| | 6 | 4,692 | 1,008 | 180 | 89 | 140 | 601 | 857 | 2,289 | 1,090 | 2,442 | 13,387 | |
| | 7 | 3,833 | 1,662 | 634 | 321 | 314 | 537 | 981 | 958 | 1,834 | 1,378 | 12,452 | |
| | 8 | 2,924 | 1,302 | 667 | 637 | 1,026 | 1,428 | 1,150 | 663 | 337 | 651 | 10,783 | |
| | 9 | 1,758 | 694 | 700 | 397 | 709 | 628 | 975 | 629 | 359 | 237 | 7,086 | |
| | 10 | 2,380 | 1,498 | 745 | 315 | 426 | 362 | 213 | 120 | 49 | 13 | 6,120 | |
| | 11 | 1,010 | 1,388 | 732 | 970 | 649 | 332 | 179 | 127 | 94 | 25 | 5,508 | |
| | 12 | 453 | 897 | 368 | 408 | 279 | 144 | 94 | 36 | 30 | 29 | 2,738 | 68,163 |
| 2020 | 1 | 153 | 657 | 88 | 38 | 188 | 175 | 81 | 35 | 72 | 197 | 1,685 | |
| | 2 | 95 | 190 | 13 | 45 | 37 | 171 | 49 | 37 | 51 | 205 | 893 | |
| | 3 | 40 | 58 | 15 | 15 | 121 | 73 | 214 | 204 | 167 | 375 | 1,281 | |
| | 4 | 596 | 234 | 0 | 1 | 5 | 51 | 64 | 381 | 267 | 371 | 1,968 | |
| | 5 | 1,788 | 684 | 110 | 9 | 15 | 17 | 206 | 156 | 884 | 356 | 4,224 | |
| | 6 | 4,718 | 1,002 | 177 | 87 | 140 | 630 | 896 | 2,416 | 1,007 | 2,344 | 13,418 | |
| | 7 | 3,879 | 1,672 | 631 | 317 | 308 | 539 | 1,027 | 1,002 | 1,935 | 1,303 | 12,612 | |
| | 8 | 2,967 | 1,318 | 670 | 633 | 1,012 | 1,398 | 1,154 | 694 | 353 | 664 | 10,863 | |
| | 9 | 1,764 | 705 | 708 | 400 | 705 | 620 | 955 | 632 | 376 | 245 | 7,108 | |
| | 10 | 2,369 | 1,504 | 756 | 318 | 428 | 360 | 210 | 118 | 49 | 14 | 6,126 | |
| | 11 | 1,003 | 1,382 | 735 | 985 | 657 | 334 | 178 | 126 | 92 | 25 | 5,517 | |
| | 12 | 452 | 890 | 366 | 409 | 283 | 146 | 95 | 36 | 30 | 28 | 2,736 | 68,432 |
| 2021 | 1 | 153 | 656 | 87 | 38 | 189 | 177 | 82 | 35 | 72 | 194 | 1,684 | |
| | 2 | 95 | 191 | 13 | 44 | 37 | 171 | 49 | 38 | 52 | 203 | 892 | |
| | 3 | 40 | 58 | 15 | 15 | 120 | 72 | 215 | 207 | 169 | 373 | 1,283 | |
| | 4 | 596 | 234 | 0 | 1 | 5 | 51 | 63 | 382 | 271 | 371 | 1,974 | |
| | 5 | 1,786 | 684 | 110 | 10 | 15 | 17 | 205 | 155 | 887 | 359 | 4,227 | |
| | 6 | 4,710 | 1,001 | 177 | 87 | 140 | 630 | 894 | 2,398 | 1,003 | 2,355 | 13,397 | |
| | 7 | 3,872 | 1,669 | 630 | 317 | 308 | 540 | 1,028 | 1,000 | 1,921 | 1,304 | 12,589 | |
| | 8 | 2,964 | 1,315 | 669 | 633 | 1,013 | 1,401 | 1,157 | 695 | 352 | 661 | 10,859 | |
| | 9 | 1,765 | 704 | 707 | 399 | 704 | 620 | 957 | 633 | 376 | 244 | 7,109 | |
| | 10 | 2,371 | 1,505 | 755 | 318 | 428 | 359 | 210 | 118 | 49 | 14 | 6,127 | |
| | 11 | 1,002 | 1,383 | 735 | 984 | 656 | 333 | 178 | 126 | 93 | 25 | 5,516 | |
| | 12 | 452 | 890 | 367 | 409 | 283 | 146 | 95 | 36 | 30 | 28 | 2,735 | 68,393 |
| 2022 | 1 | 153 | 655 | 87 | 38 | 189 | 177 | 82 | 35 | 72 | 194 | 1,683 | |
| | 2 | 95 | 191 | 13 | 44 | 37 | 172 | 49 | 38 | 52 | 203 | 892 | |
| | 3 | 40 | 58 | 15 | 15 | 120 | 72 | 215 | 207 | 168 | 373 | 1,283 | |
| | 4 | 596 | 235 | 0 | 1 | 5 | 51 | 63 | 382 | 271 | 371 | 1,974 | |
| | 5 | 1,786 | 684 | 110 | 10 | 15 | 17 | 205 | 155 | 887 | 358 | 4,227 | |
| | 6 | 4,710 | 1,001 | 177 | 87 | 140 | 630 | 893 | 2,398 | 1,004 | 2,356 | 13,398 | |
| | 7 | 3,872 | 1,669 | 630 | 317 | 308 | 540 | 1,028 | 999 | 1,921 | 1,305 | 12,589 | |
| | 8 | 2,964 | 1,315 | 669 | 633 | 1,013 | 1,401 | 1,157 | 694 | 352 | 661 | 10,859 | |
| | 9 | 1,765 | 704 | 707 | 399 | 704 | 620 | 957 | 633 | 376 | 244 | 7,109 | |
| | 10 | 2,371 | 1,505 | 755 | 318 | 428 | 359 | 210 | 118 | 49 | 14 | 6,127 | |
| | 11 | 1,003 | 1,383 | 735 | 984 | 656 | 333 | 178 | 126 | 93 | 25 | 5,516 | |
| | 12 | 452 | 890 | 367 | 409 | 283 | 146 | 95 | 36 | 30 | 28 | 2,735 | 68,392 |
| 2023 | 1 | 153 | 655 | 87 | 38 | 189 | 177 | 82 | 35 | 72 | 194 | 1,683 | |
| | 2 | 95 | 191 | 13 | 44 | 37 | 172 | 49 | 38 | 52 | 203 | 892 | |
| | 3 | 40 | 58 | 15 | 15 | 120 | 72 | 215 | 207 | 168 | 373 | 1,283 | |
| | 4 | 596 | 234 | 0 | 1 | 5 | 51 | 63 | 382 | 271 | 371 | 1,974 | |
| | 5 | 1,786 | 684 | 110 | 10 | 15 | 17 | 205 | 155 | 887 | 358 | 4,227 | |
| | 6 | 4,710 | 1,001 | 177 | 87 | 140 | 630 | 893 | 2,398 | 1,004 | 2,356 | 13,398 | |
| | 7 | 3,872 | 1,669 | 630 | 317 | 308 | 540 | 1,028 | 999 | 1,921 | 1,305 | 12,589 | |
| | 8 | 2,964 | 1,315 | 669 | 633 | 1,013 | 1,401 | 1,157 | 694 | 352 | 661 | 10,859 | |
| | 9 | 1,765 | 704 | 707 | 399 | 704 | 620 | 957 | 633 | 376 | 244 | 7,109 | |
| | 10 | 2,371 | 1,505 | 755 | 318 | 428 | 359 | 210 | 118 | 49 | 14 | 6,127 | |
| | 11 | 1,003 | 1,383 | 735 | 984 | 656 | 333 | 178 | 126 | 93 | 25 | 5,516 | |
| | 12 | 452 | 890 | 367 | 409 | 283 | 146 | 95 | 36 | 30 | 28 | 2,735 | 68,392 |
| 2024 | 1 | 153 | 655 | 87 | 38 | 189 | 177 | 82 | 35 | 72 | 194 | 1,683 | |
| | 2 | 95 | 191 | 13 | 44 | 37 | 172 | 49 | 38 | 52 | 203 | 892 | |
| | 3 | 40 | 58 | 15 | 15 | 120 | 72 | 215 | 207 | 168 | 373 | 1,283 | |
| | 4 | 596 | 234 | 0 | 1 | 5 | 51 | 63 | 382 | 271 | 371 | 1,974 | |
| | 5 | 1,786 | 684 | 110 | 10 | 15 | 17 | 205 | 155 | 887 | 358 | 4,227 | |
| | 6 | 4,710 | 1,001 | 177 | 87 | 140 | 630 | 893 | 2,398 | 1,004 | 2,356 | 13,398 | |
| | 7 | 3,872 | 1,669 | 630 | 317 | 308 | 540 | 1,028 | 999 | 1,921 | 1,305 | 12,589 | |
| | 8 | 2,964 | 1,315 | 669 | 633 | 1,013 | 1,401 | 1,157 | 694 | 352 | 661 | 10,859 | |
| | 9 | 1,765 | 704 | 707 | 399 | 704 | 620 | 957 | 633 | 376 | 244 | 7,109 | |
| | 10 | 2,371 | 1,505 | 755 | 318 | 428 | 359 | 210 | 118 | 49 | 14 | 6,127 | |
| | 11 | 1,003 | 1,383 | 735 | 984 | 656 | 333 | 178 | 126 | 93 | 25 | 5,516 | |
| | 12 | 452 | 890 | 367 | 409 | 283 | 146 | 95 | 36 | 30 | 28 | 2,735 | 68,392 |

補足表 7-4-3. Fsus で漁獲を継続した場合の資源尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|---------|-------|-------|-------|-------|-----|-----|-----|-----|-----|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| | 2 | 4,534 | 1,997 | 921 | 1,478 | 459 | 723 | 167 | 67 | 30 | 64 | 10,441 | |
| | 3 | 5,170 | 1,671 | 1,094 | 684 | 1,138 | 359 | 561 | 132 | 52 | 65 | 10,927 | |
| | 4 | 17,813 | 2,735 | 1,076 | 813 | 528 | 886 | 280 | 436 | 87 | 65 | 24,718 | |
| | 5 | 42,869 | 3,685 | 1,516 | 806 | 633 | 422 | 716 | 223 | 324 | 82 | 51,276 | |
| | 6 | 101,818 | 4,603 | 1,413 | 1,078 | 625 | 504 | 342 | 568 | 170 | 241 | 111,362 | |
| | 7 | 83,620 | 5,708 | 1,524 | 967 | 812 | 469 | 310 | 173 | 236 | 113 | 93,931 | |
| | 8 | 64,183 | 4,946 | 1,190 | 818 | 650 | 580 | 293 | 130 | 44 | 54 | 72,888 | |
| | 9 | 45,729 | 4,024 | 1,266 | 551 | 432 | 290 | 232 | 94 | 40 | 17 | 52,674 | |
| | 10 | 54,641 | 6,888 | 1,648 | 591 | 301 | 186 | 131 | 66 | 12 | 2 | 64,469 | |
| | 11 | 28,282 | 4,775 | 2,298 | 855 | 360 | 146 | 91 | 81 | 43 | 7 | 36,937 | |
| | 12 | 13,681 | 5,213 | 999 | 1,347 | 353 | 142 | 63 | 52 | 55 | 33 | 21,938 | 564,528 |
| 2020 | 1 | 6,361 | 2,959 | 2,142 | 560 | 919 | 220 | 92 | 40 | 40 | 69 | 13,402 | |
| | 2 | 4,553 | 2,092 | 963 | 1,559 | 425 | 694 | 150 | 65 | 30 | 75 | 10,607 | |
| | 3 | 5,062 | 1,678 | 1,147 | 715 | 1,201 | 332 | 538 | 118 | 51 | 73 | 10,915 | |
| | 4 | 17,579 | 2,677 | 1,080 | 851 | 553 | 935 | 259 | 418 | 78 | 69 | 24,499 | |
| | 5 | 42,631 | 3,637 | 1,484 | 809 | 663 | 442 | 755 | 206 | 311 | 79 | 51,017 | |
| | 6 | 102,380 | 4,577 | 1,395 | 1,056 | 628 | 528 | 358 | 600 | 157 | 232 | 111,909 | |
| | 7 | 84,624 | 5,740 | 1,515 | 954 | 795 | 471 | 325 | 181 | 249 | 107 | 94,961 | |
| | 8 | 65,140 | 5,006 | 1,197 | 813 | 642 | 567 | 294 | 136 | 46 | 55 | 73,897 | |
| | 9 | 45,894 | 4,084 | 1,281 | 554 | 429 | 286 | 228 | 94 | 41 | 17 | 52,909 | |
| | 10 | 54,405 | 6,913 | 1,673 | 598 | 303 | 185 | 129 | 65 | 13 | 2 | 64,287 | |
| | 11 | 28,077 | 4,754 | 2,306 | 868 | 364 | 146 | 91 | 80 | 42 | 7 | 36,735 | |
| | 12 | 13,648 | 5,176 | 995 | 1,352 | 359 | 144 | 63 | 52 | 54 | 32 | 21,874 | 567,011 |
| 2021 | 1 | 6,365 | 2,951 | 2,126 | 558 | 922 | 224 | 93 | 40 | 40 | 68 | 13,388 | |
| | 2 | 4,563 | 2,094 | 961 | 1,548 | 423 | 696 | 153 | 66 | 30 | 74 | 10,608 | |
| | 3 | 5,074 | 1,682 | 1,147 | 713 | 1,193 | 330 | 540 | 120 | 52 | 72 | 10,923 | |
| | 4 | 17,582 | 2,684 | 1,082 | 852 | 551 | 928 | 258 | 420 | 79 | 69 | 24,505 | |
| | 5 | 42,587 | 3,637 | 1,488 | 811 | 664 | 440 | 750 | 206 | 312 | 80 | 50,974 | |
