



**SCIENTIFIC COMMITTEE
TWELFTH REGULAR SESSION**

Bali, Indonesia
3–11 August 2016

ESTIMATES OF ANNUAL CATCHES IN THE WCPFC STATISTICAL AREA

WCPFC-SC12-2016/ST-IP-01

Paper prepared by

Oceanic Fisheries Programme (OFP)
Secretariat of the Pacific Community (SPC)
Noumea, New Caledonia

Introduction

Estimates of annual catches in the WCPFC Statistical Area (Figure 1) are presented for target tuna species, i.e., albacore (*Thunnus alalunga*) bigeye (*Thunnus obesus*), skipjack (*Katsuwonus pelamis*) and yellowfin (*Thunnus albacares*), and major billfish species, i.e., black marlin (*Makaira indica*), blue marlin (*Makaira mazara*), striped marlin (*Tetrapturus audax*) and swordfish (*Xiphias gladius*). Estimates of catches of southern bluefin tuna (*Thunnus maccoyii*) are compiled by the Commission for the Conservation of Southern Bluefin Tuna (CCSBT).

Target Tuna Species

Tables 1–7 and Figures 2 and 3 present estimates of annual catches of target tunas in the WCPFC Statistical Area. For a breakdown of recent catch estimates by gear and flag, see WCPFC (2015). For discussion regarding trends, see Williams & Terawasi (2016).

Recent studies using observer data (e.g. Lawson, 2007, Lawson, 2010, Lawson, 2012, Hampton and Williams, 2011, Hampton and Williams, 2015, Hampton and Williams, 2016) show that the logsheet-reported catch, mainly for associated sets, should contain higher quantities of yellowfin and bigeye tuna that have been misreported as skipjack tuna. Purse-seine catch estimates that have been adjusted with species compositions determined from observer grab samples corrected for size selectivity bias (see Lawson, 2010, Lawson, 2012 and Lawson, 2013) are presented as the official purse-seine catch estimates in Table 5. All composite tables and figures referring to purse-seine species catch are consistent with the Table 5 estimates of purse-seine catches of skipjack, yellowfin and bigeye tuna.

Tables 7–10 present estimates of annual catches of target tunas in the WCPO Area and the EPO Area (Figure 1) by gear type. Tables 11–13 present estimates of annual catches of target tunas for the WCPO, the EPO and the Pacific Ocean by species. Tables 14 and 15, and Figures 4 and 5 present global catches of target tunas, by species and ocean area, respectively.

Tuna Discards

Observer data have been used to determine the discard rates for albacore, bigeye and yellowfin and bigeye caught by longliners (Table 16) and skipjack, yellowfin and bigeye caught by purse seiners (Table 17).

Tuna discards by longliners in the WCPFC Statistical Area during 1994–2015 were estimated by applying discard rates by flag and year, determined from observer data, to tuna species catch estimates, by flag and year, and then summing the tuna discards (by species) across all flags. Discard rates for flag/year combinations where there were insufficient data (defined as (i) less than 10 observer trips or (ii) less than 500 fish samples available), were substituted with discard rates determined for year (with all flags combined). The total discard rate for the three target tuna species caught by longliners during the period was 2.1%. During 2015, the estimated tuna discard was 1.1% and based on available observer data, most of the bigeye and yellowfin tuna discards comprised of fish less than 95 cm (Figures 6 and 7), noting that many discarded tuna are also not available to be measured by the observer.

Tuna discards by purse seiners in the WCPFC Statistical Area during 1995–2015 were estimated by applying discard rates by flag, year and school association (unassociated and associated), determined from observer data, to tuna species catch estimates, by flag, year and school association, and then summing the tuna discards (by species) across all flags. Discard rates for flag/year/school association combinations where there were insufficient data (defined as (i) less than 5 observer trips or (ii) less than 1,000 mt of catch observed), were substituted with discard rates determined for school association (with all years/flags combined) for years prior to 2008, and substituted with discard rates determined for year/school association (with all flags combined) for years since 2008. This method was used since an analysis of variance of discard rates for skipjack, yellowfin and bigeye caught by purse seiners indicated that species, school association and flag, but not year, were significant predictors. However, in recent years, there have been management measures (CMM 2009-02) introduced to restrict the discard of tuna which means that the year effect has been considered in the estimation process for recent years. The total discard rate for the three target tuna species

caught by purse seiners during this period was 2.6%, with an estimated 2.8% discarded in 2015. [Note that the reporting of purse-seine discards by vessel is a requirement under CMM 2009-02 and is independent to the estimates produced in this paper].

Major Billfish Species

Table 18 presents estimates of commercial catches of the four major billfish species by gear type. Table 19 and Figure 8 present estimates of the major billfish catches for all gear types combined. Tables 20 and 21 present estimates of commercial catches of striped marlin and swordfish in the WCPFC Statistical Area north and south of the equator respectively. Table 22 present estimates of commercial catches of albacore, striped marlin and swordfish in the Pacific Ocean, south of the equator.

REFERENCES

- Hampton J. & P.G. Williams 2011. Misreporting of purse seine catches of skipjack and yellowfin-bigeye on logsheets. Working Paper ST-WP-2. Seventh Regular Session of the Scientific Committee of the WCPFC. Pohnpei, FSM. 9th–17th August 2011.
- Hampton J. & P.G. Williams 2016. ANNUAL ESTIMATES OF PURSE SEINE CATCHES BY SPECIES BASED ON ALTERNATIVE DATA SOURCES. Working Paper ST-WP-3. Twelfth Regular Session of the Scientific Committee of the WCPFC. Pohnpei, Federated States of Micronesia. (SC12) 3–11 August 2016.
- Harley S. & P.G. Williams 2013. Fishery indicators for bigeye, skipjack, and yellowfin tunas in the WCPO, and swordfish in the southern WCPO. Working Paper SA-WP-6. Ninth Regular Session of the Scientific Committee of the WCPFC. Pohnpei, FSM. 6–14 August 2013. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia
- Lawson, T.A. 2007. Further analysis of the proportion of bigeye in ‘yellowfin plus bigeye’ caught by purse seiners in the WCPFC Statistical Area. Information Paper ST-IP-5. Third Regular Session of the WCPFC Scientific Committee, 13–24 August 2006, Honolulu, Hawaii, United States of America. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- Lawson, T.A. 2010. Update on the estimation of selectivity bias based on paired spill and grab samples collected by observers on purse seiners in the Western and Central Pacific Ocean. Working Paper ST-WP-2. Sixth Regular Session of the Scientific Committee of the WCPFC. Nuku’alofa, Tonga. 10–19 August 2010.
- Lawson, T.A. 2012. Estimation of the species composition of the catch by purse seiners in the Western and Central Pacific Ocean using grab samples and spill samples collected by observers. Working Paper ST-WP-3. Eighth Regular Session of the Scientific Committee of the WCPFC. Busan, Republic of Korea. 7–15 August 2012.
- Lawson, T.A. 2013. Estimation of the species composition of the catch by purse seiners in the Western and Central Pacific Ocean – a response to recent independent reviews. Working Paper ST-WP-3. Ninth Regular Session of the Scientific Committee of the WCPFC. Pohnpei, FSM. 6–14 August 2013.
- WCPFC. 2015. WCPFC Tuna Fishery Yearbook, 2014. Western and Central Pacific Fisheries Commission, Pohnpei, Federated States of Micronesia.
- Williams, P. & P. Terawasi. 2016. Overview of tuna fisheries in the Western and Central Pacific Ocean, Including Economic Conditions – 2015. Working Paper GN-WP-1. Twelfth Regular Session of the Scientific Committee of the WCPFC. Bali, Indonesia. 3–11 August 2016. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia and Pacific Islands Forum Fisheries Agency, Honiara, Solomon Islands.

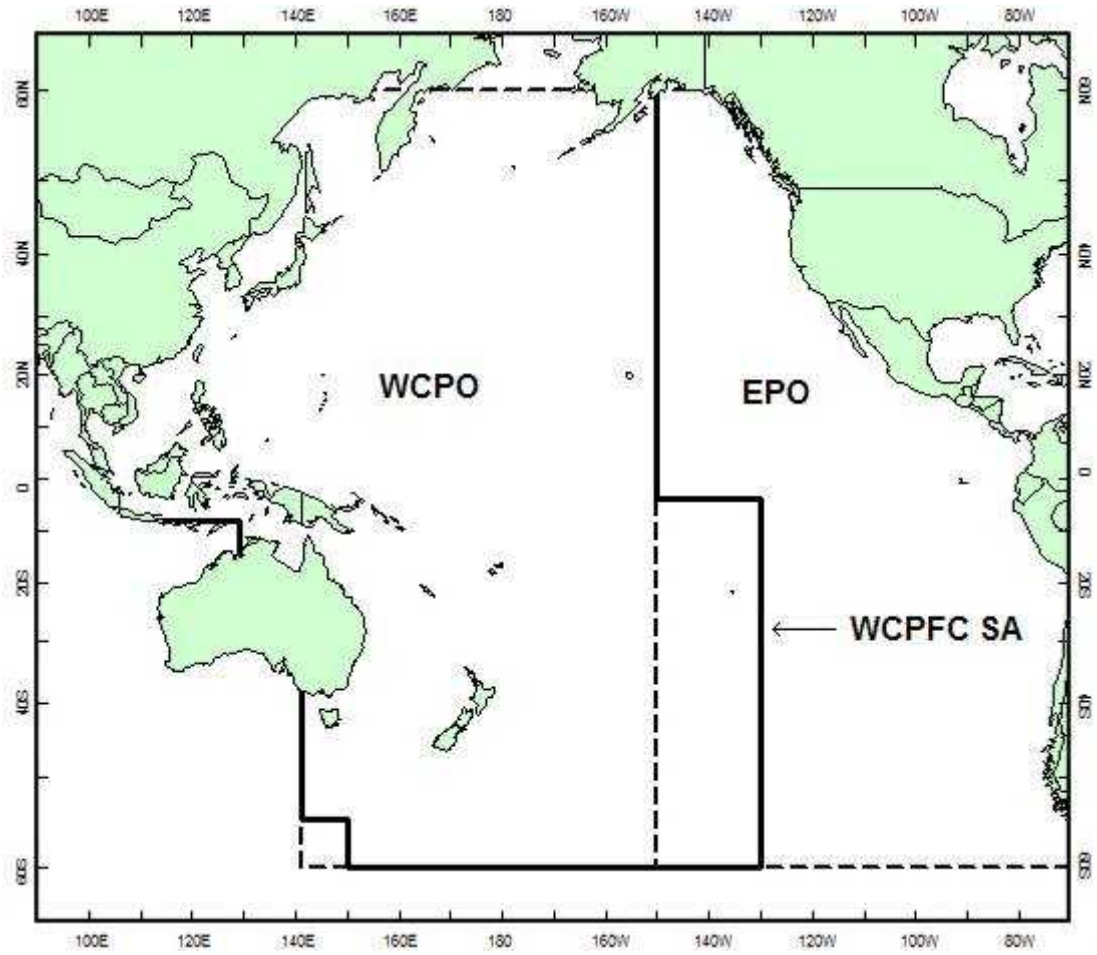


Figure 1. WCPFC Statistical Area (WCPFC SA), the Western and Central Pacific Ocean (WCPO) Area and the Eastern Pacific Ocean (EPO) Area

