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TRENDS IN TOTAL MARINE FISH PRODUCTION IN INDIA - 1978*

The total marine fish production in India during 1978 was estimated at 1.40 million tonnes as compared to 1.26 million tonnes recorded during 1977, showing an increase of about 0.14 million tonnes (11.42%). Except Andhra Pradesh, all the maritime states recorded higher landings during the year (Table 1). The bulk of the increase in the total marine fish production during 1978 was accounted for by the increase observed in the states of Karnataka and Kerala, to the tune of about 0.56 lakh and 0.28 lakh tonnes respectively.

Table 1. Statewise marine fish landings in India (in tonnes) during the year 1977 and 1978.

Sl. No.	State	1978	1977
1. West Bengal		12,754	6,689
2. Orissa		39,670	15,072
3. Andhra Pradesh		82,116	1,00,756
4. Tamil Nadu		2,12,899	2,06,046
5. Pondicherry		6,828	6,462
6. Kerala		3,73,339	3,45,037
7. Karnataka		1,52,860	97,152
8. Goa		27,111	24,731
9. Maharashtra		2,84,244	2,64,452
10. Gujarat		2,01,929	1,89,638
11. Andamans		7,077	1,532
12. Lakshadweep		2,780	2,215
TOTAL		14,03,607	12,59,782

Pelagic and demersal group of fishes

The specieswise catch details are shown in Table 2. The pelagic group of species consists of *Chirocentrus*, oil sardine, other sardines, *Hilsa ilisha*, other *Hilsa*, anchovies and white baits, other clupeids, Bombay duck, *Hemiramphus* & *Belone*, flying fish, ribbon fish, carangids, mackerel, seer fish, tunnies, *Sphyraena*, mullets, and *Bregmaceros* spp. The elasmobranchs, eels, catfishes, lizard fishes, perches, red mullets, polynemids, sciaenids, silver bellies, *Lactarius*, pomfrets, soles, prawns, lobsters and cephalopods form the

*Prepared by the Fishery Resources Assessment Division

demersal group. The statewise distribution of pelagic and demersal group of fishes is shown in Table 3 and Fig. 1.

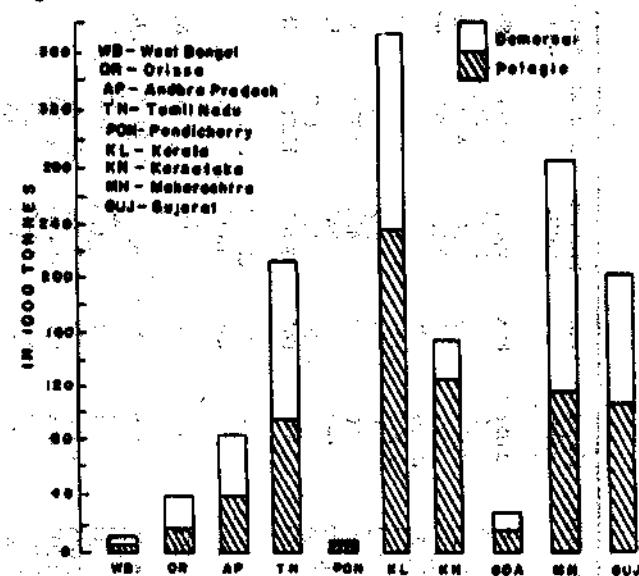


Fig. 1. Pelagic and demersal catch in different states during 1978

Kerala landed highest catch of pelagic fishes during 1978 followed by Karnataka, Maharashtra, Gujarat and Tamil Nadu in the order of abundance. In respect of demersal fishes, Maharashtra contributed the maximum catch, followed by Kerala, Tamil Nadu and Gujarat.

All India production during 1969 to 1978

The total all India marine fish production and its species composition for the years 1969 to 1978 is shown in Table 4. The production showed a steady increase from 1969 to 1971 and then a fluctuating trend from 1972 to 1978. While a minimum of 9,13,630 t. was recorded in 1969, a maximum of 14,22,693 t. was recorded in 1975. The production during 1978 formed about 99% of the maximum production recorded in 1975. The trends in marine fish production in the various maritime states of India are also shown in tables 5 to 17.

