Plaice (Pleuronectes platessa) in subdivisions 24-32 (Baltic Sea, excluding the Sound and Belt Seas)

## ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, catches in 2019 should be no more than 3725 tonnes.

## Stock development over time

The stock size indicator (relative SSB) and relative recruitment have been increasing significantly since 2013. The relative fishing mortality has been declining in recent years and F in 2017 is the lowest observed in the time-series.


Figure $1 \quad$ Plaice in subdivisions 24-32. Summary of stock assessment (catch weights in thousand tonnes). Recruitment, F, and SSB are relative to the mean of the time-series. The dashed lines in the SSB plot indicate the average values of the respective years. Relative recruitment, F, and SSB have confidence intervals ( $95 \%$ ) in the plots.

## Stock and exploitation status

ICES assesses the relative fishing pressure on the stock to be below FmsY proxy (Figure 2), and the relative spawning stock size to be above MSY Btrigger proxy (Figure 2).

Table 1 Plaice in subdivisions 24-32. State of the stock and fishery relative to reference points.

|  | Fishing pressure |  |  |  |  | Stock size |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2015 | 2016 |  | 2017 |  | 2016 | 2017 |  | 2018 |
| Maximum Sustainable Yield | $\mathrm{F}_{\text {MSY }}$ <br> proxy | $\checkmark$ | ( | - | Below proxy | $\begin{aligned} & \text { MSY } \mathrm{B}_{\text {Trigger }} \\ & \text { proxy } \end{aligned}$ |  | $\checkmark$ |  | Above proxy |
| Precautionary Approach | $\mathrm{F}_{\mathrm{pa}}, \mathrm{F}_{\text {lim }}$ | - | ( |  | Harvested sustainably | $\mathrm{B}_{\mathrm{pa}}, \mathrm{B}_{\text {lim }}$ | $\checkmark$ | ( |  | Full reproductive capacity |
| Management plan | $\mathrm{F}_{\text {MGT }}$ | - | - | - | Not applicable | $\mathrm{SSB}_{\text {MGT }}$ | - | - |  | Not applicable |



Figure 2 Plaice in subdivisions 24-32. SPiCT model results used for the evaluation of the stock and exploitation status (the proxy $\mathrm{F}_{\text {MSY }}$ and MSY $\mathrm{B}_{\text {trigger }}$ are represented by horizontal lines in the left and right panels, respectively). The dots in the left panel represent Q1 and Q4 BITS indices.

## Catch scenarios

The ICES framework for category 3 stocks was applied (ICES, 2012). The trends in relative SSB from the exploratory assessment were used as the index of stock development. The advice is based on a comparison of the two latest index values (index A) with the three preceding values (index B), multiplied by the recent advised catch. The index is estimated to have increased by more than $20 \%$ and thus the uncertainty cap was applied to calculate the catch advice.

The relative fishing mortality is below and the relative stock size above proxies of the MSY reference points; therefore, no additional precautionary buffer was applied.

Table 2 Plaice in subdivisions 24-32. The catch scenarios table.*

| Index A $(2017,2018)$ |  | 2.9 |
| :--- | ---: | ---: |
| Index B (2014, 2015, 2016) |  | 1.24 |
| Index ratio (A/B) | Applied | 2.3 |
| Uncertainty cap |  | 1.20 |
| Advised catch for 2018 |  | 3104 tonnes |
| Discard rate (2017) | Not applied | 0.38 |
| Precautionary buffer |  | - |
| Catch advice** |  | 3725 tonnes |
| $\%$ change in advice $\wedge$ |  | $+20 \%$ |

* The figures in the table are rounded. Calculations were done with unrounded inputs and computed values may not match exactly when calculated using the rounded figures in the table.
** [Advised catch for 2018] $\times$ [uncertainty cap].
$\wedge$ Advice 2019 relative to advice 2018.
Recruitment has been increasing in later years, while fishing mortality has decreased. This has led to an even further increase in SSB and contributes to the increase in catch advice for 2019.


## Basis of the advice

Table $3 \quad$ Plaice in subdivisions 24-32. The basis of the advice.

| Advice basis | Precautionary approach. |
| :--- | :--- |
| Management plan | The EU Multiannual Plan for the Baltic Sea (EU, 2016) takes bycatch of this species into account. |

## Quality of the assessment

Discard estimates prior to 2006 used in the assessment are underestimated.

