

ANNEX 1: RECENT LANDINGS FROM MEDITERRANEAN FISHERIES UP TO 1991 (from Stamatopoulos 1993)

N.B.: the first 5 pages are pooled data for the whole Mediterranean: the following pages give summaries by each division for finfish, crustaceans and molluscs (Black sea and Marmara Sea excluded).

The second part of this annex consists of a ranking of species catches for the Mediterranean and Black Seas combined, showing the differences (also in %) between 1992 and 1990 catches (catch increases at the start of the table; decreases at the end).

MEDITERRANEAN AND BLACK SEA
Total production of diadomous fish, crustaceans and molluscs
by sub-area division ranked by 1991 production

AREA	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Ionian	1	252190	18.0 %	Rising
Balearic	2	209537	14.9 %	Rising
Adriatic	3	208972	14.9 %	Stable (+)
Black Sea	4	199788	14.2 %	Rising
Aegean	5	150676	10.7 %	Rising
Sardinia	6	82040	5.9 %	Stable (-)
Gulf of Lions	7	79413	5.7 %	Rising
Levant	8	73753	5.3 %	Rising
Area 37 - Total Tuna	9	64556	4.6 %	Rising
Sea of Marmara	10	55662	4.0 %	Rising
Sea of Azov	11	26513	1.9 %	Declining
Mediterranean and Black Sea		1403100	100.0 %	Rising

MEDITERRANEAN AND BLACK SEA
Total production of diadomous fish, crustaceans and molluscs
by sub-area division ranked by 1991 production

AREA	RANK IN 1991	CATCH (MT)	RANK AND PERCENT		CATCH (MT)	RANK AND PERCENT	
			- 1982 -			- 1972 -	
Ionian	1	187208	5	9.6 %	80028	6	7.0 %
Balearic	2	252470	3	13.0 %	134702	4	11.8 %
Adriatic	3	283073	2	14.5 %	175539	2	15.4 %
Black Sea	4	667626	1	34.3 %	294933	1	25.9 %
Aegean	5	89081	7	4.6 %	51910	8	4.6 %
Sardinia	6	97562	6	5.0 %	155760	3	13.7 %
Gulf of Lions	7	50941	9	2.6 %	57005	7	5.0 %
Levant	8	31208	11	1.6 %	28507	10	2.5 %
Area 37 - Total Tuna	9	64124	8	3.3 %	33544	9	3.0 %
Sea of Marmara	10	37112	10	1.9 %	3855	11	0.3 %
Sea of Azov	11	189046	4	9.7 %	121902	5	10.7 %
TOTALS		1949451		100.0 %	1137685		100.0 %

MEDITERRANEAN AND BLACK SEA

Marine Culture - Major producers and species based on 1990 ranking

COUNTRY	SPECIES	1984	1985	1986	1987	1988	1989	1990
Italy	Med. mussel	60000	65000	67000	68131	85400	80000	80000
Italy	Carpet shells nei	0	0	0	0	0	7500	10000
Egypt	Flathead grey mullet	0	0	0	0	0	0	9000
Italy	European flat oyster	5000	5000	5000	5000	5000	5000	5000
Italy	Mulletts nei	2100	2100	3500	2300	2300	2100	2300
Albania	Med. mussel	906	902	1752	1808	3107	1840	1840
Greece	Med. mussel	200	200	230	380	1100	1500	1600
Italy	Flathead grey mullet	1100	1100	1700	1200	1200	1100	1200
Turkey	Gilthead seabream	0	0	34	65	100	798	1031
Yugoslav SFR	Med. mussel	1290	731	1085	1076	1370	1093	650
OTHER	Other species	1165	1496	2323	2356	3679	5759	7147
TOTALS		71761	76529	82624	82624	82316	103256	106690

MEDITERRANEAN AND BLACK SEA

Production of diadromous and marine fish (top 22 species), ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
European pilchard (-Sardine)	1	233662	21.8 %	Rising
European anchovy	2	162150	15.2 %	Stable (-)
Marine fishes nei	3	95792	9.0 %	Stable (-)
European hake	4	39049	3.7 %	Rising
Bogue	5	32677	3.1 %	Stable (+)
Mediterranean horse mackerel	6	32084	3.0 %	Rising
Sardinellas nei	7	31193	2.9 %	Rising
Atlantic bonito	8	25686	2.4 %	Rising
Azov tyulka	9	24445	2.3 %	Declining
Mulletts nei	10	23610	2.2 %	Stable (+)
Whiting	11	22599	2.1 %	Rising
Jack and horse mackerels nei	12	22114	2.1 %	Declining
Chub mackerel	13	20307	1.9 %	Rising
European sprat	14	18483	1.7 %	Rising
Picarels	15	17555	1.6 %	Stable (-)
Surmulletts (-Red mullets)	16	17357	1.6 %	Stable (+)
Northern bluefin tuna	17	15494	1.5 %	Rising
Bluefish	18	14272	1.3 %	Rising
Blue whiting (-Poutassou)	19	11627	1.1 %	Stable (+)
Swordfish	20	11603	1.1 %	Rising
Atlantic horse mackerel	21	10083	0.9 %	Rising
Common sole	22	9699	0.9 %	Rising
OTHER SPECIES	23	178251	16.6 %	Rising
DIADROMOUS AND MARINE FISH		1069792	100.0 %	Rising
Proportion coming from declining catches.....				4.4 %
from stable catches.....				33.7 %
from rising catches.....				61.9 %