Statewise production

West Bengal

The total marine fish catch in West Bengal increased sharply by about 6,000 t. (Table 1) registering a 90%

Table 3. Statewise distribution of pelagic and demersal group of fishes during 1978 (in tonnes)

Sl. No.	State	Pelagic	Demersal	Total
1.	West Bengal	6,769	5,985	12,754
2.	Orissa	18,669	21,001	39,670
3.	Andhra Pradesh	39,941	42,175	82,116
4.	Tamil Nadu	96,411	1,16,488	2,12,899
5.	Pondicherry	3,949	2,879	6,828
6.	Kerala	2,36,604	1,36,735	3,73,339
7.	Karnataka	1,22,945	29,915	1,52,860
8.	Goa	15,936	11,175	27,111
9.	Maharashtra	1,14,847	1,69,397	2,84,244
10.	Gujarat	1,05,542	96,387	2,01,929

rise over that of the previous year. Sciaenids, other clupeids, non-penaeid prawns, ribbon fish, and Bombay duck mainly contributed to the higher landings, the increase being about 950, 470, 390, 380 and 300 t. respectively. Table 5 shows the species composition of marine fish landings in West Bengal during 1976 to 1978. Prior to 1976 no separate estimates were available for West Bengal alone. However the estimates for West Bengal and Orissa were combined and the same are shown in Table 6 for the years 1969 to 1975.

Orissa

The total marine fish production in Orissa showed a significant increase of about 24,600 t. as compared to 1977 (Table 1). Part of this contribution (about 10,000 t.) came from landings at Paradeep. The increase was mainly due to the higher landings of sciaenids *Hilsa ilisha*, pomfrets, penaeid prawns and elasmobranchs to the extent of 4,900, 4,800, 4,700, 1,800 and 1,700 t. respectively. Table 7 shows the species composition of marine fish landings in Orissa for the years 1976 to 1978. The species details of marine fish catch for the years 1969 to 1975 are shown in Table 6, combined with that of West Bengal.

Andhra Pradesh

A decline of about 19,000 t. (19%) in the total catch was noticed in this state during 1978 (Table 1). This was due to the set back in the fisheries of sciaenids, silver bellies, non-penaeid prawns, other sardines, ribbon fish, catfishes and *Caranx* spp., the decrease in their landings being 4,600, 3,700, 3,600, 3,300, 3,000, 2,400 and 2,000 t. respectively. However an increase was observed in the landings of elasmobranchs,

penaeid prawns and mackerel to the tune of about 2,200, 1,800 and 1,500 tonnes respectively. Table 8 shows the species composition of marine fish landings in Andhra Pradesh for the years 1969 to 1978.

Table 5. Composition of marine fish landings in West Bengal during 1976 to 1978 (In tonnes)

Sl. No.	Name of fish	1976	1977	1978
1.	Elasmobranchs	493	73	125
2.	Eels	1	1	—
3.	Catfishes	785	134	151
4.	<i>Chirocentrus</i>	251	107	217
5. a.	Oil sardine	—	—	—
5. b.	Lesser sardines	12	—	4
c.	<i>Hilsa ilisha</i>	799	96	193
d.	Other <i>Hilsa</i>	—	—	28
e.	<i>Anchoviella</i>	6	4	24
f.	<i>Thrissocles</i>	1,397	365	774
g.	Other clupeids	1,790	705	1,174
6. a.	<i>Harpodon nehereus</i>	2,253	1,060	1,365
b.	<i>Saurida & Saurus</i>	—	—	—
7.	<i>Hemirhamphus</i> & <i>Belone</i>	—	—	11
8.	Flying fish	—	—	—
9.	Perches	1	—	—
10.	Red mullets	69	25	87
11.	Pomnomids	4,066	819	1,772
12.	Sciaenids	701	306	681
13.	Ribbon fish	—	—	2
14. a.	<i>Caranx</i>	—	12	38
b.	<i>Chorinmus</i>	37	—	—
c.	<i>Trachynotus</i>	—	—	—
d.	Other carangids	—	—	—
e.	<i>Coryphaena</i>	—	—	—
f.	<i>Elacate</i>	—	—	—
15. a.	<i>Lethognathus</i>	219	15	297
b.	<i>Gazza</i>	—	—	—
16.	<i>Lactarius</i>	—	1	—
17.	Pomfrets	586	143	282
18.	Mackerel	—	—	—
19.	Seer fish	287	32	54
20.	Tunnies	—	—	—
21.	<i>Sphyraena</i>	—	—	—
22.	<i>Mugil</i>	2	—	—
23.	<i>Bregmaceros</i>	—	—	—
24.	Soles	—	—	24
25. a.	Penaeid prawns	2,139	602	605
b.	Non-penaeid prawns	2,708	269	663
c.	Other crustaceans	—	—	—
26.	Cephalopods	—	—	30
27.	Miscellaneous	6,809	1,920	4,153
TOTAL		25,411	6,689	12,754

