SCIENTIFIC COMMITTEE
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ANNUAL REPORT TO THE COMMISSION
PART 1: INFORMATION ON FISHERIES, RESEARCH, AND STATISTICS

WCPFC-SC9-AR/CNM-33

INDONESIA

INDONESIAN FISHERIES IN WCPFC CONVENTION AREA
PART 1

ANNUAL FISHERIES INFORMATION

I. NOMINAL CATCHES IN FISHERIES MANAGEMENT AREA

Total tuna catch for all gears in FMAs 716 and 717 was estimated as below:

TOTAL TUNA CATCH -- ALL GEARS (WCPFC Statistical Area)									
Year	Estimated Tuna Catch (metric tonnes)								
	Skipjack	%	Yellowfin	%	Bigeye	%	Albacore	%	Total tuna
2000	196.297	69%	76.465	27%	11.548	4%			284.309
2001	173.257	68%	70.694	28%	10.448	4%			254.398
2002	173.327	67%	76.100	29%	10.996	4%			260.422
2003	163.575	65%	77.112	31%	11.059	4%			251.746
2004	175.314	67%	76.073	29%	11.229	4%			262.615
2005	173.203	71%	59.450	24%	12.147	5%			244.800
2006	217.310	77%	51.040	18%	14.716	5%			283.065
2007	243.118	76%	62.841	20%	13.533	4%			319.493
2008	255.918	77%	58.352	18%	18.002	5%			332.272
2009	279.985	74%	80.668	21%	18.053	5%			378.706
2010	273.637	78%	64.156	18%	13.472	4%			351.264
2011	270.101	69%	103.595	27%	16.584	4%			390.281
2012	275.435	58%	170.643	36%	25.704	5%			471.782

FMAs	2012 estimates from DGCF statistics								
	Skipjack	%	Yellowfin	%	Bigeye	%	Albacore	%	Total tuna
FMAs 713,714 ,715	175.332	55%	123.043	39%	18.033	6%			316.408
FMAs 716, 717	100.103	64%	47.600	31%	7.671	5%			155.374
FAO Area 71	275.435	58%	170.643	36%	25.704	5%			471.782

NOTE :

1 Percentage of catch composition of 2009, 2010 and 2012 using the P4KSI Species Composition data by gear.

2 The total catch for FMA Areas 716 and 717 is assumed to be the same as the WCFPC Statistical Area catch.

3 **Catch of 2012 is provisional data.**

4 Annual catch estimates of 2012 will be finalized after the 4th annual catch estimate workshop conducted (tentatively during **10-14 June 2013**).

The nominal catches in Fisheries Management Area 716 (IEEZ Sulawesi Sea) and 717 (IEEZ Pacific Ocean) is as the following table.

LONGLINE and PURSE SEINE

LONGLINE (FMAs 716, 717 and High seas)							
Year	Estimated Tuna Catch (metric tonnes)						
	Skipjack	%	Yellowfin	%	Bigeye	%	Total tuna
2000			3.104	80,9%	731	19,1%	3.834
2001			4.001	80,9%	942	19,1%	4.942
2002			6.243	80,9%	1.470	19,1%	7.713
2003			9.209	80,9%	2.168	19,1%	11.377
2004			9.313	80,9%	2.192	19,1%	11.505
2005			10.762	83,0%	2.202	17,0%	12.964
2006			9.482	75,9%	3.011	24,1%	12.493
2007			10.371	83,9%	1.993	16,1%	12.364
2008			12.689	78,0%	3.579	22,0%	16.268
2009			18.221	82,0%	4.000	18,0%	22.221
2010			14.041	92,0%	1.221	8,0%	15.262
2011			13.750	89,0%	1.699	11,0%	15.449
2012			16.729	83,7%	3.266	16,3%	19.995

PURSE SEINE (FMAs 716 and 717)							
Year	Estimated Tuna Catch (metric tonnes)						
	Skipjack	%	Yellowfin	%	Bigeye	%	Total tuna
2000	6.560	69,2%	2.662	28,1%	259	2,7%	9.482
2001	8.456	69,2%	3.432	28,1%	334	2,7%	12.222
2002	13.197	69,2%	5.356	28,1%	521	2,7%	19.074
2003	19.466	69,2%	7.900	28,1%	769	2,7%	28.135
2004	19.684	69,2%	7.989	28,1%	778	2,7%	28.451
2005	22.163	65,2%	10.873	32,0%	968	2,8%	34.004
2006	25.223	75,4%	7.237	21,6%	1.000	3,0%	33.460
2007	21.022	66,9%	9.653	30,7%	734	2,3%	31.409
2008	19.131	69,7%	7.218	26,3%	1.089	4,0%	27.438
2009	28.559	78,0%	6.591	18,0%	1.465	4,0%	36.614
2010	28.349	87,0%	3.259	10,0%	978	3,0%	32.585
2011	27.477	83,0%	4.618	14,0%	891	3,0%	32.986
2012	35.661	74,9%	11.617	24,4%	333	0,7%	47.612