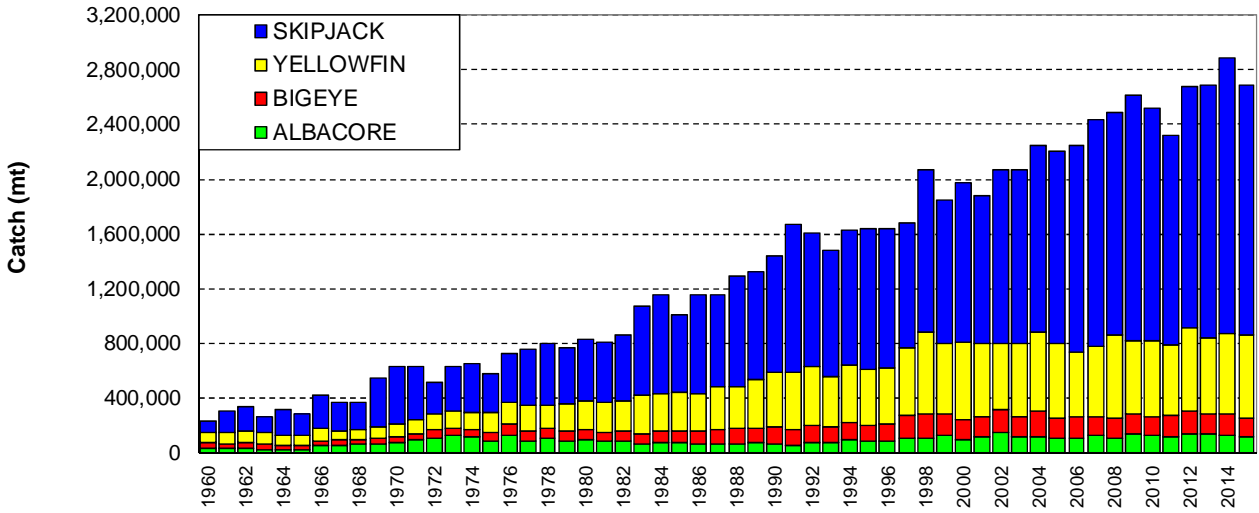


Figure 2. Catches of tuna in the WCPFC Statistical Area, by species

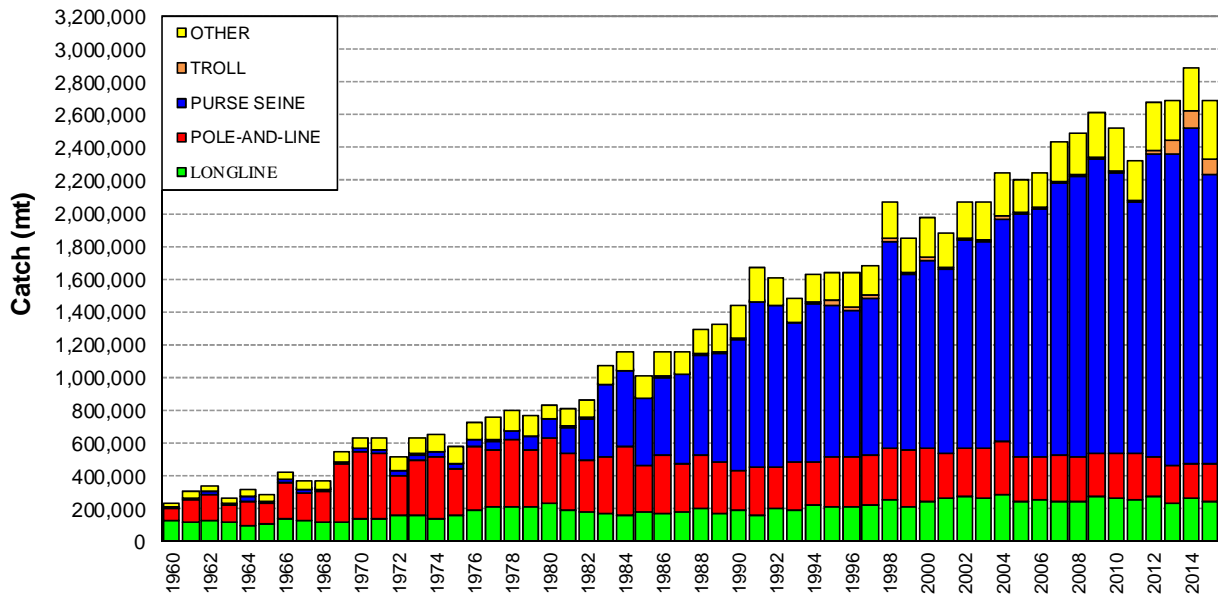


Figure 3. Catches of tuna in the WCPFC Statistical Area, by gear type

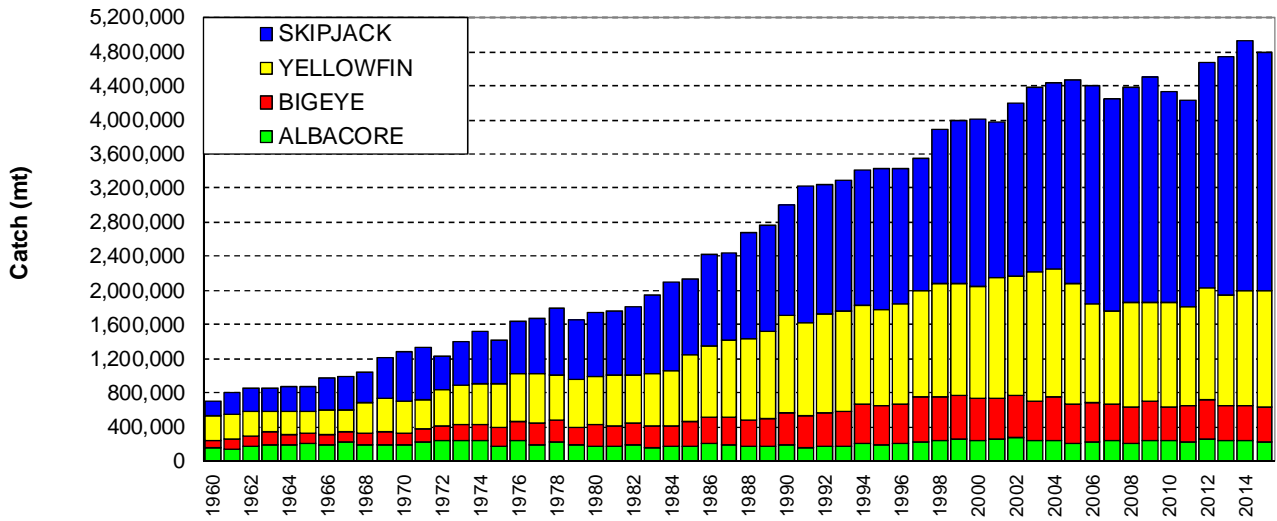


Figure 4. Global catches of tuna, by species

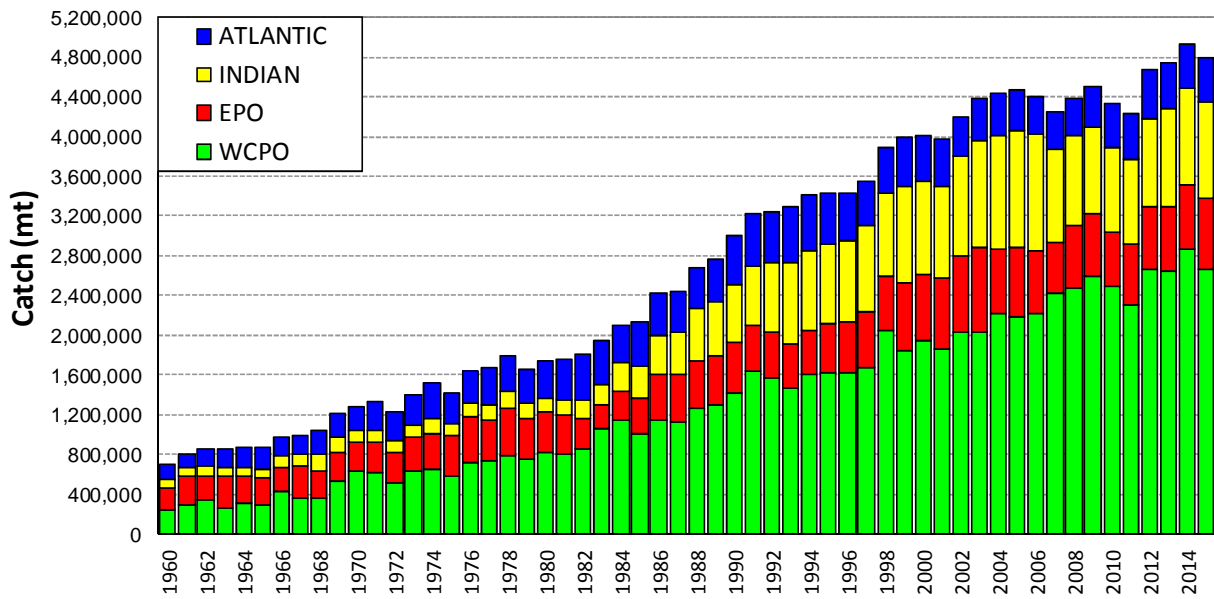


Figure 5. Global catches of tuna, by ocean area

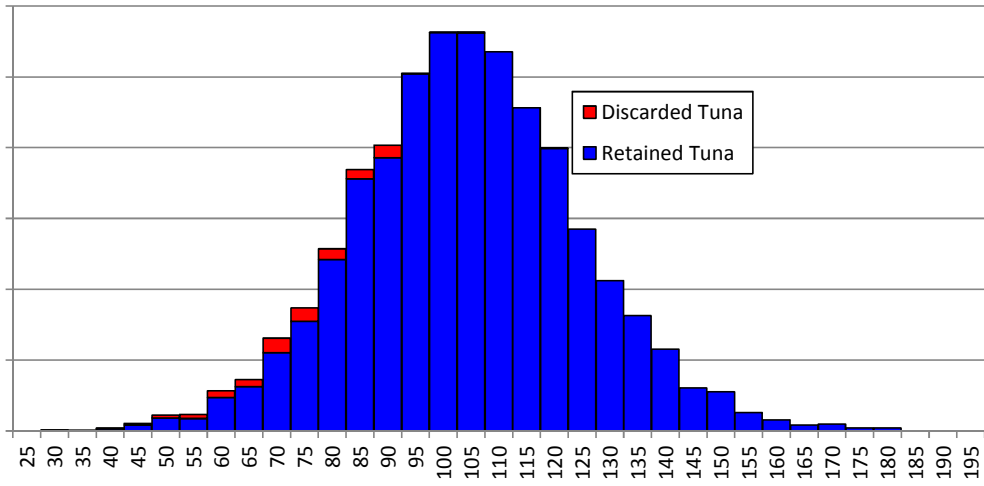


Figure 6. Longline bigeye tuna discard by size categories, 2015.
(Based on available unweighted, observer data)

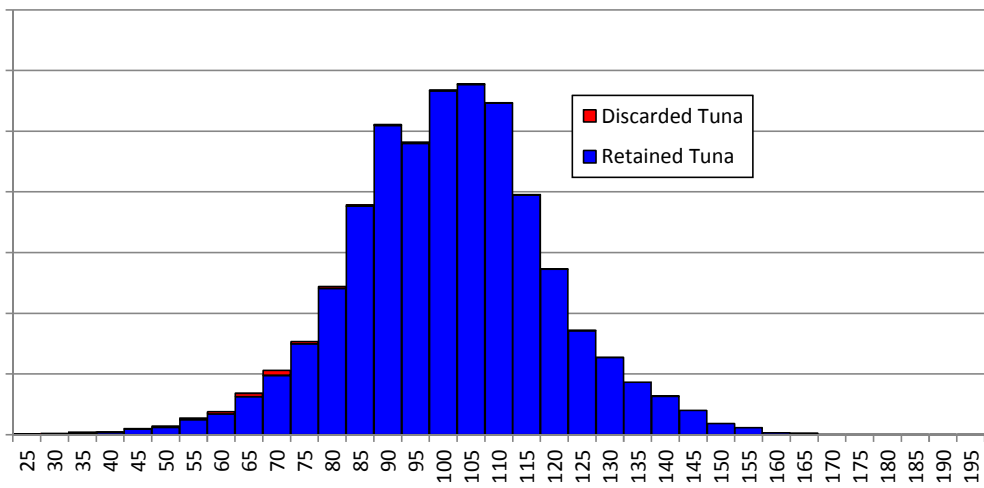


Figure 7. Longline yellowfin tuna discard by size categories, 2015.
(Based on available unweighted, raw observer data)

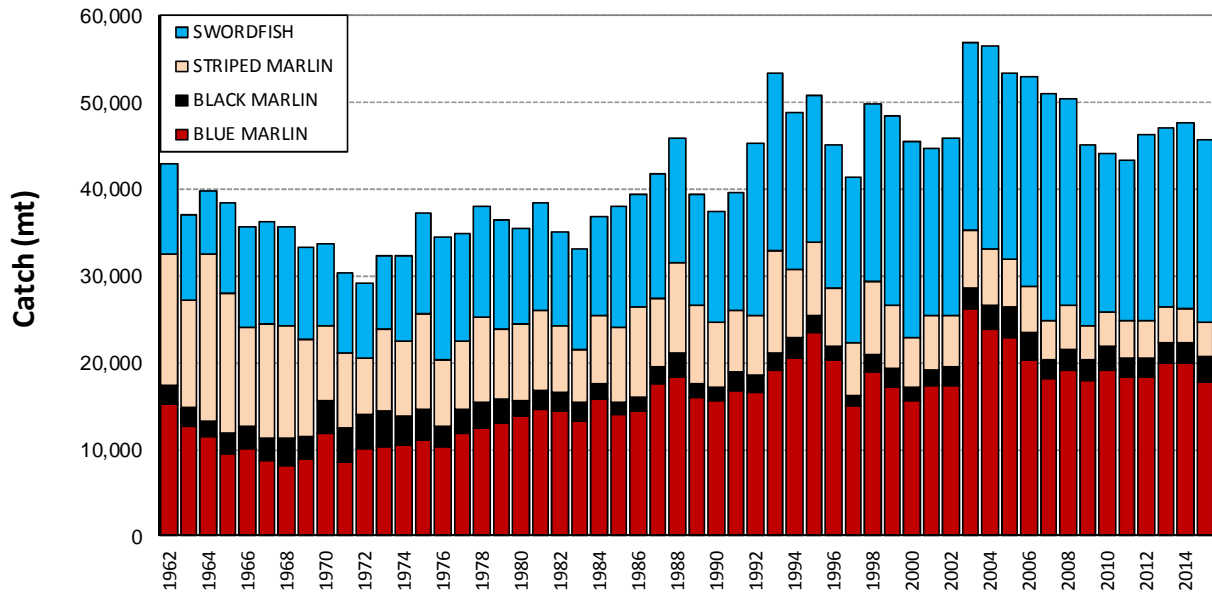


Figure 8. Commercial catches of major billfish species in the WCPFC Statistical Area

Table 1. Catches of target tunas in the WCPFC Statistical Area, by species

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	31,463	13	45,025	19	89,938	37	73,667	31	240,093
1961	32,922	11	39,380	13	156,736	51	75,438	25	304,476
1962	37,602	11	36,868	11	181,624	53	83,944	25	340,038
1963	26,815	10	44,346	16	122,703	46	75,756	28	269,620
1964	26,687	8	32,391	10	182,918	58	74,154	23	316,150
1965	28,735	10	31,333	11	155,221	54	73,635	25	288,924
1966	52,284	12	33,187	8	249,514	58	93,099	22	428,084
1967	58,822	16	36,749	10	204,840	55	68,929	19	369,340
1968	64,213	17	30,426	8	195,031	52	81,904	22	371,574
1969	72,106	13	34,361	6	351,031	64	87,278	16	544,776
1970	74,350	12	40,102	6	423,398	66	99,169	16	637,019
1971	100,737	16	43,233	7	380,853	60	105,152	17	629,975
1972	109,655	21	57,156	11	237,764	46	116,210	22	520,785
1973	131,149	21	48,855	8	328,748	52	128,522	20	637,274
1974	115,162	18	52,808	8	356,200	54	131,545	20	655,715
1975	84,651	15	69,360	12	288,310	49	141,391	24	583,712
1976	132,947	18	82,752	11	357,207	49	153,111	21	726,017
1977	83,171	11	83,315	11	403,610	54	184,009	24	754,105
1978	111,161	14	66,513	8	449,032	56	177,645	22	804,351
1979	86,007	11	73,603	10	412,568	53	199,442	26	771,620
1980	95,156	11	72,281	9	451,467	54	218,434	26	837,338
1981	88,095	11	64,091	8	434,967	54	222,057	27	809,210
1982	89,496	10	71,877	8	478,548	56	222,142	26	862,063
1983	65,988	6	77,405	7	650,214	61	276,657	26	1,070,264
1984	74,540	6	85,772	7	726,571	63	274,124	24	1,161,007
1985	77,060	8	88,440	9	567,250	56	282,678	28	1,015,428
1986	71,757	6	93,605	8	724,206	63	264,420	23	1,153,988
1987	63,645	6	109,515	9	667,822	58	312,041	27	1,153,023
1988	67,948	5	110,076	9	805,606	62	310,000	24	1,293,630
1989	73,533	6	109,450	8	781,224	59	357,160	27	1,321,367
1990	63,872	4	126,061	9	853,881	59	398,386	28	1,442,200
1991	58,322	3	111,704	7	1,072,946	64	425,820	26	1,668,792
1992	74,452	5	130,444	8	968,361	60	432,314	27	1,605,571
1993	77,496	5	110,971	7	923,347	62	372,567	25	1,484,381
1994	96,461	6	127,778	8	986,845	61	414,912	26	1,625,996
1995	91,750	6	115,193	7	1,019,512	62	408,400	25	1,634,855
1996	91,140	6	118,732	7	1,017,012	62	412,143	25	1,639,027
1997	112,900	7	160,241	10	909,814	54	498,232	30	1,681,187
1998	112,465	5	174,841	8	1,175,978	57	601,828	29	2,065,112
1999	131,066	7	154,643	8	1,052,179	57	513,953	28	1,851,841
2000	101,171	5	142,284	7	1,162,895	59	566,217	29	1,972,567
2001	121,561	6	145,545	8	1,089,349	58	528,502	28	1,884,957
2002	147,793	7	166,307	8	1,266,825	61	483,545	23	2,064,470
2003	122,949	6	140,592	7	1,263,196	61	539,832	26	2,066,569
2004	122,343	5	190,231	8	1,356,838	60	575,548	26	2,244,960
2005	105,135	5	148,333	7	1,404,576	64	547,453	25	2,205,497
2006	104,986	5	157,818	7	1,505,993	67	479,767	21	2,248,564
2007	126,701	5	142,594	6	1,657,707	68	511,580	21	2,438,582
2008	104,966	4	151,231	6	1,629,291	65	603,215	24	2,488,703
2009	135,476	5	149,868	6	1,793,798	69	537,210	21	2,616,352
2010	124,898	5	137,281	5	1,696,669	67	555,816	22	2,514,664
2011	115,966	5	158,361	7	1,528,210	66	519,674	22	2,322,211
2012	142,963	5	163,695	6	1,765,219	66	606,868	23	2,678,745
2013	137,801	5	153,308	6	1,844,239	69	553,843	21	2,689,191
2014	125,674	4	159,489	6	2,005,647	70	591,701	21	2,882,511
2015	120,043	4	134,084	5	1,827,750	68	605,963	23	2,687,840

Table 2. Catches of target tunas in the WCPFC Statistical Area, by gear type

YEAR	LONGLINE		POLE-AND-LINE		PURSE SEINE		TROLL		OTHER		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	129,874	54	73,800	31	5,224	2	0	0	31,195	13	240,093
1961	123,330	41	132,070	43	14,540	5	0	0	34,536	11	304,476
1962	128,804	38	157,412	46	18,875	6	0	0	34,947	10	340,038
1963	122,263	45	98,628	37	11,934	4	0	0	36,795	14	269,620
1964	102,481	32	143,323	45	29,012	9	0	0	41,334	13	316,150
1965	103,955	36	134,621	47	8,621	3	0	0	41,727	14	288,924
1966	145,278	34	218,900	51	16,913	4	0	0	46,993	11	428,084
1967	128,047	35	174,774	47	14,508	4	5	0	52,006	14	369,340
1968	120,136	32	183,954	50	15,143	4	14	0	52,327	14	371,574
1969	122,806	23	354,784	65	9,483	2	0	0	57,703	11	544,776
1970	141,360	22	409,754	64	16,222	3	50	0	69,633	11	637,019
1971	143,625	23	392,914	62	24,511	4	0	0	68,925	11	629,975
1972	161,533	31	242,745	47	29,030	6	268	0	87,209	17	520,785
1973	166,399	26	330,841	52	36,269	6	484	0	103,281	16	637,274
1974	145,192	22	370,499	57	29,548	5	898	0	109,578	17	655,715
1975	164,049	28	279,663	48	27,685	5	646	0	111,669	19	583,712
1976	198,013	27	382,627	53	40,770	6	25	0	104,582	14	726,017
1977	218,413	29	345,257	46	53,492	7	621	0	136,322	18	754,105
1978	212,059	26	407,482	51	52,040	6	1,686	0	131,084	16	804,351
1979	211,221	27	344,799	45	90,102	12	814	0	124,684	16	771,620
1980	230,625	28	398,498	48	116,757	14	1,489	0	89,969	11	837,338
1981	191,732	24	348,917	43	158,559	20	2,118	0	107,884	13	809,210
1982	179,575	21	316,457	37	255,489	30	2,552	0	107,990	13	862,063
1983	175,498	16	342,287	32	442,152	41	949	0	109,378	10	1,070,264
1984	162,111	14	415,016	36	462,278	40	3,124	0	118,478	10	1,161,007
1985	177,722	18	287,892	28	409,534	40	3,468	0	136,812	13	1,015,428
1986	169,129	15	360,864	31	474,838	41	2,284	0	146,873	13	1,153,988
1987	179,966	16	294,879	26	543,979	47	2,350	0	131,849	11	1,153,023
1988	200,774	16	327,997	25	608,995	47	4,671	0	151,193	12	1,293,630
1989	170,876	13	311,981	24	664,659	50	8,687	1	165,164	12	1,321,367
1990	188,842	13	247,104	17	795,527	55	7,219	1	203,508	14	1,442,200
1991	160,889	10	290,006	17	1,006,764	60	8,004	0	203,129	12	1,668,792
1992	199,688	12	259,762	16	975,741	61	6,844	0	163,536	10	1,605,571
1993	195,377	13	293,014	20	846,116	57	4,612	0	145,262	10	1,484,381
1994	221,367	14	262,721	16	971,565	60	7,493	0	162,850	10	1,625,996
1995	217,417	13	298,301	18	927,490	57	23,585	1	168,062	10	1,634,855
1996	215,466	13	301,279	18	896,443	55	17,807	1	208,032	13	1,639,027
1997	226,375	13	298,666	18	959,215	57	18,732	1	178,199	11	1,681,187
1998	251,197	12	323,645	16	1,257,392	61	19,099	1	213,779	10	2,065,112
1999	219,024	12	338,480	18	1,068,961	58	13,476	1	211,900	11	1,851,841
2000	247,904	13	319,854	16	1,143,294	58	25,845	1	235,670	12	1,972,567
2001	264,291	14	272,483	14	1,118,920	59	17,329	1	211,934	11	1,884,957
2002	281,369	14	286,202	14	1,265,453	61	16,129	1	215,317	10	2,064,470
2003	261,346	13	303,905	15	1,258,225	61	19,875	1	223,218	11	2,066,569
2004	284,782	13	322,179	14	1,354,240	60	23,445	1	260,314	12	2,244,960
2005	250,167	11	266,735	12	1,479,330	67	13,293	1	195,972	9	2,205,497
2006	255,328	11	257,594	11	1,512,945	67	10,098	0	212,599	9	2,248,564
2007	245,129	10	284,661	12	1,655,499	68	9,249	0	244,044	10	2,438,582
2008	245,495	10	269,551	11	1,709,352	69	11,740	0	252,565	10	2,488,703
2009	279,027	11	264,350	10	1,785,791	68	9,898	0	277,286	11	2,616,352
2010	270,077	11	270,123	11	1,703,134	68	11,320	0	260,010	10	2,514,664
2011	260,309	11	275,070	12	1,535,528	66	11,973	1	239,331	10	2,322,211
2012	272,079	10	242,960	9	1,850,697	69	14,018	1	298,991	11	2,678,745
2013	239,871	9	229,560	9	1,895,376	70	85,828	3	238,556	9	2,689,191
2014	261,238	9	211,082	7	2,051,970	71	99,691	3	258,530	9	2,882,511
2015	243,547	9	228,129	8	1,766,070	66	95,861	4	354,233	13	2,687,840