| | 6 | 102,204 | 4,573 | 1,395 | 1,058 | 629 | 528 | 357 | 595 | 156 | 233 | 111,728 | |
| | 7 | 84,479 | 5,730 | 1,514 | 954 | 797 | 472 | 325 | 180 | 247 | 107 | 94,805 | |
| | 8 | 65,082 | 4,997 | 1,195 | 812 | 642 | 569 | 294 | 136 | 46 | 55 | 73,829 | |
| | 9 | 45,925 | 4,080 | 1,279 | 553 | 429 | 286 | 228 | 94 | 41 | 17 | 52,934 | |
| | 10 | 54,446 | 6,918 | 1,672 | 597 | 303 | 185 | 129 | 65 | 13 | 2 | 64,330 | |
| | 11 | 28,075 | 4,758 | 2,307 | 867 | 363 | 146 | 91 | 80 | 42 | 7 | 36,737 | |
| | 12 | 13,641 | 5,175 | 995 | 1,353 | 358 | 143 | 63 | 52 | 54 | 32 | 21,867 | 566,628 |
| 2022 | 1 | 6,362 | 2,950 | 2,126 | 558 | 923 | 223 | 92 | 40 | 40 | 69 | 13,384 | |
| | 2 | 4,562 | 2,092 | 961 | 1,548 | 423 | 697 | 153 | 66 | 30 | 74 | 10,606 | |
| | 3 | 5,074 | 1,682 | 1,147 | 713 | 1,192 | 331 | 540 | 120 | 51 | 72 | 10,923 | |
| | 4 | 17,584 | 2,684 | 1,082 | 852 | 551 | 928 | 258 | 420 | 79 | 69 | 24,507 | |
| | 5 | 42,591 | 3,638 | 1,488 | 811 | 664 | 440 | 750 | 206 | 312 | 80 | 50,978 | |
| | 6 | 102,207 | 4,573 | 1,395 | 1,058 | 629 | 528 | 357 | 595 | 156 | 233 | 111,731 | |
| | 7 | 84,477 | 5,730 | 1,514 | 954 | 797 | 472 | 325 | 180 | 247 | 107 | 94,804 | |
| | 8 | 65,075 | 4,997 | 1,195 | 812 | 642 | 569 | 294 | 136 | 46 | 55 | 73,822 | |
| | 9 | 45,922 | 4,079 | 1,279 | 553 | 429 | 286 | 228 | 94 | 41 | 17 | 52,930 | |
| | 10 | 54,446 | 6,918 | 1,671 | 597 | 303 | 185 | 129 | 65 | 13 | 2 | 64,330 | |
| | 11 | 28,077 | 4,758 | 2,307 | 867 | 363 | 146 | 91 | 80 | 42 | 7 | 36,739 | |
| | 12 | 13,641 | 5,176 | 995 | 1,353 | 358 | 143 | 63 | 52 | 54 | 32 | 21,868 | 566,622 |
| 2023 | 1 | 6,362 | 2,950 | 2,126 | 559 | 923 | 223 | 92 | 40 | 40 | 69 | 13,384 | |
| | 2 | 4,562 | 2,093 | 961 | 1,548 | 423 | 696 | 153 | 66 | 30 | 74 | 10,606 | |
| | 3 | 5,074 | 1,682 | 1,147 | 713 | 1,193 | 331 | 540 | 120 | 51 | 72 | 10,923 | |
| | 4 | 17,584 | 2,684 | 1,082 | 852 | 551 | 928 | 258 | 420 | 79 | 69 | 24,507 | |
| | 5 | 42,591 | 3,638 | 1,488 | 811 | 664 | 440 | 750 | 206 | 312 | 80 | 50,979 | |
| | 6 | 102,208 | 4,573 | 1,395 | 1,058 | 629 | 528 | 357 | 595 | 156 | 233 | 111,732 | |
| | 7 | 84,479 | 5,730 | 1,514 | 954 | 797 | 472 | 325 | 180 | 247 | 107 | 94,805 | |
| | 8 | 65,076 | 4,997 | 1,195 | 812 | 642 | 569 | 294 | 136 | 46 | 55 | 73,823 | |
| | 9 | 45,922 | 4,079 | 1,279 | 553 | 429 | 286 | 228 | 94 | 41 | 17 | 52,930 | |
| | 10 | 54,446 | 6,917 | 1,671 | 597 | 303 | 185 | 129 | 65 | 13 | 2 | 64,329 | |
| | 11 | 28,077 | 4,758 | 2,307 | 867 | 363 | 146 | 91 | 80 | 42 | 7 | 36,738 | |
| | 12 | 13,641 | 5,176 | 995 | 1,353 | 358 | 143 | 63 | 52 | 54 | 32 | 21,868 | 566,624 |
| 2024 | 1 | 6,362 | 2,950 | 2,126 | 558 | 923 | 223 | 92 | 40 | 40 | 69 | 13,384 | |
| | 2 | 4,562 | 2,093 | 961 | 1,548 | 423 | 696 | 153 | 66 | 30 | 74 | 10,606 | |
| | 3 | 5,074 | 1,682 | 1,147 | 713 | 1,193 | 331 | 540 | 120 | 51 | 72 | 10,923 | |
| | 4 | 17,584 | 2,684 | 1,082 | 852 | 551 | 928 | 258 | 420 | 79 | 69 | 24,506 | |
| | 5 | 42,591 | 3,638 | 1,488 | 811 | 664 | 440 | 750 | 206 | 312 | 80 | 50,978 | |
| | 6 | 102,208 | 4,573 | 1,395 | 1,058 | 629 | 528 | 357 | 595 | 156 | 233 | 111,732 | |
| | 7 | 84,478 | 5,730 | 1,514 | 954 | 797 | 472 | 325 | 180 | 247 | 107 | 94,805 | |
| | 8 | 65,076 | 4,997 | 1,195 | 812 | 642 | 569 | 294 | 136 | 46 | 55 | 73,823 | |
| | 9 | 45,922 | 4,079 | 1,279 | 553 | 429 | 286 | 228 | 94 | 41 | 17 | 52,930 | |
| | 10 | 54,446 | 6,917 | 1,671 | 597 | 303 | 185 | 129 | 65 | 13 | 2 | 64,329 | |
| | 11 | 28,077 | 4,758 | 2,307 | 867 | 363 | 146 | 91 | 80 | 42 | 7 | 36,738 | |
| | 12 | 13,641 | 5,176 | 995 | 1,353 | 358 | 143 | 63 | 52 | 54 | 32 | 21,868 | 566,623 |

補足表 7-4-4. Fsus で漁獲を継続した場合の資源量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 986 | 1,562 | 4,044 | 1,828 | 3,871 | 1,175 | 588 | 310 | 1,040 | 15,695 | |
| | 3 | 331 | 826 | 1,856 | 1,871 | 4,529 | 1,920 | 3,940 | 1,149 | 543 | 1,059 | 18,024 | |
| | 4 | 1,140 | 1,351 | 1,824 | 2,224 | 2,103 | 4,740 | 1,966 | 3,806 | 896 | 1,062 | 21,113 | |
| | 5 | 2,744 | 1,820 | 2,571 | 2,205 | 2,520 | 2,259 | 5,026 | 1,948 | 3,352 | 1,340 | 25,784 | |
| | 6 | 6,516 | 2,274 | 2,397 | 2,951 | 2,487 | 2,697 | 2,403 | 4,956 | 1,753 | 3,928 | 32,362 | |
| | 7 | 5,352 | 2,820 | 2,584 | 2,646 | 3,230 | 2,510 | 2,179 | 1,506 | 2,442 | 1,836 | 27,105 | |
| | 8 | 4,108 | 2,443 | 2,018 | 2,238 | 2,587 | 3,101 | 2,055 | 1,135 | 458 | 883 | 21,027 | |
| | 9 | 2,927 | 1,988 | 2,147 | 1,509 | 1,718 | 1,552 | 1,632 | 817 | 409 | 270 | 14,969 | |
| | 10 | 3,497 | 3,403 | 2,796 | 1,619 | 1,200 | 998 | 920 | 578 | 129 | 35 | 15,173 | |
| | 11 | 1,810 | 2,359 | 3,897 | 2,340 | 1,431 | 779 | 641 | 707 | 444 | 118 | 14,525 | |
| | 12 | 876 | 2,575 | 1,694 | 3,687 | 1,406 | 759 | 442 | 458 | 564 | 532 | 12,994 | 233,108 |
| 2020 | 1 | 407 | 1,462 | 3,632 | 1,534 | 3,656 | 1,179 | 643 | 349 | 416 | 1,132 | 14,409 | |
| | 2 | 291 | 1,033 | 1,634 | 4,268 | 1,689 | 3,711 | 1,057 | 570 | 308 | 1,226 | 15,789 | |
| | 3 | 324 | 829 | 1,945 | 1,957 | 4,780 | 1,775 | 3,777 | 1,033 | 527 | 1,185 | 18,132 | |
| | 4 | 1,125 | 1,323 | 1,832 | 2,330 | 2,199 | 5,003 | 1,818 | 3,648 | 806 | 1,119 | 21,202 | |
| | 5 | 2,728 | 1,796 | 2,517 | 2,214 | 2,640 | 2,363 | 5,304 | 1,800 | 3,214 | 1,294 | 25,870 | |
| | 6 | 6,552 | 2,261 | 2,365 | 2,889 | 2,497 | 2,825 | 2,514 | 5,230 | 1,620 | 3,771 | 32,525 | |
| | 7 | 5,416 | 2,836 | 2,570 | 2,612 | 3,163 | 2,521 | 2,283 | 1,576 | 2,577 | 1,735 | 27,287 | |
| | 8 | 4,169 | 2,473 | 2,029 | 2,225 | 2,554 | 3,036 | 2,064 | 1,189 | 478 | 901 | 21,118 | |
| | 9 | 2,937 | 2,017 | 2,173 | 1,517 | 1,709 | 1,532 | 1,598 | 820 | 428 | 279 | 15,010 | |
| | 10 | 3,482 | 3,415 | 2,837 | 1,638 | 1,206 | 992 | 908 | 566 | 129 | 36 | 15,211 | |
| | 11 | 1,797 | 2,349 | 3,911 | 2,374 | 1,448 | 784 | 638 | 697 | 435 | 120 | 14,551 | |
| | 12 | 873 | 2,557 | 1,687 | 3,701 | 1,427 | 768 | 445 | 455 | 557 | 524 | 12,993 | 234,097 |
| 2021 | 1 | 407 | 1,458 | 3,606 | 1,527 | 3,669 | 1,197 | 651 | 350 | 413 | 1,116 | 14,394 | |
| | 2 | 292 | 1,034 | 1,630 | 4,237 | 1,682 | 3,725 | 1,073 | 577 | 310 | 1,212 | 15,772 | |
| | 3 | 325 | 831 | 1,946 | 1,953 | 4,745 | 1,767 | 3,791 | 1,049 | 533 | 1,178 | 18,117 | |
| | 4 | 1,125 | 1,326 | 1,836 | 2,332 | 2,194 | 4,966 | 1,810 | 3,661 | 818 | 1,120 | 21,188 | |
| | 5 | 2,726 | 1,797 | 2,523 | 2,219 | 2,642 | 2,357 | 5,266 | 1,792 | 3,225 | 1,305 | 25,851 | |
| | 6 | 6,541 | 2,259 | 2,366 | 2,896 | 2,502 | 2,827 | 2,508 | 5,192 | 1,614 | 3,789 | 32,493 | |
| | 7 | 5,407 | 2,831 | 2,567 | 2,612 | 3,171 | 2,526 | 2,284 | 1,572 | 2,558 | 1,737 | 27,264 | |
| | 8 | 4,165 | 2,469 | 2,026 | 2,223 | 2,554 | 3,044 | 2,068 | 1,190 | 477 | 897 | 21,112 | |
| | 9 | 2,939 | 2,015 | 2,170 | 1,514 | 1,707 | 1,532 | 1,602 | 822 | 429 | 277 | 15,008 | |
| | 10 | 3,485 | 3,417 | 2,835 | 1,635 | 1,204 | 991 | 908 | 567 | 130 | 36 | 15,209 | |
| | 11 | 1,797 | 2,350 | 3,913 | 2,372 | 1,445 | 782 | 637 | 697 | 436 | 120 | 14,550 | |
| | 12 | 873 | 2,557 | 1,688 | 3,703 | 1,426 | 767 | 444 | 455 | 557 | 525 | 12,994 | 233,952 |
| 2022 | 1 | 407 | 1,457 | 3,606 | 1,529 | 3,672 | 1,195 | 650 | 350 | 413 | 1,117 | 14,395 | |
| | 2 | 292 | 1,034 | 1,629 | 4,237 | 1,683 | 3,727 | 1,072 | 576 | 309 | 1,213 | 15,772 | |
| | 3 | 325 | 831 | 1,945 | 1,952 | 4,745 | 1,769 | 3,793 | 1,048 | 532 | 1,177 | 18,116 | |
| | 4 | 1,125 | 1,326 | 1,836 | 2,331 | 2,193 | 4,966 | 1,811 | 3,664 | 818 | 1,119 | 21,187 | |
| | 5 | 2,726 | 1,797 | 2,523 | 2,219 | 2,640 | 2,356 | 5,265 | 1,794 | 3,227 | 1,303 | 25,851 | |
| | 6 | 6,541 | 2,259 | 2,366 | 2,896 | 2,502 | 2,826 | 2,506 | 5,192 | 1,615 | 3,790 | 32,493 | |
| | 7 | 5,407 | 2,831 | 2,567 | 2,612 | 3,171 | 2,526 | 2,283 | 1,571 | 2,558 | 1,738 | 27,264 | |
| | 8 | 4,165 | 2,469 | 2,026 | 2,223 | 2,554 | 3,044 | 2,068 | 1,189 | 477 | 897 | 21,112 | |
| | 9 | 2,939 | 2,015 | 2,170 | 1,514 | 1,707 | 1,532 | 1,602 | 822 | 429 | 277 | 15,007 | |
| | 10 | 3,485 | 3,417 | 2,835 | 1,635 | 1,204 | 991 | 908 | 567 | 130 | 36 | 15,209 | |
