



# **MARINE FISHERIES INFORMATION SERVICE**

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## MARINE FISH PRODUCTION IN INDIA DURING JANUARY TO JUNE 1978\*

### Total production for the half year

The total marine fish production in India (excluding Andamans and Lakshadweep) during the first half of 1978 was provisionally estimated at 530,056 tonnes as compared to 564,184 tonnes during the corresponding period in 1977, showing a decline of about 30,000 tonnes (5.38%). While the total landings in West Bengal, Orissa, Andhra and Maharashtra declined,

Tamil Nadu, Kerala, Karnataka, Goa and Gujarat recorded comparatively higher landings. The production in Pondicherry remained more or less stationary. The monthwise total landings of marine fish in the various maritime states of India (excluding Andamans and Lakshadweep) and the species-wise catch details for the period January to June, 1978 are shown in Fig. 1 and Tables 1 and 2. Maximum landings are noticed in January and minimum in June.

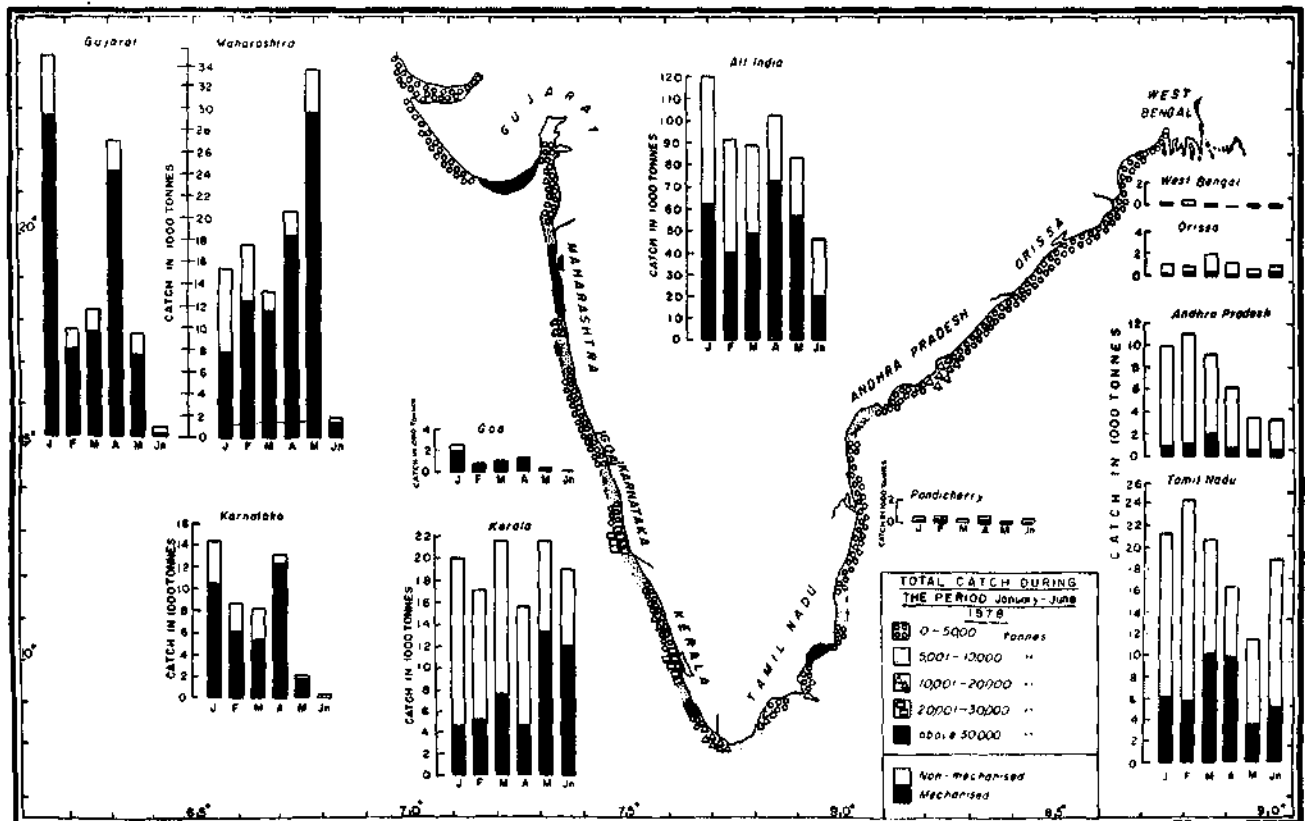


Fig. 1 Total marine fish landings in different states during January to June 1978

\* Prepared by the Fishery Resources Assessment Division.