MEDITERRANEAN AND BLACK SEA

Total production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Natantian decapods nei	1	25363	48.1 %	Rising
Norway lobster	2	8181	15.5 %	Rising
Marine crustaceans nei	3	7373	14.0 %	Stable (+)
Mantis squillid	4	4318	8.2 %	Stable (-)
Deepwater rose shrimp	5	2070	3.9 %	Rising
Caramote prawn	6	1453	2.8 %	Rising
Blue and red shrimp	7	1430	2.7 %	Rising
Marine crabs nei	8	772	1.5 %	Rising
Mediterranean shore crab	9	687	1.3 %	Rising
Common shrimp	10	309	0.6 %	Declining
Palinurid spiny lobsters nei	11	305	0.6 %	Stable (+)
European lobster	12	250	0.5 %	Rising
Common spiny lobster	13	152	0.3 %	Rising
Sinous spider crab	14	33	0.1 %	Declining
Pink spiny lobster	15	2	0.0 %	Declining
Common prawn	16	1	0.0 %	Declining
Scarlet shrimp	17	0	0.0 %	Sharp declining
Lesser slipper lobster	18	0	0.0 %	Declining
Edible crab	19	0	0.0 %	Declining
TOTAL-CRUSTACEANS		52699	100.0 %	Rising
Proportion coming from declining catches				0.7 %
from stable catches.....				22.8 %
from rising catches.....				76.6 %

MEDITERRANEAN AND BLACK SEA

Total production of molluscs ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Mediterranean mussel	1	126568	45.1 %	Rising
Striped venus	2	40379	14.4 %	Rising
Common cuttlefish	3	18689	6.7 %	Rising
Carpet shells nei	4	16000	5.7 %	Sharp rise
Marine molluscs nei	5	14964	5.3 %	Rising
Common octopus	6	13108	4.7 %	Rising
Octopuses	7	12605	4.5 %	Rising
Portuguese cupped oyster	8	10014	3.6 %	Rising
Common squids	9	7801	2.8 %	Rising
European flying squid	10	7700	2.7 %	Rising
European flat oyster	11	4385	1.6 %	Rising
Horned and musky octopuses	12	3366	1.2 %	Stable (+)
Cuttlefishes, bobtail squids	13	2523	0.9 %	Stable (+)
Clams nei	14	1087	0.4 %	Rising
Squids nei	15	562	0.2 %	Stable (+)
Cephalopods nei	16	393	0.1 %	Declining
Grooved carpet shell	17	159	0.1 %	Rising
Donax clams	18	110	0.0 %	Rising
Carpet shell	19	100	0.0 %	Declining
Murex	20	96	0.0 %	Stable (-)
Sea mussels nei	21	0	0.0 %	Sharp declining
Common cockle	22	0	0.0 %	Sharp declining
Razor clams	23	0	0.0 %	Rising
Periwinkle	24	0	0.0 %	Stable (-)
Great scallop	25	0	0.0 %	Declining
Gastropods nei	26	0	0.0 %	Sharp rise
TOTAL MOLLUSCS		280609	100.0 %	Rising
Proportion coming from declining catches				0.2 %
from stable catches.....				2.3 %
from rising catches.....				97.5 %

MEDITERRANEAN AND BLACK SEA - Western Sub-area

**Division 37.1.1: Balearic
Production of diadromous and marine fish (top 22 species),
ranked by 1991 production**

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
European pilchard (-Sardine)	1	109250	57.0 %	Rising
European anchovy	2	20912	10.9 %	Stable (-)
Marine fishes nei	3	14968	7.8 %	Stable (-)
Jack and horse mackerels nei	4	9747	5.1 %	Stable (-)
Bogue	5	7547	3.9 %	Rising
European hake	6	4509	2.4 %	Rising
Sardinellas nei	7	3916	2.0 %	Rising
Blue whiting (-Poutassou)	8	3601	1.9 %	Stable (-)
Surmulletts (-Red mullets)	9	3548	1.9 %	Stable (+)
Demersal percomorphs nei	10	3064	1.6 %	Declining
Clupeoids nei	11	2737	1.4 %	Sharp rise
Angler (-Monk)	12	1228	0.6 %	Rising
Red (-Blackspot) seabream	13	1104	0.6 %	Declining
Common sole	14	912	0.5 %	Stable (+)
Porgies, seabreams, nei	15	843	0.4 %	Declining
Gadiformes nei	16	831	0.4 %	Sharp rise
Sharks, rays, skates, etc	17	748	0.4 %	Rising
Barracudas	18	423	0.2 %	Sharp rise
Greater forkbeard	19	389	0.2 %	Stable (+)
European conger	20	355	0.2 %	Rising
Atlantic mackerel	21	299	0.2 %	Declining
Chub mackerel	22	171	0.1 %	Rising
OTHER SPECIES	23	611	0.3 %	Declining
DIADROMOUS AND MARINE		191713	100.0 %	Rising
Proportion coming from declining catches				3.1 %
from stable catches.....				28.2 %
from rising catches.....				68.7 %

MEDITERRANEAN AND BLACK SEA - Western Sub-Area

Division 37.1.1: Balearic

Total production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Marine crustaceans nei	1	2027	27.7 %	Rising
Deepwater rose shrimp	2	1905	26.0 %	Rising
Blue and red shrimp	3	1430	19.5 %	Rising
Norway lobster	4	701	9.6 %	Rising
Mediterranean shore crab	5	566	7.7 %	Rising
Common shrimp	6	300	4.1 %	Stable (-)
Natantian decapods nei	7	190	2.6 %	Sharp rise
Caramote prawn	8	115	1.6 %	Sharp rise
Common spiny lobster	9	75	1.0 %	Rising
Palinurid spiny lobsters nei	10	13	0.2 %	Rising
Spinous spider crab	11	0	0.0 %	Sharp decline
Scarlet shrimp	12	0	0.0 %	Sharp decline
Marine crabs nei	13	0	0.0 %	Sharp rise
European lobster	14	0	0.0 %	Sharp decline
Edible crab	15	0	0.0 %	Declining
TOTAL CRUSTACEANS		7322	100.0 %	Rising
Proportion coming from declining catches				0.0 %
from stable catches.....				4.1 %
from rising catches.....				95.9 %