| | 11 | 1,797 | 2,350 | 3,913 | 2,372 | 1,445 | 782 | 637 | 697 | 436 | 120 | 14,550 | |
| | 12 | 873 | 2,557 | 1,688 | 3,703 | 1,426 | 767 | 444 | 455 | 557 | 525 | 12,994 | 233,949 |
| 2023 | 1 | 407 | 1,457 | 3,606 | 1,529 | 3,671 | 1,195 | 649 | 350 | 413 | 1,117 | 14,395 | |
| | 2 | 292 | 1,034 | 1,629 | 4,237 | 1,683 | 3,727 | 1,072 | 576 | 309 | 1,213 | 15,772 | |
| | 3 | 325 | 831 | 1,945 | 1,952 | 4,745 | 1,769 | 3,793 | 1,048 | 532 | 1,177 | 18,117 | |
| | 4 | 1,125 | 1,326 | 1,836 | 2,331 | 2,193 | 4,966 | 1,811 | 3,663 | 817 | 1,119 | 21,187 | |
| | 5 | 2,726 | 1,797 | 2,523 | 2,219 | 2,640 | 2,356 | 5,266 | 1,794 | 3,227 | 1,303 | 25,851 | |
| | 6 | 6,541 | 2,259 | 2,366 | 2,896 | 2,502 | 2,826 | 2,506 | 5,192 | 1,615 | 3,790 | 32,494 | |
| | 7 | 5,407 | 2,831 | 2,567 | 2,612 | 3,171 | 2,526 | 2,283 | 1,571 | 2,558 | 1,738 | 27,264 | |
| | 8 | 4,165 | 2,469 | 2,026 | 2,223 | 2,554 | 3,044 | 2,068 | 1,189 | 477 | 897 | 21,112 | |
| | 9 | 2,939 | 2,015 | 2,170 | 1,514 | 1,707 | 1,532 | 1,602 | 822 | 429 | 277 | 15,007 | |
| | 10 | 3,485 | 3,417 | 2,835 | 1,635 | 1,204 | 991 | 908 | 567 | 130 | 36 | 15,209 | |
| | 11 | 1,797 | 2,350 | 3,913 | 2,372 | 1,445 | 782 | 637 | 697 | 436 | 120 | 14,550 | |
| | 12 | 873 | 2,557 | 1,688 | 3,703 | 1,426 | 767 | 444 | 455 | 557 | 525 | 12,994 | 233,950 |
| 2024 | 1 | 407 | 1,457 | 3,606 | 1,529 | 3,671 | 1,195 | 650 | 350 | 413 | 1,117 | 14,395 | |
| | 2 | 292 | 1,034 | 1,629 | 4,237 | 1,683 | 3,727 | 1,072 | 576 | 309 | 1,213 | 15,772 | |
| | 3 | 325 | 831 | 1,945 | 1,952 | 4,745 | 1,769 | 3,793 | 1,048 | 532 | 1,177 | 18,117 | |
| | 4 | 1,125 | 1,326 | 1,836 | 2,331 | 2,193 | 4,966 | 1,811 | 3,663 | 817 | 1,119 | 21,187 | |
| | 5 | 2,726 | 1,797 | 2,523 | 2,219 | 2,640 | 2,356 | 5,266 | 1,794 | 3,227 | 1,303 | 25,851 | |
| | 6 | 6,541 | 2,259 | 2,366 | 2,896 | 2,502 | 2,826 | 2,506 | 5,192 | 1,615 | 3,790 | 32,493 | |
| | 7 | 5,407 | 2,831 | 2,567 | 2,612 | 3,171 | 2,526 | 2,283 | 1,571 | 2,558 | 1,738 | 27,264 | |
| | 8 | 4,165 | 2,469 | 2,026 | 2,223 | 2,554 | 3,044 | 2,068 | 1,189 | 477 | 897 | 21,112 | |
| | 9 | 2,939 | 2,015 | 2,170 | 1,514 | 1,707 | 1,532 | 1,602 | 822 | 429 | 277 | 15,007 | |
| | 10 | 3,485 | 3,417 | 2,835 | 1,635 | 1,204 | 991 | 908 | 567 | 130 | 36 | 15,209 | |
| | 11 | 1,797 | 2,350 | 3,913</ | | | | | | | | | |

補足表 7-5-1. 1.20Fcurrent で漁獲を継続した場合の漁獲尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-----|-----|-----|-----|-----|-----|-----|--------|--------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 2,470 | 1,371 | 55 | 17 | 55 | 40 | 13 | 5 | 7 | 11 | 4,045 | |
| | 2 | 1,607 | 376 | 7 | 17 | 11 | 37 | 8 | 5 | 5 | 12 | 2,086 | |
| | 3 | 694 | 123 | 8 | 5 | 32 | 16 | 35 | 28 | 18 | 22 | 981 | |
| | 4 | 9,863 | 518 | 0 | 0 | 1 | 10 | 11 | 50 | 30 | 22 | 10,505 | |
| | 5 | 28,328 | 1,308 | 70 | 4 | 4 | 3 | 31 | 21 | 95 | 22 | 29,885 | |
| | 6 | 71,711 | 1,718 | 94 | 34 | 36 | 111 | 121 | 280 | 109 | 144 | 74,357 | |
| | 7 | 57,598 | 2,525 | 293 | 103 | 82 | 102 | 131 | 99 | 167 | 72 | 61,171 | |
| | 8 | 41,398 | 1,971 | 262 | 174 | 217 | 264 | 156 | 64 | 25 | 30 | 44,562 | |
| | 9 | 24,159 | 1,018 | 279 | 92 | 126 | 92 | 124 | 59 | 25 | 9 | 25,983 | |
| | 10 | 28,696 | 2,299 | 300 | 74 | 64 | 44 | 22 | 11 | 3 | 0 | 31,516 | |
| | 11 | 10,606 | 1,741 | 306 | 229 | 100 | 35 | 16 | 10 | 7 | 1 | 13,051 | |
| | 12 | 4,477 | 1,081 | 121 | 103 | 43 | 16 | 7 | 3 | 2 | 1 | 5,853 | 303,995 |
| 2020 | 1 | 1,465 | 747 | 30 | 8 | 32 | 19 | 6 | 2 | 4 | 9 | 2,323 | |
| | 2 | 930 | 223 | 4 | 9 | 5 | 22 | 4 | 2 | 3 | 8 | 1,210 | |
| | 3 | 385 | 71 | 5 | 3 | 17 | 7 | 21 | 13 | 9 | 14 | 545 | |
| | 4 | 5,352 | 287 | 0 | 0 | 1 | 5 | 5 | 29 | 14 | 12 | 5,706 | |
| | 5 | 15,260 | 710 | 39 | 2 | 2 | 2 | 17 | 10 | 55 | 11 | 16,107 | |
| | 6 | 38,833 | 925 | 51 | 19 | 21 | 66 | 66 | 151 | 49 | 83 | 40,263 | |
| | 7 | 31,570 | 1,367 | 158 | 56 | 45 | 59 | 77 | 54 | 90 | 37 | 33,514 | |
| | 8 | 23,028 | 1,080 | 142 | 94 | 118 | 147 | 90 | 38 | 14 | 16 | 24,766 | |
| | 9 | 13,563 | 566 | 153 | 50 | 68 | 50 | 69 | 34 | 15 | 5 | 14,572 | |
| | 10 | 15,942 | 1,291 | 167 | 41 | 35 | 24 | 12 | 6 | 2 | 0 | 17,520 | |
| | 11 | 5,789 | 967 | 172 | 127 | 55 | 19 | 9 | 6 | 4 | 1 | 7,148 | |
| | 12 | 2,445 | 590 | 67 | 58 | 24 | 8 | 4 | 1 | 1 | 1 | 3,200 | 166,875 |
| 2021 | 1 | 804 | 408 | 16 | 4 | 18 | 11 | 4 | 1 | 2 | 5 | 1,273 | |
| | 2 | 515 | 123 | 2 | 5 | 3 | 12 | 2 | 1 | 1 | 4 | 669 | |
| | 3 | 214 | 39 | 3 | 2 | 9 | 4 | 12 | 7 | 5 | 7 | 302 | |
| | 4 | 2,965 | 160 | 0 | 0 | 0 | 3 | 3 | 16 | 8 | 7 | 3,162 | |
| | 5 | 8,437 | 393 | 21 | 1 | 1 | 1 | 9 | 5 | 31 | 6 | 8,907 | |
| | 6 | 21,421 | 512 | 28 | 10 | 12 | 36 | 36 | 82 | 27 | 46 | 22,211 | |
| | 7 | 17,401 | 754 | 87 | 31 | 25 | 33 | 42 | 30 | 49 | 21 | 18,473 | |
| | 8 | 12,691 | 595 | 78 | 52 | 65 | 81 | 50 | 21 | 7 | 9 | 13,650 | |
| | 9 | 7,499 | 312 | 84 | 27 | 37 | 28 | 38 | 19 | 8 | 3 | 8,056 | |
| | 10 | 8,825 | 714 | 92 | 22 | 19 | 13 | 7 | 3 | 1 | 0 | 9,697 | |
| | 11 | 3,205 | 536 | 95 | 70 | 30 | 10 | 5 | 3 | 2 | 0 | 3,956 | |
| | 12 | 1,352 | 327 | 37 | 32 | 13 | 5 | 2 | 1 | 1 | 0 | 1,770 | 92,126 |
| 2022 | 1 | 444 | 226 | 9 | 2 | 10 | 6 | 2 | 1 | 1 | 3 | 704 | |
| | 2 | 285 | 68 | 1 | 3 | 2 | 7 | 1 | 1 | 1 | 2 | 370 | |
| | 3 | 118 | 22 | 1 | 1 | 5 | 2 | 6 | 4 | 3 | 4 | 167 | |
| | 4 | 1,639 | 88 | 0 | 0 | 0 | 2 | 1 | 9 | 4 | 4 | 1,748 | |
| | 5 | 4,666 | 217 | 12 | 1 | 1 | 1 | 5 | 3 | 17 | 3 | 4,926 | |
| | 6 | 11,848 | 283 | 16 | 6 | 20 | 20 | 46 | 15 | 26 | 12,285 | | |
| | 7 | 9,624 | 417 | 48 | 17 | 14 | 18 | 23 | 16 | 27 | 12 | 10,217 | |
| | 8 | 7,018 | 329 | 43 | 29 | 36 | 45 | 28 | 12 | 4 | 5 | 7,548 | |
| | 9 | 4,146 | 173 | 47 | 15 | 21 | 15 | 21 | 10 | 4 | 1 | 4,453 | |
| | 10 | 4,879 | 395 | 51 | 12 | 11 | 7 | 4 | 2 | 1 | 0 | 5,361 | |
| | 11 | 1,772 | 296 | 53 | 39 | 17 | 6 | 3 | 2 | 1 | 0 | 2,188 | |
| | 12 | 748 | 181 | 21 | 18 | 7 | 3 | 1 | 0 | 0 | 0 | 979 | 50,945 |
| 2023 | 1 | 246 | 125 | 5 | 1 | 6 | 3 | 1 | 0 | 1 | 1 | 389 | |
| | 2 | 157 | 37 | 1 | 2 | 1 | 4 | 1 | 0 | 0 | 1 | 204 | |
| | 3 | 65 | 12 | 1 | 0 | 3 | 1 | 4 | 2 | 1 | 2 | 92 | |
| | 4 | 906 | 49 | 0 | 0 | 0 | 1 | 1 | 5 | 2 | 2 | 967 | |
| | 5 | 2,580 | 120 | 7 | 0 | 0 | 0 | 3 | 2 | 10 | 2 | 2,723 | |
| | 6 | 6,551 | 156 | 9 | 3 | 4 | 11 | 11 | 25 | 8 | 14 | 6,792 | |
| | 7 | 5,321 | 231 | 27 | 9 | 8 | 10 | 13 | 9 | 15 | 6 | 5,649 | |
| | 8 | 3,880 | 182 | 24 | 16 | 20 | 25 | 15 | 6 | 2 | 3 | 4,173 | |
| | 9 | 2,292 | 95 | 26 | 8 | 11 | 8 | 12 | 6 | 2 | 1 | 2,462 | |
| | 10 | 2,698 | 218 | 28 | 7 | 6 | 4 | 2 | 1 | 0 | 0 | 2,964 | |
| | 11 | 980 | 164 | 29 | 21 | 9 | 3 | 1 | 1 | 1 | 0 | 1,209 | |
| | 12 | 413 | 100 | 11 | 10 | 4 | 1 | 1 | 0 | 0 | 0 | 541 | 28,168 |
| 2024 | 1 | 136 | 69 | 3 | 1 | 3 | 2 | 1 | 0 | 0 | 1 | 215 | |
| | 2 | 87 | 21 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 113 | |
| | 3 | 36 | 7 | 0 | 0 | 2 | 1 | 2 | 1 | 1 | 1 | 51 | |
| | 4 | 501 | 27 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 1 | 534 | |
| | 5 | 1,426 | 66 | 4 | 0 | 0 | 0 | 2 | 1 | 5 | 1 | 1,506 | |
| | 6 | 3,622 | 86 | 5 | 2 | 2 | 6 | 6 | 14 | 5 | 8 | 3,755 | |
| | 7 | 2,942 | 128 | 15 | 5 | 4 | 6 | 7 | 5 | 8 | 4 | 3,123 | |
| | 8 | 2,145 | 101 | 13 | 9 | 11 | 14 | 8 | 4 | 1 | 1 | 2,308 | |
| | 9 | 1,267 | 53 | 14 | 5 | 6 | 5 | 6 | 3 | 1 | 0 | 1,361 | |
| | 10 | 1,492 | 121 | 16 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | 1,639 | |
| | 11 | 542 | 91 | 16 | 12 | 5 | 2 | 1 | 1 | 0 | 0 | 669 | |
| | 12 | 229 | 55 | 6 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 299 | 15,574 |

補足表 7-5-2. 1.20Fcurrent で漁獲を継続した場合の漁獲量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|--------|--------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 158 | 677 | 93 | 47 | 220 | 216 | 93 | 40 | 68 | 185 | 1,797 | |
| | 2 | 103 | 186 | 12 | 47 | 45 | 198 | 59 | 42 | 57 | 188 | 937 | |
| | 3 | 44 | 61 | 14 | 15 | 128 | 87 | 247 | 244 | 183 | 351 | 1,373 | |
| | 4 | 631 | 256 | 0 | 1 | 5 | 54 | 76 | 433 | 307 | 352 | 2,115 | |
