

OCEANIC FISHERIES PROGRAMME

PUBLIC DOMAIN CATCH AND EFFORT DATA – PURSE SEINE BY FLAG, YEAR AND QUARTER

This dataset represents the most complete PURSE SEINE data available to the WCPFC that can be disseminated into the public domain in accordance with the current "Rules and Procedures for the Protection, Access to, and Dissemination of Data Compiled by the Commission" ("RAP" – see <http://www.wcpfc.int/doc/data-02/rules-and-procedures-protection-access-and-dissemination-data-compiled-commission>).

In reference to the RAP (Paragraph 9), cells where effort is less than or equal to the maximum value estimated to represent the activities of two vessels have been removed from the public domain data (the cells are retained with their time/area information, but all catch and effort information in these have been set to zero).

Reference to the Coordinating Working Party No can be found on <http://www.fao.org/cwp-on-fishery-statistics/handbook/general-concepts/major-fishing-areas-general/en/>

PS: Vietnam Purse seine fishery is very different from the main WCPFC purse seine tropical fishery in that the vessels and gear are much smaller, and the catch by set is more than an order of magnitude less than the average in the WCPFC PS tropical fishery. For this reason, Vietnamese fishery data has been excluded at this stage and public domain data for this fishery may be included as a distinct gear in the future.

DATASET STRUCTURE

Field Name	Picture	Description
YY	N(4)	Year
QTR	N(1)	Quarter
FLAG	C(2)	Flag/Nationality of vessels
LAT_SHORT	C(3)	Latitude. It represents the latitude of the <u>south-west corner</u> of 5° square for these data.
LON_SHORT	C(4)	Longitude. It represents the longitude of the <u>south-west corner</u> of 5° square for these data.
CWP_GRID	N(11)	Coordinating Working Party No
DAYS	N(6)	Days fishing and searching (effort).
SETS_UNA	N(6)	Number of Sets (Unassociated schools).
SETS_LOG	N(6)	Number of Sets (Natural Log/debris).
SETS_DFAD	N(6)	Number of Sets (Drifting FAD).
SETS_AFAD	N(6)	Number of Sets (Anchored FAD).
SETS_OTH	N(6)	Number of Sets (Other set types combined).
SKJ_C_UNA	N(8, 3)	Skipjack catch in metric tonnes (Unassociated schools).
YFT_C_UNA	N(8, 3)	Yellowfin catch (metric tonnes) (Unassociated schools).
BET_C_UNA	N(8, 3)	Bigeye catch (metric tonnes) (Unassociated schools).
OTH_C_UNA	N(8, 3)	Other species catch (metric tonnes) (Unassociated schools).
SKJ_C_LOG	N(8, 3)	Skipjack catch in metric tonnes (Natural-Log schools).
YFT_C_LOG	N(8, 3)	Yellowfin catch (metric tonnes) (Natural-Log schools).
BET_C_LOG	N(8, 3)	Bigeye catch (metric tonnes) (Natural-Log schools).
OTH_C_LOG	N(8, 3)	Other species catch (metric tonnes) (Natural-Log schools).
SKJ_C_DFAD	N(8, 3)	Skipjack catch in metric tonnes (Drifting FAD schools).
YFT_C_DFAD	N(8, 3)	Yellowfin catch (metric tonnes) (Drifting FAD schools).
BET_C_DFAD	N(8, 3)	Bigeye catch (metric tonnes) (Drifting FAD schools).
OTH_C_DFAD	N(8, 3)	Other species catch (metric tonnes) (Drifting FAD schools).
SKJ_C_AFAD	N(8, 3)	Skipjack catch in metric tonnes (Anchored FAD schools).
YFT_C_AFAD	N(8, 3)	Yellowfin catch (metric tonnes) (Anchored FAD schools).
BET_C_AFAD	N(8, 3)	Bigeye catch (metric tonnes) (Anchored FAD schools).
Field Name	Picture	Description
OTH_C_AFAD	N(8, 3)	Other species catch (metric tonnes) (Anchored FAD schools).
SKJ_C_OTH	N(8, 3)	Skipjack catch in metric tonnes (Schools from other set types).
YFT_C_OTH	N(8, 3)	Yellowfin catch (metric tonnes) (Schools from other set types).
BET_C_OTH	N(8, 3)	Bigeye catch (metric tonnes) (Schools from other set types).
OTH_C_OTH	N(8, 3)	Other species catch (metric tonnes) (Schools from other set types).