**Table 1** Statewise and monthwise total marine fish production in India during the period January to June 1978\* (in tonnes)

Sl. No.	Name of State	January	February	March	April	May	June	Total	Total for January to June 1977
1.	West Bengal	198	491	188	53	150	292	1,372	4,133
2.	Orissa	1,063	874	1,954	1,194	687	1,054	6,826	7,302
3.	Andhra Pradesh	9,866	10,978	9,178	6,186	3,472	3,443	43,123	61,291
4.	Tamil Nadu	21,156	24,193	20,679	16,439	11,594	18,886	112,947	83,476
5.	Pondicherry	466	602	342	658	254	438	2,760	2,783
6.	Kerala	20,023	17,149	21,710	15,564	21,519	18,948	114,913	113,994
7.	Karnataka	14,398	8,792	8,267	13,169	2,099	293	47,018	28,140
8.	Goa	2,511	679	1,087	1,167	325	15	5,784	5,621
9.	Maharashtra	15,373	17,598	13,293	20,634	33,393	1,775	102,066	167,487
10.	Gujarat	34,670	9,826	11,606	26,854	9,381	910	93,247	89,957
Total		119,724	91,182	88,304	101,918	82,874	46,054	530,056	564,184

\*Provisional

**Pelagic and demersal group of fishes**

The species contributing to the catch may be divided into two groups—pelagic and demersal. The pelagic group consists of *Chirocentrus*, sardines, *Hilsa* spp., anchovies and white baits, other clupeids, Bombay duck, *Hemirhamphus* & *Belone*, flying fish, ribbon fish, carangids, mackerel, seer fish, tunnies, *Sphyraena*, mullets and *Bregmaceros* spp. The elasmobranchs, eels, cat fishes, lizard fishes, perches, red mullets, polynemids, sciaenids, silver bellies, *Lactarius*, pomfrets, soles, prawns, lobsters and cephalopods form the demersal group. The statewise distribution of pelagic and demersal group of fishes is shown in Fig. 2.

Kerala, Karnataka, Andhra, Orissa and Pondicherry land higher catch of pelagic fishes. The demersal fishes are predominantly caught in the States of Maharashtra, Gujarat, Tamil Nadu, Goa and West Bengal. While Kerala recorded the highest catch of pelagic fishes, Maharashtra contributed the maximum catch of demersal fishes.

**Statewise production**

**West Bengal**

The total marine fish production in West Bengal declined by about 2,800 tonnes, as compared to the first half of 1977 (Table 1). While the landings of sciaenids, *Harpodon nehereus*, *Thrissocles*, other clupeids, ribbon fish, penaeid and non-penaeid prawns

were comparatively poor, the catch of soles and seer fish showed an increasing trend. Table 3 shows the monthwise and specieswise landings of marine fish in West Bengal during the period January to June 1978. The maximum catch was in February and the minimum in April.

**Orissa**

A decrease of about 500 tonnes in the total catch was noticed in this State while comparing the estimates for the corresponding half of 1977. A significant increase in the landings of elasmobranchs, *Chirocentrus*, lesser sardines, *Anchoviella*, and pomfrets, was seen during the period January to June 1978. The landings

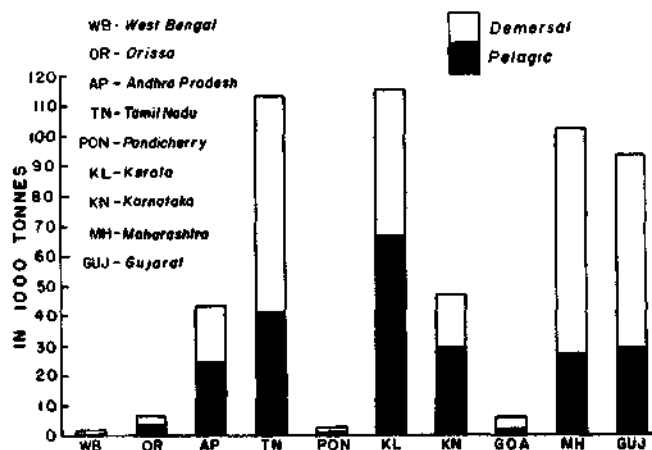


Fig. 2 Pelagic and demersal fish catch in different states during January to June 1978.

Table 2 Statewise composition of marine fish landings in India (excluding Andamans and Lakshadweep) for the period January to June 1978 (in tonnes)\*