MEDITERRANEAN AND BLACK SEA - Western Sub-Area

Division 37.1.1: Balearic

Total production of molluscs ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Octopuses	1	5679	54.1 %	Rising
Cuttlefishes, bobtail squids	2	1211	11.5 %	Declining
Clams nei	3	1047	10.0 %	Sharp rise
Striped venus	4	783	7.5 %	Rising
Common squids	5	678	6.5 %	Declining
Common cuttlefish	6	394	3.8 %	Sharp rise
Cephalopods nei	7	304	2.9 %	Sharp rise
European flying squid	8	282	2.7 %	Sharp rise
Mediterranean mussel	9	65	0.6 %	Declining
Squids nei	10	37	0.4 %	Declining
European flat oyster	11	15	0.1 %	Declining
Marine molluscs nei	12	7	0.1 %	Declining
Portuguese cupped oyster	13	0	0.0 %	Rising
Common cockle	14	0	0.0 %	Sharp decline
Razor clams	15	0	0.0 %	Rising
Periwinkle	16	0	0.0 %	Stable (-)
Great scallop	17	0	0.0 %	Declining
Carpet shell	18	0	0.0 %	Sharp decline
Grooved carpet shell	19	0	0.0 %	Declining
Gastropods nei	20	0	0.0 %	Sharp rise
TOTAL MOLLUSCS		10502	100.0 %	Stable (-)
Proportion coming from declining catches				19.2 %
from stable catches.....				0.0 %
from rising catches.....				80.8 %

MEDITERRANEAN AND BLACK SEA - Western Sub-Area

Division 37.1.3: Sardinia

**Production of diadromous and marine fish (top 22 species),
ranked by 1991 production**

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Marine fishes nei	1	12377	23.5 %	Stable (+)
European pilchard (-Sardine)	2	4520	8.6 %	Declining
Bogue	3	3073	5.9 %	Declining
European hake	4	2690	5.1 %	Declining
European anchovy	5	2619	5.0 %	Declining
Gobies nei	6	2266	4.3 %	Rising
Surmullets (-Red mullets)	7	2249	4.3 %	Declining
Mulletts nei	8	2086	4.0 %	Stable (-)
Sardinellas nei	9	1950	3.7 %	Rising
Jack and horse mackerels nei	10	1593	3.0 %	Stable (-)
Common dentex	11	1069	2.0 %	Rising
Scorpionfishes, nei	12	1036	2.0 %	Stable (+)
Common sole	13	1030	2.0 %	Rising
Porgies, seabreams, nei	14	995	1.9 %	Rising
Seabasses	15	988	1.9 %	Rising
Sargo breams, nei	16	966	1.8 %	Rising
Gilthead seabream	17	862	1.6 %	Rising
'Scomber' mackerels nei	18	834	1.6 %	Declining
Picarels	19	810	1.5 %	Declining
Anglerfishes nei	20	765	1.5 %	Rising
Smoothhounds	21	726	1.4 %	Declining
European eel	22	649	1.2 %	Declining
OTHER DIADROMOUS AND MARINE	23	6421	12.2 %	Rising
DIADROMOUS AND MARINE - TOTAL		52574	100.0 %	Declining
Proportion coming from declining catches				34.6 %
from stable catches.....				32.5 %
from rising catches.....				32.9 %

MEDITERRANEAN AND BLACK SEA - Western Sub-Area

Division 37.1.3: Sardinia

Production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Marine crustaceans nei	1	1538	44.0 %	Rising
Mantis squillid	2	728	20.8 %	Stable (-)
Natantian decapods nei	3	575	16.4 %	Stable (-)
Norway lobster	4	480	13.7 %	Rising
Palinurid spiny lobsters nei	5	126	3.6 %	Stable (-)
Common spiny lobster	6	30	0.9 %	Stable (-)
Caramote prawn	7	16	0.5 %	Rising
Spinous spider crab	8	4	0.1 %	Stable (-)
Common shrimp	9	1	0.0 %	Declining
European lobster	10	0	0.0 %	Declining
Marine crabs nei	11	0	0.0 %	Sharp decline
Deepwater rose shrimp	12	0	0.0 %	Sharp rise
CRUSTACEANS - TOTAL		3498	100.0 %	Stable (+)
Proportion coming from declining catches				0.0 %
from stable catches				41.8 %
from rising catches				58.2 %

MEDITERRANEAN AND BLACK SEA - Western Sub-Area

Division 37.1.3: Sardinia

Production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Mediterranean mussel	1	15928	61.3 %	Rising
Common octopus	2	2390	9.2 %	Stable (-)
Marine molluscs nei	3	2159	8.3 %	Rising
Common cuttlefish	4	1597	6.2 %	Stable (+)
Common squids	5	1135	4.4 %	Stable (-)
European flying squid	6	1037	4.0 %	Stable (-)
Horned and musky octopuses	7	886	3.4 %	Rising
Striped venus	8	764	2.9 %	Declining
Octopuses	9	72	0.3 %	Rising
Cephalopods nei	10	0	0.0 %	Sharp decline
Portuguese cupped oyster	11	0	0.0 %	Rising
Squids nei	12	0	0.0 %	Rising
European flat oyster	13	0	0.0 %	Sharp decline
TOTAL MOLLUSCS				Rising
Proportion coming from declining catches				2.9 %
from stable catches				23.7 %
from rising catches				73.3 %