Tamil Nadu

A marginal increase of about 7,000 t. was seen in the total landings in Tamil Nadu as compared to 1977 (Table 1). An interesting feature noticed was the heavy landings of ribbon fish and silver bellies resulting in an increase in the catch by about 24,000 t. and 12,000 t. respectively. These two groups had shown a decline in 1977 as compared to 1976. The other groups that contributed to the increase in the total landings were penaeid prawns, *Thrissocles* spp, perches and red mullet, the increase in their landings being about 5,300, 1,700,

Table 6. Composition of marine fish landings in West Bengal & Orissa during 1969 to 1975 (in tonnes)

Sl. No.	Name of fish	1969	1970	1971	1972	1973	1974	1975
1.	Elasmobranchs	492	1,167	325	829	833	1,672	1,430
2.	Eels	—	—	8	24	43	84	4
3.	Catfishes	191	446	315	525	534	1,232	3,383
4.	<i>Chirocentrus</i>	1,025	1,163	464	334	737	565	687
5. a.	Oil sardines	247	—	2	—	38	4	—
b.	Lesser sardines	3,905	3,058	2,044	1,442	2,035	1,740	957
c.	<i>Hilsa ilisha</i>	47	289	104	37	162	3,513	5,254
d.	Other <i>Hilsa</i>	22	—	77	7	203	207	181
e.	<i>Anchoviella</i>	900	510	316	673	768	362	207
f.	<i>Thrioscocles</i>	234	806	222	374	160	785	1,608
g.	Other clupeids	2,737	7,112	1,342	819	3,408	2,122	3,436
6. a.	<i>Harpodon nehereus</i>	1,348	818	1,031	924	1,984	1,326	3,043
b.	<i>Saurida & Saurus</i>	26	89	10	9	3	3	6
7.	<i>Hemirhamphus & Belone</i>	5	6	3	4	1	—	5
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	4	30	121	50	104	38	201
10.	Red mullets	34	—	5	10	4	20	14
11.	Polynemids	50	258	88	88	136	313	224
12.	Sciaenids	1,274	2,617	2,727	2,479	1,323	1,671	4,474
13.	Ribbon fish	581	1,470	825	530	902	550	1,252
14. a.	<i>Caranx</i>	372	844	91	79	132	27	237
b.	<i>Chorinemus</i>	100	91	70	74	172	212	165
c.	<i>Trachynotus</i>	—	—	—	—	—	—	—
d.	Other carangids	—	—	—	—	—	1	2
e.	<i>Coryphaena</i>	—	—	—	—	—	—	—
f.	<i>Elacate</i>	—	—	—	—	—	16	1
15. a.	<i>Lelognathus</i>	937	891	317	921	438	399	552
b.	<i>Gazza</i>	—	—	4	—	—	—	—
16.	<i>Lactarius</i>	5	58	8	29	7	24	6
17.	Pomfrets	423	426	643	634	728	1,110	2,501
18.	Mackerel	28	1,764	398	102	80	211	116
19.	Seer fish	612	826	338	329	769	1,169	554
20.	Tunnies	—	—	1	42	28	46	9
21.	<i>Sphyraena</i>	—	6	9	6	1	5	3
22.	<i>Mugil</i>	13	37	23	68	18	40	44
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	45	57	8	41	24	100	30
25. a.	Penaeid prawns	5,638	2,994	1,414	1,471	2,565	2,322	2,920
b.	Non-penaeid prawns	—	22	86	—	486	1,165	2,787
c.	Other crustaceans	—	3	1	3	60	45	8
26.	Cephalopods	2	3	89	7	7	—	2
27.	Miscellaneous	1,582	3,541	4,462	2,380	3,825	3,028	9,431
TOTAL		22,879	31,403	18,032	15,330	22,736	26,092	45,761