## Issues relevant for the advice

Landings of fish below the minimum conservation reference size (MCRS) are very low ( 7 t below minimum conservation reference size [BMS] reported in 2017) and discarding still takes place despite the fact that the landing obligation has been in place since 2017. The estimated discard amount of 408 tonnes in 2017 (approximately $38.6 \%$ ) is based on observer data. ICES understands that this is not in accordance with the current regulations. Depending on market prices and the quota of target species (e.g. cod), discarding varies between quarters and years. There is also discarding because some fishing nations have no quota for plaice. The discarded fraction can cover all length classes and comprise as much as $100 \%$ of the catch. The sampling coverage allows reasonable discard estimations back to 2006 . For the period 2002 to 2005, the sampling coverage and discard estimations are very variable.

Both plaice stocks in the Baltic Sea show similar stock development, but data for the stock in subdivisions $24-32$ is insufficient to perform a full analytical assessment, and the exploratory assessment is used as indicative of trends only.

The management areas for plaice in the Baltic Sea (i.e. Subdivision (SD) 21 and SDs 22-32) are different from the stock areas (i.e. SDs 21-23 and 24-32). As for the plaice stock in SDs 21-23 (ICES, 2018a), this section provides an option for calculating TACs by management area, based on the catch distribution observed in 2017. The catch ratio between SD 21 and SDs 22-23 in 2017 was used to calculate a split of the advised catches for the stock in SDs 21-23 for 2019. The advised catch for the stock in SDs $24-32$ was added to the calculated catch for SDs 22-23 to obtain plaice catches by management area that would be consistent with ICES advice for the two stocks. The details of this calculation are presented in Table 4. This results in catches of no more than 4802 tonnes in SD 21 and 14160 tonnes in SDs 22-32.

Table 4 Plaice in subdivisions 24-32. Catch and landings overview and calculation of catches by management area for plaice in subdivisions 21-23 and 24-32.

| Basis |  | Catch 2017 | Landings 2017 | ICES stock advice 2019 (catch) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Stock area-based | SDs 21-23 | 4242 | 3243 | 15237 |  |
|  | SDs 24-32 | 1051 | 650 | 3725 |  |
| Total advised catch, 2019 (SDs 21-32) |  |  |  | 18962 |  |
| Management area-based | SD 21 | 1337 | 801 |  |  |
|  | SDs 22-23 | 2905 | 2442 |  |  |
|  | SDs 22-32 | 3956 | 3092 |  |  |
|  |  | calculation |  |  | results |
| Share of SD 21 of the total catch in SDs 21-23 in 2017 |  | $\begin{aligned} & 1337 \text { t / } 4242 \text { t } \\ & \text { (catch in } 2017 \text { SD } 21 \text { / catch in } 2017 \text { SDs 21-23) } \end{aligned}$ |  |  | 0.315 |
| Catch in 2019 for SD 21 |  | $15237 \mathrm{t} \times 0.315$ <br> (ICES stock advice in 2019 (catch) for SDs 21-23 $\times$ share) |  |  | 4802 |
| Catch in 2019 for SDs 22-32 |  | $\begin{aligned} & 18962 \mathrm{t}-4802 \mathrm{t} \\ & \text { (total advised catch in } 2019 \text { SDs 21-32 - catch SD 21) } \end{aligned}$ |  |  | 14160 |
| Share of SD 21 of the total landings in SDs 21-23 in 2017 |  | $801 \text { t / } 3243 \text { t }$ <br> (landings in 2017 SD 21 / landings in 2017 SDs 21-23) |  |  | 0.247 |

## Reference points

Table 5 Plaice in subdivisions 24-32. Reference points, values, and their technical basis.

| Framework | Reference point | Value | Technical basis | Source |
| :---: | :---: | :---: | :---: | :---: |
| MSY approach | MSY $\mathrm{B}_{\text {trigger proxy }}$ | 0.5* | Relative value ( $\mathrm{B} / \mathrm{B}_{\mathrm{MSY}}$ ) from the SPiCT assessment model. $\mathrm{B}_{\text {MSY }}$ is estimated directly from the SPiCT model and changes when the assessment is updated. | ICES (2018b) |
|  | FMSY proxy | 1* | Relative value ( $F / F_{M S Y}$ ) from the SPiCT assessment model. $\mathrm{F}_{\text {MSY }}$ is estimated directly from the SPiCT model and changes when the assessment is updated. | ICES (2018b) |
| Precautionary approach | Blim | Not defined |  |  |
|  | $\mathrm{B}_{\mathrm{pa}}$ | Not defined |  |  |
|  | $\mathrm{F}_{\text {lim }}$ | Not defined |  |  |
|  | $\mathrm{F}_{\mathrm{pa}}$ | Not defined |  |  |
| Management plan | $S^{\text {S }}$ mgt | Not defined |  |  |
|  | $\mathrm{F}_{\mathrm{mgt}}$ | Not defined |  |  |