MEDITERRANEAN AND BLACK SEA - Central Sub-Area

**Division 37.2.1: Adriatic
Production of diadromous and marine fish (top 22 species),
ranked by 1991 production**

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
European pilchard (-Sardine)	1	44512	48.8 %	Rising
European anchovy	2	13076	14.3 %	Declining
Marine fishes nei	3	7875	8.6 %	Declining
European hake	4	4105	4.5 %	Stable (+)
Jack and horse mackerels nei	5	2655	2.9 %	Stable (-)
European eel	6	2295	2.5 %	Rising
Mulletts nei	7	1949	2.1 %	Declining
Surmulletts (-Red mullets)	8	1853	2.0 %	Stable (+)
Silversides (-Sand smelts)	9	1677	1.8 %	Declining
'Scomber' mackerels nei	10	1085	1.2 %	Rising
Gobies nei	11	1021	1.1 %	Declining
Common sole	12	1015	1.1 %	Stable (-)
Blue whiting (-Poutassou)	13	907	1.0 %	Stable (-)
Bogue	14	729	0.8 %	Declining
Picarels	15	694	0.8 %	Declining
Seabasses	16	648	0.7 %	Rising
Flatfishes nei	17	553	0.6 %	Stable (+)
Mediterranean horse mackerel	18	517	0.6 %	Rising
Scorpionfishes, nei	19	492	0.5 %	Rising
Gilthead seabream	20	436	0.5 %	Rising
Smoothounds	21	328	0.4 %	Stable (-)
Anglerfishes nei	22	294	0.3 %	Rising
OTHER DIADROMOUS AND MARINE	23	2470	2.7 %	Declining
DIADROMOUS AND MARINE - TOTAL		91186	100.0 %	Stable (-)
Proportion coming from declining catches.....				32.4 %
from stable catches.....				12.5 %
from rising catches.....				55.1 %

MEDITERRANEAN AND BLACK SEA - Central Sub-Area

Division 37.2.1: Adriatic

Total production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Mantis squillid	1	2877	45.0 %	Stable (-)
Norway lobster	2	2024	31.6 %	Rising
Marine crustaceans nei	3	1060	16.6 %	Stable (-)
Natantian decapods nei	4	363	5.7 %	Rising
Spinous spider crab	5	29	0.5 %	Declining
Painurid spiny lobsters nei	6	26	0.4 %	Rising
European lobster	7	19	0.3 %	Rising
TOTAL CRUSTACEANS		6398	100.0 %	Stable (+)
Proportion coming from declining catches				0.5 %
from stable catches.....				61.5 %
from rising catches.....				38.0 %

MEDITERRANEAN AND BLACK SEA - Central Sub-Area

Division 37.2.1: Adriatic

Total production of molluscs ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Mediterranean mussel	1	52559	47.2 %	Rising
Striped venus	2	25416	22.8 %	Stable (+)
Carpet shells nei	3	16000	14.4 %	Sharp rise
Common cuttlefish	4	5949	5.3 %	Stable (-)
Marine molluscs nei	5	4318	3.9 %	Rising
European flying squid	6	2860	2.6 %	Rising
Common octopus	7	2137	1.9 %	Stable (-)
Common squids	8	1177	1.1 %	Declining
Horned and musky octopuses	9	927	0.8 %	Rising
European flat oyster	10	45	0.0 %	Rising
TOTAL MOLLUSCS		111388	100.0 %	Rising
Proportion coming from declining catches				1.1 %
from stable catches.....				30.1 %
from rising catches.....				68.9 %

MEDITERRANEAN AND BLACK SEA - Central Sub-Area

**Division 37.2.2: Ionian
Production of diadromous and marine fish (top 22 species),
ranked by 1991 production**

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Marine fishes nei	1	35712	22.2 %	Rising
European pilchard (-Sardine)	2	19854	12.3 %	Rising
European hake	3	19647	12.2 %	Rising
Sardinellas nei	4	15364	9.6 %	Rising
Surmulletts (-Red mullets)	5	6209	3.9 %	Stable (+)
Jack and horse mackerels nei	6	6116	3.8 %	Rising
Smoothhounds	7	4952	3.1 %	Rising
Bogue	8	4803	3.0 %	Stable (-)
Common sole	9	4232	2.6 %	Rising
Scorpionfishes, nei	10	3988	2.5 %	Rising
Flathead grey mullet	11	3406	2.1 %	Rising
Porgies, seabreams, nei	12	3058	1.9 %	Rising
Skates and rays, nei	13	2990	1.9 %	Rising
Picarels	14	2750	1.7 %	Declining
European anchovy	15	2669	1.7 %	Declining
Pandoras nei	16	2412	1.5 %	Rising
Groupers nei	17	2396	1.5 %	Rising
Anglerfishes nei	18	2262	1.4 %	Rising
Common dentex	19	2129	1.3 %	Rising
'Scomber' mackerels nei	20	1622	1.0 %	Stable (-)
Red mullet	21	1505	0.9 %	Rising
Mulletts nei	22	1394	0.9 %	Stable (+)
OTHER DIADROMOUS AND MARINE	23	11489	7.1 %	Rising
DIADROMOUS AND MARINE - TOTAL		160959	100.0 %	Rising
Proportion coming from declining catches.....				3.4 %
from stable catches.....				8.7 %
from rising catches.....				87.9 %

MEDITERRANEAN AND BLACK SEA - Central Sub-Area

Division 37.2.2: Ionian

Total production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Natantian decapods dei	1	17040	68.0 %	Rising
Norway lobster	2	3607	14.4 %	Rising
Marine crustaceans nei	3	2471	9.9 %	Rising
Caramote prawn	4	1044	4.2 %	Rising
Mantis squillid	5	700	2.8 %	Stable (-)
Palinurid spiny lobsters nei	6	132	0.5 %	Stable (-)
European lobster	7	51	0.2 %	Sharp rise
Mediterranean shore crab	8	1	0.0 %	Sharp rise
Deepwater rose shrimp	9	0	0.0 %	Sharp rise
TOTAL CRUSTACEANS		25046	100.0 %	Rising
Proportion coming from declining catches				0.0 %
from stable catches.....				3.3 %
from rising catches.....				96.7 %

MEDITERRANEAN AND BLACK SEA - Central Sub-Area

Division 37.2.2: Ionian

Total production of molluscs ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Mediterranean mussel	1	32069	48.5 %	Rising
Common cuttlefish	2	8671	13.1 %	Rising
Octopuses	3	6281	9.5 %	Rising
Common octopus	4	6150	9.3 %	Rising
Marine molluscs nei	5	3783	5.7 %	Rising
European flying squid	6	3521	5.3 %	Rising
Common squids	7	3270	4.9 %	Rising
Horned and musky octopuses	8	1553	2.4 %	Stable (-)
Striped venus	9	875	1.3 %	Declining
Squids nei	10	10	0.0 %	Declining
Cuttlefishes, bobtail squids	11	2	0.0 %	Rising
Cephalopods nei	12	0	0.0 %	Sharp decline
TOTAL MOLLUSCS		66185	100.0 %	Rising
Proportion coming from declining catches				1.3 %
from stable catches.....				2.4 %
from rising catches.....				96.3 %