1,300 and 1,100 t. respectively. However, a decline was noticed in the landings of catfishes, white baits, other sardines, mackerel, elasmobranchs, *Caranx* spp., tunnies, crabs and other crustaceans and seer fish, the decrease in their catch being 10,000, 5,900, 5,200, 4,200, 3,200, 3,000, 2,100, 1,700 and 1,700 t. respectively. The species composition of marine fish landings in Tamil Nadu during 1969 to 1978 is shown in Table 9.

Pondicherry

A slight increase of about 400 t. in the total landings was noticed in this Union Territory as compared to 1977 (Table 1). The landings of flying fish, other clupeids, penaeid prawns and sciaenids showed an increase of about 480, 280, 140 and 120 t. respectively. The catch of *Caranx* spp., mackerel and *Lactarius*, however, showed a decline of about 270, 200 and 180 t. re-

spectively. Table 10 shows the species composition of marine fish landings in Pondicherry during 1969 to 1978.

Kerala

In Kerala, the total marine fish landings during 1978 showed an increase of 28,000 t. over that of 1977 (Table 1). This increase was contributed by the higher landings of ribbon fish, white baits, perches, mackerel, penaeid prawns and elasmobranchs, the increase in their landings being 17,000, 11,000, 11,000, 6,000, 5,000 and 3,500 t. respectively. The landings of other sardines, *Caranx* spp., silver bellies, crabs and pomfrets, however, showed a decline of 9,000, 8,500, 5,000, 2,500 and 2,000 t. respectively. The species composition of marine fish landings in Kerala during 1969 to 1978 is shown in Table 11.

Table 10. Composition of marine fish landings in Pondicherry during 1969 to 1978 (In tonnes)

Sl. No.	Name of fish	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
1.	Elasmobranchs	277	436	848	492	322	186	129	165	352	199
2.	Eels	188	17	103	1	2	3	4	6	5	—
3.	Catfishes	139	148	360	72	122	65	55	66	137	168
4.	<i>Chirocentrus</i>	185	266	277	153	291	58	50	63	63	111
5.	a. Oil sardine	—	—	—	—	—	—	31	—	—	—
	b. Lesser sardines	1,530	1,752	1,807	724	500	1,203	1,046	1,839	1,156	1,184
	c. <i>Hilsa ilisha</i>	—	—	5	—	—	—	—	—	—	—
	d. Other <i>Hilsa</i>	6	74	159	93	157	173	277	121	43	108
	e. <i>Anchoviella</i>	2,284	2,480	697	439	695	692	412	178	548	521
	f. <i>Thrioccles</i>	400	805	338	442	619	519	337	565	405	258
	g. Other clupeids	513	501	106	141	66	71	50	1	—	281
6.	a. <i>Harpodon nehereus</i>	2	—	—	—	—	—	—	—	—	—
	b. <i>Saurida & Saurus Hemirhamphus & Belone</i>	101	111	276	122	103	26	44	105	103	132
7.	Flying fish	218	253	492	42	18	110	142	165	3	480
8.	Perches	234	252	510	277	405	132	389	769	391	487
9.	Red mullets	35	104	132	66	121	76	100	77	32	109
10.	Polynemids	27	26	16	15	20	25	14	26	5	27
11.	Sciaenids	895	481	391	546	626	250	212	434	258	374
12.	Ribbon fish	698	322	96	402	434	236	314	428	143	139
13.	a. <i>Caranx</i>	589	233	1,004	311	227	472	610	501	490	218
	b. <i>Chorinemus</i>	26	3	22	—	—	2	—	2	5	33
	c. <i>Trachynotus</i>	—	—	—	—	—	—	—	—	—	—
	d. Other carangids	—	—	—	—	—	—	—	—	—	—
	e. <i>Coryphaena</i>	8	1	—	—	3	5	—	7	2	3
	f. <i>Elaeate</i>	—	—	7	—	—	—	—	—	1	—
15.	a. <i>Lethognathus</i>	556	661	593	412	546	249	511	482	318	372
	b. <i>Gazza</i>	—	—	—	—	—	—	—	—	7	—
16.	<i>Lactarius</i>	77	83	53	17	2	12	30	121	175	—
17.	Pomfrets	127	105	48	67	82	24	13	44	53	50
18.	Mackerel	500	510	650	3,317	2,649	2,317	2,259	1,598	398	179
19.	Seer fish	33	83	76	25	46	68	23	28	34	41
20.	Tunnies	2	2	16	1	—	9	—	1	—	3
21.	<i>Sphyraena</i>	14	35	97	3	1	28	27	15	9	25
22.	<i>Mugil</i>	—	46	7	15	19	1	31	4	14	26
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—
24.	Soles	36	63	119	65	214	48	125	254	78	109
25.	a. Penaeid prawns	614	447	289	177	33	27	62	93	103	245
	b. Non-penaeid prawns	—	—	1	5	8	2	2	—	2	71
	c. Lobsters	—	—	—	—	—	—	25	33	20	2
	d. Crabs & other crustaceans	156	92	178	408	194	201	260	516	296	251
26.	Cephalopods	25	9	52	22	20	28	58	211	62	36
27.	Miscellaneous	142	222	603	105	137	359	453	1,203	747	586
TOTAL		10,637	10,624	10,454	8,980	8,682	7,698	8,150	10,123	6,462	6,828

