

**Agenda Item 4.3:      By-catch issues**

**Fisheries Statistics - Data Submitted by Parties**

**Submitted by:          Secretariat**



**ASCOBANS**

***NOTE:***  
**IN THE INTERESTS OF ECONOMY, DELEGATES ARE KINDLY REMINDED TO BRING THEIR OWN COPIES OF THESE DOCUMENTS TO THE MEETING**

## **Secretariat's Note**

At its 7<sup>th</sup> Meeting, held in March 2000 in Bruges, Belgium, the ASCOBANS Advisory Committee requested that Parties and Range States should collect data on fishing effort (AC7 Report, P 2, P. 14, Item 5.8). It was agreed that future reporting should be modelled on the summary style of the report submitted to AC7 by Belgium (AC7/Doc. 15).

Three Parties and one Non-Party Range State submitted data in response to this request.

# PARTIES

## Fisheries Statistics from Finland

### Finnish Game and Fisheries Research Institute

#### Professional marine fishery

In the beginning of 2002 the Finnish fishing fleet numbered almost 3 600 registered vessels with capacity of 19 700 GT and power of 191 200kW. There has been some reduction in fleet size from the previous year. The fleet is divided into four segments: pelagic trawlers, demersal trawlers, offshore salmon vessels and vessels under 12 metres with passive gear. Most of the vessels (about 3 400) are less than 12 metres in length and used in inshore fishing. In the pelagic segment there are 180 registered vessels with a capacity of 9 200 GT and 49 000 kW. In the demersal trawler segment there are only a few vessels left. In the salmon fishery there are about 60 vessels (capacity of 1 700 GT and power of 11 600 kW) using drift nets and longlines. In 2001 the total fleet landings reached 103 666 tonnes and the total catch value was EUR 23 million. There were some 2 700 professional fishermen but most of them were part-time.

#### **a. Offshore fishery**

Type of fishery:	Pelagic and bottom trawls, drif nets, long lines, bottom gillnets
Target species:	Baltic herring, sprat, cod, salmon
Reporting period:	2001
Fishing season:	Year round, target species dependent on season
Type of statistic:	Nominal catch
Fishing area:	III d
Number of vessels:	Total fleet in open sea fishery 310 vessels
Catch:	Pelagic trawl: 60000 tons (herring 47000 t., sprat 12900 t., cod 390 t.) Bottom trawl: 33000 tons (herring 29200 t., sprat 2800 t., cod 850 t., smelt 95 t.) Drift net: 280 tons (salmon 210 t.) Long line: 17 tons (salmon 16 t.) Bottom gillnet: 580 tons (cod 470 t.)
Landings:	See catch
By-catch:	Smelt (95 t.) in bottom trawling, otherwise relatively small by-catch of non-target species and undersized target species

Discard: Circa 30 tons (salmon 25 t., herring 6 tons.); Salmon mostly eaten by seals

**b. Inshore fishery:**

Type of fishery: Trap nets, gillnets

Target species: Baltic herring, salmon, whitefish, perch, pikeperch, pike, etc.

Reporting period: 2001

Fishing season: Year round, target species dependent on season

Type of statistic: Nominal catch

Fishing area: IIIId

Number of fishermen: Circa 1800 fishing units (fishermen with their households etc.) in coastal fishery in total, every fishing unit owns at least one boat

Catch: Trap net: 6800 tons (herring 5400 t., smelt 300 t., perch 250 t., salmon 210 t., whitefish 180 t)  
Gillnet: 2500 tons (whitefish 670 t., perch 530 t., pikeperch 410t., herring 380 t., pike 160 t.)

Landings: See catch

By-catch: Smelt (300 t.) especially in trap net fishery, otherwise relatively small bycatch of non-target species and undersized target species (see discard)

Discard Circa 170 tons (salmon 45 t., whitefish 20 t., bream 20 t, roach 15 t., smelt 8 t., pikeperch 8 t.); Salmon and whitefish mostly eaten by seals; smelt, roach and bream are mostly unwanted by-catch

Recreational fisheries

In 2000, there were 2 million recreational fishermen in almost 1 million households in Finland. Fifty per cent of men and 28 per cent of women went fishing. About 250 000 of those who had been fishing had participated only by rowing or steering the boat. Most of the fishermen fished only in the inland waters.

The most commonly used tackle was the hook and line, which was used by two in three of fishermen. Next most common was the spinning rod, which was used by two in five fishermen. Other commonly used gears were gill net, jig and trolling gear.

The total catch amounted to 41 million kg, of which 70 per cent was taken in inland waters. Perch or pike made up over half of the catch. Sixty-one per cent of the total fish catch was taken with gill nets, fish traps and trap nets, and 36 per cent with rod and line.