Table 3. LONGLINE catches in the WCPFC Statistical Area, by species

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	31,387	24	43,467	33	0	0	55,020	42	129,874
1961	32,647	26	37,517	30	0	0	53,166	43	123,330
1962	37,358	29	35,895	28	4	0	55,547	43	128,804
1963	26,538	22	42,540	35	0	0	53,185	44	122,263
1964	26,240	26	30,989	30	5	0	45,247	44	102,481
1965	28,603	28	29,848	29	11	0	45,493	44	103,955
1966	51,588	36	31,984	22	52	0	61,654	42	145,278
1967	58,208	45	33,632	26	124	0	36,083	28	128,047
1968	46,226	38	27,757	23	83	0	46,070	38	120,136
1969	38,478	31	32,571	27	130	0	51,627	42	122,806
1970	48,981	35	34,965	25	1,608	1	55,806	39	141,360
1971	46,025	32	38,359	27	1,475	1	57,766	40	143,625
1972	47,774	30	51,040	32	1,544	1	61,175	38	161,533
1973	59,835	36	42,412	25	1,861	1	62,291	37	166,399
1974	39,299	27	45,653	31	2,124	1	58,116	40	145,192
1975	31,180	19	61,488	37	1,919	1	69,462	42	164,049
1976	45,022	23	73,325	37	2,096	1	77,570	39	198,013
1977	48,789	22	72,083	33	3,127	1	94,414	43	218,413
1978	42,260	20	56,364	27	3,233	2	110,202	52	212,059
1979	36,295	17	63,837	30	2,179	1	108,910	52	211,221
1980	42,343	18	62,537	27	632	0	125,113	54	230,625
1981	47,272	25	46,590	24	756	0	97,114	51	191,732
1982	43,876	24	48,578	27	972	1	86,149	48	179,575
1983	36,784	21	46,311	26	2,144	1	90,259	51	175,498
1984	31,277	19	52,976	33	870	1	76,988	47	162,111
1985	38,012	21	58,629	33	1,108	1	79,973	45	177,722
1986	41,702	25	56,989	34	1,439	1	68,999	41	169,129
1987	33,398	19	68,832	38	2,329	1	75,407	42	179,966
1988	41,694	21	68,288	34	1,937	1	88,855	44	200,774
1989	30,147	18	64,916	38	2,507	1	73,306	43	170,876
1990	32,170	17	77,009	41	363	0	79,300	42	188,842
1991	35,459	22	61,033	38	885	1	63,512	39	160,889
1992	45,551	23	75,966	38	432	0	77,739	39	199,688
1993	56,183	29	66,566	34	573	0	72,055	37	195,377
1994	59,629	27	79,175	36	379	0	82,184	37	221,367
1995	60,388	28	68,125	31	598	0	88,306	41	217,417
1996	61,590	29	58,054	27	3,935	2	91,887	43	215,466
1997	72,643	32	68,597	30	4,070	2	81,065	36	226,375
1998	80,042	32	85,048	34	5,030	2	81,077	32	251,197
1999	68,834	31	74,959	34	4,208	2	71,023	32	219,024
2000	69,582	28	76,912	31	4,559	2	96,851	39	247,904
2001	85,022	32	78,670	30	5,059	2	95,540	36	264,291
2002	89,894	32	92,381	33	3,450	1	95,644	34	281,369
2003	78,794	30	83,016	32	3,824	1	95,712	37	261,346
2004	76,967	27	99,705	35	4,051	1	104,059	37	284,782
2005	83,069	33	78,597	31	1,084	0	87,417	35	250,167
2006	85,246	33	83,560	33	1,528	1	84,994	33	255,328
2007	80,170	33	81,350	33	1,175	0	82,434	34	245,129
2008	79,039	32	82,016	33	803	0	83,637	34	245,495
2009	99,128	36	79,736	29	1,219	0	98,944	35	279,027
2010	101,816	38	71,549	26	1,191	0	95,521	35	270,077
2011	85,487	33	76,735	29	1,124	0	96,963	37	260,309
2012	100,583	37	82,516	30	2,004	1	86,976	32	272,079
2013	97,741	41	64,420	27	1,254	1	76,456	32	239,871
2014	86,615	33	73,404	28	1,895	1	99,324	38	261,238
2015	80,596	33	63,986	26	1,676	1	97,289	40	243,547

Table 4. POLE-AND-LINE catches in the WCPFC Statistical Area, by species

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	0	0	1,500	2	70,428	95	1,872	3	73,800
1961	0	0	1,800	1	127,011	96	3,259	2	132,070
1962	0	0	800	1	152,387	97	4,225	3	157,412
1963	0	0	1,800	2	94,757	96	2,071	2	98,628
1964	0	0	1,143	1	137,106	96	5,074	4	143,323
1965	0	0	1,254	1	129,933	97	3,434	3	134,621
1966	0	0	1,108	1	215,600	98	2,192	1	218,900
1967	0	0	2,803	2	168,846	97	3,125	2	174,774
1968	16,597	9	2,272	1	162,379	88	2,706	1	183,954
1969	32,148	9	1,675	0	315,795	89	5,166	1	354,784
1970	24,485	6	1,589	0	379,074	93	4,606	1	409,754
1971	53,451	14	931	0	333,284	85	5,248	1	392,914
1972	60,691	25	1,762	1	172,827	71	7,465	3	242,745
1973	68,908	21	1,258	0	253,217	77	7,458	2	330,841
1974	73,676	20	1,039	0	289,202	78	6,582	2	370,499
1975	52,257	19	1,334	0	218,271	78	7,801	3	279,663
1976	85,436	22	3,423	1	276,582	72	17,186	4	382,627
1977	32,034	9	3,325	1	294,641	85	15,257	4	345,257
1978	59,977	15	3,337	1	331,401	81	12,767	3	407,482
1979	44,762	13	2,540	1	285,859	83	11,638	3	344,799
1980	46,843	12	2,916	1	333,597	84	15,142	4	398,498
1981	27,426	8	3,382	1	296,065	85	22,044	6	348,917
1982	29,615	9	4,993	2	264,726	84	17,123	5	316,457
1983	21,098	6	5,077	1	298,928	87	17,184	5	342,287
1984	26,015	6	4,557	1	366,811	88	17,633	4	415,016
1985	20,714	7	5,529	2	238,932	83	22,717	8	287,892
1986	16,096	4	4,133	1	322,665	89	17,970	5	360,864
1987	19,091	6	4,602	2	252,142	86	19,044	6	294,879
1988	6,216	2	5,890	2	295,325	90	20,566	6	327,997
1989	8,629	3	6,131	2	275,088	88	22,133	7	311,981
1990	8,777	4	5,985	2	211,573	86	20,769	8	247,104
1991	7,117	2	3,929	1	259,778	90	19,182	7	290,006
1992	13,899	5	4,055	2	218,765	84	23,043	9	259,762
1993	12,871	4	4,505	2	255,152	87	20,486	7	293,014
1994	26,456	10	5,251	2	209,636	80	21,378	8	262,721
1995	21,120	7	6,228	2	247,744	83	23,209	8	298,301
1996	20,302	7	7,940	3	242,486	80	30,551	10	301,279
1997	32,259	11	6,563	2	236,999	79	22,845	8	298,666
1998	22,962	7	6,405	2	266,772	82	27,506	8	323,645
1999	50,507	15	5,856	2	255,330	75	26,787	8	338,480
2000	21,652	7	6,838	2	264,407	83	26,957	8	319,854
2001	29,467	11	5,905	2	212,668	78	24,443	9	272,483
2002	48,472	17	6,109	2	207,488	72	24,133	8	286,202
2003	36,126	12	5,296	2	238,179	78	24,304	8	303,905
2004	32,365	10	9,238	3	249,936	78	30,640	10	322,179
2005	16,162	6	6,851	3	216,715	81	27,007	10	266,735
2006	15,429	6	9,781	4	208,731	81	23,653	9	257,594
2007	37,785	13	7,296	3	213,010	75	26,570	9	284,661
2008	19,072	7	9,204	3	218,570	81	22,705	8	269,551
2009	31,193	12	7,916	3	201,323	76	23,918	9	264,350
2010	19,575	7	7,027	3	223,409	83	20,112	7	270,123
2011	25,734	9	5,655	2	206,843	75	36,838	13	275,070
2012	33,783	14	3,934	2	170,538	70	34,705	14	242,960
2013	33,602	15	5,009	2	169,025	74	21,924	10	229,560
2014	33,602	16	4,714	2	148,684	70	24,082	11	211,082
2015	33,602	15	5,667	2	152,600	67	36,260	16	228,129

Table 5. PURSE SEINE catch estimates in the WCPFC Statistical Area, by species.
(original catches have been adjusted with species compositions determined from observer grab samples corrected for size selectivity bias)

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	0	0	58	1	3,728	71	1,438	28	5,224
1961	7	0	63	0	11,693	80	2,777	19	14,540
1962	53	0	173	1	11,674	62	6,975	37	18,875
1963	59	0	6	0	9,592	80	2,277	19	11,934
1964	128	0	231	1	25,006	86	3,647	13	29,012
1965	11	0	201	2	4,657	54	3,752	44	8,621
1966	111	1	9	0	10,949	65	5,844	35	16,913
1967	89	1	61	0	10,940	75	3,418	24	14,508
1968	267	2	193	1	7,640	50	7,043	47	15,143
1969	521	5	53	1	5,036	53	3,873	41	9,483
1970	317	2	580	4	7,501	46	7,824	48	16,222
1971	902	4	700	3	13,665	56	9,244	38	24,511
1972	277	1	664	2	18,025	62	10,064	35	29,030
1973	1,353	4	736	2	19,235	53	14,945	41	36,269
1974	161	1	1,129	4	10,852	37	17,406	59	29,548
1975	159	1	1,326	5	13,101	47	13,099	47	27,685
1976	1,109	3	1,650	4	22,422	55	15,589	38	40,770
1977	669	1	1,953	4	34,602	65	16,268	30	53,492
1978	1,115	2	2,481	5	33,169	64	15,275	29	52,040
1979	125	0	2,260	3	58,388	65	29,329	33	90,102
1980	329	0	2,742	2	78,942	68	34,744	30	116,757
1981	252	0	9,495	6	93,905	59	54,907	35	158,559
1982	561	0	14,164	6	164,748	64	76,016	30	255,489
1983	350	0	21,313	5	299,482	68	121,007	27	442,152
1984	3,380	1	23,192	5	310,482	67	125,224	27	462,278
1985	1,533	0	18,107	4	273,304	67	116,590	28	409,534
1986	1,542	0	26,137	6	335,137	71	112,022	24	474,838
1987	1,205	0	30,529	6	354,649	65	157,596	29	543,979
1988	1,208	0	29,095	5	449,767	74	128,925	21	608,995
1989	2,521	0	30,956	5	444,948	67	186,234	28	664,659
1990	1,995	0	34,945	4	547,186	69	211,401	27	795,527
1991	2,652	0	37,395	4	720,558	72	246,159	24	1,006,764
1992	4,104	0	44,222	5	658,107	67	269,308	28	975,741
1993	2,889	0	34,230	4	589,565	70	219,432	26	846,116
1994	2,026	0	35,529	4	699,638	72	234,372	24	971,565
1995	1,177	0	32,430	3	680,529	73	213,354	23	927,490
1996	581	0	42,382	5	664,842	74	188,638	21	896,443
1997	1,068	0	77,151	8	573,267	60	307,729	32	959,215
1998	1,554	0	73,838	6	794,174	63	387,826	31	1,257,392
1999	6,872	1	64,765	6	686,403	64	310,921	29	1,068,961
2000	2,408	0	48,134	4	763,351	67	329,401	29	1,143,294
2001	974	0	51,530	5	759,671	68	306,745	27	1,118,920
2002	3,303	0	58,229	5	944,280	75	259,641	21	1,265,453
2003	627	0	42,440	3	904,713	72	310,445	25	1,258,225
2004	7,200	1	70,174	5	960,369	71	316,497	23	1,354,240
2005	850	0	58,120	4	1,056,706	71	363,654	25	1,479,330
2006	364	0	59,347	4	1,154,329	76	298,905	20	1,512,945
2007	5,682	0	48,660	3	1,277,734	77	323,423	20	1,655,499
2008	825	0	55,399	3	1,235,583	72	417,545	24	1,709,352
2009	2,077	0	56,825	3	1,416,942	79	309,947	17	1,785,791
2010	330	0	54,381	3	1,308,561	77	339,862	20	1,703,134
2011	480	0	70,120	5	1,166,386	76	298,542	19	1,535,528
2012	4,193	0	64,153	3	1,404,488	76	377,863	20	1,850,697
2013	1,998	0	71,575	4	1,477,873	78	343,930	18	1,895,376
2014	1,998	0	66,095	3	1,633,616	80	350,261	17	2,051,970
2015	1,998	0	48,772	3	1,416,453	80	298,847	17	1,766,070

Table 6. Catches of target tunas in the WCPFC Statistical Area, by flag

YEAR	AUSTRALIA	BELIZE	CANADA	CHINA	COOK ISLANDS	ECUADOR	EL SALVADOR	FEDERATED STATES OF MICRONESIA
1960	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-
1970	100	-	-	-	-	-	-	-
1971	100	-	-	-	-	-	-	-
1972	100	-	-	-	-	-	-	-
1973	100	-	-	-	-	-	-	-
1974	100	-	-	-	-	-	-	-
1975	2,000	-	-	-	-	-	-	-
1976	147	-	-	-	-	-	-	-
1977	131	-	-	-	-	-	-	-
1978	375	-	-	-	-	-	-	-
1979	100	-	-	-	-	-	-	-
1980	117	-	-	-	-	-	-	-
1981	357	-	-	-	-	-	-	-
1982	238	-	-	-	-	-	-	-
1983	230	-	-	-	-	-	-	-
1984	147	-	-	-	-	-	-	-
1985	18	-	-	-	-	-	-	-
1986	101	-	-	-	-	-	-	-
1987	1,455	-	-	-	-	-	-	-
1988	1,752	-	235	44	-	-	-	-
1989	2,836	-	235	144	-	-	-	-
1990	6,983	-	235	453	-	-	-	-
1991	9,380	-	235	1,007	-	-	-	11,338
1992	9,524	-	235	2,715	-	-	-	15,472
1993	7,212	-	235	6,419	-	-	-	16,908
1994	5,415	-	235	12,677	32	-	-	20,941
1995	6,288	54	235	10,586	63	-	-	6,759
1996	5,249	129	136	6,026	59	-	-	7,394
1997	7,550	77	149	3,664	-	-	-	8,254
1998	5,153	276	167	3,272	22	-	-	14,179
1999	7,551	211	253	7,515	56	-	-	10,881
2000	6,997	270	351	6,244	335	3,992	-	21,688
2001	5,279	7,143	206	9,947	206	1,057	599	17,646
2002	5,232	3,385	144	15,632	770	427	1,488	20,607
2003	5,809	2,697	-	42,210	2,462	1,562	74	30,829
2004	4,200	943	63	42,606	3,207	3,051	-	28,471
2005	3,093	1,056	72	62,734	3,125	5,193	-	28,302
2006	5,030	632	135	77,382	2,841	9,523	-	10,774
2007	4,404	595	27	73,698	3,266	9,187	6,025	15,440
2008	3,969	225	-	86,451	2,817	25,415	10,962	19,424
2009	3,646	190	-	119,639	2,054	4,429	8,824	21,154
2010	2,566	127	-	83,241	3,058	8,451	7,371	23,801
2011	2,924	220	1	105,274	3,636	18,045	12,226	28,785
2012	2,221	194	-	91,302	5,382	23,145	11,411	38,983
2013	2,221	252	-	121,299	1,948	21,442	13,273	27,053
2014	2,594	252	-	89,368	2,181	17,216	17,480	40,870
2015	3,601	-	-	72,794	1,764	11,378	7,229	55,884