MEDITERRANEAN AND BLACK SEA - Eastern Sub-Area

**Division 37.2.2: Aegean
Production of diadromous and marine fish (top 22 species),
ranked by 1991 production**

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
European pilchard (-Sardine)	1	25635	18.6 %	Rising
European anchovy	2	17422	12.6 %	Rising
Marine fishes nei	3	11492	8.3 %	Stable (+)
Bogue	4	10896	7.9 %	Rising
Picarels	5	9708	7.0 %	Stable (+)
Chub mackerel	6	8059	5.9 %	Rising
Mediterranean horse mackerel	7	7142	5.2 %	Rising
Mulletts nei	8	6436	4.7 %	Rising
European hake	9	4045	2.9 %	Sharp rise
Flathead grey mullet	10	2844	2.1 %	Sharp rise
Red mullet	11	2703	2.0 %	Rising
Blue whiting (-Poutassou)	12	2222	1.6 %	Stable (-)
Surmulletts (-Red mullets)	13	2156	1.6 %	Sharp rise
Gurnards, searobins nei	14	2100	1.5 %	Sharp rise
Common sole	15	1768	1.3 %	Rising
Striped mullet	16	1760	1.3 %	Rising
Salema (-Strepie)	17	1665	1.2 %	Sharp rise
Saddled seabream	18	1636	1.2 %	Sharp rise
Gilthead seabream	19	1434	1.0 %	Rising
Atlantic horse mackerel	20	1324	1.0 %	Rising
'Scomber' mackerels nei	21	1262	0.9 %	Sharp rise
Scorpionfishes, nei	22	1088	0.8 %	Stable (-)
OTHER DIADROMOUS AND MARINE DIADROMOUS AND MARINE - TOTAL	23	13076 137873	9.5 % 100.0 %	Rising Rising
Proportion coming from declining catches				0.0 %
from stable catches.....				17.8 %
from rising catches				82.2 %

MEDITERRANEAN AND BLACK SEA - Eastern Sub-Area

Division 37.2.2: Aegean

Total production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Natantian decapods nei		1424	44.4 %	Rising
Norway lobster		1257	39.2 %	Sharp rise
Caramote prawn		256	8.0 %	Sharp rise
European lobster		172	5.4 %	Sharp rise
Mediterranean shore crab		98	3.1 %	Sharp rise
Palinurid spiny lobsters nei		3	0.1 %	Rising
Marine crabs nei		0	0.0 %	Rising
Marine crustaceans nei		0	0.0 %	Declining
TOTAL CRUSTACEANS		3210	100.0 %	Rising
Proportion coming from declining catches.....				0.0 %
from stable catches.....				0.0 %
from rising catches.....				100.0 %

MEDITERRANEAN AND BLACK SEA - Eastern Sub-Area

Division 37.3.1: Aegean

Total production of molluscs ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
European flat oyster	1	2190	22.8 %	Sharp rise
Mediterranean mussel	2	1773	18.5 %	Rising
Common cuttlefish	3	1701	17.7 %	Rising
Marine molluscs nei	4	1138	11.9 %	Stable (+)
Common octopus	5	1097	11.4 %	Sharp rise
Common squids	6	981	10.2 %	Rising
Squids nei	7	408	4.3 %	Stable (+)
Octopuses	8	305	3.2 %	Declining
Great scallop	9	0	0.0 %	Rising
Striped venus	10	0	0.0 %	Sharp rise
TOTAL MOLLUSCS		9593	100.0 %	Rising
Proportion coming from declining catches.....				3.2 %
from stable catches.....				16.1 %
from rising catches.....				80.7 %

MEDITERRANEAN AND BLACK SEA - Eastern Sub-Area

Division 37.3.2: Levant

**Production of diadromous and marine fish (top 22 species),
ranked by 1991 production**

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Marine fishes nei	1	10389	15.5 %	Rising
Sardinellas nei	2	9701	14.5 %	Rising
Silversides (-Sand smelts)	3	5272	7.9 %	Sharp rise
European pilchard (-Sardine)	4	4747	7.1 %	Rising
Mulletts nei	5	3988	6.0 %	Rising
Bogue	6	3178	4.7 %	Rising
Picarels	7	2940	4.4 %	Rising
Chub mackerel	8	2401	3.6 %	Rising
Gurnards, searobins nei	9	1686	2.5 %	Rising
Lizardfishes nei	10	1487	2.2 %	Rising
Gilthead seabream	11	1432	2.1 %	Stable (-)
Striped mullet	12	1354	2.0 %	Rising
Red porgy	13	1181	1.8 %	Rising
Scorpionfishes, nei	14	1122	1.7 %	Sharp rise
Groupers nei	15	978	1.5 %	Rising
Meagre	16	946	1.4 %	Rising
Red mullet	17	896	1.3 %	Rising
Atlantic gobies	18	842	1.3 %	Rising
Barracudas	19	808	1.2 %	Rising
Surmulletts (-Red mullets)	20	746	1.1 %	Stable (-)
Porgies, seabreams, nei	21	719	1.1 %	Rising
Sharks, rays, skates, etc	22	695	1.0 %	Rising
OTHER DIADROMOUS AND MARINE DIADROMOUS AND MARINE -TOTAL	23	9471 66979	14.1 % 100.0 %	Rising Rising
Proportion coming from declining catches				0.0 %
from stable catches.....				3.3 %
from rising catches.....				96.7 %