(3,000 t.) and elasmobranchs (2,000 t.). The landings of non-penaeid prawns, other clupeids and pomfrets, however, declined by about 23,000, 9,000 and 4,000 t. respectively. Table 14 shows the species composition of catch in Maharashtra during 1969 to 1978.

Gujarat

The total landings in this state crossed 2 lakhs t. mark during the year. The catch of Bombay duck, pomfrets, other clupeids, perches, non-penaeid prawns and seer fish registered an increase of 22,000, 6,000, 4,000, 3,000, 2,000 and 2,000 t. respectively. A decline in the landings of ribbon fishes, eels, elasmobranchs, sciaenids, catfish, *Lactarius* and crabs & other crusta-

ceans was also noticed to the extent of 7,000, 6,600, 6,000, 6,000, 5,000, 4,000 and 2,000 t. respectively. The species composition of marine fish landings in Gujarat for the years 1969 to 1978 is shown in Table 15.

Andamans

The total landings in Andamans showed an increase of about 5,500 t. during 1978 as compared to 1977, which is due to higher input of effort (Table 1). Since the distribution of various species that accounted for 5,368 t. is not available the same is shown under miscellaneous in Table 2. (The landings of penaeid prawns, however, showed an increase of about 200 t.). The species composition of marine fish catch in Andamans for the year 1969 to 1978 is shown in Table 16.

Table 13. Composition of marine fish landings in Goa during 1969 to 1978 (In tonnes)