Table 6 continued

YEAR	FJI ISLANDS	FRENCH POLYNESIA	INDONESIA	JAPAN	KIRIBATI	REPUBLIC OF KOREA	MARSHALL ISLANDS	MEXICO
1960	—	—	7,415	206,606	—	744	—	—
1961	—	—	8,054	269,191	—	385	—	—
1962	—	—	8,749	302,176	—	708	—	—
1963	—	—	9,505	228,717	—	1,955	—	—
1964	—	—	10,327	270,506	—	2,527	—	—
1965	—	—	11,223	232,844	—	7,078	—	—
1966	—	—	12,198	355,838	—	13,405	—	—
1967	—	—	13,260	281,568	—	14,469	—	—
1968	—	—	14,417	273,603	—	10,794	—	—
1969	—	—	15,677	442,850	—	17,077	—	—
1970	—	—	17,600	505,452	—	16,927	—	—
1971	—	—	18,100	471,129	—	16,541	—	—
1972	—	—	28,600	341,854	—	17,678	—	—
1973	—	—	32,500	418,048	—	25,938	—	—
1974	12	—	33,779	429,014	—	14,105	—	—
1975	11	—	34,378	358,037	—	29,343	—	—
1976	742	—	33,375	474,987	—	44,464	—	—
1977	1,711	—	37,235	459,318	—	43,722	—	—
1978	2,524	—	40,024	513,391	—	33,102	—	—
1979	3,494	696	50,973	466,434	—	41,915	—	—
1980	2,496	936	58,282	522,844	1,812	46,096	—	—
1981	5,836	1,001	66,579	460,646	2,376	33,310	—	—
1982	4,428	1,034	72,359	501,943	2,269	39,684	—	—
1983	3,741	836	81,685	554,560	3,406	37,589	—	468
1984	4,572	1,250	91,802	639,034	3,843	33,293	—	6,600
1985	3,946	836	99,918	511,605	2,531	44,292	—	—
1986	3,125	961	104,027	590,885	3,226	63,034	—	—
1987	3,889	878	131,376	504,820	2,246	91,201	—	—
1988	3,891	715	152,704	599,082	3,284	113,653	—	—
1989	5,189	856	165,050	517,619	4,094	139,904	—	—
1990	3,830	2,109	174,573	471,098	2,407	204,399	—	—
1991	5,298	2,335	178,542	490,677	2,036	247,950	—	—
1992	4,790	2,019	205,268	472,795	2,363	213,553	9	—
1993	4,966	2,387	188,046	516,860	2,104	150,165	137	—
1994	5,937	2,804	208,582	473,786	3,131	226,531	48	—
1995	7,009	3,343	222,269	481,106	5,423	206,176	22	—
1996	6,803	3,583	344,955	417,584	6,645	174,948	—	—
1997	4,354	4,564	256,670	507,798	7,021	188,667	—	—
1998	4,013	5,710	338,881	543,367	9,389	247,930	—	—
1999	4,075	5,200	321,618	482,046	9,793	173,490	—	—
2000	9,660	6,833	342,203	498,958	14,725	207,498	7,560	—
2001	11,309	7,733	314,888	439,331	5,401	216,691	35,774	—
2002	11,551	7,347	302,659	451,896	9,830	254,593	38,952	—
2003	10,854	6,309	308,731	469,809	6,898	221,079	37,875	—
2004	17,312	5,496	406,483	441,599	6,661	212,655	46,676	—
2005	15,477	5,089	247,514	481,852	9,165	237,353	56,164	—
2006	15,472	5,938	285,844	445,977	6,723	274,859	42,349	—
2007	10,042	6,408	321,890	472,400	18,020	278,482	59,409	—
2008	13,627	5,673	334,585	432,795	18,373	275,132	33,013	—
2009	16,828	6,878	388,635	399,646	34,004	310,139	43,973	—
2010	12,545	6,250	358,254	430,226	38,947	300,213	57,225	—
2011	16,307	6,028	397,442	368,405	59,611	231,570	75,581	—
2012	14,978	7,273	443,316	395,631	74,108	290,293	79,045	—
2013	12,782	6,695	526,236	379,194	77,782	245,372	75,775	—
2014	13,663	7,175	482,917	361,931	114,156	292,011	83,361	—
2015	13,085	7,281	432,078	344,141	142,623	282,842	88,430	—

Table 6 continued

YEAR	NAURU	NEW CALEDONIA	NEW ZEALAND	NIUE	PALAU	PAPUA NEW GUINEA	PHILIPPINES	PORTUGAL
1960	-	-	-	-	-	-	20,585	-
1961	-	-	-	-	-	-	21,735	-
1962	-	-	-	-	-	-	22,957	-
1963	-	-	-	-	-	-	24,252	-
1964	-	-	-	-	1,166	-	25,626	-
1965	-	-	-	-	2,670	-	27,084	-
1966	-	-	-	-	2,686	-	28,632	-
1967	-	-	5	-	3,406	-	30,275	-
1968	-	-	14	-	5,056	-	32,021	-
1969	-	-	-	-	4,762	-	33,875	-
1970	-	-	50	-	8,082	2,428	52,000	-
1971	-	-	-	-	2,143	16,974	57,200	-
1972	-	-	268	-	1,519	13,130	60,700	-
1973	-	-	484	-	2,350	28,216	70,900	-
1974	-	-	899	-	6,808	41,630	81,188	-
1975	-	-	647	-	6,269	17,369	84,450	-
1976	-	-	25	-	5,323	32,921	73,653	-
1977	-	-	621	-	4,012	24,115	118,149	-
1978	-	-	1,701	-	9,694	48,859	87,319	-
1979	-	-	830	-	5,688	26,857	94,308	-
1980	-	-	1,519	-	6,576	33,994	77,505	-
1981	-	229	2,111	-	9,411	31,412	94,616	-
1982	-	868	2,436	-	4,053	-	104,046	-
1983	-	461	6,565	-	-	-	118,529	-
1984	-	150	7,005	-	-	2,744	105,217	-
1985	-	281	5,713	-	97	9,300	137,308	-
1986	-	367	6,793	-	131	-	145,097	-
1987	-	1,102	5,035	-	161	-	141,461	-
1988	-	1,092	3,923	-	157	-	124,785	-
1989	-	871	10,323	-	77	-	151,124	-
1990	-	1,730	7,120	-	88	-	202,214	-
1991	-	1,536	7,765	-	-	-	221,817	-
1992	-	1,092	4,524	-	213	-	165,652	-
1993	-	1,294	4,415	-	206	8	134,921	-
1994	-	1,355	8,513	-	184	1,380	172,558	-
1995	-	1,274	8,147	-	100	12,701	198,613	-
1996	-	1,201	10,194	-	100	10,572	205,004	-
1997	-	977	10,451	-	107	19,399	208,767	-
1998	-	1,543	15,154	-	100	50,726	235,586	-
1999	-	1,616	10,141	-	100	38,981	226,320	-
2000	11	1,662	18,918	-	240	68,818	234,519	-
2001	13	1,718	17,533	-	62	92,807	210,786	-
2002	7	1,926	38,574	-	4	124,705	226,863	-
2003	20	2,007	30,614	-	20	159,621	264,106	-
2004	3	2,189	33,886	6	35	225,441	271,760	-
2005	-	2,114	27,917	105	-	235,439	274,247	-
2006	-	1,807	27,410	286	-	233,170	291,564	-
2007	-	1,770	38,969	306	-	230,014	320,567	-
2008	3	1,993	33,878	435	-	205,682	360,187	-
2009	8	2,187	30,618	189	-	213,018	328,047	-
2010	4	2,488	26,951	110	-	208,253	285,594	-
2011	11	2,362	25,312	-	-	164,558	193,915	7
2012	11	2,337	21,661	-	-	240,055	233,386	18
2013	19	2,314	27,687	-	-	194,301	229,394	175
2014	19	2,429	22,907	-	-	236,823	287,190	94
2015	19	2,504	9,425	-	-	215,764	290,847	21

Table 6 continued

YEAR	RUSSIA	SAMOA	SENEGAL	SOLOMON ISLANDS	SPAIN	CHINESE TAIPEI	TONGA
1960	-	-	-	-	-	4,035	-
1961	-	-	-	-	-	4,485	-
1962	-	-	-	-	-	4,779	-
1963	-	-	-	-	-	4,642	-
1964	-	-	-	-	-	5,482	-
1965	-	-	-	-	-	7,524	-
1966	-	-	-	-	-	14,812	-
1967	-	-	-	-	-	25,911	-
1968	-	-	-	-	-	35,302	-
1969	-	-	-	-	-	30,096	-
1970	-	-	-	-	-	33,887	-
1971	-	-	-	4,711	-	42,640	-
1972	-	-	-	7,905	-	48,612	-
1973	-	-	-	6,624	-	51,807	-
1974	-	-	-	10,332	-	37,501	-
1975	-	-	-	7,094	-	43,804	-
1976	-	-	-	15,763	-	43,546	-
1977	-	-	-	12,202	-	50,858	-
1978	-	-	-	18,353	-	46,606	-
1979	-	-	-	24,289	-	43,450	-
1980	-	-	-	23,241	-	48,323	-
1981	-	-	-	22,832	-	37,900	-
1982	-	-	-	20,071	-	32,644	205
1983	-	-	-	33,432	-	44,457	208
1984	-	-	-	35,616	-	56,407	218
1985	2,111	-	-	29,996	-	55,987	233
1986	4,175	-	-	42,249	-	65,658	252
1987	8,995	-	-	29,438	-	84,558	299
1988	6,189	-	-	40,513	-	117,865	276
1989	4,935	-	-	34,262	-	135,125	235
1990	2,126	-	-	26,612	-	164,640	192
1991	3,715	-	-	46,888	-	213,007	197
1992	2,126	-	-	30,559	-	263,185	225
1993	8,714	300	-	28,006	-	207,231	329
1994	6,722	736	-	33,925	-	223,590	411
1995	-	2,151	-	49,665	-	228,798	461
1996	-	2,375	-	38,697	-	226,436	579
1997	-	5,498	-	47,442	-	217,026	663
1998	-	6,820	-	48,378	1,624	305,354	833
1999	-	5,790	-	45,662	8,613	251,034	1,084
2000	-	5,389	-	12,930	12,896	279,197	1,161
2001	-	5,864	-	17,218	2,402	285,281	1,733
2002	-	4,927	-	18,537	2,288	318,298	1,672
2003	-	2,944	-	26,364	4,659	258,537	971
2004	-	1,967	-	24,904	5,587	260,645	388
2005	-	1,626	6	20,023	3,453	244,345	629
2006	-	2,564	15	29,462	11,825	255,610	759
2007	-	3,559	6	21,244	23,749	276,957	861
2008	-	2,796	-	17,378	36,358	247,220	592
2009	-	3,422	-	17,883	26,688	242,295	271
2010	-	3,090	-	26,907	29,500	250,562	128
2011	-	1,932	-	28,233	39,468	229,095	224
2012	-	2,353	-	28,635	32,199	247,248	171
2013	-	2,022	-	26,435	45,038	260,446	147
2014	-	1,102	-	62,034	40,538	275,356	250
2015	-	1,178	-	60,590	33,272	232,466	357

Table 6 continued

YEAR	TOKELAU	TUVALU	UNITED STATES OF AMERICA	VANUATU	VIETNAM	WALLIS ET FUTUNA	EASTERN PACIFIC NEI	TOTAL
1960	–	–	708	–	–	–	–	240,093
1961	–	–	626	–	–	–	–	304,476
1962	–	–	669	–	–	–	–	340,038
1963	–	–	549	–	–	–	–	269,620
1964	–	–	516	–	–	–	–	316,150
1965	–	–	501	–	–	–	–	288,924
1966	–	–	513	–	–	–	–	428,084
1967	–	–	446	–	–	–	–	369,340
1968	–	–	367	–	–	–	–	371,574
1969	–	–	439	–	–	–	–	544,776
1970	–	–	493	–	–	–	–	637,019
1971	–	–	437	–	–	–	–	629,975
1972	–	–	419	–	–	–	–	520,785
1973	–	–	307	–	–	–	–	637,274
1974	–	–	347	–	–	–	–	655,715
1975	–	–	310	–	–	–	–	583,712
1976	–	–	1,071	–	–	–	–	726,017
1977	–	–	1,359	–	–	–	672	754,105
1978	–	–	1,477	–	–	–	926	804,351
1979	–	–	11,852	–	–	–	734	771,620
1980	–	–	13,483	–	–	–	114	837,338
1981	–	–	40,496	–	–	–	98	809,210
1982	–	216	75,494	–	–	–	75	862,063
1983	–	337	181,593	–	–	–	2,167	1,070,264
1984	–	540	162,381	–	–	–	10,188	1,161,007
1985	–	4	110,031	–	–	–	1,221	1,015,428
1986	–	390	123,517	–	–	–	–	1,153,988
1987	–	632	145,072	–	–	–	405	1,153,023
1988	–	1,090	122,380	–	–	–	–	1,293,630
1989	–	149	148,339	–	–	–	–	1,321,367
1990	–	90	171,301	–	–	–	–	1,442,200
1991	–	29	225,040	–	–	–	–	1,668,792
1992	–	8	209,244	–	–	–	–	1,605,571
1993	–	–	203,518	–	–	–	–	1,484,381
1994	–	–	215,683	820	–	–	–	1,625,996
1995	–	–	176,125	7,276	–	–	211	1,634,855
1996	–	–	158,219	11,497	–	–	642	1,639,027
1997	–	–	154,149	26,164	–	–	1,776	1,681,187
1998	–	–	184,278	39,423	–	–	2,934	2,065,112
1999	–	–	191,739	46,162	–	–	1,910	1,851,841
2000	–	–	135,410	37,545	33,632	–	2,925	1,972,567
2001	–	–	128,503	11,917	35,400	–	510	1,884,957
2002	8	–	136,190	28,031	37,683	–	244	2,064,470
2003	3	–	101,004	28,443	37,458	–	2,600	2,066,569
2004	3	–	79,395	66,793	50,521	–	2,014	2,244,960
2005	6	19	97,870	88,391	52,409	–	709	2,205,497
2006	6	12	81,165	76,148	52,573	–	709	2,248,564
2007	8	26	103,576	82,758	54,210	–	709	2,438,582
2008	8	22	221,186	47,892	49,903	–	709	2,488,703
2009	12	4,456	292,702	49,567	44,241	–	709	2,616,352
2010	4	10,582	256,977	38,865	41,665	–	709	2,514,664
2011	4	10,806	215,131	34,792	49,584	13	709	2,322,211
2012	229	16,469	272,603	37,823	65,556	–	709	2,678,745
2013	177	11,702	265,053	34,326	78,631	–	–	2,689,191
2014	86	6,355	308,717	32,343	81,093	–	–	2,882,511
2015	179	5,175	261,466	22,883	88,564	–	–	2,687,840

Table 7. Catches of albacore in the Pacific Ocean. "OTHER" includes purse seine catches.

YEAR	SOUTH PACIFIC OCEAN					NORTH PACIFIC OCEAN					TOTAL
	LONGLINE	POLE-AND-LINE	TROLL	OTHER	SUBTOTAL	LONGLINE	POLE-AND-LINE	TROLL	OTHER	SUBTOTAL	
1960	22,248	45	0	0	22,293	17,384	25,156	20,105	769	63,414	85,707
1961	23,742	0	0	0	23,742	17,490	21,476	12,059	1,631	52,656	76,398
1962	35,219	0	0	0	35,219	15,850	9,814	19,753	1,926	47,343	82,562
1963	31,095	16	0	0	31,111	13,639	28,852	25,145	1,438	69,074	100,185
1964	22,824	0	0	0	22,824	15,659	27,269	18,391	1,271	62,590	85,414
1965	25,455	0	0	0	25,455	14,226	41,908	16,557	863	73,554	99,009
1966	38,661	0	0	0	38,661	25,600	24,430	15,377	1,285	66,692	105,353
1967	43,952	0	5	0	43,957	29,821	34,594	17,975	1,316	83,706	127,663
1968	32,368	0	14	0	32,382	25,152	21,503	21,462	2,327	70,444	102,826
1969	24,805	0	0	0	24,805	19,223	34,908	20,192	1,838	76,161	100,966
1970	34,775	100	50	0	34,925	19,229	28,679	21,422	1,656	70,986	105,911
1971	38,530	100	0	0	38,630	14,982	55,028	22,272	2,436	94,718	133,348
1972	39,131	122	268	0	39,521	19,025	64,319	27,521	1,659	112,524	152,045
1973	46,705	141	484	0	47,330	17,030	71,003	17,053	2,006	107,092	154,422
1974	33,039	112	898	0	34,049	14,047	78,341	21,509	1,384	115,281	149,330
1975	22,849	105	646	0	23,600	14,547	55,395	19,043	1,219	90,204	113,804
1976	28,957	100	25	0	29,082	18,510	88,036	16,183	3,217	125,946	155,028
1977	38,019	100	621	0	38,740	17,684	33,431	10,022	2,264	63,401	102,141
1978	32,890	100	1,686	0	34,676	13,851	60,827	16,636	8,064	99,378	134,054
1979	26,162	100	814	0	27,076	14,738	44,965	7,302	4,211	71,216	98,292
1980	30,972	101	1,468	0	32,541	15,635	47,124	7,768	4,707	75,234	107,775
1981	32,694	0	2,085	5	34,784	18,864	28,174	12,837	11,526	71,401	106,185
1982	28,347	1	2,434	6	30,788	18,275	30,039	6,713	13,963	68,990	99,778
1983	24,309	0	744	39	25,092	16,586	21,705	9,584	7,676	55,551	80,643
1984	20,340	2	2,773	1,589	24,704	16,133	27,043	9,354	18,670	71,200	95,904
1985	27,138	0	3,253	1,937	32,328	14,781	22,212	6,471	14,947	58,411	90,739
1986	32,641	0	2,003	1,946	36,590	13,140	16,528	4,738	10,938	45,344	81,934
1987	21,979	9	2,134	930	25,052	15,411	19,240	2,870	11,509	49,030	74,082
1988	28,288	0	4,296	5,283	37,867	15,601	6,814	4,367	18,968	45,750	83,617
1989	18,738	0	8,370	21,968	49,076	14,536	8,683	2,000	19,986	45,205	94,281
1990	21,304	245	6,975	7,538	36,062	16,608	8,647	2,905	26,159	54,319	90,381
1991	26,292	14	7,805	1,489	35,600	18,049	7,103	1,984	10,798	37,934	73,534
1992	32,014	11	6,578	65	38,668	19,991	13,888	4,934	16,580	55,393	94,061
1993	30,998	74	4,296	70	35,438	31,143	12,797	6,748	4,112	54,800	90,238
1994	34,998	67	7,164	89	42,318	30,825	26,389	13,134	3,486	73,834	116,152
1995	30,508	139	7,716	104	38,467	32,948	21,061	10,758	1,725	66,492	104,959
1996	26,763	30	7,410	156	34,359	39,383	20,296	21,849	1,070	82,598	116,957
1997	34,657	21	4,679	133	39,490	48,365	32,311	18,674	2,736	102,086	141,576
1998	43,970	36	6,280	85	50,371	48,050	23,005	20,074	3,237	94,366	144,737
1999	35,955	138	3,447	74	39,614	46,767	50,429	13,853	11,155	122,204	161,818
2000	40,642	102	6,455	139	47,338	41,615	21,619	15,245	4,985	83,464	130,802
2001	52,855	37	5,253	199	58,344	37,744	29,569	16,738	3,002	87,053	145,397
2002	68,411	18	4,661	150	73,240	33,911	48,832	16,323	6,219	105,285	178,525
2003	56,351	12	5,984	130	62,477	33,293	36,173	21,886	3,184	94,536	157,013
2004	57,024	110	4,614	123	61,871	30,175	32,380	22,255	8,977	93,787	155,658
2005	59,897	29	3,503	137	63,566	33,028	16,199	14,067	3,183	66,477	130,043
2006	59,343	29	2,884	188	62,444	34,270	15,423	18,931	1,137	69,761	132,205
2007	56,500	17	2,014	60	58,591	31,771	37,789	18,646	6,438	94,644	153,235
2008	59,066	12	3,502	160	62,740	28,369	19,060	17,901	2,925	68,255	130,995
2009	80,638	21	2,031	211	82,901	28,802	33,390	19,167	2,755	84,114	167,015
2010	84,949	14	2,139	190	87,292	28,375	19,561	19,749	888	68,573	155,865
2011	62,694	30	3,189	233	66,146	35,398	26,704	16,895	1,077	80,074	146,220
2012	84,644	41	2,962	248	87,895	35,968	33,742	17,256	4,797	91,763	179,658
2013	81,294	26	3,226	248	84,794	31,633	33,568	19,844	3,140	88,185	172,979
2014	79,163	26	2,221	248	81,658	29,063	33,576	18,805	3,344	84,788	166,446
2015	65,744	26	2,576	248	68,594	27,322	33,576	16,505	3,292	80,695	149,289

Table 8. Catches of bigeye in the Pacific Ocean.