MEDITERRANEAN AND BLACK SEA - Eastern Sub-Area

Division 37.3.2: Levant

Total production of crustaceans ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Natantian decapods nei	1	4507	83.9 %	Rising
Marine crabs nei	2	740	13.8 %	Rising
Marine crustaceans nei	3	92	1.7 %	Stable (-)
Deepwater rose shrimp	4	28	0.5 %	Sharp rise
Palinurid spiny lobsters nei	5	4	0.1 %	Rising
European lobster	6	2	0.0 %	Sharp rise
Mantis squillid	7	0	0.0 %	Sharp rise
TOTAL CRUSTACEANS		5373	100.0 %	Rising
Proportion coming from declining catches.....				0.0 %
from stable catches.....				1.7 %
from rising catches.....				98.3 %

MEDITERRANEAN AND BLACK SEA - Eastern Sub-Area

Division 37.3.2: Levant

Total production of molluscs ranked by 1991 production

SPECIES	RANK IN 1991	CATCH (MT) 1991	PERCENT OF TOTAL CATCH	LINEAR TREND
Cuttlefishes, bobtail squids	1	765	54.6 %	Rising
Octopuses	2	170	12.1 %	Rising
Common cuttlefish	3	165	11.8 %	Rising
European flat oyster	4	101	7.2 %	Sharp rise
Cephalopods nei	5	76	5.4 %	Sharp rise
Common octopus	6	61	4.4 %	Sharp rise
Common squids	7	38	2.7 %	Sharp rise
Marine molluscs nei	8	25	1.8 %	Sharp rise
Striped venus	9	0	0.0 %	Sharp rise
Mediterranean mussel	10	0	0.0 %	Rising
TOTAL MOLLUSCS		1401	100.0 %	Rising
Proportion coming from declining catches.....				0.0 %
from stable catches.....				0.0 %
from rising catches.....				100.0 %

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Squatina squatina	Angelshark	0	14	0	10	10	10	(infinite)
Lepidopus caudatus	Silver scabbardfish	0	169	0	248	140	140	(infinite)
Gastropoda	Gastropods nei	0	0	0	0	14	14	(infinite)
Squalidae	Dogfish sharks nei	419	1203	366	1077	1493	1127	307.9
Caranx spp	Jacks, crevalles, nei	4	4	4	6	13	9	225.0
Platichthys flesus	European flounder	0	4	9	23	29	20	222.2
Argyrosomus regius	Meagre	832	712	342	1039	1032	690	201.8
Sphyræna spp	Barracudas	1811	2285	2138	1257	6256	4118	192.6
Spicara maena	Blotched picarel	0	432	223	374	508	285	127.8
Sparus auratus	Gilthead seabream	5176	6184	6338	10323	14334	7996	126.2
Percoidei	Percoids nei	20	33	15	29	32	17	113.3
Clupeonella cultriventris	Azov tyulka	36119	38203	3075	24445	6333	3258	106.0
Dicentrarchus labrax	Seabass	1050	1537	2267	4714	4395	2128	93.9
Belone belone	Garfish	3141	1577	1782	1815	3357	1575	88.4
Reptantia	Marine crabs nei	1927	1078	518	772	967	449	86.7
Trigla lyra	Piper gurnard	118	102	75	109	132	57	76.0
Micromesistius poutassou	Blue whiting (=Poutassou)	10077	10281	9265	11626	15832	6567	70.9
Zeus faber	John dory	443	204	230	231	392	162	70.4
Lithognathus mormyrus	Sand steenbras	0	24	32	39	54	22	68.7
Alosa pontica	Pontic shad	124	138	68	94	114	46	67.6
Tapes spp	Carpet shells nei	1934	7116	16100	27100	26400	10300	64.0
Triglidae	Gurnards, searobins nei	3413	3864	4384	4768	7109	2725	62.2
Dentex macrophthalmus	Largeeye dentex	97	230	177	247	282	105	59.3
Squilla mantis	Mantis squillid	3232	3631	3285	4327	5194	1909	58.1

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Venus (=Chamelea) gallina	Striped venus	37653	39051	35587	40369	55413	19826	55.7
Pagellus acarne	Axillary seabream	36	145	156	166	242	86	55.1
Engraulis encrasicolus	European anchovy	618733	237728	170786	164377	264520	93734	54.9
Loliginidae, Ommastrephidae	Squids nei	313	565	563	562	829	266	47.2
Scomber spp	'Scomber' mackerels nei	4169	3618	3651	3538	5353	1702	46.6
Seriola dumerili	Greater amberjack	201	267	287	225	420	133	46.3
Sparus pagrus	Red porgy	2127	2509	2551	2501	3698	1147	45.0
Parapenaeus longirostris	Deepwater rose shrimp	2184	2474	2272	2941	3261	989	43.5
Sarpa salpa	Salema (=Strepie)	2203	2777	2856	2465	4086	1230	43.1
Mugil cephalus	Flathead grey mullet	4168	5145	5398	7166	7568	2170	40.2
Umbrina cirrosa	Shi drum (=Corb)	716	492	709	467	993	284	40.1
Pomatomus saltatrix	Bluefish	12059	12031	9624	14272	13339	3715	38.6
Saurida undosquamis	Brushtooth lizardfish	170	157	164	138	227	63	38.4
Murex spp	Murex	0	83	71	96	97	26	36.6
Pagellus spp	Pandoras nei	860	992	594	1056	811	217	36.5
Merluccius merluccius	European hake	41896	38197	32988	39047	44571	11583	35.1
Mullus surmuletus	Red mullet	6146	7070	6382	7553	8592	2210	34.6
Trachinus draco	Greater weever	0	5	3	6	4	1	33.3
Mustelus spp	Smoothhounds	9483	9076	6835	8518	8897	2062	30.2
Atherinidae	Silversides (=Sand smelts)	8227	8207	7018	8122	8926	1908	27.2
Sparidae	Porgies, seabreams, nei	7560	7043	6093	6262	7704	1611	26.4
Alosa spp	Shads nei	1827	2409	2480	3534	3067	587	23.7