| | 5 | 1,813 | 646 | 118 | 10 | 14 | 16 | 217 | 185 | 978 | 357 | 4,355 | |
| | 6 | 4,589 | 849 | 160 | 93 | 145 | 594 | 848 | 2,438 | 1,124 | 2,352 | 13,191 | |
| | 7 | 3,686 | 1,247 | 497 | 281 | 326 | 545 | 917 | 866 | 1,726 | 1,167 | 11,260 | |
| | 8 | 2,649 | 974 | 445 | 477 | 863 | 1,414 | 1,093 | 561 | 260 | 482 | 9,218 | |
| | 9 | 1,546 | 503 | 474 | 252 | 501 | 491 | 871 | 516 | 255 | 142 | 5,552 | |
| | 10 | 1,837 | 1,136 | 509 | 203 | 256 | 238 | 157 | 98 | 34 | 7 | 4,474 | |
| | 11 | 679 | 860 | 520 | 625 | 398 | 186 | 112 | 91 | 74 | 16 | 3,561 | |
| | 12 | 287 | 534 | 205 | 282 | 170 | 83 | 50 | 22 | 21 | 22 | 1,675 | 59,508 |
| 2020 | 1 | 94 | 369 | 50 | 21 | 129 | 104 | 46 | 18 | 43 | 140 | 1,013 | |
| | 2 | 60 | 110 | 7 | 25 | 20 | 116 | 28 | 21 | 26 | 133 | 547 | |
| | 3 | 25 | 35 | 8 | 8 | 69 | 39 | 145 | 117 | 90 | 220 | 756 | |
| | 4 | 343 | 142 | 0 | 0 | 3 | 29 | 34 | 254 | 147 | 199 | 1,151 | |
| | 5 | 977 | 351 | 65 | 6 | 8 | 9 | 117 | 83 | 573 | 184 | 2,374 | |
| | 6 | 2,485 | 457 | 87 | 51 | 84 | 352 | 462 | 1,316 | 505 | 1,348 | 7,148 | |
| | 7 | 2,020 | 675 | 268 | 153 | 181 | 316 | 544 | 472 | 932 | 607 | 6,167 | |
| | 8 | 1,474 | 534 | 241 | 257 | 468 | 784 | 633 | 333 | 141 | 258 | 5,123 | |
| | 9 | 868 | 280 | 260 | 136 | 270 | 267 | 483 | 299 | 152 | 77 | 3,090 | |
| | 10 | 1,020 | 638 | 283 | 111 | 139 | 128 | 85 | 54 | 19 | 4 | 2,482 | |
| | 11 | 371 | 478 | 292 | 348 | 218 | 101 | 60 | 50 | 41 | 9 | 1,967 | |
| | 12 | 157 | 291 | 114 | 159 | 94 | 45 | 27 | 12 | 12 | 12 | 923 | 32,740 |
| 2021 | 1 | 51 | 202 | 27 | 12 | 72 | 58 | 25 | 10 | 23 | 77 | 557 | |
| | 2 | 33 | 61 | 4 | 14 | 11 | 65 | 16 | 11 | 14 | 73 | 301 | |
| | 3 | 14 | 19 | 5 | 4 | 38 | 22 | 81 | 65 | 49 | 120 | 417 | |
| | 4 | 190 | 79 | 0 | 0 | 1 | 16 | 19 | 143 | 82 | 109 | 638 | |
| | 5 | 540 | 194 | 36 | 3 | 5 | 5 | 64 | 46 | 322 | 102 | 1,317 | |
| | 6 | 1,371 | 253 | 48 | 29 | 46 | 193 | 252 | 718 | 281 | 754 | 3,946 | |
| | 7 | 1,114 | 373 | 148 | 85 | 100 | 175 | 298 | 258 | 509 | 339 | 3,398 | |
| | 8 | 812 | 294 | 133 | 142 | 260 | 435 | 350 | 183 | 77 | 142 | 2,828 | |
| | 9 | 480 | 154 | 143 | 75 | 149 | 148 | 268 | 165 | 83 | 42 | 1,708 | |
| | 10 | 565 | 353 | 156 | 61 | 76 | 71 | 47 | 30 | 11 | 2 | 1,373 | |
| | 11 | 205 | 265 | 161 | 192 | 120 | 56 | 33 | 27 | 23 | 5 | 1,087 | |
| | 12 | 87 | 161 | 63 | 88 | 52 | 25 | 15 | 7 | 6 | 7 | 510 | 18,080 |
| 2022 | 1 | 28 | 112 | 15 | 6 | 40 | 32 | 14 | 5 | 13 | 42 | 308 | |
| | 2 | 18 | 33 | 2 | 8 | 6 | 36 | 9 | 6 | 8 | 40 | 167 | |
| | 3 | 8 | 11 | 3 | 2 | 21 | 12 | 45 | 36 | 27 | 66 | 230 | |
| | 4 | 105 | 44 | 0 | 0 | 1 | 9 | 11 | 79 | 45 | 60 | 353 | |
| | 5 | 299 | 107 | 20 | 2 | 3 | 3 | 35 | 26 | 178 | 56 | 728 | |
| | 6 | 758 | 140 | 27 | 16 | 26 | 107 | 140 | 398 | 155 | 417 | 2,182 | |
| | 7 | 616 | 206 | 82 | 47 | 55 | 97 | 165 | 143 | 282 | 187 | 1,879 | |
| | 8 | 449 | 163 | 73 | 79 | 143 | 241 | 194 | 101 | 43 | 78 | 1,564 | |
| | 9 | 265 | 85 | 79 | 42 | 82 | 82 | 148 | 91 | 46 | 23 | 944 | |
| | 10 | 312 | 195 | 86 | 34 | 42 | 39 | 26 | 17 | 6 | 1 | 759 | |
| | 11 | 113 | 146 | 89 | 106 | 66 | 31 | 18 | 15 | 13 | 3 | 601 | |
| | 12 | 48 | 89 | 35 | 48 | 29 | 14 | 8 | 4 | 4 | 4 | 282 | 9,997 |
| 2023 | 1 | 16 | 62 | 8 | 4 | 22 | 18 | 8 | 3 | 7 | 23 | 170 | |
| | 2 | 10 | 18 | 1 | 4 | 3 | 20 | 5 | 3 | 4 | 22 | 92 | |
| | 3 | 4 | 6 | 1 | 1 | 12 | 7 | 25 | 20 | 15 | 37 | 127 | |
| | 4 | 58 | 24 | 0 | 0 | 0 | 5 | 6 | 44 | 25 | 33 | 195 | |
| | 5 | 165 | 59 | 11 | 1 | 1 | 1 | 20 | 14 | 98 | 31 | 403 | |
| | 6 | 419 | 77 | 15 | 9 | 14 | 59 | 77 | 220 | 86 | 231 | 1,207 | |
| | 7 | 341 | 114 | 45 | 26 | 31 | 53 | 91 | 79 | 156 | 104 | 1,039 | |
| | 8 | 248 | 90 | 41 | 43 | 79 | 133 | 107 | 56 | 24 | 43 | 865 | |
| | 9 | 147 | 47 | 44 | 23 | 46 | 45 | 82 | 51 | 25 | 13 | 522 | |
| | 10 | 173 | 108 | 48 | 19 | 23 | 22 | 14 | 9 | 3 | 1 | 420 | |
| | 11 | 63 | 81 | 49 | 59 | 37 | 17 | 10 | 8 | 7 | 2 | 332 | |
| | 12 | 26 | 49 | 19 | 27 | 16 | 8 | 5 | 2 | 2 | 2 | 156 | 5,528 |
| 2024 | 1 | 9 | 34 | 5 | 2 | 12 | 10 | 4 | 2 | 4 | 13 | 94 | |
| | 2 | 6 | 10 | 1 | 2 | 2 | 11 | 3 | 2 | 2 | 12 | 51 | |
| | 3 | 2 | 3 | 1 | 1 | 6 | 4 | 14 | 11 | 8 | 20 | 70 | |
| | 4 | 32 | 13 | 0 | 0 | 0 | 3 | 3 | 24 | 14 | 18 | 108 | |
| | 5 | 91 | 33 | 6 | 1 | 1 | 1 | 11 | 8 | 54 | 17 | 223 | |
| | 6 | 232 | 43 | 8 | 5 | 8 | 33 | 43 | 122 | 48 | 127 | 667 | |
| | 7 | 188 | 63 | 25 | 14 | 17 | 30 | 50 | 44 | 86 | 57 | 574 | |
| | 8 | 137 | 50 | 22 | 24 | 44 | 74 | 59 | 31 | 13 | 24 | 478 | |
| | 9 | 81 | 26 | 24 | 13 | 25 | 25 | 45 | 28 | 14 | 7 | 289 | |
| | 10 | 95 | 60 | 26 | 10 | 13 | 12 | 8 | 5 | 2 | 0 | 232 | |
| | 11 | 35 | 45 | 27 | 32 | 20 | 9 | 6 | 5 | 4 | 1 | 184 | |
| | 12 | 15 | 27 | 11 | 15 | 9 | 4 | 3 | 1 | 1 | 1 | 86 | 3,056 |

補足表 7-5-3. 1.20Fcurrent で漁獲を継続した場合の資源尾数（百万尾）の将来予測

| 年 | 月 \ 月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|--------|--------|-------|-------|-------|-------|-----|-----|-----|-----|--------|---------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| | 2 | 4,534 | 1,845 | 838 | 1,472 | 458 | 718 | 164 | 66 | 30 | 62 | 10,187 | |
| | 3 | 5,103 | 1,566 | 981 | 621 | 1,133 | 357 | 553 | 128 | 51 | 62 | 10,555 | |
| | 4 | 17,527 | 2,644 | 997 | 727 | 480 | 878 | 277 | 427 | 82 | 60 | 24,098 | |
| | 5 | 41,555 | 3,164 | 1,424 | 747 | 567 | 383 | 709 | 220 | 313 | 72 | 49,153 | |
| | 6 | 97,129 | 3,591 | 1,126 | 1,006 | 579 | 451 | 310 | 560 | 165 | 219 | 105,136 | |
| | 7 | 78,361 | 4,046 | 1,084 | 762 | 754 | 431 | 268 | 147 | 213 | 92 | 86,158 | |
| | 8 | 56,612 | 3,467 | 726 | 558 | 503 | 531 | 260 | 103 | 33 | 38 | 62,832 | |
| | 9 | 38,278 | 2,673 | 784 | 317 | 281 | 209 | 195 | 74 | 28 | 10 | 42,849 | |
| | 10 | 40,746 | 4,839 | 1,025 | 345 | 166 | 112 | 88 | 49 | 8 | 1 | 47,379 | |
| | 11 | 17,962 | 2,794 | 1,472 | 508 | 204 | 75 | 52 | 31 | 4 | 23,154 | | |
| | 12 | 8,124 | 2,848 | 504 | 838 | 194 | 74 | 30 | 28 | 34 | 22 | 12,697 | 487,164 |
| 2020 | 1 | 3,602 | 1,542 | 1,095 | 273 | 562 | 117 | 46 | 18 | 22 | 44 | 7,321 | |
| | 2 | 2,624 | 1,095 | 457 | 795 | 206 | 421 | 78 | 32 | 14 | 44 | 5,766 | |
| | 3 | 2,830 | 906 | 582 | 339 | 611 | 160 | 324 | 61 | 25 | 39 | 5,878 | |
| | 4 | 9,511 | 1,466 | 577 | 432 | 261 | 474 | 124 | 250 | 39 | 34 | 13,169 | |
| | 5 | 22,385 | 1,717 | 789 | 432 | 336 | 209 | 382 | 99 | 183 | 37 | 26,570 | |
| | 6 | 52,597 | 1,935 | 611 | 558 | 335 | 267 | 169 | 302 | 74 | 125 | 56,974 | |
| | 7 | 42,950 | 2,191 | 584 | 414 | 418 | 250 | 159 | 80 | 115 | 48 | 47,208 | |
| | 8 | 31,491 | 1,900 | 393 | 301 | 273 | 294 | 151 | 61 | 18 | 21 | 34,903 | |
| | 9 | 21,489 | 1,487 | 430 | 172 | 151 | 113 | 108 | 43 | 16 | 5 | 24,015 | |
| | 10 | 22,636 | 2,716 | 570 | 189 | 90 | 61 | 48 | 27 | 5 | 1 | 26,342 | |
| | 11 | 9,805 | 1,552 | 827 | 283 | 112 | 41 | 28 | 28 | 17 | 2 | 12,694 | |
| | 12 | 4,437 | 1,555 | 280 | 470 | 108 | 40 | 16 | 15 | 19 | 12 | 6,953 | 267,794 |
| 2021 | 1 | 1,977 | 842 | 598 | 151 | 316 | 65 | 25 | 10 | 12 | 24 | 4,020 | |
| | 2 | 1,453 | 601 | 249 | 434 | 114 | 236 | 44 | 18 | 7 | 24 | 3,180 | |
| | 3 | 1,572 | 502 | 319 | 185 | 334 | 89 | 182 | 34 | 14 | 21 | 3,252 | |
| | 4 | 5,269 | 814 | 319 | 237 | 143 | 259 | 69 | 141 | 22 | 18 | 7,291 | |
| | 5 | 12,377 | 951 | 438 | 239 | 185 | 114 | 209 | 55 | 103 | 21 | 14,691 | |
| | 6 | 29,015 | 1,070 | 339 | 310 | 186 | 147 | 92 | 165 | 41 | 70 | 31,433 | |
| | 7 | 23,674 | 1,209 | 323 | 229 | 232 | 138 | 87 | 44 | 63 | 27 | 26,025 | |
| | 8 | 17,355 | 1,047 | 217 | 166 | 151 | 164 | 83 | 34 | 10 | 11 | 19,238 | |
| | 9 | 11,881 | 820 | 237 | 95 | 84 | 63 | 60 | 24 | 9 | 3 | 13,274 | |
| | 10 | 12,531 | 1,502 | 314 | 104 | 50 | 33 | 26 | 15 | 3 | 0 | 14,579 | |
| | 11 | 5,427 | 859 | 457 | 156 | 62 | 23 | 15 | 16 | 9 | 1 | 7,025 | |
| | 12 | 2,454 | 861 | 155 | 260 | 60 | 22 | 9 | 8 | 10 | 7 | 3,846 | 147,855 |
| 2022 | 1 | 1,092 | 466 | 331 | 84 | 174 | 36 | 14 | 6 | 6 | 14 | 2,223 | |
| | 2 | 803 | 332 | 138 | 240 | 63 | 131 | 24 | 10 | 4 | 13 | 1,758 | |