YEAR	WESTERN AND CENTRAL PACIFIC OCEAN					EASTERN PACIFIC OCEAN					TOTAL
	LONGLINE	POLE-AND-LINE	PURSE SEINE	OTHER	SUBTOTAL	LONGLINE	POLE-AND-LINE	PURSE SEINE	OTHER	SUBTOTAL	
1960	43,467	1,500	58	0	45,025	17,722	0	24	0	17,746	62,771
1961	37,517	1,800	63	0	39,380	52,431	106	105	0	52,642	92,022
1962	35,895	800	173	0	36,868	45,050	318	302	0	45,670	82,538
1963	42,540	1,800	6	0	44,346	66,617	140	0	0	66,757	111,103
1964	30,978	1,143	231	28	32,380	46,279	127	0	0	46,406	78,786
1965	29,844	1,254	201	30	31,329	29,164	231	0	0	29,395	60,724
1966	31,949	1,108	9	86	33,152	34,800	292	210	0	35,302	68,454
1967	32,791	2,803	61	253	35,908	35,878	1,305	1,697	0	38,880	74,788
1968	27,199	2,272	193	204	29,868	35,233	115	4,618	0	39,966	69,834
1969	32,371	1,675	53	62	34,161	52,071	0	1,093	0	53,164	87,325
1970	34,348	1,589	746	2,802	39,485	33,341	0	2,411	0	35,752	75,237
1971	36,798	931	886	3,057	41,672	29,804	75	4,359	18	34,256	75,928
1972	49,334	1,762	857	3,497	55,450	36,128	126	3,971	0	40,225	95,675
1973	40,285	1,258	967	4,218	46,728	50,777	236	3,342	0	54,355	101,083
1974	41,787	1,039	1,397	4,719	48,942	36,961	0	1,554	0	38,515	87,457
1975	57,623	1,334	1,600	4,938	65,495	41,733	36	6,574	0	48,343	113,838
1976	68,514	3,423	1,881	4,123	77,941	54,290	75	17,212	7	71,584	149,525
1977	66,249	3,325	2,280	5,627	77,481	74,086	2	11,161	0	85,249	162,730
1978	50,502	3,337	2,581	4,231	60,651	70,659	0	18,539	0	89,198	149,849
1979	57,319	2,540	2,611	4,615	67,085	55,435	0	12,097	1	67,533	134,618
1980	57,233	2,916	3,165	3,663	66,977	64,335	0	21,938	130	86,403	153,380
1981	42,331	3,382	9,875	4,244	59,832	53,416	0	14,921	7	68,344	128,176
1982	45,896	4,993	14,301	4,005	69,195	53,365	42	6,939	3	60,349	129,544
1983	42,453	5,077	21,646	4,371	73,547	60,043	39	4,575	37	64,694	138,241
1984	47,516	4,557	23,614	4,625	80,312	46,394	2	8,861	11	55,268	135,580
1985	52,454	5,529	18,722	5,560	82,265	66,325	2	6,056	15	72,398	154,663
1986	47,926	4,133	26,627	5,856	84,542	102,425	0	2,686	74	105,185	189,727
1987	60,147	4,602	30,818	5,263	100,830	100,121	0	1,177	49	101,347	202,177
1988	50,701	5,890	29,494	6,404	92,489	72,758	5	1,535	15	74,313	166,802
1989	54,773	6,131	31,391	7,012	99,307	70,963	0	2,030	1	72,994	172,301
1990	66,976	5,985	35,358	7,708	116,027	98,871	0	5,921	59	104,851	220,878
1991	48,875	3,929	37,882	8,859	99,545	104,195	31	4,870	25	109,121	208,666
1992	64,018	4,055	44,491	5,931	118,495	84,808	0	7,179	13	92,000	210,495
1993	58,348	4,505	34,385	5,514	102,752	72,498	0	9,657	35	82,190	184,942
1994	68,326	5,251	35,690	7,661	116,928	71,360	0	34,899	806	107,065	223,993
1995	58,821	6,228	32,555	8,284	105,888	58,269	0	45,321	1,369	104,959	210,847
1996	49,936	7,940	42,508	10,228	110,612	46,958	0	61,311	748	109,017	219,629
1997	61,240	6,563	77,408	7,671	152,882	52,580	0	64,272	20	116,872	269,754
1998	76,424	6,405	73,663	9,190	165,682	46,375	0	44,129	628	91,132	256,814
1999	68,629	5,856	64,203	8,915	147,603	36,450	0	51,158	538	88,146	235,749
2000	65,952	6,838	49,331	9,942	132,063	47,605	0	94,640	253	142,498	274,561
2001	66,812	5,905	51,790	9,154	133,661	68,755	0	61,156	19	129,930	263,591
2002	82,471	6,109	57,829	9,549	155,958	74,424	0	57,440	12	131,876	287,834
2003	71,027	5,296	41,592	9,453	127,368	59,776	0	54,174	21	113,971	241,339
2004	87,961	9,238	70,058	10,803	178,060	43,483	0	67,592	194	111,269	289,329
2005	71,401	6,851	58,214	4,429	140,895	41,432	0	67,895	25	109,352	250,247
2006	78,426	9,781	59,020	4,307	151,534	33,802	0	83,837	40	117,679	269,213
2007	76,661	7,296	48,529	4,575	137,061	29,847	0	63,451	44	93,342	230,403
2008	75,802	9,204	55,980	4,290	145,276	26,136	0	75,028	28	101,192	246,468
2009	75,351	7,916	56,180	5,100	144,547	31,282	0	76,800	15	108,097	252,644
2010	63,177	7,027	55,067	4,106	129,377	35,227	0	57,753	1,804	94,784	224,161
2011	68,989	5,655	71,592	5,272	151,508	32,630	0	56,512	0	89,142	240,650
2012	73,695	3,932	64,579	12,437	154,643	36,166	0	66,020	8	102,194	256,837
2013	54,357	5,005	70,338	11,841	141,541	36,204	0	52,524	17	88,745	230,286
2014	67,009	4,712	66,398	14,761	152,880	35,087	0	54,346	17	89,450	242,330
2015	59,625	5,666	48,378	15,265	128,934	35,087	0	67,432	17	102,536	231,470

Table 9. Catches of skipjack in the Pacific Ocean

YEAR	WESTERN AND CENTRAL PACIFIC OCEAN					EASTERN PACIFIC OCEAN					TOTAL
	LONGLINE	POLE-AND-LINE	PURSE SEINE	OTHER	SUBTOTAL	LONGLINE	POLE-AND-LINE	PURSE SEINE	OTHER	SUBTOTAL	
1960	0	70,428	3,728	15,782	89,938	0	28,929	16,649	481	46,059	135,997
1961	0	127,011	11,693	18,032	156,736	0	28,995	45,706	428	75,129	231,865
1962	4	152,387	11,674	17,559	181,624	0	17,660	58,939	503	77,102	258,726
1963	0	94,757	9,592	18,354	122,703	0	17,138	82,404	2,389	101,931	224,634
1964	5	137,106	25,006	20,801	182,918	0	10,306	51,759	3,609	65,674	248,592
1965	11	129,933	4,657	20,620	155,221	0	19,867	64,056	1,046	84,969	240,190
1966	50	215,600	10,949	22,913	249,512	0	14,083	50,264	1,960	66,307	315,819
1967	101	168,846	10,940	24,930	204,817	0	18,016	104,928	5,038	127,982	332,799
1968	60	162,379	7,640	24,929	195,008	0	7,340	59,642	10,128	77,110	272,118
1969	124	315,795	5,036	30,070	351,025	0	6,970	46,020	11,904	64,894	415,919
1970	1,260	379,074	10,552	32,164	423,050	0	7,470	47,466	7,234	62,170	485,220
1971	1,440	333,284	16,930	29,164	380,818	0	11,679	94,502	6,702	112,883	493,701
1972	1,524	172,827	21,610	41,783	237,744	0	6,556	29,804	1,144	37,504	275,248
1973	1,838	253,217	23,263	50,407	328,725	0	9,135	39,247	638	49,020	377,745
1974	2,088	289,202	15,346	49,528	356,164	0	7,629	79,418	510	87,557	443,721
1975	1,893	218,271	17,931	50,189	288,284	0	13,848	120,358	526	134,732	423,016
1976	2,056	276,582	27,313	51,216	357,167	0	11,256	124,957	705	136,918	494,085
1977	3,107	294,641	39,367	66,475	403,590	0	7,522	84,603	1,960	94,085	497,675
1978	3,219	331,401	40,754	73,644	449,018	0	6,047	172,294	1,324	179,665	628,683
1979	2,175	285,859	64,090	60,440	412,564	0	6,346	133,695	1,462	141,503	554,067
1980	630	333,597	82,293	34,945	451,465	0	5,225	130,912	1,965	138,102	589,567
1981	754	296,065	98,588	39,558	434,965	0	5,906	119,165	930	126,001	560,966
1982	970	264,726	168,829	44,021	478,546	0	3,760	100,499	410	104,669	583,215
1983	2,143	298,928	303,692	45,450	650,213	0	4,387	56,851	737	61,975	712,188
1984	867	366,811	319,020	39,870	726,568	0	2,884	59,859	868	63,611	790,179
1985	1,100	238,932	287,607	39,603	567,242	0	946	50,829	227	52,002	619,244
1986	1,434	322,665	353,480	46,622	724,201	0	1,921	65,634	190	67,745	791,946
1987	2,320	252,142	366,522	46,829	667,813	0	2,233	64,019	214	66,466	734,279
1988	1,930	295,325	458,773	49,571	805,599	0	4,325	87,113	689	92,127	897,726
1989	2,502	275,088	455,357	48,272	781,219	0	2,940	94,934	1,047	98,921	880,140
1990	358	211,573	566,231	75,714	853,876	0	823	74,369	1,915	77,107	930,983
1991	882	259,778	735,170	77,113	1,072,943	0	1,717	62,228	1,945	65,890	1,138,833
1992	431	218,765	676,828	72,336	968,360	0	1,957	84,283	1,054	87,294	1,055,654
1993	569	255,152	608,791	58,831	923,343	0	3,772	83,830	2,317	89,919	1,013,262
1994	353	209,636	707,912	68,918	986,819	0	3,240	70,126	804	74,170	1,060,989
1995	572	247,744	690,719	80,441	1,019,476	0	5,253	127,047	1,988	134,288	1,153,764
1996	3,874	242,486	675,038	95,543	1,016,941	0	2,555	103,973	1,313	107,841	1,124,782
1997	3,932	236,999	582,070	86,675	909,676	0	3,260	153,456	231	156,947	1,066,623
1998	4,904	266,772	801,532	100,901	1,174,109	0	1,684	140,631	531	142,846	1,316,955
1999	4,064	255,330	698,835	95,226	1,053,455	0	2,044	261,565	1,594	265,203	1,318,658
2000	4,516	264,407	775,035	120,559	1,164,517	68	231	204,307	67	204,673	1,369,190
2001	5,036	212,668	770,239	101,449	1,089,392	1,214	448	143,561	34	145,257	1,234,649
2002	3,376	207,488	955,816	98,597	1,265,277	261	616	153,303	119	154,299	1,419,576
2003	3,693	238,179	917,222	100,959	1,260,053	634	638	274,529	2,777	278,578	1,538,631
2004	3,841	249,936	977,286	126,472	1,357,535	713	528	198,664	1,105	201,010	1,558,545
2005	1,045	216,715	1,069,568	117,105	1,404,433	231	1,300	263,229	1,780	266,540	1,670,973
2006	1,470	208,220	1,166,616	126,163	1,502,469	224	435	296,269	986	297,914	1,800,383
2007	1,132	212,720	1,294,174	146,739	1,654,765	107	276	208,296	1,065	209,744	1,864,509
2008	781	218,070	1,255,468	153,687	1,628,006	56	501	296,603	1,163	298,323	1,926,329
2009	1,148	200,692	1,449,733	141,140	1,792,713	184	151	230,527	1,112	231,974	2,024,687
2010	1,150	222,948	1,337,452	133,643	1,695,193	121	47	147,192	2,964	150,324	1,845,517
2011	1,085	206,542	1,191,971	127,786	1,527,384	1,384	24	276,035	851	278,294	1,805,678
2012	1,899	170,234	1,430,321	160,250	1,762,704	2,381	303	266,215	1,040	269,939	2,032,643
2013	1,045	168,856	1,502,505	160,465	1,832,871	2,024	167	272,500	774	275,465	2,108,336
2014	1,421	148,452	1,674,719	178,432	2,003,024	235	167	261,241	774	262,417	2,265,441
2015	1,618	152,438	1,451,196	214,546	1,819,798	235	167	321,415	774	322,591	2,142,389

Table 10. Catches of yellowfin in the Pacific Ocean

YEAR	WESTERN AND CENTRAL PACIFIC OCEAN					EASTERN PACIFIC OCEAN					TOTAL
	LONGLINE	POLE-AND-LINE	PURSE SEINE	OTHER	SUBTOTAL	LONGLINE	POLE-AND-LINE	PURSE SEINE	OTHER	SUBTOTAL	
1960	55,020	1,872	1,438	15,337	73,667	5,934	22,151	79,425	458	107,968	181,635
1961	53,166	3,259	2,777	16,236	75,438	12,500	15,220	80,058	949	108,727	184,165
1962	55,547	4,225	6,975	17,197	83,944	10,211	11,052	56,271	706	78,240	162,184
1963	53,185	2,071	2,277	18,223	75,756	18,973	7,041	48,004	688	74,706	150,462
1964	45,241	5,074	3,647	20,186	74,148	16,975	3,989	78,318	738	100,020	174,168
1965	45,487	3,434	3,752	20,956	73,629	15,620	6,983	65,348	312	88,263	161,892
1966	61,623	2,192	5,844	23,409	93,068	9,097	5,302	68,982	507	83,888	176,956
1967	35,720	3,125	3,418	26,303	68,566	9,285	4,512	65,442	1,534	80,773	149,339
1968	45,572	2,706	7,043	26,085	81,406	14,986	4,307	86,542	3,241	109,076	190,482
1969	51,372	5,166	3,873	26,612	87,023	15,329	7,195	113,665	1,866	138,055	225,078
1970	55,481	4,606	9,335	29,422	98,844	12,643	4,260	139,385	4,850	161,138	259,982
1971	56,927	5,248	10,934	31,204	104,313	8,013	5,300	104,863	2,482	120,658	224,971
1972	60,251	7,465	11,821	35,749	115,286	16,859	6,060	164,297	1,060	188,276	303,562
1973	61,818	7,458	17,047	41,726	128,049	11,697	3,933	194,200	661	210,491	338,540
1974	57,490	6,582	19,850	46,997	130,919	7,190	8,188	191,626	1,230	208,234	339,153
1975	68,416	7,801	15,592	48,536	140,345	10,640	5,629	183,028	567	199,864	340,209
1976	76,363	17,186	17,689	40,666	151,904	15,632	3,280	215,108	358	234,378	386,282
1977	92,680	15,257	19,246	55,092	182,275	12,355	1,841	184,922	248	199,366	381,641
1978	108,428	12,767	16,185	38,491	175,871	10,188	3,888	158,801	1,103	173,980	349,851
1979	104,932	11,638	32,519	46,375	195,464	11,473	4,789	170,650	212	187,124	382,588
1980	122,611	15,142	38,596	39,583	215,932	13,477	1,481	143,042	862	158,862	374,794
1981	95,574	22,044	58,366	44,533	220,517	7,999	1,477	168,234	800	178,510	399,027
1982	85,175	17,123	77,267	41,603	221,168	10,961	1,538	114,755	280	127,534	348,702
1983	87,734	17,184	124,035	45,179	274,132	10,895	4,007	83,929	849	99,680	373,812
1984	74,210	17,633	129,063	50,440	271,346	10,345	2,991	135,785	344	149,465	420,811
1985	77,674	22,717	122,185	57,803	280,379	13,198	1,070	211,459	212	225,939	506,318
1986	66,594	17,970	116,483	60,968	262,015	22,808	2,537	260,512	214	286,071	548,086
1987	72,687	19,044	160,223	57,367	309,321	18,911	5,107	262,008	138	286,164	595,485
1988	84,257	20,566	132,558	68,021	305,402	14,660	3,723	277,293	752	296,428	601,830
1989	69,921	22,133	190,191	71,530	353,775	17,032	4,145	277,996	263	299,436	653,211
1990	74,876	20,769	215,161	83,156	393,962	34,633	2,676	263,253	960	301,522	695,484
1991	58,566	19,182	250,590	92,536	420,874	30,899	2,856	231,257	958	265,970	686,844
1992	74,429	23,043	271,755	59,777	429,004	18,646	3,789	228,121	1,958	252,514	681,518
1993	69,375	20,486	220,838	59,188	369,887	24,009	4,951	219,492	3,034	251,486	621,373
1994	76,879	21,378	235,836	75,514	409,607	30,026	3,625	208,408	1,487	243,546	653,153
1995	85,210	23,209	214,490	82,395	405,304	20,596	1,268	215,434	2,066	239,364	644,668
1996	88,254	30,551	189,782	99,923	408,510	16,608	3,762	238,607	1,639	260,616	669,126
1997	78,069	22,845	310,559	83,763	495,236	22,163	4,418	244,878	600	272,059	767,295
1998	76,130	27,506	391,366	101,754	596,756	15,336	5,085	253,959	1,529	275,909	872,665
1999	68,539	26,787	311,828	103,038	510,192	11,682	1,783	281,920	2,706	298,091	808,283
2000	90,916	26,957	329,980	109,860	557,713	23,855	2,431	255,231	1,109	282,626	840,339
2001	89,797	24,443	309,431	99,047	522,718	29,608	3,916	382,702	520	416,746	939,464
2002	91,098	24,133	261,207	102,132	478,570	25,531	950	412,507	549	439,537	918,107
2003	91,031	24,304	313,662	105,505	534,502	25,174	470	381,107	1,145	407,896	942,398
2004	101,139	30,640	320,245	119,759	571,783	18,779	1,884	269,597	627	290,887	862,670
2005	83,044	27,007	369,274	63,353	542,678	12,118	1,821	268,102	1,852	283,893	826,571
2006	80,433	23,544	304,229	65,720	473,926	9,316	686	166,629	1,458	178,089	652,015
2007	79,594	26,460	328,531	72,275	506,860	7,779	894	170,016	1,439	180,128	686,988
2008	82,112	22,639	424,538	70,573	599,862	8,371	812	185,057	941	195,181	795,043
2009	96,476	23,859	317,127	96,720	534,182	8,479	709	236,771	995	246,954	781,136
2010	93,556	20,077	344,435	94,540	552,608	6,645	460	251,008	2,641	260,754	813,362
2011	95,116	36,772	301,964	81,251	515,103	8,071	276	206,851	806	216,004	731,107
2012	84,261	34,638	384,064	101,220	604,183	12,953	400	198,017	1,236	212,606	816,789
2013	74,241	21,834	349,813	104,332	550,220	11,414	754	220,038	865	233,071	783,291
2014	96,671	23,982	357,195	110,569	588,417	7,451	754	240,478	865	249,548	837,965
2015	94,725	36,120	305,329	165,047	601,221	7,451	754	246,350	865	255,420	856,641