NOTE :

1 Percentage of catch composition of 2009, 2010 and 2012 using the P4KSI Species Composition data by gear.

2 **Catch of 2012 is provisional data.**

POLE and LINE, HAND LINE

POLE-AND-LINE (FMAs 716 and 717)							
Year	Estimated Tuna Catch (metric tonnes)						
	Skipjack	%	Yellowfin	%	Bigeye	%	Total tuna
2000	8.414	78,4%	1.827	17,0%	484	4,5%	10.725
2001	10.846	78,4%	2.355	17,0%	624	4,5%	13.825
2002	16.926	78,4%	3.675	17,0%	975	4,5%	21.576
2003	24.967	78,4%	5.421	17,0%	1.438	4,5%	31.826
2004	25.247	78,4%	5.482	17,0%	1.454	4,5%	32.183
2005	22.209	73,1%	6.581	21,7%	1.606	5,3%	30.396
2006	28.385	80,6%	5.166	14,7%	1.673	4,7%	35.224
2007	28.064	81,0%	5.332	15,4%	1.250	3,6%	34.646
2008	30.448	82,5%	4.590	12,4%	1.855	5,0%	36.893
2009	23.339	87,0%	6.045	10,0%	2.515	3,0%	31.899
2010	29.416	87,0%	3.381	10,0%	1.014	3,0%	33.812
2011	26.458	77,0%	6.983	20,0%	787	2,0%	34.228
2012	51.828	92,7%	1.864	3,3%	2.237	4,0%	55.930
HANDLINE (large-tuna) (FMAs 716 and 717)							
Year	Estimated Tuna Catch (metric tonnes)						
	Skipjack	%	Yellowfin	%	Bigeye	%	Total tuna
2000			398	98,0%	8	2,0%	406
2001			513	98,0%	10	2,0%	523
2002			800	98,0%	16	2,0%	816
2003			1.180	98,0%	24	2,0%	1.204
2004			1.194	98,0%	24	2,0%	1.218
2005			1.393	98,0%	28	2,0%	1.421
2006			1.384	98,0%	28	2,0%	1.412
2007			1.147	98,0%	23	2,0%	1.170
2008			1.097	98,0%	35	2,0%	1.133
2009			3.256	99,0%	33	1,0%	3.289
2010			1.651	98,0%	34	2,0%	1.685
2011			1.658	96,0%	68	4,0%	1.726
2012			2.051	92,1%	177	7,9%	2.228

NOTE :

1 Percentage of catch composition of 2009, 2010 and 2012 using the P4KSI Species Composition data by gear.

2 **Catch of 2012 is provisional data.**

OTHERS (Troll, small-fish HL, gillnet, etc.)

OTHERS (Troll, small-fish HL, gillnet, etc.) (FMAs 716 and 717)							
Year	Estimated Tuna Catch (metric tonnes)						
	Skipjack	%	Yellowfin	%	Bigeye	%	Total tuna
2000	5.785	93,9%	367	5,9%	10	0,2%	6.162
2001	7.458	93,9%	473	5,9%	13	0,2%	7.943
2002	11.638	93,9%	738	5,9%	21	0,2%	12.397
2003	17.167	93,9%	1.088	5,9%	31	0,2%	18.286
2004	17.360	93,9%	1.100	5,9%	31	0,2%	18.491
2005	18.050	93,7%	1.142	5,9%	10	0,4%	19.202
2006	19.588	93,7%	1.240	5,9%	11	0,4%	20.838
2007	19.032	93,7%	1.209	5,9%	81	0,4%	20.322
2008	19.182	93,2%	1.245	5,9%	16	0,4%	21.159
2009	23.484	81,5%	5.187	18,0%	144	0,5%	28.814
2010	17.891	81,5%	3.951	18,0%	110	0,5%	21.953
2011	15.778	71,0%	6.000	27,0%	444	2,0%	22.222
2012	12.614	42,6%	15.338	51,8%	1.658	5,6%	29.610