Sl. No.	Name of fish	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
1.	Elasmobranchs	138	163	229	299	199	387	572	1,038	625	863
2.	Eels	—	—	—	—	—	64	1	—	55	55
3.	Catfishes	115	85	84	281	230	348	1,367	834	918	1,356
4.	<i>Chirocentrus</i>	3	11	13	21	34	78	32	54	32	78
5. a.	Oil sardine	—	1,134	1,994	3,793	3,426	2,106	7,526	1,385	807	1,398
5. b.	Lesser sardines	1,343	2,694	72	2,165	1,272	1,172	3,914	11,100	4,066	5,151
5. c.	<i>Hilsa ilisha</i>	—	—	—	—	—	—	—	—	3	3
5. d.	Other <i>Hilsa</i>	—	—	—	—	—	—	—	—	1	2
5. e.	<i>Anchoviella</i>	35	34	44	123	146	—	31	—	9	5
5. f.	<i>Thryssocles</i>	—	—	—	—	—	81	123	290	293	1,308
5. g.	Other clupeids	50	36	260	8	120	276	419	667	520	645
6. a.	<i>Harpodon neherens</i>	—	2	2	—	—	—	10	46	20	27
6. b.	<i>Saurida & Saurus</i>	4	1	—	—	—	1	151	25	239	279
7.	<i>Hemirhamphus & Belone</i>	—	—	—	—	—	—	—	8	13	56
8.	Flying fish	—	—	—	—	—	—	—	—	—	2
9.	Perches	4	—	—	26	4	9	45	310	505	781
10.	Red mullets	—	1	—	—	6	34	77	—	—	—
11.	Polytremids	—	4	15	13	13	44	63	—	1	1
12.	Sciaenids	86	97	106	280	171	883	3,048	2,640	2,779	3,256
13.	Ribbon fish	134	60	23	12	48	111	355	1,123	449	504
14. a.	<i>Caranx</i>	2	—	—	4	2	952	1,078	794	1,149	1,803
14. b.	<i>Chorinemus</i>	1	1	—	—	—	4	—	100	44	56
14. c.	<i>Trachynotus</i>	—	—	—	—	—	—	—	3	—	—
14. d.	Other carangids	—	—	—	—	—	—	—	—	—	—
14. e.	<i>Coryphaena</i>	—	—	—	—	—	—	—	—	—	—
14. f.	<i>Elacate</i>	—	—	—	—	—	—	—	—	—	—
15. a.	<i>Leiagnathus</i>	471	332	156	287	152	1,420	604	896	438	704
15. b.	<i>Gazza</i>	—	—	—	—	—	—	—	3	—	—
16.	<i>Lactarius</i>	7	14	5	113	170	373	189	338	375	443
17.	Pomfrets	8	15	24	31	24	96	102	100	296	367
18.	Mackerel	23,872	14,585	35,258	19,999	7,616	7,905	6,779	6,448	7,561	3,371
19.	Seer fish	34	36	108	67	66	273	222	501	213	691
20.	Tunneys	—	2	—	—	—	2	—	23	307	300
21.	<i>Sphyraena</i>	1	—	—	—	—	—	—	—	—	7
22.	<i>Mugil</i>	4	—	—	18	—	5	124	4	46	32
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—
24.	Soles	284	119	64	221	95	196	16	137	335	417
25. a.	Penaeid prawns	559	627	279	361	785	1,448	1,762	4,643	1,436	1,647
25. b.	Non-penaeid prawns	—	—	—	—	—	—	—	—	24	26
25. c.	Lobsters	—	—	—	—	—	—	6	3	7	13
25. d.	Crabs & other crustaceans	5	5	11	7	20	86	227	971	637	531
26.	Cephalopods	—	—	—	—	—	14	96	142	164	124
27.	Miscellaneous	399	678	1,233	1,770	1,141	1,232	166	341	479	757
TOTAL		27,559	20,736	39,980	30,104	15,740	19,534	29,170	34,968	24,731	27,111

Bombay duck

Bombay duck landings during 1978 registered an increase of about 40,000 t. as compared to 1977. Maharashtra and Gujarat contributed higher landings during the year. During 1969 to 1978 the landings of Bombay duck showed wide fluctuations (Table 4 & Fig. 4). A minimum of 51,570 t. was recorded in 1972, while a maximum of 1,25,481 t. was recorded in 1978 which is the highest recorded in this decade.

Sciaenids

The landings of sciaenids during 1978 showed a marginal decline of about 3,500 t. as compared to 1977.

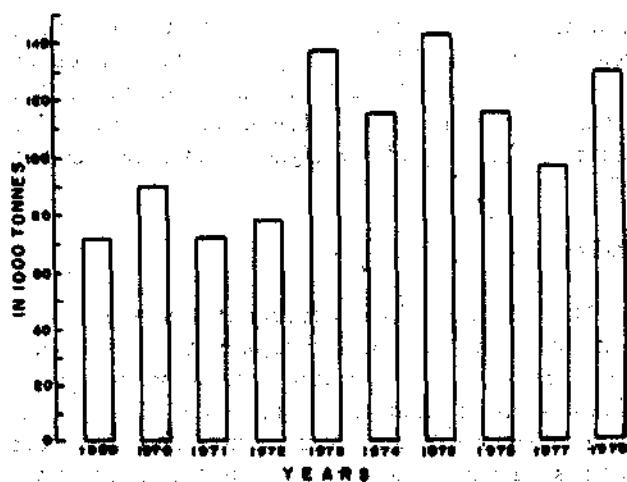


Fig. 3. Landings of penaeid prawns during 1969 to 1978

Non-penaeid prawns

The catch of non-penaeid prawns during the year declined by about 23,000 t. This was due to reduced landings in the states of Maharashtra and Andhra Pradesh. Some increase was, however, seen in the landings in the states of Gujarat, West Bengal, Tamil Nadu and Pondicherry. From Table 4 and Fig. 8 it is seen that the landings of non-penaeid prawns during 1969 to 1978 showed year to year fluctuations. While a minimum of 31,834 t. was recorded in 1970, the