*No reference points are defined for this stock in terms of absolute values. The SPiCT-estimated values of the ratios $F / F_{M S Y}$ and $B / B_{M S Y}$ are used to estimate stock status relative to the MSY reference points.

## Basis of the assessment

Table 6 Plaice in subdivisions 24-32. Basis of the assessment and advice.
Table 6 Plaice in subdivisions 24-32. Basis of the assessment and advice.

| ICES stock data category | 3 (ICES, 2016). |
| :--- | :--- |
| Assessment type | Age-based analytical assessment, SAM, considered indicative of trends only (ICES, 2018b). |
| Input data | Commercial catches; two survey indices (2002-2018 BITS-Q1 and 2002-2017 BITS-Q4); averaged <br> maturity data (2008-2017 BITS-Q1 ); natural mortalities are fixed and assumed to be 0.2 (age 1) and 0.1 <br> (age 2+). |
| Discards and bycatch | Used to provide advice. Discard estimates from the main fleets are included in the assessment from 2002 <br> onwards; however, the estimations of the first years (2002-2005) are considered uncertain. |
| Indicators | SPiCT assessment. |
| Other information | This stock was last benchmarked in 2015 (ICES, 2015). |
| Working group | Baltic Fisheries Assessment Working Group (WGBFAS) |

## Information from stakeholders

There is no additional available information.

## History of the advice, catch, and management

Table $7 \quad$ Plaice in subdivisions 24-32. ICES advice, TACs and ICES catch estimates. All weights are in tonnes.

| Year | ICES advice | Landings corresp. to advice* | Catch corresponding to advice | Agreed TAC** | ```Landings (ICES estimates)``` | Catches <br> (ICES <br> estimates) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2000 | No advice | - |  | - | 630 |  |
| 2001 | No advice | - |  | - | 790 |  |
| 2002 | No advice | - |  | - | 920 | 1270 |
| 2003 | No advice | - |  | - | 1280 | 1550 |
| 2004 | No advice | - |  | - | 1080 | 1300 |
| 2005 | No advice | - |  | - | 1080 | 1250 |
| 2006 | No advice | - |  | - | 1010 | 1830 |
| 2007 | No advice | - |  | - | 1170 | 1660 |
| 2008 | No advice | - |  | - | 1100 | 1400 |
| 2009 | No advice | - |  | - | 1230 | 1640 |
| 2010 | No advice | - |  | - | 900 | 1900 |
| 2011 | No advice | - |  | 3041 | 750 | 2130 |
| 2012 | No increase in catches | - |  | 2889 | 850 | 1770 |
| 2013 | No more than 20\% catch increase | $\leq 900$ |  | 3409 | 740 | 1520 |
| 2014 | No more than 20\% landings increase | $\leq 1000$ |  | 3409 | 530 | 1020 |
| 2015 | No more than 20\% wanted catches increase | $\leq 886$ |  | 3409 | 430 | 650 |
| 2016 | Precautionary approach |  | $\leq 2156$ | 4034 | 530 | 1580 |
| 2017 | Precautionary approach |  | $\leq 2587$ | 7862 | 650 | 1058 |
| 2018 | Precautionary approach |  | $\leq 3104$ | 7076 |  |  |
| 2019 | Precautionary approach |  | $\leq 3725$ |  |  |  |

*Prior to 2013 the advice was for subdivisions 22-32.
**For subdivisions 22-32.