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Crassostrea angulata	Portuguese cupped oyster	6331	11802	10784	10014	13322	2538	23.5
Eledone spp	Horned and musky octopuses	3562	2470	2972	3366	3632	660	22.2
Phycis blennoides	Greater forkbeard	574	532	531	593	648	117	22.0
Lophius piscatorius	Angler (=Monk)	1644	1665	1743	1595	2104	361	20.7
Carangidae	Carangids nei	326	293	236	252	282	46	19.5
Sepiidae, Sepiolidae	Cuttlefishes, bobtail squids	2275	2381	2503	2692	2957	454	18.1
Mullus barbatus	Striped mullet	7037	10055	5921	7104	6969	1048	17.7
Mugilidae	Mulletts nei	13713	17412	19398	23610	22656	3258	16.8
Octopus vulgaris	Common octopuses	26033	22590	20029	19445	23339	3310	16.5
Thunnus alalunga	Albacore	4063	4060	1896	2378	2202	306	16.1
Raja spp	Skates	530	359	156	385	181	25	16.0
Dicentrarchus spp	Seabasses	4503	4791	4135	5027	4797	662	16.0
Scomber japonicus	Chub mackerel	38235	31710	23758	20244	27500	3742	15.8
Scombroidei	Mackerel-like fishes nei	1061	820	130	150	150	20	15.4
Xiphias gladius	Swordfish	20339	17792	10818	12222	12437	1619	15.0
Thunnus thynnus	Northern bluefin tuna	17456	16664	16172	17362	18587	2415	14.9
Octopodidae	Octopuses	6775	6180	6223	6268	7077	854	13.7
Diplodus spp	Sargo breams, nei	4947	4208	3569	3578	4000	431	12.1
Conger conger	European conger	1334	1410	1416	1320	1582	166	11.7
Clupeoidei	Clupeoids nei	500	3864	3627	3238	3991	364	10.0
Dentex spp	Dentex nei	25	21	10	14	11	1	10.0
Carcinus aestuarii	Mediterranean shore crab	1005	874	710	687	776	66	9.3
Boops boops	Bogue	22628	31826	27716	32673	30147	2431	8.8
Lepidorhombus whiffiagonis	Megrim	98	300	291	346	316	25	8.6
Spicara spp	Picarels	14592	15895	15699	17551	16951	1252	8.0

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Oblada melanura	Saddled seabream	1870	1943	1812	1880	1955	143	7.9
Rajiformes	Skates and rays, nei	8809	6820	6529	6202	7010	481	7.4
Scopaenidae	Scorpionfishes, nei	8598	6695	6738	8002	7158	420	6.2
Crustacea	Marine crustaceans nei	5417	4907	4519	6502	4792	273	6.0
Trisopterus minutus	Poor cod	967	994	990	996	1047	57	5.8
Acipenseridae	Sturgeons nei	567	602	997	994	1050	53	5.3
Bivalvia	Clams nei	1294	1093	1093	1087	1148	55	5.0
Diplodus sargus	White seabream	404	562	499	602	517	18	3.6
Nephrops norvegicus	Norway lobster	7840	6580	7618	8181	7881	263	3.5
Solea vulgaris	Common sole	8637	9021	9450	9698	9638	188	2.0
Sardina pilchardus	European pilchard (=Sardine)	281528	272316	245650	233656	250370	4720	1.9
Lophiidae	Anglerfishes nei	3511	3096	3001	3691	3047	46	1.5
Penaeus kerathurus	Caramote prawn	4375	2377	2068	1453	2096	28	1.4
Lamna nasus	Porbeagle	0	1	0	0	0	0	0.0
Argentina spp	Argentines	0	0	0	0	0	0	0.0
Trisopterus luscus	Pouting (=Bib)	4	5	3	2	3	0	0.0
Perciformes	Pelagic percomorphs nei	0	0	0	0	0	0	0.0
Seriola spp	Amberjacks nei	96	0	0	0	0	0	0.0
Brama brama	Atlantic pomfret	0	0	0	0	0	0	0.0
Plectorhinchus mediterraneus	Rubberlip grunt	0	0	0	0	0	0	0.0
Sciaenidae	Croakers, drums nei	0	0	0	0	0	0	0.0
Thunnini	Tunas nei	0	0	0	0	0	0	0.0
Katsuwonus pelamis	Skipjack tuna	0	0	0	0	0	0	0.0

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Thunnus obesus	Bigeye tuna	0	0	0	2	0	0	0.0
Istiophoridae	Marlins, sailfishes, spearfishes	0	0	0	0	0	0	0.0
Istiophorus albicans	Atlantic sailfish	0	0	0	0	0	0	0.0
Pleuronectes platessa	European plaice	0	0	0	0	0	0	0.0
Plesiopenaeus edwardsianus	Scarlet shrimp	0	0	0	0	0	0	0.0
Palaemon serratus	Common prawn	5	6	1	1	1	0	0.0
Cancer pagurus	Edible crab	0	0	0	0	0	0	0.0
Littorina littorea	Periwinkle	0	0	0	0	0	0	0.0
Cardium edule	Common cockle	0	0	0	0	0	0	0.0
Donax spp	Donax clams	0	0	0	110	0	0	0.0
Solen spp	Razor clams	4	0	0	0	0	0	0.0
Psetta maeotica	Black Sea turbot	0	0	0	2	0	0	0.0
Squaliformes	Large sharks nei	164	242	171	259	170	- 1	- 0.6
Pagellus erythrinus	Common pandora	4193	3370	3634	3172	3609	- 25	- 0.7
Ostrea edulis	European flat oyster	5712	5431	6251	4887	6202	- 49	- 0.8
Mullus spp	Surmullets (= Red mullets)	18827	18071	19167	17619	18954	- 213	- 1.1
Perciformes	Demersal percomorphs nei	358	4612	3492	3848	3444	- 48	- 1.4
Merlangius merlangus	Whiting	33720	23827	21925	22777	21554	- 371	- 1.7
Elasmobranchii	Sharks, rays, skates, etc.	3321	2054	2781	2273	2724	- 57	- 2.0
Trachurus spp	Jack and horse mackerels nei	25476	24667	21794	22114	21145	- 649	- 3.0
Mytilus galloprovincialis	Mediterranean mussel	123769	127623	143119	134327	137900	- 5219	- 3.6
Mollusca	Marine molluscs nei	23089	22779	17907	14965	17202	- 705	- 3.9

