



CCSBT-ESC/1208/04 (Rev.2)

## Secretariat Review of Catches (ESC agenda item 4.2)

This paper provides an update of global SBT catch estimates.

### 1) Global SBT Catch by Flag

The global catch by flag is provided at **Attachment A**. The estimated catch for the 2011 calendar year was 10119t.

The figures in Attachment A that differ from those in the report of the 2011 Extended Scientific Committee meeting are shown in bold type. These differences are due to Indonesia providing updated figures for Total Catch by Fleet, and the European Union providing an update to their 2010 Total Catch on 23 January 2012. Please note that the figure for Indonesia for 2010 is being investigated by Indonesia due to discrepancies between the total reported catch and the estimated catch from CDS documents, and subsequently may change as a result of this investigation.

For the Global Catch Table, the following should once again be noted:

- The column for “Retrospective unreported catch estimate scenarios” is separated into a surface fisheries catch scenario and a longline fisheries catch scenario. However, due to confidentiality that still exists in relation to these catch scenarios, the Secretariat recommends that the global catch table in the ESC report should:
  - exclude the retrospective catch estimate scenarios; and
  - contain the following explanatory text:  
*“Reviews of southern bluefin tuna data presented to a Special Meeting of the Commission in 2006 suggested that the catches may have been substantially under-reported over the previous 10 to 20 years, and the data presented here do not yet include estimates for this unreported catch”*

In addition, due to confidentiality concerns, the Secretariat recommends that Attachment A of the present paper be excluded from the public domain.

### 2) Trade Information and Catch Documentation Scheme statistics

At ESC12, the meeting requested that the Secretariat provide Trade Information Scheme (TIS) information for future meetings of the ESC.

The complete details of the TIS scheme are available on the CCSBT web site at:

[http://www.ccsbt.org/docs/pdf/about\\_the\\_commission/trade\\_information\\_scheme.pdf](http://www.ccsbt.org/docs/pdf/about_the_commission/trade_information_scheme.pdf)

It should be noted that the TIS was not designed for estimating global catches and that the TIS has a number of major limitations in relation to estimation of global catches. These limitations include:

- The scheme only considers exports of SBT. Domestically consumed SBT are not covered by the scheme;

- For tuna farms, the scheme records the final weight of the farmed product, not the weight of the original catch (there are however, separate national TIS reporting requirements for farmed tuna).
- Japan does not treat landings from the New Zealand charter fleet as being imports, so the catch of these vessels often does not appear in the TIS.
- There are significant time lags between catch, export and import for some SBT fisheries. This results in lengthy delays (up to 2 years) before full catch information is available.
- The scheme involves reporting of net weights and product types on TIS documents, but no conversion factors have been agreed for converting these to whole weight estimates.
- Full details (including catching year, area and product type) from the TIS are only received when SBT are exported to a CCSBT Member or Cooperating Non-Member. When SBT is exported to a non member, the Secretariat receives net weight and export date from the exporter, but there is no requirement to provide product type or any catch details.

The Trade Information Scheme ended on 31 December 2009, and was replaced by the Catch Documentation Scheme as of 1 January 2010. Subsequently, data reported for 2010 and 2011 are taken from the CDS scheme.

The complete details of the CDS scheme are available on the CCSBT web site at: [http://www.ccsbt.org/userfiles/file/docs\\_english/operational\\_resolutions/Resolution\\_CDS.pdf](http://www.ccsbt.org/userfiles/file/docs_english/operational_resolutions/Resolution_CDS.pdf)

As the CDS Scheme is designed to document all catch of SBT (including Domestic Landings as well as Trade/Exports), the figures for 2010 and 2011 (taken from the CDS scheme) should much more accurately reflect the actual catch of SBT as shown in Attachment A. However, there are some limitations to the CDS that should be noted:

- The time lags between catch, landing, export and import for some SBT fisheries can result in lengthy delays before all catch information is available
- The scheme involves reporting of net weights and product types on CDS documents, but no conversion factors have been agreed for converting these to whole weight estimates. Conversion Factors are provided on the CDS form in some cases, for some product types.

Bearing in mind the above limitations of the TIS and CDS, Table 1 of Attachment B provides a summary of the catch per year and flag. Table 1(a) uses data obtained from importers under the TIS scheme. Table 1(b) uses data from both Catch Monitoring Forms (for Wild Caught SBT) and Farm Stocking Forms (for Farmed SBT) under the CDS Scheme.

Table 2 shows the conversion factors used in producing Table 1. This table includes conversion factors that have been provided as a part of CDS Catch Monitoring Forms, where a description of the Processed Type provided as 'Other' was provided, along with a related Conversion Factor.

Table 3 shows the net weight of SBT exported to different importing countries. The first full export year for which this type of data is available is 2003. For each year from 2003 to 2011, over 98% of SBT exports were sent to Japan.

**Prepared by the Secretariat**

## **Attachment A**

This Attachment is only available in the Members version of this report

## Summary Statistics from the CCSBT Trade Information Scheme and Catch Documentation Scheme

**Table 1:** Catch estimates from TIS & CDS Documents (for 2010/2011 only). The conversion factors shown in Table 2 were used to convert processed weights into whole weight estimates. Data for 2011 may be incomplete due to time lags in the CDS. No correction is made for missing documents. Due to limitations of the TIS, the TIS will usually underestimate the true weight of the catch. Highlighted cells show cases where TIS/CDS estimates are higher than nationally reported catch, which is unexpected.