Statistics showing the amount of data removed and resultant coverage of the public domain data available to satisfy the RAP's three-vessel rule

Year	Effort (days) for strata with 3 or more vessels	Total effort (days)	Coverage of effort (%) after filtering for the three-vessel rule	Number of strata with 3 or more vessels	Number of all full coverage strata	Coverage of strata (%) after filtering for the three-vessel rule
1967	0.0	8.0	0.0	0	4	0.00
1968	0.0	51.0	0.0	0	8	0.00
1969	0.0	17.0	0.0	0	6	0.00
1970	0.0	3,087.0	0.0	0	39	0.00
1971	0.0	5,503.0	0.0	0	43	0.00
1972	0.0	6,030.5	0.0	0	38	0.00
1973	0.0	6,964.9	0.0	0	57	0.00
1974	0.0	6,133.0	0.0	0	53	0.00
1975	23.0	3,513.0	0.7	1	66	1.52
1976	0.0	3,509.0	0.0	0	70	0.00
1977	0.0	3,862.0	0.0	0	65	0.00
1978	33.0	3,266.0	1.0	1	81	1.23
1979	836.2	5,589.0	15.0	8	72	11.11
1980	1,127.1	5,957.7	18.9	12	86	13.95
1981	2,409.1	10,946.8	22.0	31	263	11.79
1982	4,140.8	15,468.7	26.8	32	322	9.94
1983	6,466.4	23,851.7	27.1	35	365	9.59
1984	11,945.9	30,011.8	39.8	69	444	15.54
1985	13,940.4	25,129.9	55.5	100	415	24.10
1986	10,741.1	25,194.8	42.6	90	450	20.00
1987	14,868.2	29,201.8	50.9	119	443	26.86
1988	19,794.6	28,110.0	70.4	155	497	31.19
1989	23,145.8	31,597.5	73.3	175	510	34.31
1990	26,279.0	35,443.3	74.1	224	569	39.37
1991	31,177.4	43,482.6	71.7	208	625	33.28
1992	35,413.6	46,511.9	76.1	246	665	36.99
1993	36,236.6	48,494.1	74.7	265	736	36.01
1994	31,927.4	44,378.5	71.9	273	704	38.78
1995	30,994.3	44,038.1	70.4	236	719	32.82
1996	31,583.9	46,371.5	68.1	252	831	30.32
1997	32,954.7	47,244.3	69.8	334	994	33.60
1998	30,007.9	46,044.0	65.2	285	987	28.88
1999	31,084.2	47,432.4	65.5	336	1,068	31.46
2000	30,197.6	47,251.9	63.9	349	1,067	32.71
2001	30,766.4	46,605.9	66.0	355	1,092	32.51
2002	33,516.6	50,948.7	65.8	419	1,376	30.45
2003	35,647.5	54,678.2	65.2	415	1,301	31.90
2004	38,774.0	59,264.4	65.4	471	1,392	33.84
2005	40,694.8	59,832.8	68.0	503	1,329	37.85
2006	38,755.5	56,731.9	68.3	442	1,178	37.52
2007	41,465.4	61,226.9	67.7	460	1,228	37.46
2008	44,068.8	66,488.8	66.3	519	1,433	36.22
2009	45,945.8	65,527.5	70.1	516	1,459	35.37
2010	47,489.2	64,654.4	73.5	514	1,453	35.38
2011	52,905.0	72,725.7	72.7	567	1,565	36.23
2012	49,243.0	70,465.6	69.9	628	1,532	40.99
2013	50,039.5	78,544.8	63.7	639	1,564	40.86
2014	48,855.4	73,388.7	66.6	639	1,478	43.23
2015	39,091.9	56,127.7	69.6	651	1,438	45.27
2016	40,313.2	61,175.4	65.9	661	1,494	44.24
2017	43,241.4	69,625.9	62.1	689	1,505	45.78
2018	40,429.9	59,439.1	68.0	664	1,577	42.11
2019	38,662.5	60,228.1	64.2	624	1,494	41.77
2020	41,536.0	62,362.2	66.6	642	1,526	42.07
2021	40,423.1	62,770.9	64.4	648	1,476	43.90
2022	38,605.0	59,705.7	64.7	605	1,437	42.10
2023	38,280.6	59,279.5	64.6	612	1,558	39.28
Total	1,377,798	2,142,216	64.3	16,107	44,689	36.04