| | 3 | 869 | 277 | 176 | 102 | 185 | 49 | 101 | 19 | 8 | 12 | 1,798 | |
| | 4 | 2,913 | 450 | 177 | 131 | 79 | 143 | 38 | 78 | 12 | 10 | 4,031 | |
| | 5 | 6,845 | 526 | 242 | 132 | 102 | 63 | 116 | 30 | 57 | 11 | 8,125 | |
| | 6 | 16,047 | 592 | 187 | 171 | 103 | 81 | 51 | 91 | 23 | 39 | 17,385 | |
| | 7 | 13,093 | 668 | 178 | 127 | 128 | 76 | 48 | 24 | 35 | 15 | 14,394 | |
| | 8 | 9,596 | 579 | 120 | 92 | 84 | 90 | 46 | 19 | 5 | 6 | 10,638 | |
| | 9 | 6,568 | 453 | 131 | 52 | 46 | 35 | 33 | 13 | 5 | 2 | 7,339 | |
| | 10 | 6,928 | 830 | 174 | 58 | 27 | 19 | 15 | 8 | 1 | 0 | 8,060 | |
| | 11 | 3,001 | 475 | 253 | 86 | 34 | 12 | 9 | 9 | 5 | 1 | 3,884 | |
| | 12 | 1,357 | 476 | 86 | 144 | 33 | 12 | 5 | 5 | 6 | 4 | 2,126 | 81,760 |
| 2023 | 1 | 604 | 257 | 183 | 46 | 96 | 20 | 8 | 3 | 4 | 7 | 1,229 | |
| | 2 | 444 | 184 | 76 | 133 | 35 | 72 | 13 | 5 | 2 | 7 | 972 | |
| | 3 | 480 | 153 | 98 | 57 | 102 | 27 | 56 | 10 | 4 | 6 | 994 | |
| | 4 | 1,611 | 249 | 98 | 72 | 44 | 79 | 21 | 43 | 7 | 6 | 2,229 | |
| | 5 | 3,784 | 291 | 134 | 73 | 56 | 35 | 64 | 17 | 31 | 6 | 4,492 | |
| | 6 | 8,873 | 327 | 103 | 95 | 57 | 45 | 28 | 50 | 13 | 21 | 9,612 | |
| | 7 | 7,239 | 370 | 99 | 70 | 71 | 42 | 27 | 13 | 19 | 8 | 7,958 | |
| | 8 | 5,306 | 320 | 66 | 51 | 46 | 50 | 25 | 10 | 3 | 3 | 5,882 | |
| | 9 | 3,632 | 251 | 72 | 29 | 26 | 19 | 18 | 7 | 3 | 1 | 4,058 | |
| | 10 | 3,830 | 459 | 96 | 32 | 15 | 10 | 8 | 5 | 1 | 0 | 4,456 | |
| | 11 | 1,659 | 263 | 140 | 48 | 19 | 7 | 5 | 5 | 3 | 0 | 2,148 | |
| | 12 | 750 | 263 | 47 | 79 | 18 | 7 | 3 | 3 | 3 | 2 | 1,176 | 45,206 |
| 2024 | 1 | 334 | 142 | 101 | 26 | 53 | 11 | 4 | 2 | 2 | 4 | 680 | |
| | 2 | 246 | 101 | 42 | 73 | 19 | 40 | 7 | 3 | 1 | 4 | 538 | |
| | 3 | 266 | 85 | 54 | 31 | 56 | 15 | 31 | 6 | 2 | 4 | 550 | |
| | 4 | 891 | 138 | 54 | 40 | 24 | 44 | 12 | 24 | 4 | 3 | 1,232 | |
| | 5 | 2,092 | 161 | 74 | 40 | 31 | 19 | 35 | 9 | 17 | 3 | 2,484 | |
| | 6 | 4,906 | 181 | 57 | 52 | 31 | 25 | 16 | 28 | 7 | 12 | 5,315 | |
| | 7 | 4,003 | 204 | 55 | 39 | 39 | 23 | 15 | 7 | 11 | 4 | 4,400 | |
| | 8 | 2,934 | 177 | 37 | 28 | 26 | 28 | 14 | 6 | 2 | 2 | 3,252 | |
| | 9 | 2,008 | 139 | 40 | 16 | 14 | 11 | 10 | 4 | 2 | 0 | 2,243 | |
| | 10 | 2,118 | 254 | 53 | 18 | 8 | 6 | 4 | 3 | 0 | 0 | 2,464 | |
| | 11 | 917 | 145 | 77 | 26 | 10 | 4 | 3 | 3 | 2 | 0 | 1,187 | |
| | 12 | 415 | 145 | 26 | 44 | 10 | 4 | 2 | 1 | 2 | 1 | 650 | 24,995 |

補足表 7-5-4. 1.20Fcurrent で漁獲を継続した場合の資源量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 911 | 1,421 | 4,030 | 1,821 | 3,843 | 1,149 | 577 | 306 | 1,013 | 15,363 | |
| | 3 | 327 | 773 | 1,663 | 1,700 | 4,507 | 1,908 | 3,887 | 1,117 | 528 | 1,010 | 17,420 | |
| | 4 | 1,122 | 1,306 | 1,691 | 1,991 | 1,908 | 4,700 | 1,942 | 3,724 | 845 | 971 | 20,201 | |
| | 5 | 2,660 | 1,563 | 2,414 | 2,044 | 2,255 | 2,050 | 4,977 | 1,915 | 3,232 | 1,180 | 24,289 | |
| | 6 | 6,216 | 1,774 | 1,910 | 2,754 | 2,303 | 2,412 | 2,179 | 4,881 | 1,703 | 3,562 | 29,693 | |
| | 7 | 5,015 | 1,999 | 1,838 | 2,086 | 3,002 | 2,307 | 1,882 | 1,285 | 2,206 | 1,491 | 23,109 | |
| | 8 | 3,623 | 1,713 | 1,232 | 1,527 | 2,002 | 2,841 | 1,827 | 901 | 337 | 627 | 16,630 | |
| | 9 | 2,450 | 1,321 | 1,329 | 868 | 1,118 | 1,118 | 1,370 | 646 | 287 | 160 | 10,665 | |
| | 10 | 2,608 | 2,390 | 1,738 | 945 | 661 | 602 | 616 | 425 | 81 | 16 | 10,082 | |
| | 11 | 1,150 | 1,380 | 2,497 | 1,390 | 810 | 403 | 363 | 456 | 317 | 67 | 8,834 | |
| | 12 | 520 | 1,407 | 854 | 2,293 | 773 | 394 | 212 | 248 | 354 | 356 | 7,411 | 198,034 |
| 2020 | 1 | 231 | 762 | 1,858 | 746 | 2,236 | 628 | 324 | 161 | 222 | 723 | 7,892 | |
| | 2 | 168 | 541 | 774 | 2,175 | 819 | 2,254 | 551 | 282 | 141 | 718 | 8,423 | |
| | 3 | 181 | 448 | 987 | 927 | 2,432 | 858 | 2,279 | 535 | 258 | 635 | 9,540 | |
| | 4 | 609 | 724 | 979 | 1,181 | 1,040 | 2,537 | 873 | 2,184 | 405 | 549 | 11,081 | |
| | 5 | 1,433 | 848 | 1,339 | 1,183 | 1,338 | 1,117 | 2,686 | 861 | 1,895 | 609 | 13,308 | |
| | 6 | 3,366 | 956 | 1,037 | 1,527 | 1,333 | 1,431 | 1,187 | 2,634 | 766 | 2,041 | 16,278 | |
| | 7 | 2,749 | 1,082 | 990 | 1,132 | 1,665 | 1,335 | 1,116 | 700 | 1,191 | 776 | 12,735 | |
| | 8 | 2,015 | 939 | 667 | 823 | 1,087 | 1,576 | 1,057 | 535 | 184 | 335 | 9,216 | |
| | 9 | 1,375 | 735 | 729 | 470 | 602 | 607 | 760 | 374 | 170 | 86 | 5,907 | |
| | 10 | 1,449 | 1,342 | 967 | 518 | 358 | 324 | 334 | 236 | 47 | 9 | 5,584 | |
| | 11 | 627 | 767 | 1,402 | 773 | 444 | 218 | 195 | 248 | 176 | 39 | 4,889 | |
| | 12 | 284 | 768 | 474 | 1,287 | 430 | 216 | 115 | 133 | 192 | 199 | 4,099 | 108,952 |
| 2021 | 1 | 126 | 416 | 1,014 | 415 | 1,255 | 349 | 178 | 87 | 120 | 397 | 4,357 | |
| | 2 | 93 | 297 | 423 | 1,187 | 455 | 1,265 | 306 | 155 | 76 | 392 | 4,649 | |
| | 3 | 101 | 248 | 541 | 506 | 1,328 | 477 | 1,279 | 298 | 142 | 346 | 5,265 | |
| | 4 | 337 | 402 | 542 | 648 | 568 | 1,385 | 485 | 1,226 | 225 | 300 | 6,119 | |
| | 5 | 792 | 470 | 744 | 655 | 734 | 610 | 1,466 | 478 | 1,064 | 336 | 7,349 | |
| | 6 | 1,857 | 528 | 574 | 848 | 738 | 785 | 648 | 1,438 | 425 | 1,143 | 8,985 | |
| | 7 | 1,515 | 597 | 547 | 627 | 925 | 739 | 613 | 382 | 650 | 433 | 7,028 | |
| | 8 | 1,111 | 517 | 368 | 455 | 602 | 875 | 585 | 293 | 100 | 184 | 5,091 | |
| | 9 | 760 | 405 | 402 | 259 | 333 | 336 | 422 | 207 | 93 | 47 | 3,264 | |
| | 10 | 802 | 742 | 533 | 286 | 197 | 179 | 185 | 131 | 26 | 5 | 3,086 | |
| | 11 | 347 | 425 | 775 | 426 | 245 | 120 | 108 | 137 | 98 | 21 | 2,703 | |
| | 12 | 157 | 425 | 263 | 712 | 237 | 119 | 63 | 74 | 107 | 110 | 2,266 | 60,162 |
| 2022 | 1 | 70 | 230 | 561 | 230 | 694 | 193 | 98 | 48 | 66 | 220 | 2,410 | |
| | 2 | 51 | 164 | 234 | 657 | 252 | 699 | 169 | 85 | 42 | 217 | 2,571 | |
| | 3 | 56 | 137 | 299 | 280 | 735 | 264 | 707 | 164 | 78 | 191 | 2,911 | |
| | 4 | 186 | 222 | 299 | 358 | 314 | 767 | 269 | 678 | 124 | 166 | 3,383 | |
| | 5 | 438 | 260 | 411 | 362 | 406 | 337 | 812 | 265 | 588 | 185 | 4,064 | |
| | 6 | 1,027 | 292 | 317 | 469 | 408 | 434 | 359 | 796 | 235 | 631 | 4,969 | |
| | 7 | 838 | 330 | 303 | 347 | 511 | 409 | 339 | 211 | 360 | 239 | 3,886 | |
| | 8 | 614 | 286 | 204 | 252 | 333 | 484 | 324 | 162 | 55 | 102 | 2,815 | |
| | 9 | 420 | 224 | 222 | 143 | 184 | 186 | 233 | 114 | 52 | 26 | 1,805 | |
| | 10 | 443 | 410 | 295 | 158 | 109 | 99 | 102 | 72 | 14 | 3 | 1,706 | |
| | 11 | 192 | 235 | 429 | 236 | 135 | 67 | 60 | 76 | 54 | 12 | 1,494 | |
| | 12 | 87 | 235 | 145 | 393 | 131 | 66 | 35 | 41 | 59 | 61 | 1,253 | 33,268 |
| 2023 | 1 | 39 | 127 | 310 | 127 | 384 | 106 | 54 | 27 | 37 | 122 | 1,332 | |
| | 2 | 28 | 91 | 129 | 363 | 139 | 387 | 93 | 47 | 23 | 120 | 1,421 | |
| | 3 | 31 | 76 | 165 | 155 | 406 | 146 | 391 | 91 | 43 | 106 | 1,610 | |
| | 4 | 103 | 123 | 166 | 198 | 174 | 424 | 148 | 375 | 69 | 92 | 1,871 | |
| | 5 | 242 | 144 | 227 | 200 | 224 | 187 | 449 | 146 | 325 | 102 | 2,247 | |
| | 6 | 568 | 162 | 176 | 259 | 226 | 240 | 198 | 440 | 130 | 349 | 2,747 | |
| | 7 | 463 | 183 | 167 | 192 | 283 | 226 | 187 | 117 | 199 | 132 | 2,149 | |
| | 8 | 340 | 158 | 113 | 139 | 184 | 267 | 179 | 90 | 31 | 56 | 1,556 | |
| | 9 | 232 | 124 | 123 | 79 | 102 | 103 | 129 | 63 | 29 | 14 | 998 | |
| | 10 | 245 | 227 | 163 | 87 | 60 | 55 | 57 | 40 | 8 | 2 | 943 | |
| | 11 | 106 | 130 | 237 | 130 | 75 | 37 | 33 | 42 | 30 | 7 | 826 | |
| | 12 | 48 | 130 | 80 | 218 | 72 | 36 | 19 | 23 | 33 | 34 | 693 | 18,394 |
| 2024 | 1 | 21 | 70 | 172 | 70 | 212 | 59 | 30 | 15 | 20 | 67 | 737 | |
| | 2 | 16 | 50 | 72 | 201 | 77 | 214 | 52 | 26 | 13 | 66 | 786 | |
| | 3 | 17 | 42 | 91 | 86 | 225 | 81 | 216 | 50 | 24 | 58 | 890 | |
| | 4 | 57 | 68 | 92 | 110 | 96 | 234 | 82 | 207 | 38 | 51 | 1,034 | |
| | 5 | 134 | 79 | 126 | 111 | 124 | 103 | 248 | 81 | 180 | 57 | 1,242 | |
| | 6 | 314 | 89 | 97 | 143 | 125 | 133 | 110 | 243 | 72 | 193 | 1,519 | |
| | 7 | 256 | 101 | 93 | 106 | 156 | 125 | 104 | 65 | 110 | 73 | 1,188 | |
| | 8 | 188 | 87 | 62 | 77 | 102 | 148 | 99 | 50 | 17 | 31 | 861 | |
| | 9 | 129 | 68 | 68 | 44 | 56 | 57 | 71 | 35 | 16 | 8 | 552 | |
| | 10 | 136 | 125 | 90 | 48 | 33 | 30 | 31 | 22 | 4 | 1 | 522 | |