Sl. No.	Name of fish	West Bengal	Orissa	Andhra Pradesh	Tamil Nadu	Pondicherry	Kerala	Karnataka	Goa	Maha-rashtra	Gujarat	Total
1.	Elasmobranchs	38	735	4,383	11,243	87	4,064	1,003	158	4,284	10,554	36,549
2.	Eels	—	—	1,017	194	—	36	3	55	2,606	1,253	5,164
3.	Cat fishes	34	308	1,696	3,637	16	4,577	951	451	6,330	2,459	20,459
4.	<i>Chirocentrus</i>	55	316	453	905	32	2,903	101	28	1,253	1,525	7,571
5. a)	Oil sardines	—	—	—	47	—	25,182	12,143	58	—	—	37,430
b)	Other sardines	2	910	4,941	14,005	532	4,181	1,358	770	329	—	27,028
c)	<i>Hilsa ilisha</i>	12	940	1	174	—	87	8	—	845	14	2,081
d)	Other <i>Hilsa</i>	—	257	1,196	1,778	92	122	8	—	142	3,547	7,142
e)	<i>Anchoviella</i>	10	1,120	6,140	1,630	263	5,335	58	—	241	—	14,797
f)	<i>Thrissocles</i>	51	22	877	3,982	119	416	43	44	851	393	6,798
g)	Other clupeids	117	240	955	2,068	69	329	94	107	5,459	3,951	13,389
6. a)	<i>Harpodon nehereus</i>	111	8	166	—	—	21	2	—	10,195	6,905	17,408
b)	<i>Saurida &amp; Saurus</i>	—	5	338	299	66	2074	84	129	1,276	259	4,530
7.	<i>Hemirhamphus &amp; Belone</i>	11	—	6	279	—	218	21	18	7	1	561
8.	Flying fish	—	—	—	220	67	—	—	—	1	—	288
9.	Perches	—	84	1,353	8,125	208	1,641	117	231	3,667	3,395	18,821
10.	Red mullets	—	1	128	648	16	66	6	—	526	2	1,393
11.	Polynemids	17	144	798	550	6	14	3	1	822	55	2,410
12.	Sciaenids	92	58	2,807	8,502	115	5,712	715	588	7,046	20,683	46,318
13.	Ribbon fish	117	15	2,468	4,223	45	4,571	184	349	4,741	6,244	22,957
14. a)	<i>Caranx</i>	2	26	1,271	1,371	76	2,264	147	443	498	256	6,354
b)	<i>Chorinemus</i>	12	188	433	912	26	21	12	4	54	106	1,768
c)	<i>Trachynotus</i>	—	—	—	87	—	19	3	—	—	—	109
d)	Other carangids	—	—	40	15	—	—	23	—	10	—	88
e)	<i>Coryphaena</i>	—	—	—	22	—	16	—	—	—	—	38
f)	<i>Elacate</i>	—	1	53	221	—	55	52	—	—	—	382
15. a)	<i>Letognathus</i>	51	76	1,108	15,859	155	1,546	442	184	106	—	19,527
b)	<i>Gazza</i>	—	—	—	8	—	—	—	—	—	—	8
16.	Lactarius	—	8	389	424	—	309	80	231	456	7,112	9,009
17.	Pomfrets	48	564	914	677	33	934	1,359	25	3,513	3,959	12,026
18.	Mackerel	—	127	2,403	1,193	81	10,247	6,008	27	94	—	20,180
19.	Seer fish	20	274	1,414	1,867	12	890	450	59	438	1,592	7,016
20.	Tunnies	—	34	149	661	—	3,663	32	6	447	307	5,299
21.	<i>Sphyraena</i>	—	3	31	426	3	266	—	—	95	—	824
22.	<i>Mugil</i>	—	3	111	887	26	1	1	11	37	444	1,521
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	19	3	22
24.	Soles	24	1	214	994	38	4,073	341	200	947	310	7,142
25. a)	Penaeid prawns	178	80	2,096	6,781	180	16,730	5,658	929	12,257	2,320	47,209
b)	Non-penaeid prawns	127	—	195	155	38	208	6	—	25,001	752	26,482
c)	Lobsters	—	—	10	127	2	4	36	8	209	466	862
d)	Other crustaceans	—	2	254	6,489	91	1,059	1,690	332	78	350	10,345
26.	Cephalopods	30	2	94	295	24	861	37	34	2,214	3,404	6,995
27.	Miscellaneous	213	274	2,221	10,967	242	10,198	13,739	304	4,972	10,626	53,756
Total		1,372	6,826	43,123	112,947	2,760	114,913	47,018	5,784	102,066	93,247	530,056

\* Provisional

**Table 3** Composition of marine fish landings in West Bengal during the half year ending June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	Mar.	April	May	June	Total
1.	Elasmo-branches	—	—	20	—	6	12	38
2.	Eels	—	—	—	—	—	—	—
3.	Cat fishes	—	—	16	—	16	2	34
4.	<i>Chirocentrus</i>	2	23	—	—	16	14	55
5.	a) Oil sardines	—	—	—	—	—	—	—
	b) Other sardines	—	2	—	—	—	—	2
	c) <i>Hilsa ilisha</i>	—	2	2	4	4	—	12
	d) Other <i>Hilsa</i>	—	—	—	—	—	—	—
	e) <i>Anchoviella</i>	—	2	—	—	2	6	10
	f) <i>Thrisso-cles</i>	8	25	2	2	2	12	51
	g) Other clupeids	22	20	16	15	10	34	117
6.	a) <i>Harpodon nehereus</i>	22	20	16	1	18	34	111
	b) <i>Saurida &amp; Saurus</i>	—	—	—	—	—	—	—
7.	<i>Hemirhamphus &amp; Belone</i>	—	11	—	—	—	—	11
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	—	—	—	—	—	—	—
10.	Red mullets	—	—	—	—	—	—	—
11.	Poly-nemids	—	5	6	—	—	6	17
12.	Sciaenids	30	12	12	4	8	26	92
13.	Ribbon fish	14	71	10	6	—	16	117
14.	a) <i>Caranx</i>	—	2	—	—	—	—	2
	b) <i>Chorinemus</i>	—	—	8	—	4	—	12
	c) <i>Trachy-notus</i>	—	—	—	—	—	—	—
	d) Other carangids	—	—	—	—	—	—	—
	e) <i>Coryphaena</i>	—	—	—	—	—	—	—
	f) <i>Elacate</i>	—	—	—	—	—	—	—
15.	a) <i>Leiognathus</i>	—	29	—	—	2	20	51
	b) <i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	—	—	—	—	—	—
17.	Pomfrets	6	12	20	2	6	2	48
18.	Mackerel	—	—	—	—	—	—	—
19.	Seer fish	—	—	8	—	4	8	20
20.	Tunnies	—	—	—	—	—	—	—
21.	<i>Sphyraena</i>	—	—	—	—	—	—	—
22.	<i>Mugil</i>	—	—	—	—	—	—	—
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	—	24	—	—	—	—	24
25.	a) Penaeid prawns	24	60	24	8	22	40	178
	b) Non-penaeid prawns	10	107	4	—	2	4	127
	c) Lobsters	—	—	—	—	—	—	—
	d) Other crustaceans	—	—	—	—	—	—	—
26.	Cephalopods	—	30	—	—	—	—	30
27.	Miscellaneous	60	34	24	11	28	56	213
Total		198	491	188	53	150	292	1,372