NOTE :

1 Percentage of catch composition of 2009, 2010 and 2012 using the P4KSI Species Composition data by gear.

2 **Catch of 2012 is provisional data.**

II. THE NUMBER OF FISHING VESSELS OPERATING IN IEEZ SULAWESI SEA AND IEEZ PACIFIC OCEAN

Gear	Size Class (GRT)	2012
Longline (in IEEZ FMA716-717)	-	
	0-50	18
	50-200	52
	200-500	0
	500+	1
Pole and Line (in IEEZ FMA716-717)	0-50	2
	50-150	4
	150+	0
Purse seine (in IEEZ FMA716-717)	0-500	120
	500-1,000	3
	1,000-1,500	0
	1,500+	0
Troll (in IEEZ FMA716-717)	0-10	N/A
	10-50	N/A
	50-200	N/A
	200-500	N/A
	500+	N/A

III. THE INDONESIAN FISHING FLEET STRUCTURE REGISTERED IN WCPFC, 2012

NO	FLEET	NUMBER
1	Tuna Long Line	150
2	Purse Seiner	72
3	Pole and Liner	23
4	Gillnetter	1
5	Support Vessel	182
6	Non Specified vessel	2
	Total	**430**

IV. DEVELOPMENTS/TRENDS IN THE FISHERY (CHANGES IN FISHING PATTERNS, FLEET OPERATIONS, TARGET SPECIES, LEVEL OF TRANSHIPMENT, ETC.)

During 2011 Indonesia fishing vessels have started joins the transhipment programme. In 2012, there were 5 (five) fishing vessels joined the transhipment programme (as shown in Table below).

Table. Transhipment Program, 2012

No.	Name of Fishing Vessel (Call sign)	Name of Receiving Vesselss	NOTIFICATION DECLARATION							NOTIFICATION DECLARATION									
			Proposed Date and Location of Transhipment							Actual Transhipment									
			Date	Location	Total weight (Kgs)					Date	Location	Total weight (Kgs)					Master's Name Fishing Vessels	Master's Name Carrier	WCPFC Observer Name
					Bigeye	Yellowfin	Swordfish	ALB	Others			Bigeye	Yellowfin	Swordfish	Stripped Marlin	ALB			
1	MINAFA (PNNQ)	TAIHO MARU	02-Feb-12	High sea	93.386	11.599	15.571	-	-	01-Feb-12	WCPFC	94.580	12.020	11.060	880	4.820	Tjuk Arief Sunarjanto	Toshimi Oi	Nikotemo Tiaoti
2	TOMIO (YBMH)	TAIHO MARU	01-Feb-12	High sea	45.350	1.549	5.591	-	-	04-Feb-12	WCPFC	46.280	1.920	6.620	-	-	Paskah Halomoan T	Toshimi Oi	Nikotemo Tiaoti
3	MINAKO (YHVB)	TAIHO MARU	07-Feb-13	High sea	35.915	6.870	9.145	-	-	07-Feb-13	WCPFC	36.600	7.080	8.820	80	-	Sarwono Sup	Toshimi Oi	Nikotemo Tiaoti
4	ALIZA (PNYF)	TAIHO MARU	12-Des-12	High sea	100.980	14.718	8.062	4.324	-	18-Des-12	WCPFC	117.458	16.728	9.700	674	3.570	Tri Panji Rapiandi	Toshimi Oi	Hannah Malcolm Rava
5	TOMIO (YBMH)	TAIHO MARU	14-Des-12	High sea	69.904	11.004	6.699	-	5.893	13-Des-12	WCPFC	71.000	11.004	6.699	1.036	5.893	Paskah Halomoan T	Toshimi Oi	Hannah Malcolm Rava

V. SPECIFIC INFORMATION ABOUT IMPELEMTATION OF CMM (SEABIRD, CETACEAN, WHITE-TIP SHARK) will be provided, if data is available.