Table 11. Catches of albacore, bigeye, skipjack and yellowfin in the WCPO

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	31,463	13	45,025	19	89,938	37	73,667	31	240,093
1961	32,922	11	39,380	13	156,736	51	75,438	25	304,476
1962	37,602	11	36,868	11	181,624	53	83,944	25	340,038
1963	26,815	10	44,346	16	122,703	46	75,756	28	269,620
1964	26,652	8	32,380	10	182,918	58	74,148	23	316,098
1965	28,724	10	31,329	11	155,221	54	73,629	25	288,903
1966	52,180	12	33,152	8	249,512	58	93,068	22	427,912
1967	55,403	15	35,908	10	204,817	56	68,566	19	364,694
1968	61,379	17	29,868	8	195,008	53	81,406	22	367,661
1969	71,137	13	34,161	6	351,025	65	87,023	16	543,346
1970	71,496	11	39,485	6	423,050	67	98,844	16	632,875
1971	96,125	15	41,672	7	380,818	61	104,313	17	622,928
1972	106,697	21	55,450	11	237,744	46	115,286	22	515,177
1973	129,538	20	46,728	7	328,725	52	128,049	20	633,040
1974	112,827	17	48,942	8	356,164	55	130,919	20	648,852
1975	83,864	15	65,495	11	288,284	50	140,345	24	577,988
1976	131,620	18	77,941	11	357,167	50	151,904	21	718,632
1977	79,436	11	77,481	10	403,590	54	182,275	25	742,782
1978	105,771	13	60,651	8	449,018	57	175,871	22	791,311
1979	84,878	11	67,085	9	412,564	54	195,464	26	759,991
1980	94,123	11	66,977	8	451,465	54	215,932	26	828,497
1981	86,385	11	59,832	7	434,965	54	220,517	28	801,699
1982	86,847	10	69,195	8	478,546	56	221,168	26	855,756
1983	64,112	6	73,547	7	650,213	61	274,132	26	1,062,004
1984	73,452	6	80,312	7	726,568	63	271,346	24	1,151,678
1985	76,034	8	82,265	8	567,242	56	280,379	28	1,005,920
1986	71,045	6	84,542	7	724,201	63	262,015	23	1,141,803
1987	60,625	5	100,830	9	667,813	59	309,321	27	1,138,589
1988	62,279	5	92,489	7	805,599	64	305,402	24	1,265,769
1989	69,949	5	99,307	8	781,219	60	353,775	27	1,304,250
1990	60,990	4	116,027	8	853,876	60	393,962	28	1,424,855
1991	56,449	3	99,545	6	1,072,943	65	420,874	26	1,649,811
1992	62,483	4	118,495	8	968,360	61	429,004	27	1,578,342
1993	71,723	5	102,752	7	923,343	63	369,887	25	1,467,705
1994	91,696	6	116,928	7	986,819	61	409,607	26	1,605,050
1995	89,851	6	105,888	7	1,019,476	63	405,304	25	1,620,519
1996	88,874	5	110,612	7	1,016,941	63	408,510	25	1,624,937
1997	109,798	7	152,882	9	909,676	55	495,236	30	1,667,592
1998	107,373	5	165,682	8	1,174,109	57	596,756	29	2,043,920
1999	127,428	7	147,603	8	1,053,455	57	510,192	28	1,838,678
2000	96,302	5	132,063	7	1,164,517	60	557,713	29	1,950,595
2001	114,463	6	133,661	7	1,089,392	59	522,718	28	1,860,234
2002	140,122	7	155,958	8	1,265,277	62	478,570	23	2,039,927
2003	110,643	5	127,368	6	1,260,053	62	534,502	26	2,032,566
2004	114,461	5	178,060	8	1,357,535	61	571,783	26	2,221,839
2005	99,759	5	140,895	6	1,404,433	64	542,678	25	2,187,765
2006	98,291	4	151,534	7	1,502,469	67	473,926	21	2,226,220
2007	121,628	5	137,061	6	1,654,765	68	506,860	21	2,420,314
2008	99,250	4	145,276	6	1,628,006	66	599,862	24	2,472,394
2009	129,154	5	144,547	6	1,792,713	69	534,182	21	2,600,596
2010	117,518	5	129,377	5	1,695,193	68	552,608	22	2,494,696
2011	109,808	5	151,508	7	1,527,384	66	515,103	22	2,303,803
2012	136,874	5	154,643	6	1,762,704	66	604,183	23	2,658,404
2013	127,650	5	141,541	5	1,832,871	69	550,220	21	2,652,282
2014	117,194	4	152,880	5	2,003,024	70	588,417	21	2,861,515
2015	115,579	4	128,934	5	1,819,798	68	601,221	23	2,665,532

Table 12. Catches of albacore, bigeye, skipjack and yellowfin in the EPO

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	23,292	12	17,746	9	46,059	24	107,968	55	195,065
1961	15,862	6	52,642	21	75,129	30	108,727	43	252,360
1962	22,659	10	45,670	20	77,102	34	78,240	35	223,671
1963	29,799	11	66,757	24	101,931	37	74,706	27	273,193
1964	22,586	10	46,406	20	65,674	28	100,020	43	234,686
1965	17,939	8	29,395	13	84,969	39	88,263	40	220,566
1966	17,938	9	35,302	17	66,307	33	83,888	41	203,435
1967	22,524	8	38,880	14	127,982	47	80,773	30	270,159
1968	26,249	10	39,966	16	77,110	31	109,076	43	252,401
1969	22,646	8	53,164	19	64,894	23	138,055	50	278,759
1970	26,809	9	35,752	13	62,170	22	161,138	56	285,869
1971	24,517	8	34,256	12	112,883	39	120,658	41	292,314
1972	29,548	10	40,225	14	37,504	13	188,276	64	295,553
1973	18,763	6	54,355	16	49,020	15	210,491	63	332,629
1974	25,257	7	38,515	11	87,557	24	208,234	58	359,563
1975	23,051	6	48,343	12	134,732	33	199,864	49	405,990
1976	20,577	4	71,584	15	136,918	30	234,378	51	463,457
1977	24,024	6	85,249	21	94,085	23	199,366	50	402,724
1978	31,108	7	89,198	19	179,665	38	173,980	37	473,951
1979	10,953	3	67,533	17	141,503	35	187,124	46	407,113
1980	11,569	3	86,403	22	138,102	35	158,862	40	394,936
1981	20,283	5	68,344	17	126,001	32	178,510	45	393,138
1982	12,522	4	60,349	20	104,669	34	127,534	42	305,074
1983	15,729	6	64,694	27	61,975	26	99,680	41	242,078
1984	21,857	8	55,268	19	63,611	22	149,465	52	290,201
1985	14,841	4	72,398	20	52,002	14	225,939	62	365,180
1986	11,284	2	105,185	22	67,745	14	286,071	61	470,285
1987	12,977	3	101,347	22	66,466	14	286,164	61	466,954
1988	15,771	3	74,313	16	92,127	19	296,428	62	478,639
1989	9,501	2	72,994	15	98,921	21	299,436	62	480,852
1990	10,850	2	104,851	21	77,107	16	301,522	61	494,330
1991	11,481	3	109,121	24	65,890	15	265,970	59	452,462
1992	23,075	5	92,000	20	87,294	19	252,514	56	454,883
1993	15,605	4	82,190	19	89,919	20	251,486	57	439,200
1994	20,618	5	107,065	24	74,170	17	243,546	55	445,399
1995	14,075	3	104,959	21	134,288	27	239,364	49	492,686
1996	16,112	3	109,017	22	107,841	22	260,616	53	493,586
1997	17,279	3	116,872	21	156,947	28	272,059	48	563,157
1998	25,913	5	91,132	17	142,846	27	275,909	51	535,800
1999	26,464	4	88,146	13	265,203	39	298,091	44	677,904
2000	23,275	4	142,498	22	204,673	31	282,626	43	653,072
2001	33,336	5	129,930	18	145,257	20	416,746	57	725,269
2002	30,154	4	131,876	17	154,299	20	439,537	58	755,866
2003	45,538	5	113,971	13	278,578	33	407,896	48	845,983
2004	40,834	6	111,269	17	201,010	31	290,887	45	644,000
2005	27,203	4	109,352	16	266,540	39	283,893	41	686,988
2006	32,992	5	117,679	19	297,914	48	178,089	28	626,674
2007	31,128	6	93,342	18	209,744	41	180,128	35	514,342
2008	26,627	4	101,192	16	298,323	48	195,181	31	621,323
2009	31,619	5	108,097	17	231,974	37	246,954	40	618,644
2010	34,048	6	94,784	18	150,324	28	260,754	48	539,910
2011	37,023	6	89,142	14	278,294	45	216,004	35	620,463
2012	42,309	7	102,194	16	269,939	43	212,606	34	627,048
2013	43,905	7	88,745	14	275,465	43	233,071	36	641,186
2014	47,412	7	89,450	14	262,417	40	249,548	38	648,827
2015	47,412	7	102,536	14	322,591	44	255,420	35	727,959

Table 13. Catches of albacore, bigeye, skipjack and yellowfin in the Pacific Ocean

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	85,707	18	62,771	13	135,997	29	181,635	39	466,110
1961	76,398	13	92,022	16	231,865	40	184,165	32	584,450
1962	82,562	14	82,538	14	258,726	44	162,184	28	586,010
1963	100,185	17	111,103	19	224,634	38	150,462	26	586,384
1964	85,414	15	78,786	13	248,592	42	174,168	30	586,960
1965	99,009	18	60,724	11	240,190	43	161,892	29	561,815
1966	105,353	16	68,454	10	315,819	47	176,956	27	666,582
1967	127,663	19	74,788	11	332,799	49	149,339	22	684,589
1968	102,826	16	69,834	11	272,118	43	190,482	30	635,260
1969	100,966	12	87,325	11	415,919	50	225,078	27	829,288
1970	105,911	11	75,237	8	485,220	52	259,982	28	926,350
1971	133,348	14	75,928	8	493,701	53	224,971	24	927,948
1972	152,045	18	95,675	12	275,248	33	303,562	37	826,530
1973	154,422	16	101,083	10	377,745	39	338,540	35	971,790
1974	149,330	15	87,457	9	443,721	44	339,153	33	1,019,661
1975	113,804	11	113,838	11	423,016	43	340,209	34	990,867
1976	155,028	13	149,525	13	494,085	42	386,282	33	1,184,920
1977	102,141	9	162,730	14	497,675	43	381,641	33	1,144,187
1978	134,054	11	149,849	12	628,683	50	349,851	28	1,262,437
1979	98,292	8	134,618	12	554,067	47	382,588	33	1,169,565
1980	107,775	9	153,380	13	589,567	48	374,794	31	1,225,516
1981	106,185	9	128,176	11	560,966	47	399,027	33	1,194,354
1982	99,778	9	129,544	11	583,215	50	348,702	30	1,161,239
1983	80,643	6	138,241	11	712,188	55	373,812	29	1,304,884
1984	95,904	7	135,580	9	790,179	55	420,811	29	1,442,474
1985	90,739	7	154,663	11	619,244	45	506,318	37	1,370,964
1986	81,934	5	189,727	12	791,946	49	548,086	34	1,611,693
1987	74,082	5	202,177	13	734,279	46	595,485	37	1,606,023
1988	83,617	5	166,802	10	897,726	51	601,830	34	1,749,975
1989	94,281	5	172,301	10	880,140	49	653,211	36	1,799,933
1990	90,381	5	220,878	11	930,983	48	695,484	36	1,937,726
1991	73,534	3	208,666	10	1,138,833	54	686,844	33	2,107,877
1992	94,061	5	210,495	10	1,055,654	52	681,518	33	2,041,728
1993	90,238	5	184,942	10	1,013,262	53	621,373	33	1,909,815
1994	116,152	6	223,993	11	1,060,989	52	653,153	32	2,054,287
1995	104,959	5	210,847	10	1,153,764	55	644,668	30	2,114,238
1996	116,957	5	219,629	10	1,124,782	53	669,126	31	2,130,494
1997	141,576	6	269,754	12	1,066,623	48	767,295	34	2,245,248
1998	144,737	6	256,814	10	1,316,955	51	872,665	34	2,591,171
1999	161,818	6	235,749	9	1,318,658	52	808,283	32	2,524,508
2000	130,802	5	274,561	10	1,369,190	52	840,339	32	2,614,892
2001	145,397	6	263,591	10	1,234,649	48	939,464	36	2,583,101
2002	178,525	6	287,834	10	1,419,576	51	918,107	33	2,804,042
2003	157,013	5	241,339	8	1,538,631	53	942,398	33	2,879,381
2004	155,658	5	289,329	10	1,558,545	54	862,670	30	2,866,202
2005	130,043	5	250,247	9	1,670,973	58	826,571	29	2,877,834
2006	132,205	5	269,213	9	1,800,383	63	652,015	23	2,853,816
2007	153,235	5	230,403	8	1,864,509	64	686,988	23	2,935,135
2008	130,995	4	246,468	8	1,926,329	62	795,043	26	3,098,835
2009	167,015	5	252,644	8	2,024,687	63	781,136	24	3,225,482
2010	155,865	5	224,161	7	1,845,517	61	813,362	27	3,038,905
2011	146,220	5	240,650	8	1,805,678	62	731,107	25	2,923,655
2012	179,658	5	256,837	8	2,032,643	62	816,789	25	3,285,927
2013	172,979	5	230,286	7	2,108,336	64	783,291	24	3,294,892
2014	166,446	5	242,330	7	2,265,441	65	837,965	24	3,512,182
2015	149,289	4	231,470	7	2,142,389	63	856,641	25	3,379,789