**Table 4** Composition of marine fish landings in Orissa during the half year ending June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branches	106	135	104	134	120	136	735
2.	Eels	—	—	—	—	—	—	—
3.	Cat fishes	54	76	61	38	43	36	308
4.	<i>Chirocentrus</i>	86	46	50	43	40	51	316
5.	a) Oil sardines	—	—	—	—	—	—	—
	b) Other sardines	240	25	374	137	134	—	910
	c) <i>Hilsa ilisha</i>	128	132	163	98	81	338	940
	d) Other <i>Hilsa</i>	52	14	75	17	49	50	257
	e) <i>Anchoviella</i>	—	32	724	357	5	2	1120
	f) <i>Thrisso-cles</i>	5	3	7	4	3	—	22
	g) Other clupeids	48	21	39	70	21	41	240
6.	a) <i>Harpodon nehereus</i>	4	—	—	—	—	4	8
	b) <i>Saurida &amp; Saurus</i>	3	2	—	—	—	—	5
7.	<i>Hemirhamphus &amp; Belone</i>	—	—	—	—	—	—	—
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	3	80	1	—	—	—	84
10.	Red mullets	—	—	1	—	—	—	1
11.	Polynemids	28	18	38	20	16	24	144
12.	Sciaenids	6	9	12	16	1	14	58
13.	Ribbon fish	—	—	—	—	5	10	15
14.	a) <i>Caranx</i>	1	4	4	4	2	11	26
	b) <i>Chorinemus</i>	52	28	42	20	18	28	188
	c) <i>Trachy-notus</i>	—	—	—	—	—	—	—
	d) Other carangids	—	—	—	—	—	—	—
	e) <i>Coryphaena</i>	—	—	—	—	—	—	—
	f) <i>Elacate</i>	—	1	—	—	—	—	1
15.	a) <i>Lelognathus</i>	8	11	6	36	11	4	76
	b) <i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	3	5	—	—	—	—	8
17.	Pomfrets	105	54	96	68	61	180	564
18.	Mackerel	19	61	40	7	—	—	127
19.	Seer fish	42	53	55	36	35	53	274
20.	Tunnies	13	16	5	—	—	—	34
21.	<i>Sphyraena</i>	—	3	—	—	—	—	3
22.	<i>Mugil</i>	1	2	—	—	—	—	3
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	—	—	—	1	—	—	1
25.	a) Penaeid prawns	4	1	—	41	7	27	80
	b) Non-penaeid prawns	—	—	—	—	—	—	—
	c) Lobsters	—	—	—	—	—	—	—
	d) Other crustaceans	—	—	—	—	—	2	2
26.	Cephalopods	—	—	—	—	2	—	2
27.	Miscellaneous	52	42	57	47	33	43	274
Total		1,063	874	1,954	1,194	687	1,054	6,826

**Table 5** Composition of marine fish landings in Andhra Pradesh during January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branchs	1,015	802	1,652	253	254	407	4,383
2.	Eels	750	65	121	29	20	32	1,017
3.	Cat fishes	401	132	338	341	114	370	1,696
4.	<i>Chirocentrus</i>	42	153	126	4	119	9	453
5.	a) Oil sardines	—	—	—	—	—	—	—
	b) Other sardines	2,072	1,024	771	1,009	32	33	4,941
	c) <i>Hilsa ilisha</i>	—	1	—	—	—	—	1
	d) Other <i>Hilsa</i>	56	565	432	111	—	32	1,196
	e) <i>Anchoviella</i>	948	2,572	301	1,493	799	27	6,140
	f) <i>Thrissoles</i>	198	154	261	36	23	205	877
	g) Other clupeids	149	281	116	29	82	298	955
6.	a) <i>Harpodon nehereus</i>	72	61	17	2	1	13	166
	b) <i>Saurida &amp; Saurus</i>	50	122	48	49	39	30	338
7.	<i>Hemirhamphus &amp; Belone</i>	—	1	1	—	—	4	6
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	372	317	348	135	90	91	1,353
10.	Red mullets	19	50	17	19	7	16	128
11.	Polynemids	504	95	88	64	2	45	798
12.	Sciaenids	618	566	662	257	243	461	2,807
13.	Ribbon fish	258	191	176	1,214	344	285	2,468
14.	a) <i>Caranx</i>	181	194	460	65	238	133	1,271
	b) <i>Chorinemus</i>	92	104	83	97	29	28	433
	c) <i>Trachynotus</i>	—	—	—	—	—	—	—
	d) Other carangids	19	1	15	5	—	—	40
	e) <i>Coryphaena</i>	—	—	—	—	—	—	—
	f) <i>Elacate</i>	33	20	—	—	—	—	53
15.	a) <i>Lelognathus</i>	126	231	236	198	265	52	1,108
	b) <i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	152	112	38	61	8	18	389
17.	Pomfrets	310	196	86	82	116	124	914
18.	Mackerel	11	1,315	1,068	8	1	—	2,403
19.	Seer fish	335	518	312	35	130	84	1,414
20.	Tunnies	62	—	72	—	15	—	149
21.	<i>Sphyraena</i>	17	5	2	1	—	6	31
22.	<i>Mugil</i>	1	4	5	57	4	40	111
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	52	27	45	30	42	18	214
25.	a) Penaeid prawns	446	454	526	166	217	287	2,096
	b) Non-penaeid prawns	9	29	10	50	2	95	195
	c) Lobsters	—	—	—	3	—	7	10
	d) Other crustaceans	21	24	66	54	1	88	254
26.	Cephalopods	17	6	30	14	15	12	94
27.	Miscellaneous	458	586	649	215	220	93	2,221
Total		9,866	10,978	9,178	6,186	3,472	3,443	43,123