| | 11 | 59 | 72 | 131 | 72 | 41 | 20 | 18 | 23 | 16 | 4 | 457 | |
| | 12 | 27 | 72 | 44 | 120 | 40 | 20 | 11 | 12 | 18 | 19 | 383 | 10,170 |

補足表 7-6-1. 1.40Fcurrent で漁獲を継続した場合の漁獲尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|--------|---------|
| 2018 | 1 | 2,659 | 1,062 | 32 | 2 | 20 | 36 | 9 | 4 | 5 | 17 | 3,847 | |
| | 2 | 1,270 | 443 | 6 | 10 | 1 | 14 | 8 | 3 | 5 | 15 | 1,775 | |
| | 3 | 416 | 103 | 10 | 5 | 19 | 2 | 13 | 26 | 13 | 26 | 634 | |
| | 4 | 5,798 | 323 | 0 | 0 | 1 | 6 | 1 | 19 | 30 | 24 | 6,202 | |
| | 5 | 17,093 | 915 | 45 | 3 | 4 | 3 | 18 | 2 | 38 | 25 | 18,145 | |
| | 6 | 49,855 | 1,363 | 71 | 22 | 31 | 138 | 106 | 178 | 12 | 87 | 51,862 | |
| | 7 | 43,936 | 2,622 | 259 | 79 | 54 | 90 | 176 | 101 | 128 | 36 | 47,480 | |
| | 8 | 38,382 | 2,200 | 325 | 165 | 177 | 185 | 152 | 101 | 32 | 28 | 41,748 | |
| | 9 | 23,597 | 1,325 | 363 | 124 | 130 | 84 | 102 | 72 | 51 | 14 | 25,861 | |
| | 10 | 31,511 | 2,814 | 426 | 103 | 94 | 51 | 22 | 11 | 5 | 1 | 35,039 | |
| | 11 | 12,905 | 2,668 | 415 | 355 | 151 | 56 | 20 | 11 | 7 | 2 | 16,589 | |
| | 12 | 6,089 | 1,580 | 218 | 145 | 72 | 26 | 13 | 3 | 2 | 2 | 8,149 | 257,331 |
| 2019 | 1 | 2,734 | 1,505 | 64 | 20 | 64 | 46 | 15 | 5 | 8 | 13 | 4,475 | |
| | 2 | 1,793 | 381 | 7 | 20 | 13 | 43 | 9 | 5 | 6 | 13 | 2,291 | |
| | 3 | 782 | 129 | 8 | 5 | 37 | 19 | 40 | 31 | 19 | 23 | 1,092 | |
| | 4 | 10,357 | 562 | 0 | 0 | 1 | 12 | 12 | 55 | 30 | 21 | 11,052 | |
| | 5 | 28,288 | 1,152 | 73 | 4 | 4 | 3 | 35 | 24 | 101 | 20 | 29,705 | |
| | 6 | 68,721 | 1,297 | 77 | 35 | 38 | 107 | 116 | 301 | 112 | 134 | 70,938 | |
| | 7 | 53,794 | 1,606 | 198 | 82 | 85 | 102 | 115 | 83 | 150 | 55 | 56,271 | |
| | 8 | 35,339 | 1,247 | 139 | 110 | 163 | 255 | 141 | 49 | 17 | 19 | 37,479 | |
| | 9 | 19,840 | 613 | 152 | 45 | 73 | 62 | 103 | 43 | 15 | 4 | 20,949 | |
| | 10 | 19,473 | 1,501 | 165 | 38 | 29 | 23 | 14 | 8 | 2 | 0 | 21,253 | |
| | 11 | 5,814 | 843 | 181 | 115 | 47 | 14 | 8 | 6 | 5 | 0 | 7,032 | |
| | 12 | 2,239 | 492 | 50 | 59 | 20 | 7 | 3 | 1 | 1 | 1 | 2,871 | 265,407 |
| 2020 | 1 | 703 | 312 | 13 | 3 | 18 | 9 | 3 | 1 | 2 | 5 | 1,067 | |
| | 2 | 462 | 98 | 2 | 4 | 2 | 12 | 2 | 1 | 1 | 4 | 587 | |
| | 3 | 189 | 33 | 2 | 1 | 7 | 3 | 11 | 6 | 3 | 6 | 262 | |
| | 4 | 2,340 | 136 | 0 | 0 | 0 | 2 | 2 | 16 | 6 | 5 | 2,506 | |
| | 5 | 6,205 | 260 | 18 | 1 | 1 | 1 | 7 | 4 | 29 | 4 | 6,529 | |
| | 6 | 14,969 | 284 | 17 | 9 | 10 | 27 | 24 | 60 | 17 | 36 | 15,453 | |
| | 7 | 11,916 | 350 | 43 | 19 | 20 | 26 | 30 | 17 | 30 | 12 | 12,464 | |
| | 8 | 8,142 | 276 | 30 | 24 | 37 | 61 | 36 | 13 | 3 | 4 | 8,627 | |
| | 9 | 4,789 | 141 | 34 | 10 | 16 | 14 | 25 | 11 | 4 | 1 | 5,044 | |
| | 10 | 4,637 | 362 | 38 | 8 | 6 | 5 | 3 | 2 | 0 | 0 | 5,062 | |
| | 11 | 1,330 | 201 | 44 | 27 | 10 | 3 | 2 | 1 | 1 | 0 | 1,618 | |
| | 12 | 508 | 112 | 12 | 14 | 5 | 1 | 1 | 0 | 0 | 0 | 654 | 59,873 |
| 2021 | 1 | 161 | 71 | 3 | 1 | 4 | 2 | 1 | 0 | 0 | 1 | 244 | |
| | 2 | 108 | 22 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 1 | 137 | |
| | 3 | 44 | 8 | 0 | 0 | 2 | 1 | 3 | 1 | 1 | 1 | 61 | |
| | 4 | 550 | 32 | 0 | 0 | 0 | 1 | 0 | 4 | 1 | 1 | 589 | |
| | 5 | 1,455 | 61 | 4 | 0 | 0 | 0 | 2 | 1 | 7 | 1 | 1,531 | |
| | 6 | 3,492 | 67 | 4 | 2 | 2 | 6 | 5 | 14 | 4 | 9 | 3,605 | |
| | 7 | 2,773 | 82 | 10 | 4 | 5 | 6 | 7 | 4 | 7 | 3 | 2,900 | |
| | 8 | 1,890 | 64 | 7 | 6 | 9 | 14 | 9 | 3 | 1 | 1 | 2,003 | |
| | 9 | 1,119 | 33 | 8 | 2 | 4 | 3 | 6 | 3 | 1 | 0 | 1,179 | |
| | 10 | 1,087 | 85 | 9 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1,186 | |
| | 11 | 312 | 47 | 10 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 380 | |
| | 12 | 119 | 26 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 153 | 13,969 |
| 2022 | 1 | 38 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 57 | |
| | 2 | 25 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 32 | |
| | 3 | 10 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 14 | |
| | 4 | 129 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 138 | |
| | 5 | 341 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 358 | |
| | 6 | 818 | 16 | 1 | 0 | 1 | 1 | 1 | 3 | 1 | 2 | 844 | |
| | 7 | 649 | 19 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 679 | |
| | 8 | 442 | 15 | 2 | 1 | 2 | 3 | 2 | 1 | 0 | 0 | 469 | |
| | 9 | 262 | 8 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 276 | |
| | 10 | 254 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 277 | |
| | 11 | 73 | 11 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 89 | |
| | 12 | 28 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 3,270 |
| 2023 | 1 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | |
| | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | 4 | 30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | |
| | 5 | 80 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | |
| | 6 | 191 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 198 | |
| | 7 | 152 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 159 | |
| | 8 | 104 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 110 | |
| | 9 | 61 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | |
| | 10 | 59 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | |
| | 11 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | |
| | 12 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 765 |
| 2024 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | 5 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | |
| | 6 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | |
| | 7 | 36 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | |
| | 8 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | |
| | 9 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | |
| | 10 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | |
| | 11 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 179 |

補足表 7-6-2. 1.40Fcurrent で漁獲を継続した場合の漁獲量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|--------|--------|
| 2018 | 1 | 170 | 524 | 55 | 5 | 81 | 193 | 66 | 37 | 48 | 278 | 1,456 | |
| | 2 | 81 | 219 | 10 | 28 | 4 | 73 | 54 | 30 | 55 | 236 | 792 | |
| | 3 | 27 | 51 | 17 | 12 | 76 | 9 | 92 | 228 | 138 | 431 | 1,081 | |
| | 4 | 371 | 159 | 0 | 1 | 4 | 32 | 8 | 165 | 306 | 387 | 1,433 | |
| | 5 | 1,094 | 452 | 76 | 8 | 17 | 14 | 130 | 19 | 389 | 401 | 2,599 | |
| | 6 | 3,191 | 673 | 120 | 60 | 123 | 737 | 747 | 1,550 | 124 | 1,418 | 8,743 | |
| | 7 | 2,812 | 1,295 | 440 | 216 | 213 | 480 | 1,237 | 877 | 1,325 | 581 | 9,476 | |
| | 8 | 2,456 | 1,087 | 552 | 452 | 706 | 993 | 1,064 | 880 | 335 | 453 | 8,978 | |
| | 9 | 1,510 | 654 | 615 | 338 | 518 | 449 | 716 | 629 | 524 | 222 | 6,176 | |
| | 10 | 2,017 | 1,390 | 723 | 283 | 372 | 275 | 157 | 93 | 54 | 20 | 5,383 | |
| | 11 | 826 | 1,318 | 703 | 972 | 602 | 301 | 140 | 95 | 74 | 30 | 5,060 | |
| | 12 | 390 | 780 | 369 | 396 | 288 | 138 | 88 | 29 | 23 | 24 | 2,525 | 53,702 |
| 2019 | 1 | 175 | 744 | 108 | 54 | 255 | 248 | 107 | 46 | 78 | 212 | 2,027 | |
| | 2 | 115 | 188 | 12 | 55 | 52 | 227 | 67 | 48 | 64 | 207 | 1,034 | |
| | 3 | 50 | 64 | 14 | 15 | 148 | 100 | 280 | 266 | 198 | 367 | 1,502 | |
| | 4 | 663 | 278 | 0 | 1 | 5 | 62 | 87 | 484 | 315 | 345 | 2,239 | |
| | 5 | 1,810 | 569 | 125 | 10 | 14 | 17 | 248 | 209 | 1,046 | 333 | 4,381 | |
| | 6 | 4,398 | 641 | 131 | 97 | 149 | 570 | 818 | 2,626 | 1,155 | 2,184 | 12,770 | |
| | 7 | 3,443 | 794 | 336 | 226 | 336 | 546 | 810 | 728 | 1,550 | 895 | 9,664 | |
| | 8 | 2,262 | 616 | 236 | 302 | 650 | 1,364 | 992 | 428 | 171 | 302 | 7,322 | |
| | 9 | 1,270 | 303 | 257 | 123 | 289 | 332 | 720 | 376 | 151 | 65 | 3,886 | |
| | 10 | 1,246 | 742 | 281 | 103 | 116 | 124 | 97 | 70 | 19 | 2 | 2,799 | |
| | 11 | 372 | 416 | 306 | 315 | 185 | 76 | 53 | 54 | 51 | 8 | 1,837 | |
| | 12 | 143 | 243 | 84 | 161 | 78 | 35 | 19 | 10 | 12 | 14 | 799 | 50,260 |
| 2020 | 1 | 45 | 154 | 22 | 8 | 72 | 46 | 19 | 7 | 19 | 81 | 472 | |
| | 2 | 30 | 48 | 3 | 11 | 8 | 64 | 12 | 8 | 9 | 69 | 262 | |
| | 3 | 12 | 16 | 4 | 3 | 29 | 15 | 79 | 49 | 34 | 100 | 342 | |