Table 14. Global catches of albacore, bigeye, skipjack and yellowfin

YEAR	ALBACORE		BIGEYE		SKIPJACK		YELLOWFIN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	161,181	23	88,048	13	155,782	22	293,249	42	698,260
1961	146,524	18	124,098	15	253,353	31	284,369	35	808,344
1962	179,312	21	124,222	14	286,687	33	274,099	32	864,320
1963	192,066	22	150,516	18	263,950	31	248,781	29	855,313
1964	195,404	22	120,296	14	287,607	33	277,314	31	880,621
1965	203,023	23	119,244	14	290,750	33	265,353	30	878,370
1966	195,951	20	117,633	12	370,217	38	291,029	30	974,830
1967	225,080	23	124,652	13	391,386	39	254,044	26	995,162
1968	192,556	19	130,908	13	354,667	34	362,084	35	1,040,215
1969	197,162	16	153,306	13	481,746	40	383,854	32	1,216,068
1970	189,341	15	143,025	11	578,370	45	374,816	29	1,285,552
1971	227,988	17	152,633	11	613,821	46	340,147	25	1,334,589
1972	246,734	20	161,249	13	388,976	31	440,199	36	1,237,158
1973	251,592	18	173,982	12	505,534	36	472,824	34	1,403,932
1974	248,620	16	178,193	12	615,086	40	486,928	32	1,528,827
1975	184,759	13	211,283	15	518,521	36	506,146	36	1,420,709
1976	247,134	15	222,708	14	614,231	37	554,502	34	1,638,575
1977	190,096	11	252,197	15	649,391	39	578,110	35	1,669,794
1978	225,434	13	251,994	14	778,942	43	541,816	30	1,798,186
1979	190,713	11	214,101	13	692,352	42	562,060	34	1,659,226
1980	183,350	11	251,483	14	756,052	43	552,709	32	1,743,594
1981	180,719	10	230,620	13	748,245	42	603,775	34	1,763,359
1982	197,808	11	246,294	14	797,459	44	573,107	32	1,814,668
1983	167,689	9	247,364	13	920,446	47	606,145	31	1,941,644
1984	172,703	8	250,194	12	1,031,323	49	643,069	31	2,097,289
1985	177,401	8	285,100	13	879,861	41	788,267	37	2,130,629
1986	203,418	8	312,343	13	1,065,367	44	841,392	35	2,422,520
1987	187,782	8	323,030	13	1,022,859	42	903,736	37	2,437,407
1988	180,209	7	306,799	11	1,243,623	46	953,545	36	2,684,176
1989	178,283	6	319,783	12	1,246,717	45	1,021,420	37	2,766,203
1990	192,512	6	379,238	13	1,305,278	43	1,130,748	38	3,007,776
1991	158,961	5	381,942	12	1,604,948	50	1,088,038	34	3,233,889
1992	185,530	6	381,638	12	1,512,209	47	1,162,017	36	3,241,394
1993	182,261	6	398,445	12	1,531,432	47	1,176,297	36	3,288,435
1994	212,420	6	466,726	14	1,587,999	46	1,151,974	34	3,419,119
1995	195,581	6	456,492	13	1,654,489	48	1,131,708	33	3,438,270
1996	207,498	6	469,091	14	1,595,058	46	1,166,033	34	3,437,680
1997	228,715	6	527,146	15	1,552,156	44	1,245,688	35	3,553,705
1998	241,655	6	509,172	13	1,809,238	46	1,332,019	34	3,892,084
1999	266,537	7	515,189	13	1,911,357	48	1,304,763	33	3,997,846
2000	239,696	6	507,782	13	1,945,856	49	1,309,181	33	4,002,515
2001	259,038	7	478,205	12	1,822,669	46	1,421,160	36	3,981,072
2002	273,295	7	505,661	12	2,024,193	48	1,399,194	33	4,202,343
2003	244,815	6	462,663	11	2,163,570	49	1,510,446	34	4,381,494
2004	240,224	5	514,916	12	2,180,701	49	1,498,283	34	4,434,124
2005	219,244	5	445,352	10	2,372,983	53	1,426,612	32	4,464,191
2006	229,394	5	455,835	10	2,553,089	58	1,166,273	26	4,404,591
2007	244,952	6	426,356	10	2,473,705	58	1,093,967	26	4,238,980
2008	209,090	5	435,049	10	2,513,481	57	1,225,409	28	4,383,029
2009	246,741	5	454,049	10	2,638,390	59	1,168,466	26	4,507,646
2010	240,661	6	391,511	9	2,473,820	57	1,229,052	28	4,335,044
2011	228,642	5	418,230	10	2,424,815	57	1,164,937	27	4,236,624
2012	265,798	6	450,739	10	2,634,192	56	1,321,277	28	4,672,006
2013	250,920	5	409,194	9	2,794,022	59	1,289,061	27	4,743,197
2014	249,206	5	409,391	8	2,924,339	59	1,349,154	27	4,932,090
2015	232,049	5	398,531	8	2,801,287	58	1,367,830	28	4,799,697

Table 15. Catches of albacore, bigeye, skipjack and yellowfin by ocean area. Estimates for the Atlantic Ocean and Indian Ocean for 2015 have been carried over from 2014, respectively.

YEAR	WCPO		EPO		ATLANTIC		INDIAN		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1960	240,093	34	226,017	32	145,384	21	86,766	12	698,260
1961	304,476	38	279,974	35	135,230	17	88,664	11	808,344
1962	340,038	39	245,972	28	169,697	20	108,613	13	864,320
1963	269,620	32	316,764	37	188,394	22	80,535	9	855,313
1964	316,098	36	270,862	31	201,987	23	91,674	10	880,621
1965	288,903	33	272,912	31	222,199	25	94,356	11	878,370
1966	427,912	44	238,670	24	181,817	19	126,431	13	974,830
1967	364,694	37	319,895	32	184,929	19	125,644	13	995,162
1968	367,661	35	267,599	26	228,017	22	176,938	17	1,040,215
1969	543,346	45	285,942	24	236,694	19	150,086	12	1,216,068
1970	632,875	49	293,475	23	237,191	18	122,011	9	1,285,552
1971	622,928	47	305,020	23	290,958	22	115,683	9	1,334,589
1972	515,177	42	311,353	25	301,937	24	108,691	9	1,237,158
1973	633,040	45	338,750	24	304,880	22	127,262	9	1,403,932
1974	648,852	42	370,809	24	358,304	23	150,862	10	1,528,827
1975	577,988	41	412,879	29	302,119	21	127,723	9	1,420,709
1976	718,632	44	466,288	28	316,778	19	136,877	8	1,638,575
1977	742,782	44	401,405	24	372,569	22	153,038	9	1,669,794
1978	791,311	44	471,126	26	368,658	21	167,091	9	1,798,186
1979	759,991	46	409,574	25	338,014	20	151,647	9	1,659,226
1980	828,497	48	397,019	23	367,602	21	150,476	9	1,743,594
1981	801,699	45	392,655	22	416,733	24	152,272	9	1,763,359
1982	855,756	47	305,483	17	469,190	26	184,239	10	1,814,668
1983	1,062,004	55	242,880	13	430,504	22	206,256	11	1,941,644
1984	1,151,678	55	290,796	14	372,368	18	282,447	13	2,097,289
1985	1,005,920	47	365,044	17	429,982	20	329,683	15	2,130,629
1986	1,141,803	47	469,890	19	423,538	17	387,289	16	2,422,520
1987	1,138,589	47	467,434	19	403,643	17	427,741	18	2,437,407
1988	1,265,769	47	484,206	18	414,430	15	519,771	19	2,684,176
1989	1,304,250	47	495,683	18	424,384	15	541,886	20	2,766,203
1990	1,424,855	47	512,871	17	489,460	16	580,590	19	3,007,776
1991	1,649,811	51	458,066	14	539,051	17	586,961	18	3,233,889
1992	1,578,342	49	463,386	14	503,396	16	696,270	21	3,241,394
1993	1,467,705	45	442,110	13	554,088	17	824,532	25	3,288,435
1994	1,605,050	47	449,237	13	562,096	16	802,736	23	3,419,119
1995	1,620,519	47	493,719	14	514,855	15	809,177	24	3,438,270
1996	1,624,937	47	505,557	15	489,079	14	818,107	24	3,437,680
1997	1,667,592	47	577,656	16	452,083	13	856,374	24	3,553,705
1998	2,043,920	53	547,251	14	469,574	12	831,339	21	3,892,084
1999	1,838,678	46	685,830	17	502,204	13	971,134	24	3,997,846
2000	1,950,595	49	664,297	17	459,662	11	927,961	23	4,002,515
2001	1,860,234	47	722,867	18	484,624	12	913,347	23	3,981,072
2002	2,039,927	49	764,115	18	394,379	9	1,003,922	24	4,202,343
2003	2,032,566	46	846,815	19	424,528	10	1,077,585	25	4,381,494
2004	2,221,839	50	644,363	15	419,111	9	1,148,811	26	4,434,124
2005	2,187,765	49	690,069	15	399,550	9	1,186,807	27	4,464,191
2006	2,226,220	51	627,596	14	381,814	9	1,168,961	27	4,404,591
2007	2,420,314	57	514,821	12	370,258	9	933,587	22	4,238,980
2008	2,472,394	56	626,441	14	366,618	8	917,576	21	4,383,029
2009	2,600,596	58	624,886	14	421,152	9	861,012	19	4,507,646
2010	2,494,696	58	544,209	13	441,299	10	854,840	20	4,335,044
2011	2,303,803	54	619,852	15	474,675	11	838,294	20	4,236,624
2012	2,658,404	57	627,523	13	493,374	11	892,705	19	4,672,006
2013	2,652,282	56	642,610	14	465,949	10	982,356	21	4,743,197
2014	2,861,515	58	650,667	13	451,735	9	968,173	20	4,932,090
2015	2,665,532	56	714,257	15	451,735	9	968,173	20	4,799,697

Table 16. Estimated Discards (tonnes) by longliners in the WCPFC Statistical Area
(2014-2015 data are provisional)

YEAR	ALBACORE			BIGEYE			YELLOWFIN			TOTAL		
	Retained + Discarded	Discarded	%	Retained + Discarded	Discarded	%	Retained + Discarded	Discarded	%	Retained + Discarded	Discarded	%
1994	65,031	5,892	9.1%	81,499	2,380	2.9%	86,051	4,062	4.7%	232,581	12,333	5.3%
1995	63,395	3,157	5.0%	69,324	1,206	1.7%	92,584	4,500	4.9%	225,303	8,863	3.9%
1996	64,571	3,125	4.8%	59,090	1,034	1.8%	93,025	1,172	1.3%	216,686	5,331	2.5%
1997	80,488	8,693	10.8%	71,158	2,640	3.7%	84,041	3,101	3.7%	235,687	14,434	6.1%
1998	90,319	11,597	12.8%	88,028	3,063	3.5%	83,716	2,746	3.3%	262,063	17,406	6.6%
1999	69,763	942	1.4%	75,668	696	0.9%	72,097	1,110	1.5%	217,529	2,748	1.3%
2000	69,993	413	0.6%	77,358	449	0.6%	97,432	585	0.6%	244,783	1,446	0.6%
2001	88,780	3,924	4.4%	79,024	356	0.5%	95,970	432	0.5%	263,774	4,712	1.8%
2002	94,595	4,947	5.2%	93,684	1,321	1.4%	97,346	1,733	1.8%	285,625	8,001	2.8%
2003	79,267	476	0.6%	84,253	1,255	1.5%	97,607	1,933	2.0%	261,127	3,664	1.4%
2004	79,007	2,094	2.7%	101,131	1,446	1.4%	105,693	1,659	1.6%	285,830	5,199	1.8%
2005	84,880	1,850	2.2%	79,265	674	0.9%	88,195	785	0.9%	252,340	3,309	1.3%
2006	86,533	1,307	1.5%	84,446	895	1.1%	85,937	954	1.1%	256,916	3,156	1.2%
2007	81,501	1,353	1.7%	82,432	1,096	1.3%	83,316	891	1.1%	247,249	3,341	1.4%
2008	80,754	1,752	2.2%	83,131	1,131	1.4%	86,029	2,460	2.9%	249,915	5,343	2.1%
2009	101,061	1,971	2.0%	80,095	360	0.5%	99,656	718	0.7%	280,812	3,049	1.1%
2010	103,588	1,802	1.7%	72,250	708	1.0%	96,247	731	0.8%	272,085	3,242	1.2%
2011	86,607	1,135	1.3%	77,195	463	0.6%	97,554	595	0.6%	261,357	2,193	0.8%
2012	101,337	760	0.8%	83,061	548	0.7%	87,837	870	1.0%	272,235	2,178	0.8%
2013	98,474	739	0.8%	65,766	1,375	2.1%	78,016	1,592	2.0%	242,256	3,705	1.5%
2014	87,135	523	0.6%	74,524	1,230	1.7%	103,010	1,391	1.4%	264,668	3,143	1.2%
2015	81,144	552	0.7%	68,479	1,171	1.7%	106,300	1,191	1.1%	255,924	2,913	1.1%
Average	83,556	2,682	3.2%	78,675	1,159	1.5%	91,712	1,600	1.7%	253,943	5,441	2.1%

Table 17. Estimated Discards (tonnes) by purse seiners in tropical waters of the WCPFC Statistical Area, excluding the domestic fisheries of Indonesia and the Philippines

YEAR	SKIPJACK			YELLOWFIN			BIGEYE			TOTAL		
	Retained + Discarded	Discarded	%	Retained + Discarded	Discarded	%	Retained + Discarded	Discarded	%	Retained + Discarded	Discarded	%
1995	562,853	12,664	2.3%	180,110	1,063	0.6%	28,734	325	1.1%	771,697	14,052	1.8%
1996	546,868	17,937	3.3%	157,696	1,719	1.1%	38,773	876	2.3%	743,337	20,532	2.8%
1997	411,317	12,052	2.9%	271,396	1,873	0.7%	70,704	891	1.3%	753,417	14,815	2.0%
1998	580,194	17,232	3.0%	368,375	6,336	1.7%	64,472	774	1.2%	1,013,040	24,341	2.4%
1999	537,696	18,067	3.4%	287,221	5,744	2.0%	63,255	1,619	2.6%	888,172	25,430	2.9%
2000	622,773	29,582	4.8%	290,664	2,151	0.7%	39,507	1,189	3.0%	952,944	32,922	3.5%
2001	632,338	34,652	5.5%	272,688	2,154	0.8%	45,624	1,136	2.5%	950,651	37,942	4.0%
2002	814,479	40,317	5.0%	233,091	2,750	1.2%	55,170	750	1.4%	1,102,739	43,817	4.0%
2003	723,746	25,693	3.6%	273,953	4,822	1.8%	35,313	512	1.5%	1,033,012	31,027	3.0%
2004	779,446	31,412	4.0%	277,651	9,746	3.5%	63,812	1,921	3.0%	1,120,908	43,078	3.8%
2005	957,572	48,166	5.0%	311,494	7,102	2.3%	51,505	2,210	4.3%	1,320,571	57,477	4.4%
2006	1,018,857	23,536	2.3%	240,775	3,973	1.7%	51,995	775	1.5%	1,311,628	28,283	2.2%
2007	1,123,633	32,136	2.9%	264,235	3,065	1.2%	44,137	719	1.6%	1,432,005	35,920	2.5%
2008	1,054,814	20,991	2.0%	358,796	4,449	1.2%	50,302	1,278	2.5%	1,463,912	26,718	1.8%
2009	1,250,807	28,643	2.3%	275,533	4,050	1.5%	52,475	1,616	3.1%	1,578,815	34,310	2.2%
2010	1,171,442	15,346	1.3%	318,694	3,187	1.0%	51,306	734	1.4%	1,541,443	19,267	1.2%
2011	1,069,966	11,877	1.1%	275,705	2,206	0.8%	68,471	876	1.3%	1,414,143	14,959	1.1%
2012	1,308,239	20,278	1.6%	324,445	3,601	1.1%	61,025	775	1.3%	1,693,709	24,654	1.5%
2013	1,271,868	32,305	2.5%	289,536	4,893	1.7%	67,649	1,224	1.8%	1,629,053	38,423	2.4%
2014	1,459,602	56,924	3.9%	334,315	7,388	2.2%	63,222	1,650	2.6%	1,857,138	65,963	3.6%
2015	1,335,587	38,732	2.9%	279,671	6,600	2.4%	46,906	1,548	3.3%	1,662,165	46,880	2.8%
Average	915,909	27,073	3.0%	280,288	4,232	1.5%	53,065	1,114	2.1%	1,249,262	32,420	2.6%

Table 18. Commercial catches of billfish in the WCPFC Statistical Area, by gear type and species

YEAR	LONGLINE					PURSE SEINE		
	BLUE MARLIN	BLACK MARLIN	STRIPED MARLIN	SWORD-FISH	SUB-TOTAL	BLUE MARLIN	BLACK MARLIN	SUB-TOTAL
1962	14,197	2,091	15,207	10,354	41,849	0	0	0
1963	11,583	2,100	12,384	9,741	35,808	0	0	0
1964	10,240	1,697	17,023	5,942	34,902	0	0	0
1965	8,303	2,260	13,298	8,176	32,037	0	0	0
1966	8,763	2,408	9,648	9,821	30,640	0	0	0
1967	7,287	2,362	11,506	10,643	31,798	0	0	0
1968	6,673	2,951	11,783	9,504	30,911	0	1	1
1969	7,091	2,619	8,500	8,945	27,155	0	1	1
1970	9,977	3,544	7,594	7,578	28,693	6	14	20
1971	6,450	3,776	6,373	8,615	25,214	8	19	27
1972	7,957	3,696	5,194	8,110	24,957	9	20	29
1973	7,483	3,793	5,550	7,303	24,129	14	31	45
1974	7,253	3,115	4,788	7,990	23,146	7	17	24
1975	7,079	3,281	3,764	8,519	22,643	7	17	24
1976	6,710	2,242	3,497	9,955	22,404	6	16	22
1977	7,020	2,427	2,948	9,583	21,978	9	21	30
1978	8,861	2,787	3,744	9,871	25,263	8	20	28
1979	9,414	2,395	5,059	11,178	28,046	13	29	42
1980	10,245	1,552	4,823	8,740	25,360	13	29	42
1981	10,332	2,009	4,773	10,111	27,225	30	60	90
1982	10,398	2,023	4,536	9,214	26,171	42	90	132
1983	9,005	1,741	3,476	10,108	24,330	67	132	199
1984	12,197	1,317	4,836	9,975	28,325	86	161	247
1985	9,667	1,048	5,509	12,415	28,639	69	137	206
1986	10,348	1,121	6,175	11,473	29,117	66	128	194
1987	14,403	1,533	5,558	12,930	34,424	73	145	218
1988	14,553	2,294	7,613	12,804	37,264	71	142	213
1989	11,893	1,207	6,646	10,695	30,441	86	169	255
1990	10,200	1,120	4,871	11,470	27,661	95	184	279
1991	10,842	1,449	5,237	12,713	30,241	135	253	388
1992	13,302	1,650	5,363	18,322	38,637	141	241	382
1993	15,854	1,428	10,600	19,637	47,519	142	246	388
1994	15,609	1,844	6,189	17,057	40,699	141	239	380
1995	18,044	1,335	7,189	15,714	42,282	144	242	386
1996	14,526	945	5,834	15,177	36,482	160	263	423
1997	12,544	964	5,010	18,175	36,693	179	270	449
1998	16,449	1,545	7,080	19,299	44,373	182	267	449
1999	14,573	1,927	5,882	20,539	42,921	153	235	388
2000	13,797	1,296	4,264	21,214	40,571	184	273	457
2001	15,583	1,498	4,779	18,286	40,146	189	257	446
2002	15,527	1,795	4,375	18,889	40,586	205	278	483
2003	24,193	2,031	5,364	20,236	51,824	214	283	497
2004	21,847	2,293	4,955	22,065	51,160	226	293	519
2005	20,126	2,734	4,277	19,776	46,913	848	628	1,476
2006	17,850	2,430	4,028	22,690	46,998	611	399	1,010
2007	15,035	1,773	3,406	24,835	45,049	824	268	1,092
2008	14,806	1,768	3,639	22,523	42,736	592	442	1,034
2009	14,795	1,972	2,827	19,759	39,353	579	344	923
2010	15,672	2,092	2,854	17,344	37,962	644	661	1,305
2011	14,781	1,738	3,688	18,007	38,214	752	429	1,181
2012	14,360	1,562	3,728	19,411	39,061	918	367	1,285
2013	15,629	1,673	3,397	17,831	38,530	946	529	1,475
2014	15,649	1,866	3,167	18,750	39,432	859	428	1,287
2015	13,521	2,231	3,188	18,497	37,437	859	428	1,287