## History of the catch and landings

Table $8 \quad$ Plaice in subdivisions 24-32. Catch distribution by fleet in 2017 as estimated by ICES.

| Catch (2017) | Landings / wanted catch |  | Discards |  |
| :---: | :---: | :---: | :---: | :---: |
| 1058 tonnes | Active gears 81\% | Passive gears 19\% | Active gears 87\% | Passive gears 13\% |
|  | 650 tonnes* |  | 408 tonnes |  |

[^0]Table 9 Plaice in subdivisions 24-32. History of commercial catch and landings; both the official and ICES estimated values are presented by area for each country participating in the fishery. All weights are in tonnes.

| Year/SD | Denmark |  |  | Germ. Dem. Rep*24 | Germany, FRG |  | Poland |  | Sweden** |  |  |  |  |  | Finland |  |  | Discards | BMS landings |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 24 \\ (+25)^{\wedge} \end{gathered}$ | 25 | 26+27 |  | $\begin{gathered} 24 \\ (+25)^{\wedge} \end{gathered}$ | 25 | $\begin{gathered} 25 \\ (+24)^{\wedge \wedge} \end{gathered}$ | 26 | 24 | 25 | 26 | 27 | 28 | 29 | 24 | 25 | 26 |  |  |
| 1970 | 494 | - |  |  | 16 | - |  |  | 149 |  |  |  |  |  |  |  |  |  |  |
| 1971 | 314 | - |  |  | 2 | - |  |  | 107 |  |  |  |  |  |  |  |  |  |  |
| 1972 | 290 | - |  |  | 2 | - |  |  | 78 |  |  |  |  |  |  |  |  |  |  |
| 1973 | 203 | - |  | 44 | 1 | - | 174 | 30 | 75 |  |  |  |  |  |  |  |  |  |  |
| 1974 | 126 | - |  | 10 | 2 | - | 114 | 86 | 60 |  |  |  |  |  |  |  |  |  |  |
| 1975 | 184 | - |  | 67 | 1 | - | 158 | 142 | 45 |  |  |  |  |  |  |  |  |  |  |
| 1976 | 178 | - |  | 82 | 3 | - | 164 | 76 | 44 |  |  |  |  |  |  |  |  |  |  |
| 1977 | 221 | - |  | 36 | 2 | - | 265 | 26 | 41 |  |  |  |  |  |  |  |  |  |  |
| 1978 | 681 | - |  | 1198 | 3 | - | 633 | 290 | 32 |  |  |  |  |  |  |  |  |  |  |
| 1979 | 2027 | - |  | 1604 | 7 | - | 555 | 224 | 113 |  |  |  |  |  |  |  |  |  |  |
| 1980 | 1652 | - |  | 303 | 5 | - | 383 | 53 | 113 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 937 | - |  | 52 | 31 | - | 239 | 27 | 118 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 393 | - |  | 25 | 6 | - | 43 | 64 | 40 | 6 |  | 7 | 1 |  |  |  |  |  |  |
| 1983 | 297 | - |  | 12 | 14 | - | 64 | 12 | 133 | 20 |  | 24 | 2 |  |  |  |  |  |  |
| 1984 | 166 | - |  | 2 | 8 | - | 106 |  | 23 | 3 |  | 4 | 1 |  |  |  |  |  |  |
| 1985 | 771 | - |  | 593 | 40 | - | 119 | 49 | 25 | 4 |  | 5 | 1 |  |  |  |  |  |  |
| 1986 | 1019 | - |  | 372 | 7 | - | 171 | 59 | 48 | 7 |  | 9 | 1 |  |  |  |  |  |  |
| 1987 | 794 | - |  | 142 | 16 | - | 188 | 5 | 68 | 10 |  | 12 | 1 |  |  |  |  |  |  |
| 1988 | 323 | - |  | 16 | 1 | - | 9 | 1 | 49 | 7 |  | 9 | 1 |  |  |  |  |  |  |
| 1989 | 149 | - |  | 5 |  | - | 10 |  | 34 | 5 |  | 6 | 1 |  |  |  |  |  |  |
| 1990 | 100 | - |  | 1 | 1 | - | 6 |  | 50 |  |  |  |  |  |  |  |  |  |  |
| 1991 | 112 | - |  | - | 9 | - | 2 | 1 | 5 | 2 |  | 2 |  |  |  |  |  |  |  |
| 1992 | 74 | - |  | - | 4 | - | 6 |  | 3 | 1 |  | 1 |  |  |  |  |  |  |  |
| 1993 | 66 | - |  | - | 6 | - | 4 |  | 4 |  |  |  |  |  |  |  |  |  |  |
| 1994 | 159 | - |  | - |  | - | 43 | 4 | 4 | 7 |  |  |  |  |  |  |  |  |  |
| 1995 | 343 | - |  | - | 91 | - | 233 | 2 | 13 | 10 | 1 |  |  |  |  |  |  |  |  |
| 1996 | 263 | - |  | - | 77 | - | 183 | 5 | 28 | 23 | 10 | 1 |  |  |  |  |  |  |  |
| 1997 | 201 | - |  | - | 56 | - | 308 | 3 | 7 | 8 |  | 1 |  |  |  |  |  |  |  |
| 1998 | 278 | - |  | - | 41 | - | 101 | 14 | 6 | 17 |  | 1 |  |  |  |  |  |  |  |
| 1999 | 183 | - |  | - | 46 | - | 145 | 1 | 5 | 10 |  |  |  |  |  |  |  |  |  |
| 2000 | 161 | - |  | - | 37 | - | 408 | 3 | 9 | 12 |  |  |  |  |  |  |  |  |  |
| 2001 | 173 | - |  | - | 43 | - | 549 | 3 | 9 | 13 |  |  |  |  |  |  |  |  |  |
| 2002 | 153 | 159 | 0 | - | 137 | 7 | 429 | 3 | 10 | 15 |  |  |  |  |  |  |  | 353 |  |
| 2003 | 326 | 299 | 2 | - | 68 | 25 | 480 | 10 | 16 | 51 |  | 0 | 0 |  |  |  |  | 271 |  |
| 2004 | 167 | 239 |  | - | 50 | 13 | 292 | 8 | 6 | 37 |  |  |  |  |  |  |  | 214 |  |