**Table 6** Composition of marine fish landings in Tamil Nadu for the period January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branchs	1,472	3,106	1,619	2,646	686	1,714	11,243
2.	Eels	98	72	8	3	10	3	194
3.	Cat fishes	793	714	628	460	237	805	3,637
4.	<i>Chirocentrus</i>	171	131	164	74	171	194	905
5.	a) Oil sardines	—	—	32	15	—	—	47
	b) Other sardines	3,968	2,142	2,986	1,080	2,948	881	14,005
	c) <i>Hilsa ilisha</i>	—	—	—	47	118	9	174
	d) Other <i>Hilsa</i>	235	838	410	184	27	84	1,778
	e) <i>Anchoviella</i>	169	95	225	166	489	486	1,630
	f) <i>Thrissoles</i>	644	1,028	495	999	415	401	3,982
	g) Other clupeids	421	286	359	524	300	178	2,068
6.	a) <i>Harpodon nehereus</i>	—	—	—	—	—	—	—
	b) <i>Saurida &amp; Saurus</i>	85	27	12	25	68	82	299
7.	<i>Hemirhamphus &amp; Belone</i>	65	24	74	27	12	77	279
8.	Flying fish	—	—	—	1	—	—	219
9.	Perches	547	5,341	553	249	530	905	8,125
10.	Red mullets	107	20	72	88	145	216	648
11.	Polynemids	184	82	28	68	52	136	550
12.	Sciaenids	1,699	1,383	2,218	1,875	481	846	8,502
13.	Ribbon fish	174	196	63	19	106	3,665	4,223
14.	a) <i>Caranx</i>	384	123	206	72	324	262	1,371
	b) <i>Chorinemus</i>	496	36	131	40	71	138	912
	c) <i>Trachynotus</i>	17	16	6	34	10	4	87
	d) Other carangids	—	—	1	14	—	—	15
	e) <i>Coryphaena</i>	7	5	4	6	—	—	22
	f) <i>Elacate</i>	67	45	27	59	10	13	221
15.	a) <i>Lelognathus</i>	2,354	2,524	4,538	2,419	1,486	2,538	15,859
	b) <i>Gazza</i>	8	—	—	—	—	—	8
16.	<i>Lactarius</i>	118	34	28	1	19	224	424
17.	Pomfrets	93	3	314	33	158	76	677
18.	Mackerel	198	275	189	280	67	184	1,193
19.	Seer fish	730	325	381	148	118	165	1,867
20.	Tunnies	219	119	61	24	221	17	661
21.	<i>Sphyraena</i>	77	48	15	18	93	175	426
22.	<i>Mugil</i>	304	527	17	12	—	27	887
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	184	101	154	284	125	146	994
25.	a) Penaeid prawns	1,708	1,462	1,178	892	464	1,077	6,781
	b) Non-penaeid prawns	—	10	35	5	35	70	155
	c) Lobsters	33	42	14	23	13	2	127
	d) Other crustaceans	536	939	1,753	1,889	526	846	6,489
26.	Cephalopods	49	36	85	71	33	21	295
27.	Miscellaneous	2,742	2,038	1,596	1,565	1,026	2,000	10,967
Total		21,156	24,193	20,679	16,439	11,594	18,886	112,947