### *References*

Professional Marine Fishery 2001. Finnish Game and Fisheries Research Institute. SVT - Official Statistics of Finland. Agriculture, Forestry and Fishery 2002:57.

Recreational Fishing 2000. Finnish Game and Fisheries Research Institute. SVT - Official Statistics of Finland: Agriculture, Forestry and Fishery 2002:54. 29 p.

Statistical databases of the Finnish Game and Fisheries Research Institute.

## Fisheries Statistics from Germany

### 1. Bottom Set Gill Nets

Type of fishery:	Bottom set gill nets	
Reporting period:	2001	
Fishing season:	Year round	
Type of statistic:	Catch	
Fishing area:	3A, 3B, 3C, 3D, 4A, 4B, 4C	
Catch:	Total:	6.019 tons
	Anglerfishes	57 tons
	Atlantic Cod	1.211 tons
	Common Dab	17 tons
	Herring	4.317 tons
	Common Sole	30 tons
	Turbot	12 tons
By-catch:	Other species	375 tons

## 2. Trawling

Type of fishery: Beam and other trawl for demersal fish and shrimp

Reporting period: 2001

Fishing season: Year round

Type of statistic: Catch

Fishing area: 3A, 3B, 3C, 3D, 4A, 4B, 4C

Catch:	Total:	91.167 tons
	Atlantic Cod	11.492 tons
	Common Shrimp	12.514 tons
	Common Dab	1.037 tons
	European Flounder	1.820 tons
	Haddock	810 tons
	Hering	29.007 tons
	Jack and Horse Mackerel	232 tons
	Atlantic Mackerel	4.531 tons
	Blue Mussel	11.568 tons
	European Plaice	4.831 tons
	Saithe	9.459 tons
	Common Sole	933 tons
	Sprat	791 tons
	Turbot	329 tons
	Whiting	672 tons

By-catch: Other species 1.141 tons

Discards: No information

### 3. Recreational Fishery

Type of fishery:	Recreational fishery	
Reporting period:	2001	
Fishing season:	Year round	
Type of statistic:	Catch	
Fishing area:	3A, 3B, 3C, 3D, 4A, 4B, 4C	
Catch:	Total:	183 tons
	Atlantic Cod	25 tons
	European Eel	20 tons
	European Flounder	7 tons
	European Perch	9 tons
	Northern Pike	8 tons
	Pike Perch	4 tons
	Roach	13 tons
	Garfish	5 tons
	Hering	80 tons
	Blue Mussel	0 tons
	European Smelt	5 tons
By-catch:	Other species	7 tons
Discards:	No information	

### 1. Bottom Set Gill Nets

Type of fishery:	Bottom set gill nets	
Reporting period:	2000	
Fishing season:	Year round	
Type of statistic:	Catch	
Fishing area:	3A, 3B, 3C, 3D, 4A, 4B, 4C	
Catch:	Total:	5.128 tons
	Anglerfishes	148 tons
	Atlantic Cod	1.109 tons
	Common Dab	21 tons
	Herring	3.314 tons
	Common Sole	40 tons
	Turbot	20 tons
By-catch:	Other species	476 tons

## 2. Trawling

Type of fishery:	Beam and other trawl for demereal fish and shrimp	
Reporting period:	2000	
Fishing season:	Year round	
Type for statistic:	Catch	
Fishing area:	3A, 3B, 3C, 3D, 4A, 4B, 4C	
Catch:	Total	103.563 tons
	Atlantic Cod	11.926 tons
	Common Shrimp	17.396 tons
	Common Dab	1.069 tons
	European Flounder	2.183 tons
	Haddock	344 tons
	Herring	27.312 tons
	Jack and Horse Mackerel	3.116 tons
	Blue Mussel	22.800 tons
	European Plaice	4.484 tons
	Saithe	9.276 tons
	Common Sole	1.254 tons
	Turbot	390 tons
	Whiting	748 tons
By-catch:	Other species	1.285 tons
Discards:	No information	

### 3. Recreational Fishery

Type of fishery:	Recreational fishery	
Reporting period:	2000	
Fishing season:	Year round	
Type of statistic:	Catch	
Fishing area:	3A, 3B, 3C, 3D, 4A, 4B, 4C	
Catch:	Total:	208 tons
	Atlantic Cod	20 tons
	European Eel	20 tons
	European Flounder	12 tons
	European Perch	13 tons
	Northern Pike	13 tons
	Pike Perch	10 tons
	Roach	5 tons
	Garfish	8 tons
	Herring	80 tons
	Blue Mussel	12 tons
	European Smelt	2 tons
By-catch:	Other species	13 tons
Discards:	No information	

## Fisheries statistics from Sweden

### 1. Bottom set gillnets

1	Type of fishery	Bottom set gillnet
	Target species	Varied species
	Reporting period	2001
	Fishing season	Year round depending on species
	Type of statistics	Catch per area and gear type from logbook
	Fishing areas	ICES III a,b,c
	Number of vessels	687
	Total effort	unit m of net*hours