Table 18 continued

YEAR	OTHER COMMERCIAL GEARS					TOTAL
	BLUE MARLIN	BLACK MARLIN	STRIPED MARLIN	SWORD-FISH	SUB-TOTAL	
1962	1,023	65	0	38	1,126	42,975
1963	1,084	69	0	41	1,194	37,002
1964	1,187	73	2,366	1,203	4,829	39,731
1965	1,283	77	2,790	2,118	6,268	38,305
1966	1,379	82	1,676	1,934	5,071	35,711
1967	1,497	87	1,641	1,161	4,386	36,184
1968	1,528	92	1,255	1,883	4,758	35,670
1969	1,745	98	2,625	1,673	6,141	33,297
1970	1,850	125	1,184	1,895	5,054	33,767
1971	2,064	140	2,284	617	5,105	30,346
1972	2,154	146	1,369	436	4,105	29,091
1973	2,877	174	4,011	972	8,034	32,208
1974	3,238	201	3,930	1,789	9,158	32,328
1975	3,986	206	7,255	3,072	14,519	37,186
1976	3,603	175	4,163	4,138	12,079	34,505
1977	4,858	243	4,980	2,802	12,883	34,891
1978	3,604	156	6,035	2,855	12,650	37,941
1979	3,681	196	3,058	1,368	8,303	36,391
1980	3,631	177	4,008	2,308	10,124	35,526
1981	4,245	195	4,410	2,201	11,051	38,366
1982	3,904	175	2,997	1,643	8,719	35,022
1983	4,243	194	2,667	1,386	8,490	33,019
1984	3,536	211	3,060	1,420	8,227	36,799
1985	4,205	257	3,116	1,540	9,118	37,963
1986	4,045	268	4,181	1,633	10,127	39,438
1987	3,164	195	2,399	1,317	7,075	41,717
1988	3,750	222	2,880	1,552	8,404	45,881
1989	4,059	241	2,211	2,115	8,626	39,322
1990	5,251	342	2,489	1,388	9,470	37,410
1991	5,837	388	1,839	883	8,947	39,576
1992	3,046	218	1,515	1,393	6,172	45,191
1993	3,182	221	1,267	747	5,417	53,324
1994	4,673	289	1,824	924	7,710	48,789
1995	5,254	330	1,248	1,203	8,035	50,703
1996	5,688	339	912	1,260	8,199	45,104
1997	2,212	120	1,017	830	4,179	41,321
1998	2,365	138	1,421	1,082	5,006	49,828
1999	2,391	141	1,340	1,256	5,128	48,437
2000	1,558	96	1,380	1,404	4,438	45,466
2001	1,592	90	1,370	1,050	4,102	44,694
2002	1,611	99	1,587	1,452	4,749	45,818
2003	1,805	122	1,261	1,440	4,628	56,949
2004	1,825	126	1,466	1,383	4,800	56,479
2005	1,909	129	1,334	1,542	4,914	53,303
2006	1,955	142	1,308	1,447	4,852	52,860
2007	2,205	161	1,083	1,389	4,838	50,979
2008	3,784	186	1,446	1,227	6,643	50,413
2009	2,569	126	974	1,211	4,880	45,156
2010	2,794	126	1,042	856	4,818	44,085
2011	2,780	126	492	461	3,859	43,254
2012	3,109	147	741	1,886	5,883	46,229
2013	3,384	160	738	2,816	7,098	47,103
2014	3,411	161	742	2,643	6,957	47,678
2015	3,446	161	741	2,641	6,989	45,715

Table 19. Commercial catches of billfish in the WCPFC Statistical Area, by species

YEAR	BLUE MARLIN		BLACK MARLIN		STRIPED MARLIN		SWORDFISH		TOTAL
	TONNES	%	TONNES	%	TONNES	%	TONNES	%	
1962	15,220	35	2,156	5	15,207	35	10,392	24	42,975
1963	12,667	34	2,169	6	12,384	33	9,782	26	37,002
1964	11,427	29	1,770	4	19,389	49	7,145	18	39,731
1965	9,586	25	2,337	6	16,088	42	10,294	27	38,305
1966	10,142	28	2,490	7	11,324	32	11,755	33	35,711
1967	8,784	24	2,449	7	13,147	36	11,804	33	36,184
1968	8,201	23	3,044	9	13,038	37	11,387	32	35,670
1969	8,836	27	2,718	8	11,125	33	10,618	32	33,297
1970	11,833	35	3,683	11	8,778	26	9,473	28	33,767
1971	8,522	28	3,935	13	8,657	29	9,232	30	30,346
1972	10,120	35	3,862	13	6,563	23	8,546	29	29,091
1973	10,374	32	3,998	12	9,561	30	8,275	26	32,208
1974	10,498	32	3,333	10	8,718	27	9,779	30	32,328
1975	11,072	30	3,504	9	11,019	30	11,591	31	37,186
1976	10,319	30	2,433	7	7,660	22	14,093	41	34,505
1977	11,887	34	2,691	8	7,928	23	12,385	35	34,891
1978	12,473	33	2,963	8	9,779	26	12,726	34	37,941
1979	13,108	36	2,620	7	8,117	22	12,546	34	36,391
1980	13,889	39	1,758	5	8,831	25	11,048	31	35,526
1981	14,607	38	2,264	6	9,183	24	12,312	32	38,366
1982	14,344	41	2,288	7	7,533	22	10,857	31	35,022
1983	13,315	40	2,067	6	6,143	19	11,494	35	33,019
1984	15,819	43	1,689	5	7,896	21	11,395	31	36,799
1985	13,941	37	1,442	4	8,625	23	13,955	37	37,963
1986	14,459	37	1,517	4	10,356	26	13,106	33	39,438
1987	17,640	42	1,873	4	7,957	19	14,247	34	41,717
1988	18,374	40	2,658	6	10,493	23	14,356	31	45,881
1989	16,038	41	1,617	4	8,857	23	12,810	33	39,322
1990	15,546	42	1,646	4	7,360	20	12,858	34	37,410
1991	16,814	42	2,090	5	7,076	18	13,596	34	39,576
1992	16,489	36	2,109	5	6,878	15	19,715	44	45,191
1993	19,178	36	1,895	4	11,867	22	20,384	38	53,324
1994	20,423	42	2,372	5	8,013	16	17,981	37	48,789
1995	23,442	46	1,907	4	8,437	17	16,917	33	50,703
1996	20,374	45	1,547	3	6,746	15	16,437	36	45,104
1997	14,935	36	1,354	3	6,027	15	19,005	46	41,321
1998	18,996	38	1,950	4	8,501	17	20,381	41	49,828
1999	17,117	35	2,303	5	7,222	15	21,795	45	48,437
2000	15,539	34	1,665	4	5,644	12	22,618	50	45,466
2001	17,364	39	1,845	4	6,149	14	19,336	43	44,694
2002	17,343	38	2,172	5	5,962	13	20,341	44	45,818
2003	26,212	46	2,436	4	6,625	12	21,676	38	56,949
2004	23,898	42	2,712	5	6,421	11	23,448	42	56,479
2005	22,883	43	3,491	7	5,611	11	21,318	40	53,303
2006	20,416	39	2,971	6	5,336	10	24,137	46	52,860
2007	18,064	35	2,202	4	4,489	9	26,224	51	50,979
2008	19,182	38	2,396	5	5,085	10	23,750	47	50,413
2009	17,943	40	2,442	5	3,801	8	20,970	46	45,156
2010	19,110	43	2,879	7	3,896	9	18,200	41	44,085
2011	18,313	42	2,293	5	4,180	10	18,468	43	43,254
2012	18,387	40	2,076	4	4,469	10	21,297	46	46,229
2013	19,959	42	2,362	5	4,135	9	20,647	44	47,103
2014	19,919	42	2,455	5	3,911	8	21,393	45	47,678
2015	17,826	39	2,820	6	3,931	9	21,138	46	45,715

Table 20. Commercial catches of striped marlin and swordfish in the WCPFC Statistical Area north of the equator

YEAR	STRIPED MARLIN		SWORDFISH		TOTAL
	TONNES	%	TONNES	%	
1962	12,165	55	9,857	45	22,022
1963	9,550	51	9,029	49	18,579
1964	17,913	73	6,745	27	24,658
1965	14,194	60	9,377	40	23,571
1966	9,099	46	10,676	54	19,775
1967	11,802	52	10,920	48	22,722
1968	11,903	54	10,083	46	21,986
1969	10,107	51	9,694	49	19,801
1970	7,574	47	8,517	53	16,091
1971	6,572	47	7,290	53	13,862
1972	4,550	41	6,606	59	11,156
1973	7,496	53	6,769	47	14,265
1974	7,044	47	7,816	53	14,860
1975	9,788	48	10,406	52	20,194
1976	6,222	34	11,904	66	18,126
1977	7,021	38	11,643	62	18,664
1978	8,399	41	11,853	59	20,252
1979	6,605	37	11,011	63	17,616
1980	7,702	45	9,326	55	17,028
1981	7,200	42	10,047	58	17,247
1982	5,315	38	8,625	62	13,940
1983	4,948	33	10,133	67	15,081
1984	6,491	40	9,776	60	16,267
1985	7,312	38	11,990	62	19,302
1986	9,294	45	11,168	55	20,462
1987	6,629	36	11,903	64	18,532
1988	8,659	45	10,697	55	19,356
1989	6,510	39	10,262	61	16,772
1990	5,816	36	10,315	64	16,131
1991	5,769	34	11,179	66	16,948
1992	5,521	26	15,817	74	21,338
1993	10,364	37	17,600	63	27,964
1994	6,025	29	14,760	71	20,785
1995	6,550	32	13,962	68	20,512
1996	5,059	29	12,522	71	17,581
1997	4,329	24	13,694	76	18,023
1998	5,679	29	14,073	71	19,752
1999	4,936	25	15,022	75	19,958
2000	4,047	20	16,169	80	20,216
2001	4,331	25	13,060	75	17,391
2002	3,743	22	13,250	78	16,993
2003	3,962	21	14,749	79	18,711
2004	3,970	21	14,674	79	18,644
2005	3,466	20	13,475	80	16,941
2006	3,280	19	14,071	81	17,351
2007	2,701	15	14,840	85	17,541
2008	3,228	20	13,039	80	16,267
2009	2,118	15	12,154	85	14,272
2010	2,475	18	11,008	82	13,483
2011	2,681	18	12,406	82	15,087
2012	3,172	18	14,129	82	17,301
2013	3,066	19	12,769	81	15,835
2014	2,495	16	13,540	84	16,035
2015	2,122	25	6,509	75	8,631

Table 21. Commercial catches of striped marlin and swordfish in the WCPFC Statistical Area south of the equator

YEAR	STRIPED MARLIN		SWORDFISH		TOTAL
	TONNES	%	TONNES	%	
1962	3,042	85	535	15	3,577
1963	2,834	79	753	21	3,587
1964	1,473	79	397	21	1,870
1965	1,890	67	914	33	2,804
1966	2,139	67	1,044	33	3,183
1967	1,345	60	884	40	2,229
1968	1,135	47	1,304	53	2,439
1969	1,018	52	924	48	1,942
1970	1,204	56	956	44	2,160
1971	2,085	52	1,942	48	4,027
1972	2,013	51	1,940	49	3,953
1973	2,065	58	1,506	42	3,571
1974	1,674	46	1,963	54	3,637
1975	1,230	51	1,185	49	2,415
1976	1,438	40	2,189	60	3,627
1977	906	55	741	45	1,647
1978	1,380	61	873	39	2,253
1979	1,512	50	1,535	50	3,047
1980	1,129	40	1,722	60	2,851
1981	1,983	47	2,265	53	4,248
1982	2,219	50	2,232	50	4,451
1983	1,195	47	1,361	53	2,556
1984	1,406	46	1,619	54	3,025
1985	1,313	40	1,966	60	3,279
1986	1,060	35	1,938	65	2,998
1987	1,328	36	2,344	64	3,672
1988	1,833	33	3,655	67	5,488
1989	2,344	48	2,548	52	4,892
1990	1,535	38	2,543	62	4,078
1991	1,288	35	2,417	65	3,705
1992	1,305	25	3,898	75	5,203
1993	1,503	35	2,783	65	4,286
1994	1,988	38	3,230	62	5,218
1995	1,886	39	2,956	61	4,842
1996	1,687	30	3,915	70	5,602
1997	1,698	24	5,311	76	7,009
1998	2,761	30	6,309	70	9,070
1999	2,285	25	6,773	75	9,058
2000	1,597	20	6,449	80	8,046
2001	1,818	22	6,275	78	8,093
2002	2,219	24	7,091	76	9,310
2003	2,663	28	6,927	72	9,590
2004	2,453	23	8,045	77	10,498
2005	1,816	21	6,722	79	8,538
2006	1,795	17	8,925	83	10,720
2007	1,734	14	10,681	86	12,415
2008	1,905	15	10,454	85	12,359
2009	1,863	18	8,350	82	10,213
2010	1,597	17	7,653	83	9,250
2011	1,778	16	9,167	84	10,945
2012	1,735	14	10,328	86	12,063
2013	1,288	12	9,842	88	11,130
2014	1,561	13	10,028	87	11,589
2015	848	24	2,729	76	3,577

Table 22. Commercial catches of albacore, striped marlin and swordfish in the South Pacific Ocean

YEAR	ALBACORE		STRIPED MARLIN		SWORDFISH		TOTAL
	TONNES	%	TONNES	%	TONNES	%	
1962	35,219	100	0	0	0	0	35,219
1963	31,111	100	0	0	0	0	31,111
1964	22,824	100	3	0	3	0	22,830
1965	25,455	100	4	0	3	0	25,462
1966	38,661	100	86	0	35	0	38,782
1967	43,957	99	191	0	50	0	44,198
1968	32,382	99	229	1	106	0	32,717
1969	24,805	99	106	0	31	0	24,942
1970	34,925	99	261	1	40	0	35,226
1971	38,630	83	5,237	11	2,451	5	46,318
1972	39,521	85	4,307	9	2,604	6	46,432
1973	47,330	89	3,395	6	2,727	5	53,452
1974	34,049	86	3,042	8	2,556	6	39,647
1975	23,600	84	2,629	9	1,935	7	28,164
1976	29,082	80	3,919	11	3,398	9	36,399
1977	38,740	88	2,797	6	2,305	5	43,842
1978	34,676	86	2,827	7	2,670	7	40,173
1979	27,076	80	3,966	12	2,636	8	33,678
1980	32,541	83	3,533	9	3,322	8	39,396
1981	34,784	80	4,843	11	3,632	8	43,259
1982	30,788	79	4,719	12	3,312	9	38,819
1983	25,092	81	3,153	10	2,766	9	31,011
1984	24,704	83	2,447	8	2,641	9	29,792
1985	32,328	87	2,235	6	2,642	7	37,205
1986	36,590	86	2,722	6	3,293	8	42,605
1987	25,052	75	4,170	13	4,132	12	33,354
1988	37,867	80	3,657	8	5,717	12	47,241
1989	49,076	87	3,985	7	3,627	6	56,688
1990	36,062	81	3,903	9	4,736	11	44,701
1991	35,600	81	3,349	8	4,854	11	43,803
1992	38,668	79	3,202	7	7,186	15	49,056
1993	35,438	80	3,461	8	5,135	12	44,034
1994	42,318	82	4,097	8	5,442	10	51,857
1995	38,467	83	3,305	7	4,779	10	46,551
1996	34,359	79	3,536	8	5,618	13	43,513
1997	39,490	77	3,999	8	7,631	15	51,120
1998	50,371	79	4,506	7	8,621	14	63,498
1999	39,614	78	3,044	6	7,957	16	50,615
2000	47,338	82	2,283	4	8,182	14	57,803
2001	58,344	81	2,847	4	10,401	15	71,592
2002	73,240	79	4,090	4	15,365	17	92,695
2003	62,477	79	4,095	5	12,309	16	78,881
2004	61,871	74	3,481	4	17,766	21	83,118
2005	63,566	78	2,831	3	14,694	18	81,091
2006	62,444	76	2,617	3	17,193	21	82,254
2007	58,591	75	2,333	3	16,917	22	77,841
2008	62,740	76	2,404	3	17,000	21	82,144
2009	82,901	80	2,282	2	18,831	18	104,014
2010	87,292	80	2,128	2	19,679	18	109,099
2011	66,146	73	2,785	3	21,188	24	90,119
2012	87,895	77	2,658	2	23,358	21	113,911
2013	84,794	78	2,313	2	21,482	20	108,589
2014	81,658	77	2,251	2	21,954	21	105,863
2015	68,594	75	2,157	2	20,633	23	91,384