**Table 7** Composition of marine fish landings in Pondicherry during the period January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	Mar.	April	May	June	Total
1.	Elasmo-branches	16	36	2	22	4	7	87
2.	Eels	—	—	—	—	—	—	—
3.	Cat fishes	6	—	—	5	—	5	16
4.	<i>Chirocentrus</i>	11	2	7	9	—	3	32
5. a)	Oil sardines	—	—	—	—	—	—	—
b)	Other sardines	175	93	120	66	9	69	532
c)	<i>Hilsa ilisha</i>	—	—	—	—	—	—	—
d)	Other <i>Hilsa</i>	22	68	2	—	—	—	92
e)	<i>Anchoviella</i>	1	14	6	233	7	2	263
f)	<i>Thrisso-cles</i>	26	5	52	10	14	12	119
g)	Other clupeids	3	—	20	16	26	4	69
6. a)	<i>Harpodon nehereus</i>	—	—	—	—	—	—	—
b)	<i>Saurida &amp; Saurus</i>	—	36	2	20	1	7	66
7.	<i>Hemirhamphus &amp; Belone</i>	—	—	—	—	—	—	—
8.	Flying fish	—	—	—	—	—	67	67
9.	Perches	51	57	16	41	8	35	208
10.	Red mullets	3	2	1	5	2	3	16
11.	Polynemids	1	—	—	2	—	3	6
12.	Sciaenids	15	24	17	15	18	26	115
13.	Ribbon fish	10	5	8	11	9	2	45
14. a)	<i>Caranx</i>	11	22	8	19	2	14	76
b)	<i>Chorinemus</i>	6	14	3	3	—	—	26
c)	<i>Trachy-notus</i>	—	—	—	—	—	—	—
d)	Other carangids	—	—	—	—	—	—	—
e)	<i>Coryphaena</i>	—	—	—	—	—	—	—
f)	<i>Elacate</i>	—	—	—	—	—	—	—
15. a)	<i>Leiognathus</i>	19	63	4	42	12	15	155
b)	<i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	—	—	—	—	—	—
17.	Pomfrets	5	4	—	3	20	1	33
18.	Mackerel	6	7	30	7	10	21	81
19.	Seer fish	2	3	5	—	2	—	12
20.	Tunnies	—	—	—	—	—	—	—
21.	<i>Sphyraena</i>	—	2	1	—	—	—	3
22.	<i>Mugil</i>	—	—	—	—	—	26	26
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	9	13	5	4	1	6	38
25. a)	Penaeid prawns	1	62	10	41	36	30	180
b)	Non-penaeid prawns	—	—	—	5	—	33	38
c)	Lobsters	—	1	—	1	—	—	2
d)	Other crustaceans	37	29	8	7	3	7	91
26.	Cephalopods	10	—	—	11	3	—	24
27.	Miscellaneous	20	40	15	60	67	40	242
<b>Total</b>		<b>466</b>	<b>602</b>	<b>342</b>	<b>658</b>	<b>254</b>	<b>438</b>	<b>2,760</b>

**Table 8** Composition of marine fish landings in Kerala during the period January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branches	496	605	378	257	1,354	974	4,064
2.	Eels	33	1	—	1	—	1	36
3.	Cat fishes	355	401	217	222	1,964	1,418	4,577
4.	<i>Chirocentrus</i>	38	108	2,424	311	16	6	2,903
5. a)	Oil sardines	9,843	4,660	3,370	3,884	2,558	867	25,182
b)	Other sardines	123	735	179	2,292	814	38	4,181
c)	<i>Hilsa ilisha</i>	—	—	2	—	84	1	87
d)	Other <i>Hilsa</i>	122	—	—	—	—	—	122
e)	<i>Anchoviella</i>	977	1,102	2,232	327	322	375	5,335
f)	<i>Thrisso-cles</i>	159	41	95	31	90	—	416
g)	Other clupeids	48	55	34	76	30	86	329
6. a)	<i>Harpodon nehereus</i>	—	2	—	—	—	19	21
b)	<i>Saurida &amp; Saurus</i>	164	134	10	143	1,324	299	2,074
7.	<i>Hemirhamphus &amp; Belone</i>	62	15	5	133	3	—	218
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	232	618	122	220	217	232	1,641
10.	Red mullets	—	23	9	34	—	—	66
11.	Poly-nemids	1	4	1	—	6	2	14
12.	Sciaenids	258	675	1,910	788	1,109	972	5,712
13.	Ribbon fish	696	148	309	215	131	3,072	4,571
14. a)	<i>Caranx</i>	217	705	601	230	366	145	2,264
b)	<i>Chorinemus</i>	—	11	—	2	2	6	21
c)	<i>Trachy-notus</i>	6	5	8	—	—	—	19
d)	Other carangids	—	—	—	—	—	—	—
e)	<i>Coryphaena</i>	—	5	10	—	1	—	16
f)	<i>Elacate</i>	19	1	5	—	8	22	55
15. a)	<i>Leiognathus</i>	176	542	44	254	154	376	1,546
b)	<i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	14	29	6	48	74	138	309
17.	Pomfrets	245	227	212	32	113	105	934
18.	Mackerel	1,824	2,405	3,183	1,734	660	441	10,247
19.	Seer fish	292	251	36	68	162	81	890
20.	Tunnies	118	586	306	438	1,615	600	3,663
21.	<i>Sphyraena</i>	11	20	59	117	39	20	266
22.	<i>Mugil</i>	—	—	—	—	—	1	1
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	178	461	770	416	870	1,378	4,073
25. a)	Penaeid prawns	872	805	3,393	1,575	4,449	5,636	16,730
b)	Non-penaeid prawns	23	9	91	49	19	17	208
c)	Lobsters	1	2	—	1	—	—	4
d)	Other crustaceans	511	100	287	107	46	8	1,059
26.	Cephalopods	130	491	85	10	101	44	861
27.	Miscellaneous	1,779	1,167	1,317	1,549	2,818	1,568	10,198
<b>Total</b>		<b>20,023</b>	<b>17,149</b>	<b>21,710</b>	<b>15,564</b>	<b>21,519</b>	<b>18,948</b>	<b>114,913</b>