VI. DISPOSAL OF CATCH (FRESH/FROZEN/OTHER)/MARKET DESTINATION (EXPORT)

The detail of the Indonesia export of tuna product I 2011-2012 (January to November) as shown in the table below:

No.	Disposal of Tuna Production	2011		2012 (Jan-Nov)	
		Volume (Kgs)	Value (US$)	Volume (Kgs)	Value (US$)
1	Fresh Tuna	13.332.109	88.026.271	9.218.943	62.979.166
2	Frozen Tuna/Skipjack	58.452.825	131.413.987	85.726.255	207.525.812
3	Canned Tuna (others)	69.989.252	279.150.989	66.537.091	322.273.805
	Total	**141.774.186**	**498.591.247**	**161.482.289**	**592.778.783**

VI. SUMMARY OF OBSERVER AND PORT SAMPLING PROGRAMMES (SCIENTIFIC DATA)

In terms of national observer program, Ministry of Marine Affairs and Fisheries has released Regulation Number 01 Year 2013 concerning observer programme. DGCF has organized national observer training since 2006. During 2006 - 2012, Indonesia has trained 58 persons of ex-fishing vessel crew and 34 government employees. This training program was financed by Indonesia Government, OFCF-Japan, and Japan Trust Fund. On 2012, Indonesia has deployed 14 observers for 14 fishing vessels on November 2012.

VII. RESEARCH ACTIVITIES (TUNAS, OTHER SPECIES, SPECIES OF SPECIAL INTEREST, OCEANOGRAPHIC INFLUENCES, ETC.)

Catch Composition:

Figure Catch composition of long line, purse seine, hand line and pole and line based at Bitung in 2012

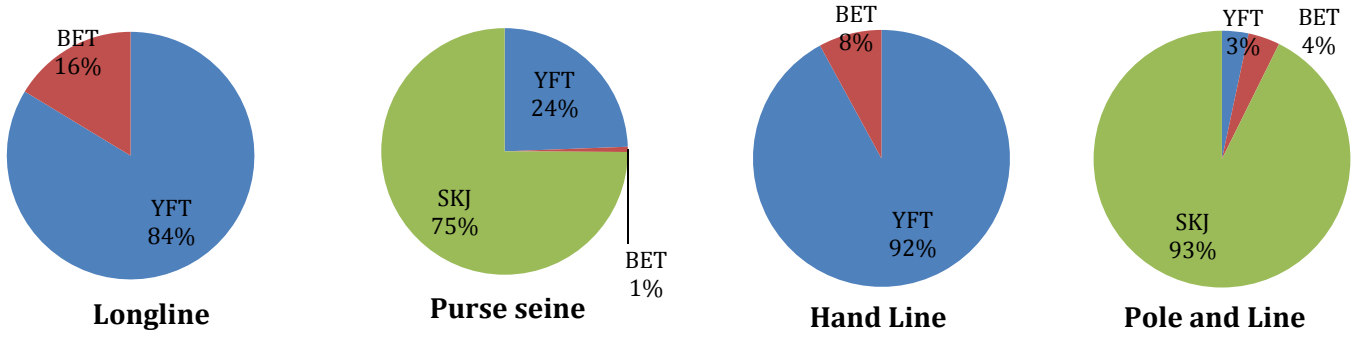
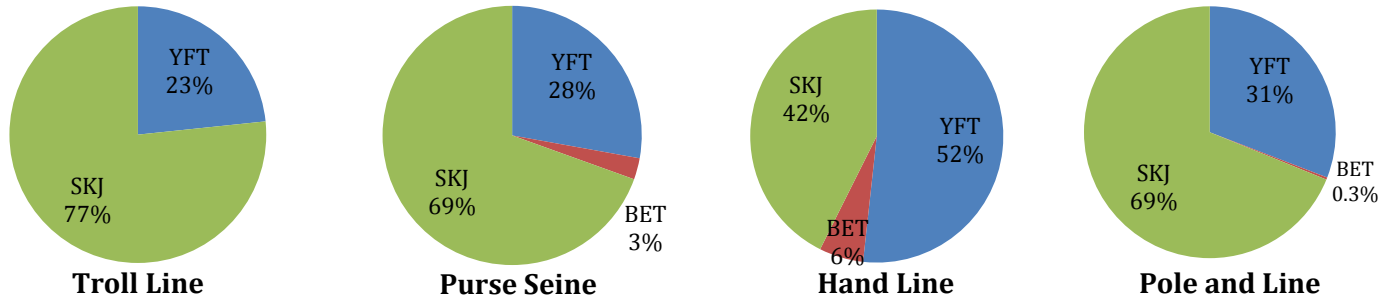


Figure Catch composition of troll line, purse seine, hand line, and pole and line based at Kendari in 2012



Size Distribution (data riset/port sampling)