Table 1(a): Estimated Whole Weight of Catch (tonnes) from TIS											
Catch Year <sup>(i)</sup>	Australia (farms)	Australia (capture)	Japan	New Zealand	Korea	Taiwan	Indonesia	Philippines	South Africa	CCSBT RMA	Other
2001	9,166	83	0	368	735	1,380	172	43	0	0	286
2002	9,705	21	9	279	966	1,030	74	82	0	9	94
2003	9,697	33	0	306	197	1,148 <sup>(ii)</sup>	49	68	5	9	26
2004	9,110	227	80	390	192	1,196	43	70	0	5	0
2005	10,534	29	84	259	19	750	37	50	0	1	0
2006	9,955	2	32	123	192	732	0	50	0	1	0
2007	11,052	3	0	160	633	723	0	45	25	0	0
2008	8,153	16	3	104	1,321	618	112	50	0	0	0
2009	8,546	150	0	183	597	438	22	47	0	0	0

Table 1(b): Estimated Whole Weight of Catch (tonnes) from CDS											
Catch Year <sup>(iii)</sup>	Australia (farms) <sup>(iv)</sup>	Australia (capture)	Japan	New Zealand	Korea	Taiwan	Indonesia	Philippines	South Africa	CCSBT RMA	Other
2010	3,931	162	2,104	501	867	1,227 <sup>(ii)</sup>	722	43	29	0	0
2011	3,872	86	2,270	553	700	528	662	45	57	0	0

<sup>(i)</sup> Catch year is not recorded on the TIS for farms, so for farms, export year has been used as a proxy for the catch year. With the exception of December catches, the catch for farms and the subsequent export usually occur in the same year.

<sup>(ii)</sup> Taiwan advised that the cases where its reported catch was lower than the TIS/CDS estimate was due to weights for the TIS/CDS being measured at sea, which is not as accurate as its landed weight measurements (which were lower). According to Taiwan's regulations, fishers are requested to report landed weight after the sale of the catch relating to each document. Taiwan advised that the landed whole weight was not higher than its reported catch.

<sup>(iii)</sup> Catch Year is taken from the Harvest Data provided on the Catch Monitoring Form or Farm Stocking Form (for Farms)

<sup>(iv)</sup> Catch data from Farms is taken from the Farm Stocking Forms

**Table 2:** Conversion factors which were actually used to convert processed weights to whole weights in Table 1.

Flag	Product Type	Conversion Factor
NZ, ID, TW	Round	1
NZ, ID, JP, KR, TW, PH, ZA	Gilled and gutted	1.15
NZ, ID, ZA	Dressed	1.8
AU	Dressed	1.2
AU	Gilled and gutted, tail removed	1.176 x processed weight + 1kg per fish
AU	Gutted, gill plate and tail not removed	1.12 x processed weight + 1kg per fish
AU	Headed and Gutted	1.09
AU	Loins	1.42 & 1.54 (depending on Processor)
ID, JP, AU	Fillets	2.5
ID, JP, PH	Other	1.15

**Table 3:** SBT imports by country and year of export. Quantities are expressed in net weights, not whole weights. Re-exports are not included in this table.

Table 3(a): Net Weight of Imports by Country (tonnes) from TIS													
Export Year	Japan	USA	Korea	Belgium	Thailand	United Kingdom	Hong Kong	Australia	Indonesia	Netherlands	France	Singapore	Others*
2003	10,668.7	42.4	8.5	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.0	0.0	0.5
2004	10,155.8	73.3	0.7	4.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7
2005	10,319.8	81.0	72.5	10.8	3.7	0.0	0.0	0.2	0.1	0.0	0.1	0.0	1.2
2006	9,703.6	73.5	68.3	0.0	0.1	2.8	0.2	1.3	0.0	0.0	0.0	0.0	0.7
2007	10,743.4	26.0	33.8	0.0	0.0	0.0	0.1	0.1	0.9	0.0	0.0	0.0	0.0
2008	9,560.2	38.5	99.6	0.0	0.0	7.2	0.7	1.2	23.2	4.7	11.1	0.4	5.8
2009	9,676.7	55.1	4.0	0.0	0.4	1.8	1.2	1.3	0.4	1.2	1.5	3.6	6.2

\* Includes: Canada, Italy, Germany, Malaysia, Portugal, Spain, Switzerland, United Arab Emirates.

Table 3(b): Net Weight of Imports by Country (tonnes) from CDS**													
Export Year	Japan	USA	Korea	South Africa	Thailand	United Kingdom	Hong Kong	Australia	China	Russia	Taiwan	Singapore	Others***
2010	9,074.1	168.3	56.3	1.6	-	7.5	0.1	0.5	2.3	6.4	0.0	14.6	3.9
2011	9,192.8	204.6	65.2	1.9	0.1	-	0.2	1.3	0.3	7.7	0.0	1.2	0.3

\*\* Figures in Table 3(b) are taken from CDS Catch Monitoring Forms where the Export Destination is known

\*\*\* Includes: Malaysia, Mauritius, Switzerland.