DIVISION	Totalt
3AN	34 507 380
3AS	88 548 320
3B	213 673 711
3C	261 700
3DN	21 886 465
3DS	2 412 539 160
Totalt	2 771 416 736

2 Catch unit kg

MAFKOD	3AN	3AS	3B	3C	3DN	3DS		SPECIES
COD	18 009	34 757	674 457	890	20 619	6 173 886	6 922 617	Cod
HER	2 752	26 132	235 683		1 419 184	34 495	1 718 245	Herring
FLE	244	11 907	48 359		3 156	124 740	188 406	Flounder
WHF					134 442	14 873	149 316	Whitefish,
DGS	109 379		8			2	109 389	Spurdog
LUM	19 712	11 296	45 128			780	76 915	Lumpfish
PLE	3 875	38 369	38 661		36	4 883	85 824	Plaice
FPE			27		40 785	14 267	55 079	Perch
TUR	118	1 755	1 611		24	45 516	49 023	Turbot
FPI		10			20 491	20 647	41 148	Pike
MAC	38 818	583	70			35	39 506	Mackerel
FPP					12 383	13 260	25 643	Zander
CRE	2 959	21 864	139				24 961	Edible crab
UNK	3 251	3 117	1 137			75	7 580	Unknown
CAT	8 660	4 816	3			15	13 494	Rockfishes
FVE					13 084		13 084	Vendace
SOL	872	11 049	131			198	12 250	Sole
TRS		882	491		4 886	5 454	11 713	Trout
POL	11 553	222	2				11 777	Pollack
SAL		103	70		413	9 113	9 698	Salmon
SPR	10 495						10 495	Sprat
WHG	7	1 265	397			7 080	8 749	Whiting
LEM	64	6 697	1 128			41	7 930	Lemon Sole
Totalt	236 968	187 134	1 052 091	890	1 673 848	6 475 578	9 626 510	

Bycatch

See discard. Bycatch of seals 95 individuals

## 2. Driftnet

Type of fishery            Driftnets  
Target species            Salmon in the Baltic  
Reporting period        2001  
Fishing season           salmon year round  
Type of statistics        catch per area and gear type from logbooks  
Fishing area             III d  
Number of vessels       49  
Total effort              unit m of net\*hour

3DN	1 415 500
3DS	173 098 970
Totalt	174 514 470

Catch                    unit kg

MAFKOD	3DN	3DS	Totalt	SPECIES
SAL	2 415	218 459	220 874	Salmon
TRB		139	139	Trout

Bycatch 3 514 kg discard, no mammal bycatch recorded

### 3 Trawling

Type of fishery	bottom otter trawl and pelagic trawls
Target species	sprat, herring, sandeel, cod ...
Reporting period	2001
Fishing season	Year round
Type of statistics	catch per area and type of gear from loggbook
Fishing area	III a,b,c,d and IV a,b
Number of vessels	396
Total effort	unit trawling hours

DIVISION	Totalt
2A	11
3AN	39 584
3AS	12 078
3B	243
3C	33
3DN	1 800
3DS	40 970
4A	4 161
4B	6 129
4C	32
Totalt	105 041



3DS	4A	4B	4C	discard	Total	SPECIES
163 513 554	4 589 546	49 936 107	926 000	112 311	271 290 426	
72 580 098	1 258 120	339 600		11 000	105 139 759	Herring
78 327 470		1 165 000		15 000	85 016 680	Sprat
		46 537 000		50	49 976 050	Sandeels
12 283 508	265 909	358 169		2 698	15 059 134	Cod
286	1 861 035	260 000			2 254 878	Mackerel
	20 050			29 165	2 083 175	Blue Whiting
	145 401				1 988 486	Northern pink shrimp
487	572 130	606 010		3 165	1 550 777	Saithe
258	241 997	566 643		780	1 094 262	Haddock
				220	1 010 700	Argentines
	26 388	183		300	927 629	Norway lobster
			880 000	8 000	888 000	Pilchard, Sardine
				900	781 189	Norway Pout
					683 684	Vendace (Cisco)
	10 107	1 770			549 303	Witch
17 494	636	1 227			358 988	Plaice
250 261				650	268 490	Flounder
				7 605	265 942	Round-nose Grenadier
1 105	65 527	52 630		24 910	260 448	Unknown Catches
28 686	8 733	953		5 008	259 130	Whiting
				130	160 180	Poor cod
	1 000		46 000		118 901	Horse Mackerel
5 405	20				106 856	Spurdog / spiny dog-fish

Bycatch

see discard, no mammal bycatch recorded

**NON-PARTY RANGE STATE**

**FRANCE**