| Year/SD | Denmark |  |  | Germ. Dem. Rep*24 | Germany, FRG |  | Poland |  | Sweden** |  |  |  |  |  | Finland |  |  | Discards | BMS landings |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 24 \\ (+25)^{\wedge} \end{gathered}$ | 25 | 26+27 |  | $\begin{gathered} 24 \\ (+25)^{\wedge} \end{gathered}$ | 25 | $\begin{gathered} 25 \\ (+24)^{\wedge \wedge} \end{gathered}$ | 26 | 24 | 25 | 26 | 27 | 28 | 29 | 24 | 25 | 26 |  |  |
| 2005 | 164 | 241 |  | - | 90 | 17 | 511 | 11 | 16 | 28 |  | 0 | 0 |  |  |  |  | 166 |  |
| 2006 | 82 | 632 |  | - | 173 | 11 | 52 | 3 | 17 | 41 |  |  | 0 |  |  |  |  | 818 |  |
| 2007 | 408 | 490 | 0 | - | 151 | 12 |  |  | 41 | 61 |  | 0 | 0 |  |  |  |  | 491 |  |
| 2008 | 450 | 339 |  | - | 150 | 10 | 29 | 0 | 45 | 69 |  |  | 0 |  |  |  |  | 294 |  |
| 2009*** | 581 | 359 | <1 | - | 96 | 21 | 42 | 0 | 43 | 79 | 0 | <1 | 0 | 0 | 3 | <1 | 0 | 418 |  |
| 2010 | 345 | 295 | 1 | - | 66 | 13 | 93 | 8 | 22 | 61 | 1 | 0 | 0 | 0 | 2 | <1 | 0 | 998 |  |
| 2011 | 291 | 233 | <1 | - | 109 | 6 | 37 | 1 | 33 | 36 | <1 | 0 | 0 | 0 | 1 | 1 | 0 | 1377 |  |
| 2012 | 477 | 148 | <1 | - | 86 | 4 | 62 | 2 | 23 | 43 | 1 | 0 | 0 | 0 | 2 | <1 | <1 | 917 |  |
| 2013 | 382 | 196 | <1 | - | 46 | 1 | 45 | 5 | 29 | 33 | <1 | 0 | 0 | 0 | 1 | 0 | 0 | 781 |  |
| 2014 | 231 | 118 | 0 | - | 57 | <1 | 80 | 7 | 21 | 19 | <1 | <1 | 0 | 0 | <1 | 0 | 0 | 481 |  |
| 2015 | 145 | 69 | 0 | - | 44 | 1 | 140 | 5 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |  |
| 2016 | 187 | 60 | 1 | - | 93 | 2 | 151 | 3 | 15 | 10 | <1 | <1 | 0 | 0 | 0 | 0 | 0 | 1060 |  |
| 2017 | 124 | 68 | <1 | - | 142 | 1 | 290 | 3 | 5 | 11 | <1 | 0 | 0 | 0 | 0 | 0 | 0 | 408 | 7 |