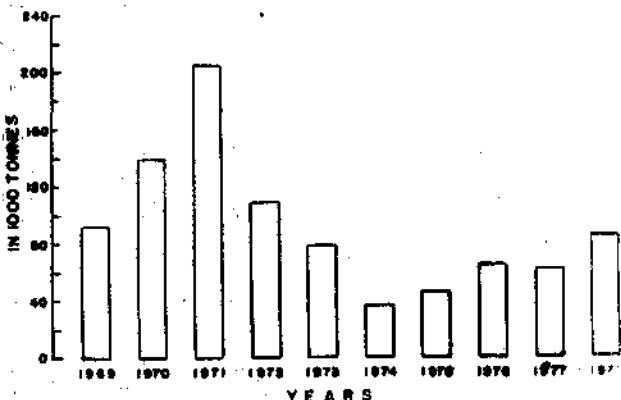


Fig. 6. Landings of mackerel during 1969 to 1978.

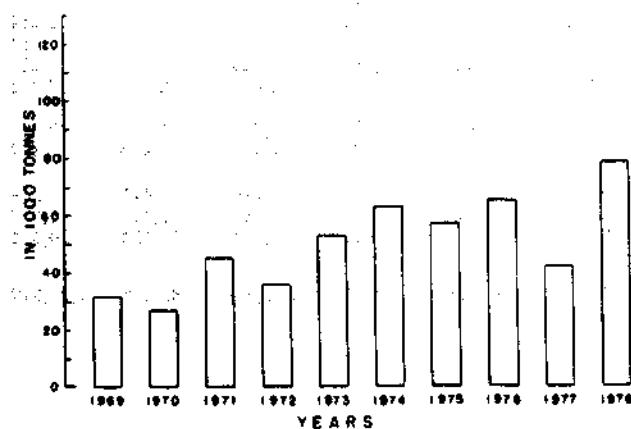


Fig. 7. Landings of ribbon fish during 1969 to 1978

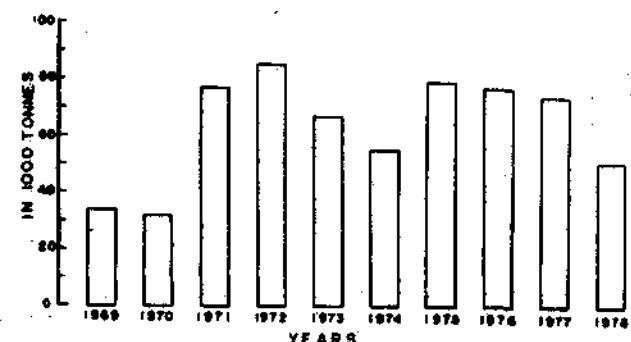


Fig. 8. Landings of non-penaeid prawns during 1969 to 1978

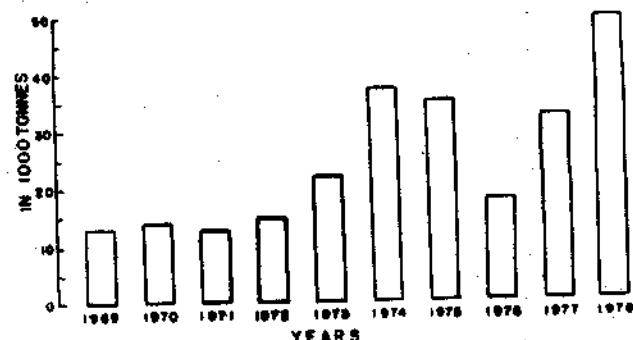


Fig. 9. Landings of perches during 1969 to 1978

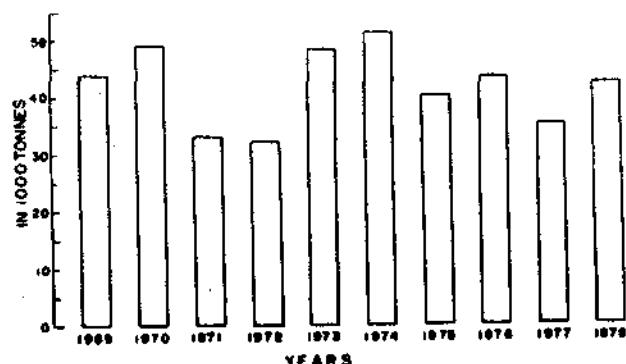


Fig. 10. Landings of silver bellies during 1969 to 1978

maximum was noticed in 1972 (85,488 t.) The landings during 1978 represented 59% of the highest catch recorded in 1972.

Perches

The landings of perches during 1978 recorded an increase of about 17,500 t. as compared to 1977. Except Andhra Pradesh and Karnataka, all the maritime states of India recorded higher landings during the year. The landings during 1969 to 1978 showed fluctuations as seen in Table 4 and Fig. 9. A minimum of 12,865 t. was recorded in 1969 and a maximum of 49,312 t. was registered in 1978.

Silver bellies

During 1978, the landings of silver bellies showed an increase of about 7,000 t. Barring Andhra Pradesh, Kerala and Maharashtra all the maritime states of India registered increased landings during 1978. From Table 4 and Fig. 10 it is seen that the landings showed minor fluctuations from year to year during 1969 to 1978. While a minimum of 32,392 t. was recorded during 1972, a maximum of 51,240 t. was obtained in 1974. The landings during 1978 formed about 82% of the highest recorded in 1974.