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Todarodes sagittatus sagittat.	European flying squid	7237	8612	8576	7775	8209	- 367	- 4.3
Crangon crangon	Common shrimp	389	397	359	309	339	- 20	- 5.6
Palinurus elephas	Common spiny lobster	46	36	33	32	31	- 2	- 6.1
Sardinella spp	Sardinellas nei	21452	26487	29018	30943	27132	- 1886	- 6.5
Gadiformes	Gadiformes nei	2334	1091	1088	960	1014	- 74	- 6.8
Spondyliosoma cantharus	Black seabream	485	751	603	738	561	- 42	- 7.0
Pleuronectiformes	Flatfishes nei	3660	3873	3294	3304	3042	- 252	- 7.7
Epinephelus guaza	Dusky grouper	2387	2949	3240	2975	2955	- 285	- 8.8
Pagellus bogaraveo	Red (=Blackspot) seabream	0	1262	1332	1163	1209	- 123	- 9.2
Tapes pullastra	Carpet shell	158	105	134	100	120	- 14	- 10.4
Cephalopoda	Cephalopods nei	585	449	453	393	403	- 50	- 11.0
Sciaena spp	Drums	2014	1187	1050	1073	929	- 121	- 11.5
Ruditapes decussatus	Grooved carpet shell	215	122	206	179	182	- 24	- 11.7
Osteichthyes	Marine fishes nei	115347	107675	95775	92522	83542	- 12233	- 12.8
Aristeus antennatus	Blue and red shrimp	933	1530	1454	1430	1255	- 199	- 13.7
Sepia officinalis	Common cuttlefish	25937	22842	21236	18520	18184	- 3052	- 14.4
Scomber scombrus	Atlantic mackerel	8015	7682	10551	8485	8958	- 1593	- 15.1
Scyliorhinus spp	Catsharks, nursehound	0	49	103	87	87	- 16	- 15.5
Epinephelus aeneus	White grouper	463	425	442	384	371	- 71	- 16.1
Gobiidae	Gobies nei	5781	4232	3507	5129	2806	- 701	- 20.0
Squalus acanthias	Picked (=Spiny) dogfish	108	153	160	104	125	- 35	- 21.9
Lichia amia	Leerfish (=Garrick)	3368	2225	1912	1625	1483	- 429	- 22.4

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Dentex dentex	Common dentex	3665	3339	6808	4266	5276	- 1532	- 22.5
Loligo spp	Common squids	10604	10831	10445	7725	8054	- 2391	- 22.9
Polyprion americanus	Wreckfish	20	12	30	24	23	- 7	- 23.3
Natantia	Natantian decapods nei	25380	24761	32105	25364	24406	- 7699	- 24.0
Anguilla anguilla	European eel	3759	3679	4654	4390	3386	- 1268	- 27.2
Siganus spp	Spinefeet (= Rabbitfishes)	130	120	125	105	90	- 35	- 28.0
Sarda sarda	Atlantic bonito	24547	12296	22055	25997	15372	- 6683	- 30.3
Congridae	Conger eels nei	461	794	825	715	572	- 253	- 30.7
Palinurus spp	Palinurid spiny lobsters nei	2275	673	736	425	510	- 226	- 30.7
Trachurus trachurus	Atlantic horse mackerel	12532	13872	14921	10073	9536	- 5385	- 36.1
Maja squinado	Spinous spider crab	70	51	57	33	34	- 23	- 40.4
Coryphaena hippurus	Common dolphinfish	577	599	616	610	367	- 249	- 40.4
Synodontidae	Lizardfishes nei	1073	1559	1623	1490	907	- 716	- 44.1
Scombroidei	Tuna-like fishes nei	3250	2303	4158	2261	2278	- 1880	- 45.2
Psetta maxima	Turbot	1441	1741	1614	1366	876	- 738	- 45.7
Auxis thazard, A rochei	Frigate and bullet tunas	6126	6317	7514	5799	4043	- 3471	- 46.2
Sparus (=Pagrus) spp	Pargo breams, nei	289	478	693	508	368	- 325	- 46.9
Epinephelus spp	Groupers nei	1168	1575	3430	1611	1611	- 1819	53.0
Homarus gammarus	European lobster	433	431	388	251	181	- 207	- 53.4
Euthynnus alletteratus	Atlantic black skipjack	2405	2035	2605	1806	1145	- 1460	- 56.0
Sprattus sprattus	European sprat	66942	105368	53832	18483	21057	- 32775	- 60.9
Trachurus mediterraneus	Mediterranean horse mackerel	109880	109563	78569	32081	29785	- 48784	- 62.1
Squatinae	Angelsharks, sand devils	59	25	35	17	13	- 22	- 62.9

AREA: Mediterranean Sea and Black Sea		TOTAL LANDINGS (TONNES)					CHANGES 1990-1992	
SPECIES (Scientific)	SPECIES (English)	1988	1989	1990	1991	1992	TONNES	%
Palinurus mauritanicus	Pink spiny lobster	0	7	8	2	2	- 6	- 75.0
Rhinobatidae	Guitarfishes	39	15	16	16	3	- 13	- 81.2
Serranidae	Groupers, seabasses, nei	2637	2393	5039	1358	905	- 4134	- 82.0
Gobius spp	Atlantic gobies	0	11	19	16	3	- 16	- 84.2
Pecten jacobeus	Great scallop	4	1	1	0	0	- 1	- 100.0
Orcynopsis unicolor	Plain bonito	8	7	26	9	0	- 26	- 100.0
Ammodytes spp	Sandeels (=Sandlances)	1699	550	249	467	0	- 249	- 100.0