Catch Rate

Fishing Ground

VIII. STATISTICAL DATA COLLECTION SYSTEMS IN USE

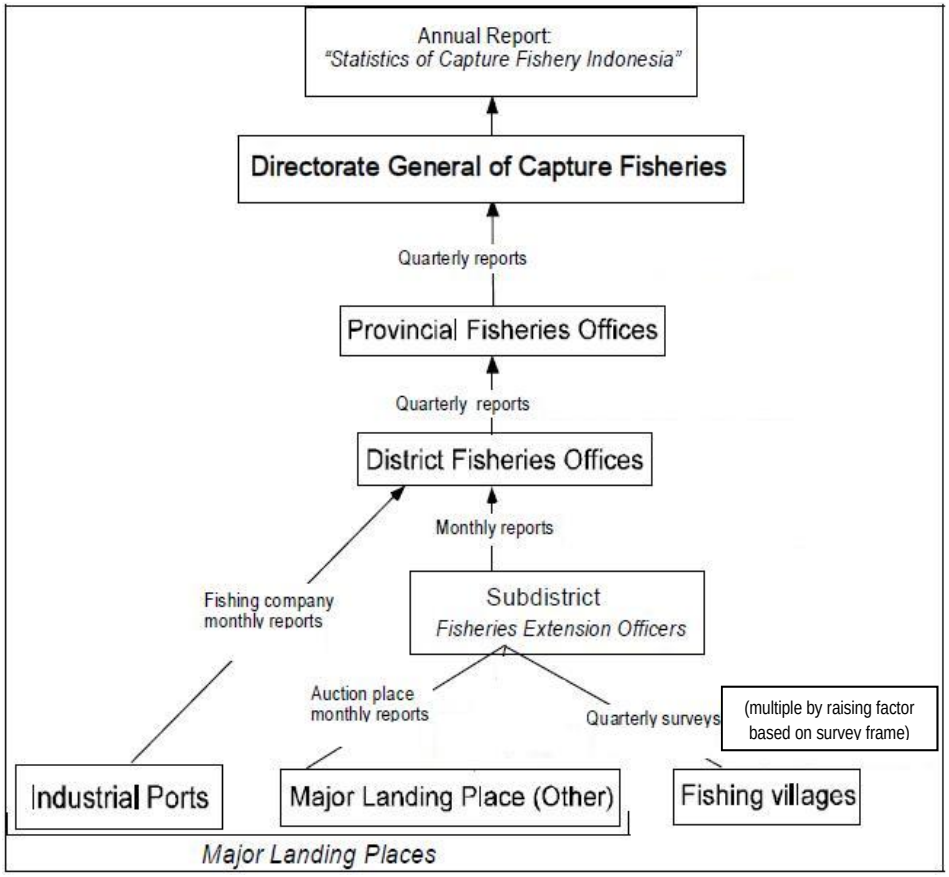
The statistical data collection system was designed on 1973. In 1974, Government started established and developed of statistical system. In 1976, Government implemented the survey method on national-wide, also developed survey frame based on the 1973 Agriculture Census. In 1974, government started data collection based on the Potential Village. During 1984-1989 Government has been improved data collection method. 1990 – Now, Government has been strengthening data collection method, data collection form, data processing, species breakdown, fisheries management area, etc.

Organization and Job Duties

1. Directorate General of Capture Fisheries has responsible for designing survey method, supervision of the survey, tabulation/compilation, analyzing, and publishing of National Capture Fisheries Statistics
2. Province Fisheries Services has responsible for selecting sampling village at district level, supervision of the survey at the district level, tabulation/compilation, analyzing, and publishing of Provincial Capture Fisheries Statistics
3. District Fisheries Services has responsible for supervision, collecting of data, processing/estimation of the survey form, and reporting statistical fisheries data at district level.
4. Field Enumerators has responsible for collecting data in field.

The Generalized Procedure of Data Acquisition

- Refers to the landing. Fisheries data collection system sourced fishing port and industrial port/processor (census for powered boat) and sampling village (multiple raising factors for non-powered boat) at district level.
- The total catch from districts are aggregated per province and are validated and published in the annual fishery report by national government
- The generalized procedure of data acquisition shown on the flowchart bellow:


Annual Report:
"Statistics of Capture Fishery Indonesia"
Directorate General of Capture Fisheries
Quarterly reports
Provincial Fisheries Offices
Quarterly reports
District Fisheries Offices
Monthly reports
Fishing company monthly reports
Subdistrict
Fisheries Extension Officers
Auction place monthly reports
Quarterly surveys
(multiple by raising factor based on survey frame)
Industrial Ports
Major Landing Place (Other)
Fishing villages
Major Landing Places