Table 17 (Contd.)

7.	<i>Hemiramphus</i> & <i>Belone</i>	15	16	9	19	99	27	29	33	58	144
8.	Flying fish	24	20	14	17	42	43	30	41	30	33
9.	Perches	69	72	43	83	130	159	186	193	211	163
10.	Red mullets	34	33	8	12	36	32	34	58	29	27
11.	Polyhemids	—	—	—	—	—	—	2	—	—	—
12.	Sciaenids	—	—	—	—	—	—	—	—	—	—
13.	Ribbon fish	—	—	—	—	—	—	—	—	—	—
14.	a. <i>Caranx</i>	46	32	20	30	63	61	61	94	65	60
	b. <i>Chorinemus</i>	—	—	—	—	—	—	—	—	—	—
	c. <i>Trachynotus</i>	—	—	—	—	—	—	—	—	—	—
	d. Other carangids	—	—	—	—	—	—	—	—	—	—
	e. <i>Coryphaena</i>	—	—	—	—	—	—	—	—	—	—
	f. <i>Elaeate</i>	—	—	—	—	—	—	5	—	—	—
15.	a. <i>Lelognathus</i>	—	—	—	—	—	—	—	—	—	—
	b. <i>Gazza</i>	—	—	—	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	—	—	—	—	—	—	—	—	—
17.	Pomfrets	—	—	—	—	—	—	—	—	—	—
18.	Mackerel	—	—	—	—	—	—	—	—	—	—
19.	Seer fish	63	58	48	51	29	91	66	87	41	41
20.	Tunnyes	665	571	774	514	1,020	1,254	1,932	1,291	1,166	1,875
21.	<i>Sphyraena</i>	7	6	7	8	11	18	17	20	15	18
22.	<i>Mugil</i>	—	—	—	—	—	—	—	—	—	—
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—
24.	Soles	—	—	—	—	—	—	—	—	—	—
25.	a. Penaeid prawns	—	—	—	—	—	—	—	—	—	—
	b. Non-penaeid prawns	—	—	—	—	—	—	—	—	—	—
	c. Other crustaceans	—	—	—	—	—	—	—	—	—	—
26.	Cephalopods	10	9	13	17	20	15	19	40	23	20
27.	Miscellaneous	119	134	134	172	232	279	224	361	281	201
TOTAL		1,193	1,165	1,190	1,080	1,853	2,232	2,931	2,572	2,215	2,780