**Table 9** Composition of marine fish landings in Karnataka for the period January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branches	103	344	88	353	108	7	1,003
2.	Eels	—	3	—	—	—	—	3
3.	Cat fishes	239	363	69	262	7	11	951
4.	<i>Chirocentrus</i>	29	37	5	5	23	2	101
5. a)	Oil sardines	4,164	2,305	3,920	1,560	190	4	12,143
b)	Other sardines	—	6	13	1,331	7	1	1,358
c)	<i>Hilsa ilisha</i>	—	—	8	—	—	—	8
d)	Other <i>Hilsa</i>	—	6	—	2	—	—	8
e)	<i>Anchoviella</i>	—	37	19	1	1	—	58
f)	<i>Thrissoles</i>	2	1	13	4	18	5	43
g)	Other clupeids	12	14	22	23	17	6	94
6. a)	<i>Harpodon nehereus</i>	—	2	—	—	—	—	2
b)	<i>Saurida &amp; Saurus</i>	1	—	—	71	12	—	84
7.	<i>Hemirhamphus &amp; Belone</i>	1	2	10	8	—	—	21
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	14	2	1	86	14	—	117
10.	Red mullets	—	1	1	2	2	—	6
11.	Poly-nemids	—	—	—	1	2	—	3
12.	Sciaenids	21	104	69	426	48	47	715
13.	Ribbon fish	—	53	20	95	11	5	184
14. a)	<i>Caranx</i>	1	105	16	14	5	6	147
b)	<i>Chorinemus</i>	2	3	—	2	5	—	12
c)	<i>Trachynotus</i>	—	3	—	—	—	—	3
d)	Other carangids	—	—	—	22	—	1	23
e)	<i>Coryphaena</i>	—	—	—	—	—	—	—
f)	<i>Elacate</i>	—	52	—	—	—	—	52
15. a)	<i>Leiognathus</i>	13	60	13	291	16	49	442
b)	<i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	4	2	9	59	5	1	80
17.	Pomfrets	1,179	106	28	42	1	3	1,359
18.	Mackerel	3,246	1,285	827	622	24	4	6,008
19.	Seer fish	74	311	30	18	16	1	450
20.	Tunnies	—	—	—	32	—	—	32
21.	<i>Sphyræna</i>	—	—	—	—	—	—	—
22.	<i>Mugil</i>	—	1	—	—	—	—	1
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	1	24	29	261	23	3	341
25. a)	Penaeid prawns	2,224	791	497	1,812	235	99	5,658
b)	Non-penaeid prawns	—	6	—	—	—	—	6
c)	Lobsters	—	6	7	2	17	4	36
d)	Other crustaceans	20	325	58	1,282	2	3	1,690
26.	Cephalopods	1	34	2	—	—	—	37
27.	Miscellaneous	3,047	2,398	2,493	4,480	1,290	31	13,739
Total		14,398	8,792	8,267	13,169	2,099	293	47,018

**Table 10** Composition of marine fish landings in Goa during January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branches	115	27	9	5	2	—	158
2.	Eels	—	—	11	44	—	—	55
3.	Cat fishes	172	141	53	64	21	—	451
4.	<i>Chirocentrus</i>	17	5	3	3	—	—	28
5. a)	Oil sardines	41	15	2	—	—	—	58
b)	Other sardines	537	85	44	87	17	—	770
c)	<i>Hilsa ilisha</i>	—	—	—	—	—	—	—
d)	Other <i>Hilsa</i>	—	—	—	—	—	—	—
e)	<i>Anchoviella</i>	—	—	—	—	—	—	—
f)	<i>Thrissoles</i>	11	7	4	13	7	2	44
g)	Other clupeids	15	—	25	46	19	2	107
6. a)	<i>Harpodon nehereus</i>	—	—	—	—	—	—	—
b)	<i>Saurida &amp; Saurus</i>	62	7	49	11	—	—	129
7.	<i>Hemirhamphus &amp; Belone</i>	—	—	—	17	1	—	18
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	85	27	95	16	8	—	231
10.	Red mullets	—	—	—	—	—	—	—
11.	Poly-nemids	1	—	—	—	—	—	1
12.	Sciaenids	237	73	161	104	13	—	588
13.	Ribbon fish	118	39	72	102	18	—	349
14. a)	<i>Caranx</i>	390	10	4	34	5	—	443
b)	<i>Chorinemus</i>	4	—	—	—	—	—	4
c)	<i>Trachynotus</i>	—	—	—	—	—	—	—
d)	Other carangids	—	—	—	—	—	—	—
e)	<i>Coryphaena</i>	—	—	—	—	—	—	—
f)	<i>Elacate</i>	—	—	—	—	—	—	—
15. a)	<i>Leiognathus</i>	117	10	14	5	38	—	184
b)	<i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	106	38	17	55	15	—	231
17.	Pomfrets	12	4	8	—	1	—	25
18.	Mackerel	26	—	1	—	—	—	27
19.	Seer fish	7	43	1	7	1	—	59
20.	Tunnies	—	6	—	—	—	—	6
21.	<i>Sphyræna</i>	—	—	—	—	—	—	—
22.	<i>Mugil</i>	10	1	—	—	—	—	11
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	57	21	28	72	22	—	200
25. a)	Penaeid prawns	206	79	328	225	88	3	929
b)	Non-penaeid prawns	—	—	—	—	—	—	—
c)	Lobsters	1	—	2	4	1	—	8
d)	Other crustaceans	96	15	71	127	22	1	332
26.	Cephalopods	14	4	9	7	—	—	34
27.	Miscellaneous	54	22	76	119	26	7	304
Total		2,511	679	1,087	1,167	325	15	5,784