| | 4 | 150 | 67 | 0 | 0 | 1 | 12 | 13 | 137 | 58 | 78 | 517 | |
| | 5 | 397 | 129 | 30 | 3 | 4 | 3 | 49 | 32 | 295 | 67 | 1,009 | |
| | 6 | 958 | 141 | 30 | 23 | 38 | 147 | 169 | 523 | 177 | 587 | 2,793 | |
| | 7 | 763 | 173 | 74 | 51 | 81 | 141 | 208 | 151 | 308 | 194 | 2,143 | |
| | 8 | 521 | 136 | 51 | 66 | 147 | 329 | 255 | 110 | 36 | 62 | 1,713 | |
| | 9 | 307 | 70 | 57 | 27 | 63 | 75 | 174 | 97 | 39 | 13 | 921 | |
| | 10 | 297 | 179 | 65 | 23 | 25 | 27 | 22 | 17 | 5 | 1 | 660 | |
| | 11 | 85 | 99 | 74 | 73 | 41 | 17 | 12 | 12 | 12 | 2 | 426 | |
| | 12 | 33 | 56 | 20 | 39 | 18 | 8 | 4 | 2 | 3 | 3 | 185 | 11,444 |
| 2021 | 1 | 10 | 35 | 5 | 2 | 17 | 11 | 4 | 1 | 4 | 19 | 109 | |
| | 2 | 7 | 11 | 1 | 2 | 2 | 15 | 3 | 2 | 2 | 16 | 61 | |
| | 3 | 3 | 4 | 1 | 1 | 7 | 4 | 19 | 11 | 8 | 23 | 79 | |
| | 4 | 35 | 16 | 0 | 0 | 0 | 3 | 3 | 33 | 13 | 18 | 121 | |
| | 5 | 93 | 30 | 7 | 1 | 1 | 1 | 11 | 8 | 71 | 15 | 238 | |
| | 6 | 223 | 33 | 7 | 6 | 9 | 34 | 38 | 120 | 42 | 141 | 652 | |
| | 7 | 177 | 40 | 17 | 12 | 19 | 33 | 48 | 34 | 71 | 46 | 498 | |
| | 8 | 121 | 32 | 12 | 16 | 35 | 78 | 60 | 25 | 8 | 14 | 399 | |
| | 9 | 72 | 16 | 13 | 6 | 15 | 18 | 41 | 23 | 9 | 3 | 215 | |
| | 10 | 70 | 42 | 15 | 5 | 6 | 6 | 5 | 4 | 1 | 0 | 154 | |
| | 11 | 20 | 23 | 17 | 17 | 10 | 4 | 3 | 3 | 3 | 0 | 100 | |
| | 12 | 8 | 13 | 5 | 9 | 4 | 2 | 1 | 1 | 1 | 1 | 43 | 2,671 |
| 2022 | 1 | 2 | 8 | 1 | 0 | 4 | 2 | 1 | 0 | 1 | 4 | 25 | |
| | 2 | 2 | 3 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 4 | 14 | |
| | 3 | 1 | 1 | 0 | 0 | 2 | 1 | 4 | 3 | 2 | 5 | 19 | |
| | 4 | 8 | 4 | 0 | 0 | 0 | 1 | 1 | 8 | 3 | 4 | 28 | |
| | 5 | 22 | 7 | 2 | 0 | 0 | 0 | 3 | 2 | 17 | 4 | 56 | |
| | 6 | 52 | 8 | 2 | 1 | 2 | 8 | 9 | 28 | 10 | 33 | 153 | |
| | 7 | 42 | 9 | 4 | 3 | 4 | 8 | 11 | 8 | 17 | 11 | 117 | |
| | 8 | 28 | 7 | 3 | 4 | 8 | 18 | 14 | 6 | 2 | 3 | 93 | |
| | 9 | 17 | 4 | 3 | 1 | 3 | 4 | 10 | 5 | 2 | 1 | 50 | |
| | 10 | 16 | 10 | 4 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 36 | |
| | 11 | 5 | 5 | 4 | 4 | 2 | 1 | 1 | 1 | 1 | 0 | 23 | |
| | 12 | 2 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 10 | 625 |
| 2023 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 6 | |
| | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 4 | |
| | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 7 | |
| | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 1 | 13 | |
| | 6 | 12 | 2 | 0 | 0 | 0 | 2 | 2 | 7 | 2 | 8 | 36 | |
| | 7 | 10 | 2 | 1 | 1 | 2 | 3 | 2 | 4 | 3 | 27 | | |
| | 8 | 7 | 2 | 1 | 1 | 2 | 4 | 3 | 1 | 0 | 1 | 22 | |
| | 9 | 4 | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 12 | |
| | 10 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | 11 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | |
| | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 146 |
| 2024 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | |
| | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 8 | |
| | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 6 | |
| | 8 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | |
| | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | |
| | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 |

補足表 7-6-3. 1.40Fcurrent で漁獲を継続した場合の資源尾数（百万尾）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|--------|-------|-------|-------|-------|-----|-----|-----|-----|-----|--------|---------|
| 2018 | 1 | 7,436 | 2,468 | 1,428 | 70 | 420 | 258 | 79 | 45 | 28 | 104 | 12,336 | |
| | 2 | 4,110 | 2,548 | 844 | 1,042 | 53 | 318 | 178 | 57 | 34 | 92 | 9,276 | |
| | 3 | 3,620 | 1,567 | 1,419 | 627 | 803 | 42 | 247 | 141 | 44 | 88 | 8,599 | |
| | 4 | 11,364 | 1,936 | 1,014 | 1,054 | 485 | 626 | 33 | 193 | 94 | 76 | 16,875 | |
| | 5 | 26,750 | 2,524 | 1,089 | 760 | 822 | 387 | 506 | 26 | 145 | 95 | 33,103 | |
| | 6 | 70,392 | 3,216 | 1,006 | 777 | 589 | 654 | 314 | 403 | 20 | 145 | 77,517 | |
| | 7 | 62,410 | 4,606 | 1,117 | 692 | 587 | 444 | 410 | 164 | 175 | 49 | 70,654 | |
| | 8 | 54,900 | 4,294 | 1,038 | 612 | 470 | 422 | 282 | 180 | 45 | 39 | 62,281 | |
| | 9 | 40,522 | 3,988 | 1,173 | 496 | 332 | 218 | 177 | 96 | 58 | 16 | 47,074 | |
| | 10 | 47,339 | 6,687 | 1,691 | 564 | 277 | 149 | 102 | 54 | 14 | 3 | 56,882 | |
| | 11 | 23,944 | 4,693 | 2,339 | 898 | 349 | 138 | 75 | 64 | 36 | 9 | 32,546 | |
| | 12 | 12,220 | 4,773 | 1,061 | 1,393 | 387 | 144 | 62 | 44 | 44 | 30 | 20,158 | 447,304 |
| 2019 | 1 | 6,071 | 2,829 | 2,029 | 606 | 958 | 245 | 94 | 40 | 34 | 59 | 12,967 | |
| | 2 | 4,534 | 1,636 | 726 | 1,465 | 455 | 710 | 158 | 64 | 29 | 60 | 9,837 | |
| | 3 | 5,004 | 1,418 | 830 | 537 | 1,124 | 353 | 542 | 123 | 49 | 58 | 10,038 | |
| | 4 | 17,107 | 2,513 | 888 | 615 | 414 | 867 | 271 | 413 | 75 | 52 | 23,215 | |
| | 5 | 39,707 | 2,510 | 1,294 | 665 | 479 | 330 | 698 | 214 | 296 | 60 | 46,254 | |
| | 6 | 90,729 | 2,467 | 798 | 906 | 515 | 380 | 267 | 547 | 157 | 189 | 96,956 | |
| | 7 | 71,250 | 2,406 | 647 | 531 | 675 | 379 | 214 | 116 | 183 | 67 | 76,468 | |
| | 8 | 46,984 | 2,027 | 344 | 313 | 341 | 465 | 217 | 73 | 20 | 23 | 50,807 | |
| | 9 | 29,677 | 1,442 | 379 | 137 | 146 | 127 | 149 | 52 | 16 | 4 | 32,131 | |
| | 10 | 26,639 | 2,874 | 500 | 153 | 67 | 52 | 48 | 31 | 4 | 0 | 30,368 | |
| | 11 | 9,206 | 1,264 | 761 | 231 | 86 | 28 | 22 | 27 | 18 | 2 | 11,645 | |
| | 12 | 3,767 | 1,161 | 182 | 413 | 79 | 27 | 10 | 11 | 17 | 12 | 5,680 | 406,364 |
| 2020 | 1 | 1,560 | 586 | 404 | 93 | 270 | 45 | 16 | 6 | 8 | 23 | 3,012 | |
| | 2 | 1,167 | 420 | 150 | 292 | 70 | 200 | 29 | 11 | 4 | 20 | 2,364 | |
| | 3 | 1,207 | 365 | 213 | 111 | 224 | 54 | 153 | 23 | 8 | 16 | 2,374 | |
| | 4 | 3,865 | 606 | 229 | 158 | 86 | 173 | 42 | 117 | 14 | 12 | 5,300 | |
| | 5 | 8,710 | 567 | 312 | 171 | 123 | 68 | 139 | 33 | 83 | 12 | 10,219 | |
| | 6 | 19,762 | 541 | 180 | 218 | 133 | 98 | 55 | 109 | 24 | 51 | 21,172 | |
| | 7 | 15,783 | 524 | 142 | 120 | 163 | 98 | 55 | 24 | 36 | 14 | 16,959 | |
| | 8 | 10,824 | 449 | 75 | 69 | 77 | 112 | 56 | 19 | 4 | 5 | 11,690 | |
| | 9 | 7,164 | 332 | 84 | 30 | 32 | 29 | 36 | 13 | 4 | 1 | 7,725 | |
| | 10 | 6,343 | 694 | 115 | 34 | 15 | 11 | 11 | 7 | 1 | 0 | 7,231 | |
| | 11 | 2,106 | 301 | 184 | 53 | 19 | 6 | 5 | 6 | 4 | 0 | 2,684 | |
| | 12 | 855 | 266 | 43 | 100 | 18 | 6 | 2 | 2 | 4 | 3 | 1,300 | 92,031 |
| 2021 | 1 | 357 | 133 | 92 | 22 | 65 | 10 | 4 | 1 | 2 | 5 | 692 | |
| | 2 | 273 | 96 | 34 | 67 | 17 | 48 | 7 | 2 | 1 | 5 | 550 | |
| | 3 | 284 | 85 | 49 | 25 | 51 | 13 | 37 | 5 | 2 | 4 | 556 | |
| | 4 | 908 | 143 | 53 | 36 | 19 | 39 | 10 | 28 | 3 | 3 | 1,244 | |
| | 5 | 2,042 | 133 | 74 | 40 | 28 | 16 | 32 | 8 | 20 | 3 | 2,395 | |
| | 6 | 4,610 | 127 | 42 | 51 | 31 | 22 | 13 | 25 | 6 | 12 | 4,940 | |
| | 7 | 3,673 | 122 | 33 | 28 | 38 | 23 | 13 | 5 | 8 | 3 | 3,947 | |
| | 8 | 2,513 | 104 | 17 | 16 | 18 | 26 | 13 | 4 | 1 | 1 | 2,715 | |
| | 9 | 1,674 | 77 | 20 | 7 | 8 | 7 | 8 | 3 | 1 | 0 | 1,805 | |
| | 10 | 1,487 | 162 | 27 | 8 | 3 | 3 | 3 | 2 | 0 | 0 | 1,694 | |
| | 11 | 494 | 71 | 43 | 12 | 4 | 1 | 1 | 1 | 1 | 0 | 630 | |
| | 12 | 200 | 62 | 10 | 23 | 4 | 1 | 1 | 1 | 1 | 1 | 305 | 21,472 |
| 2022 | 1 | 84 | 31 | 22 | 5 | 15 | 2 | 1 | 0 | 0 | 1 | 162 | |
| | 2 | 64 | 23 | 8 | 16 | 4 | 11 | 2 | 1 | 0 | 1 | 129 | |
| | 3 | 66 | 20 | 11 | 6 | 12 | 3 | 9 | 1 | 0 | 1 | 130 | |
| | 4 | 213 | 33 | 13 | 8 | 5 | 9 | 2 | 7 | 1 | 1 | 291 | |
| | 5 | 478 | 31 | 17 | 9 | 7 | 4 | 7 | 2 | 5 | 1 | 561 | |
| | 6 | 1,080 | 30 | 10 | 12 | 7 | 5 | 3 | 6 | 1 | 3 | 1,157 | |
| | 7 | 860 | 29 | 8 | 7 | 9 | 5 | 3 | 1 | 2 | 1 | 924 | |
| | 8 | 588 | 24 | 4 | 4 | 4 | 6 | 3 | 1 | 0 | 0 | 636 | |
| | 9 | 392 | 18 | 5 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 422 | |
| | 10 | 348 | 38 | 6 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 396 | |
| | 11 | 116 | 16 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 147 | |
| | 12 | 47 | 15 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 71 | 5,026 |
| 2023 | 1 | 20 | 7 | 5 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 38 | |