* From October to December 1990 landings from Fed. Rep. of Germany are included.
** For the years 1970-1981 and 1990 the Swedish catches from subdivisions 25-28 are included in Subdivision 24.
*** From 2009 onwards landings below 0.5 tonnes are given as < 1 , landings $\geq 0.5$ tonnes are given as 1 . Zeros (0) represent true zero landings. Before 2009, a distinction between "true zero landings" and rounded zero landings (< 0.5 tonnes) is not possible.
$\wedge$ Values correspond to landings from subdivisions 24 and 25 combined until 2001, and only from Subdivision 24 afterwards.
$\wedge \wedge$ Values represent mainly landings from Subdivision 25 , but may also contain some landings from Subdivision 24.


## Summary of the assessment

Table $10 \quad$ Plaice in subdivisions 24-32. Assessment summary. Weights are in tonnes.

| Year | Relative <br> recruitment <br> (age 1) | Relative <br> High | Relative <br> Low | Relative <br> SSB | Relative <br> High | Relative <br> Low | Landings* | Discards | Relative $F$ <br> (ages 2-5) | Relative <br> High | Relative <br> Low |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2002 | 0.29 | 0.55 | 0.155 | 0.29 | 0.45 | 0.185 | 915 | 353 | 1.37 | 2.3 | 0.83 |
| 2003 | 0.40 | 0.68 | 0.23 | 0.28 | 0.41 | 0.197 | 1281 | 271 | 1.99 | 3.0 | 1.33 |
| 2004 | 0.59 | 1.04 | 0.33 | 0.31 | 0.43 | 0.23 | 1081 | 214 | 1.29 | 1.89 | 0.88 |
| 2005 | 0.44 | 0.75 | 0.26 | 0.45 | 0.63 | 0.33 | 1081 | 166 | 0.71 | 1.14 | 0.45 |
| 2006 | 0.24 | 0.57 | 0.100 | 0.59 | 0.83 | 0.43 | 1012 | 818 | 0.91 | 1.44 | 0.57 |
| 2007 | 0.189 | 0.58 | 0.062 | 0.60 | 0.81 | 0.44 | 1167 | 491 | 1.05 | 1.64 | 0.67 |
| 2008 | 0.26 | 0.60 | 0.116 | 0.55 | 0.74 | 0.41 | 1102 | 294 | 0.97 | 1.48 | 0.64 |
| 2009 | 0.62 | 1.08 | 0.35 | 0.61 | 0.84 | 0.45 | 1226 | 418 | 0.95 | 1.42 | 0.64 |
| 2010 | 1.29 | 2.4 | 0.68 | 0.75 | 1.04 | 0.54 | 903 | 998 | 1.14 | 1.68 | 0.77 |
| 2011 | 1.35 | 2.7 | 0.68 | 1.01 | 1.50 | 0.68 | 748 | 1377 | 1.26 | 1.87 | 0.85 |
| 2012 | 0.89 | 1.82 | 0.44 | 1.10 | 1.60 | 0.76 | 848 | 917 | 1.17 | 1.84 | 0.74 |
| 2013 | 0.85 | 1.50 | 0.48 | 0.97 | 1.33 | 0.70 | 738 | 781 | 1.16 | 2.1 | 0.64 |
| 2014 | 1.21 | 2.3 | 0.62 | 0.90 | 1.24 | 0.66 | 534 | 481 | 0.58 | 1.39 | 0.24 |
| 2015 | 1.88 | 4.1 | 0.87 | 1.21 | 1.69 | 0.87 | 427 | 220 | 0.53 | 1.06 | 0.27 |
| 2016 | 2.5 | 4.9 | 1.23 | 1.62 | 2.2 | 1.17 | 521 | 1058 | 0.56 | 0.98 | 0.32 |
| 2017 | 3.0 | 6.5 | 1.41 | 2.3 | 3.4 | 1.58 | 650 | 408 | 0.36 | 0.72 | 0.176 |
| 2018 |  |  |  | 3.4 | 5.6 | 2.1 |  |  |  |  |  |

* From 2017 onwards BMS landings are included.


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[^0]:    *Including 7 tonnes of BMS landings.