| | 2 | 15 | 5 | 2 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 30 | |
| | 3 | 16 | 5 | 3 | 1 | 3 | 1 | 2 | 0 | 0 | 0 | 30 | |
| | 4 | 50 | 8 | 3 | 2 | 1 | 2 | 1 | 2 | 0 | 0 | 68 | |
| | 5 | 112 | 7 | 4 | 2 | 2 | 1 | 2 | 0 | 1 | 0 | 131 | |
| | 6 | 253 | 7 | 2 | 3 | 2 | 1 | 1 | 1 | 0 | 1 | 271 | |
| | 7 | 201 | 7 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 216 | |
| | 8 | 138 | 6 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 149 | |
| | 9 | 92 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | |
| | 10 | 81 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 | |
| | 11 | 27 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | |
| | 12 | 11 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1,176 |
| 2024 | 1 | 5 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | 2 | 3 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | |
| | 3 | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | |
| | 4 | 12 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 16 | |
| | 5 | 26 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | |
| | 6 | 59 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | |
| | 7 | 47 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | |
| | 8 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | |
| | 9 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | |
| | 10 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | |
| | 11 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | 12 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 275 |

補足表 7-6-4. 1.40Fcurrent で漁獲を継続した場合の資源量（トン）の将来予測

| 年 | 月\月齢 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ | 月合計 | 年合計 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 2018 | 1 | 476 | 1,219 | 2,422 | 193 | 1,669 | 1,381 | 552 | 391 | 291 | 1,700 | 10,294 | |
| | 2 | 263 | 1,259 | 1,432 | 2,851 | 213 | 1,701 | 1,252 | 495 | 348 | 1,501 | 11,315 | |
| | 3 | 232 | 774 | 2,407 | 1,716 | 3,195 | 224 | 1,737 | 1,228 | 459 | 1,438 | 13,411 | |
| | 4 | 727 | 956 | 1,720 | 2,886 | 1,929 | 3,350 | 230 | 1,685 | 973 | 1,232 | 15,690 | |
| | 5 | 1,712 | 1,247 | 1,848 | 2,079 | 3,269 | 2,073 | 3,555 | 228 | 1,496 | 1,541 | 19,048 | |
| | 6 | 4,505 | 1,588 | 1,706 | 2,128 | 2,346 | 3,500 | 2,207 | 3,515 | 207 | 2,366 | 24,068 | |
| | 7 | 3,994 | 2,275 | 1,894 | 1,895 | 2,335 | 2,378 | 2,880 | 1,428 | 1,812 | 794 | 21,684 | |
| | 8 | 3,514 | 2,121 | 1,760 | 1,676 | 1,870 | 2,258 | 1,980 | 1,567 | 468 | 632 | 17,847 | |
| | 9 | 2,593 | 1,970 | 1,989 | 1,357 | 1,319 | 1,165 | 1,244 | 837 | 603 | 256 | 13,332 | |
| | 10 | 3,030 | 3,303 | 2,868 | 1,545 | 1,104 | 797 | 717 | 472 | 149 | 56 | 14,041 | |
| | 11 | 1,532 | 2,318 | 3,968 | 2,458 | 1,387 | 741 | 529 | 561 | 368 | 149 | 14,012 | |
| | 12 | 782 | 2,358 | 1,799 | 3,814 | 1,538 | 770 | 438 | 387 | 454 | 483 | 12,823 | 187,564 |
| 2019 | 1 | 389 | 1,397 | 3,442 | 1,660 | 3,814 | 1,311 | 662 | 351 | 353 | 959 | 14,337 | |
| | 2 | 290 | 808 | 1,231 | 4,009 | 1,811 | 3,801 | 1,111 | 561 | 299 | 974 | 14,896 | |
| | 3 | 320 | 701 | 1,408 | 1,470 | 4,473 | 1,889 | 3,806 | 1,069 | 506 | 941 | 16,583 | |
| | 4 | 1,095 | 1,241 | 1,506 | 1,682 | 1,647 | 4,640 | 1,906 | 3,604 | 774 | 847 | 18,942 | |
| | 5 | 2,541 | 1,240 | 2,195 | 1,821 | 1,905 | 1,768 | 4,902 | 1,866 | 3,057 | 974 | 22,270 | |
| | 6 | 5,807 | 1,219 | 1,353 | 2,479 | 2,050 | 2,035 | 1,877 | 4,769 | 1,628 | 3,077 | 26,294 | |
| | 7 | 4,560 | 1,189 | 1,097 | 1,453 | 2,685 | 2,029 | 1,506 | 1,008 | 1,890 | 1,091 | 18,507 | |
| | 8 | 3,007 | 1,001 | 584 | 856 | 1,357 | 2,487 | 1,527 | 635 | 212 | 374 | 12,040 | |
| | 9 | 1,899 | 713 | 643 | 376 | 583 | 679 | 1,050 | 452 | 167 | 72 | 6,633 | |
| | 10 | 1,705 | 1,420 | 848 | 419 | 268 | 279 | 335 | 267 | 40 | 5 | 5,585 | |
| | 11 | 589 | 624 | 1,290 | 633 | 343 | 149 | 153 | 235 | 189 | 29 | 4,234 | |
| | 12 | 241 | 574 | 308 | 1,131 | 312 | 146 | 69 | 98 | 175 | 196 | 3,251 | 163,570 |
| 2020 | 1 | 100 | 289 | 685 | 255 | 1,076 | 242 | 115 | 50 | 86 | 369 | 3,268 | |
| | 2 | 75 | 208 | 255 | 798 | 278 | 1,073 | 206 | 97 | 43 | 324 | 3,356 | |
| | 3 | 77 | 180 | 362 | 304 | 890 | 290 | 1,074 | 198 | 88 | 255 | 3,719 | |
| | 4 | 247 | 299 | 388 | 432 | 341 | 924 | 293 | 1,017 | 143 | 192 | 4,276 | |
| | 5 | 557 | 280 | 529 | 469 | 490 | 366 | 976 | 286 | 863 | 197 | 5,013 | |
| | 6 | 1,265 | 267 | 306 | 598 | 528 | 523 | 389 | 949 | 250 | 827 | 5,901 | |
| | 7 | 1,010 | 259 | 241 | 328 | 648 | 522 | 387 | 209 | 376 | 236 | 4,216 | |
| | 8 | 693 | 222 | 127 | 188 | 306 | 600 | 393 | 163 | 44 | 76 | 2,812 | |
| | 9 | 458 | 164 | 143 | 82 | 128 | 153 | 253 | 116 | 43 | 15 | 1,555 | |
| | 10 | 406 | 343 | 195 | 93 | 58 | 61 | 76 | 64 | 10 | 1 | 1,308 | |
| | 11 | 135 | 149 | 311 | 146 | 76 | 32 | 34 | 53 | 46 | 7 | 989 | |
| | 12 | 55 | 131 | 73 | 273 | 72 | 32 | 15 | 21 | 40 | 48 | 760 | 37,174 |
| 2021 | 1 | 23 | 66 | 157 | 61 | 260 | 56 | 25 | 11 | 19 | 86 | 763 | |
| | 2 | 17 | 48 | 58 | 182 | 66 | 259 | 47 | 22 | 9 | 74 | 783 | |
| | 3 | 18 | 42 | 83 | 69 | 204 | 69 | 259 | 46 | 19 | 58 | 867 | |
| | 4 | 58 | 71 | 91 | 99 | 77 | 211 | 70 | 245 | 33 | 43 | 998 | |
| | 5 | 131 | 66 | 125 | 110 | 112 | 83 | 223 | 68 | 208 | 45 | 1,171 | |
| | 6 | 295 | 63 | 72 | 141 | 123 | 120 | 88 | 217 | 60 | 198 | 1,377 | |
| | 7 | 235 | 60 | 56 | 77 | 153 | 122 | 89 | 47 | 86 | 56 | 982 | |
| | 8 | 161 | 52 | 30 | 44 | 72 | 141 | 92 | 37 | 10 | 18 | 656 | |
| | 9 | 107 | 38 | 33 | 19 | 30 | 36 | 60 | 27 | 10 | 3 | 364 | |
| | 10 | 95 | 80 | 45 | 22 | 14 | 14 | 18 | 15 | 2 | 0 | 306 | |
| | 11 | 32 | 35 | 73 | 34 | 18 | 8 | 8 | 12 | 11 | 2 | 231 | |
| | 12 | 13 | 31 | 17 | 64 | 17 | 8 | 4 | 5 | 9 | 11 | 178 | 8,676 |
| 2022 | 1 | 5 | 15 | 37 | 14 | 61 | 13 | 6 | 3 | 4 | 20 | 179 | |
| | 2 | 4 | 11 | 14 | 43 | 16 | 61 | 11 | 5 | 2 | 17 | 183 | |
| | 3 | 4 | 10 | 19 | 16 | 48 | 16 | 61 | 11 | 5 | 14 | 203 | |
| | 4 | 14 | 16 | 21 | 23 | 18 | 50 | 16 | 57 | 8 | 10 | 234 | |
| | 5 | 31 | 15 | 29 | 26 | 26 | 19 | 52 | 16 | 49 | 10 | 274 | |
| | 6 | 69 | 15 | 17 | 33 | 29 | 28 | 21 | 51 | 14 | 46 | 322 | |
| | 7 | 55 | 14 | 13 | 18 | 36 | 29 | 21 | 11 | 20 | 13 | 230 | |
| | 8 | 38 | 12 | 7 | 10 | 17 | 33 | 22 | 9 | 2 | 4 | 154 | |
| | 9 | 25 | 9 | 8 | 4 | 7 | 8 | 14 | 6 | 2 | 1 | 85 | |
| | 10 | 22 | 19 | 11 | 5 | 3 | 3 | 4 | 4 | 1 | 0 | 72 | |
| | 11 | 7 | 8 | 17 | 8 | 4 | 2 | 2 | 3 | 3 | 0 | 54 | |
| | 12 | 3 | 7 | 4 | 15 | 4 | 2 | 1 | 1 | 2 | 3 | 42 | 2,031 |
| 2023 | 1 | 1 | 4 | 9 | 3 | 14 | 3 | 1 | 1 | 1 | 5 | 42 | |
| | 2 | 1 | 3 | 3 | 10 | 4 | 14 | 3 | 1 | 1 | 4 | 43 | |
| | 3 | 1 | 2 | 5 | 4 | 11 | 4 | 14 | 2 | 1 | 3 | 47 | |
| | 4 | 3 | 4 | 5 | 5 | 4 | 12 | 4 | 13 | 2 | 2 | 55 | |
| | 5 | 7 | 4 | 7 | 6 | 6 | 5 | 12 | 4 | 11 | 2 | 64 | |
| | 6 | 16 | 3 | 4 | 8 | 7 | 7 | 5 | 12 | 3 | 11 | 75 | |
| | 7 | 13 | 3 | 3 | 4 | 8 | 7 | 5 | 3 | 5 | 3 | 54 | |
| | 8 | 9 | 3 | 2 | 2 | 4 | 8 | 5 | 2 | 1 | 1 | 36 | |
| | 9 | 6 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 0 | 20 | |
| | 10 | 5 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 17 | |
| | 11 | 2 | 2 | 4 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 13 | |
| | 12 | 1 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 10 | 475 |
| 2024 | 1 | 0 | 1 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 10 | |
| | 2 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 10 | |
| | 3 | 0 | 1 | 1 | 1 | 3 | 1 | 3 | 1 | 0 | 1 | 11 | |
| | 4 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 0 | 1 | 13 | |
| | 5 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 3 | 1 | 15 | |
| | 6 | 4 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 1 | 3 | 18 | |
| | 7 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 13 | |
| | 8 | 2 | 1 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 8 | |
| | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | |
| | 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | |
| | 11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | 12 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 111 |