**Table 11** Composition of marine fish landings in Maharashtra during the period January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	Mar.	April	May	June	Total
1.	Elasmo-branches	409	699	412	960	1,716	88	4,284
2.	Eels	193	606	285	734	777	11	2,606
3.	Cat fishes	1,252	1,045	1,399	1,062	1,430	142	6,330
4.	<i>Chirocentrus</i>	627	266	154	167	39	—	1,253
5.	a) Oil sardines	—	—	—	—	—	—	—
	b) Other sardines	151	12	120	27	18	1	329
	c) <i>Hilsa ilisha</i>	802	37	—	1	5	—	845
	d) Other <i>Hilsa</i>	14	28	42	44	14	—	142
	e) <i>Anchoviella</i>	—	—	—	15	218	8	241
	f) <i>Thrissocles</i>	302	103	65	201	178	2	851
	g) Other clupeids	874	1,245	706	745	1,662	227	5,459
6.	a) <i>Harpodon nehereus</i>	1,420	1,039	712	3,387	3,591	46	10,195
	b) <i>Saurida &amp; Saurus</i>	—	238	171	326	541	—	1,276
7.	<i>Hemirhamphus &amp; Belone</i>	—	—	—	3	—	4	7
8.	Flying fish	—	—	—	1	—	—	1
9.	Perches	187	147	747	992	1,567	27	3,667
10.	Red mullets	235	49	1	—	241	—	526
11.	Poly-nemids	89	104	316	242	67	4	822
12.	Sciaenids	1,510	1,511	967	1,057	1,801	200	7,046
13.	Ribbon fish	942	484	664	969	1,539	143	4,741
14.	a) <i>Caranx</i>	34	46	144	123	142	9	498
	b) <i>Chorinemus</i>	16	—	9	4	25	—	54
	c) <i>Trachynotus</i>	—	—	—	—	—	—	—
	d) Other carangids	—	—	10	—	—	—	10
	e) <i>Coryphaena</i>	—	—	—	—	—	—	—
	f) <i>Elacate</i>	—	—	—	—	—	—	—
15.	a) <i>Leiognathus</i>	17	30	16	14	28	1	106
	b) <i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	11	45	132	182	85	1	456
17.	Pomfrets	1,011	611	547	584	729	31	3,513
18.	Mackerel	7	18	45	15	7	2	94
19.	Seer fish	127	49	127	73	61	1	438
20.	Tunnies	—	211	168	68	—	—	447
21.	<i>Sphyraena</i>	1	86	—	4	1	3	95
22.	<i>Mugil</i>	1	1	2	3	7	23	37
23.	<i>Bregmaceros</i>	—	19	—	—	—	—	19
24.	Soles	1	513	28	108	297	—	947
25.	a) Penaeid prawns	1,626	1,606	1,922	2,965	3,860	278	12,257
	b) Non-penaeid prawns	2,769	5,442	2,251	3,661	10,520	358	25,001
	c) Lobsters	10	143	7	23	18	8	209
	d) Other crustaceans	24	—	3	39	6	6	78
26.	Cephalopods	32	124	171	949	938	—	2,214
27.	Miscellaneous	679	1,041	950	886	1,265	151	4,972
<b>Total</b>		<b>15,373</b>	<b>17,598</b>	<b>13,293</b>	<b>20,634</b>	<b>33,393</b>	<b>1,775</b>	<b>1,02,066</b>

**Table 12** Composition of marine fish landings in Gujarat during January to June 1978 (in tonnes)

Sl. No.	Name of fish	Janu.	Feb.	March	April	May	June	Total
1.	Elasmo-branches	4,486	709	1,287	3,013	980	79	10,554
2.	Eels	501	169	313	261	8	1	1,253
3.	Cat fishes	919	230	302	383	359	266	2,459
4.	<i>Chirocentrus</i>	676	228	258	309	54	—	1,525
5.	a) Oil sardines	—	—	—	—	—	—	—
	b) Other sardines	—	—	—	—	—	—	—
	c) <i>Hilsa ilisha</i>	—	—	—	11	2	1	14
	d) Other <i>Hilsa</i>	1,423	402	601	754	350	17	3,547
	e) <i>Anchoviella</i>	—	—	—	—	—	—	—
	f) <i>Thrissocles</i>	1	1	89	239	57	6	393
	g) Other clupeids	1,839	937	489	598	52	36	3,951
6.	a) <i>Harpodon nehereus</i>	3,596	769	646	1,029	858	7	6,905
	b) <i>Saurida &amp; Saurus</i>	209	—	2	—	—	48	259
7.	<i>Hemirhamphus &amp; Belone</i>	—	—	—	1	—	—	1
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	1,098	653	797	822	5	20	3,395
10.	Red mullets	2	—	—	—	—	—	2
11.	Poly-nemids	4	8	9	17	12	5	55
12.	Sciaenids	7,347	1,577	1,695	8,808	1,228	28	20,683
13.	Ribbon fish	1,426	762	1,122	2,651	283	—	6,244
14.	a) <i>Caranx</i>	59	7	—	24	164	2	256
	b) <i>Chorinemus</i>	82	2	2	19	—	1	106
	c) <i>Trachynotus</i>	—	—	—	—	—	—	—
	d) Other carangids	—	—	—	—	—	—	—
	e) <i>Coryphaena</i>	—	—	—	—	—	—	—
	f) <i>Elacate</i>	—	—	—	—	—	—	—
15.	a) <i>Leiognathus</i>	—	—	—	—	—	—	—
	b) <i>Gazza</i>	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	4,098	942	847	1,225	—	—	7,112
17.	Pomfrets	674	393	342	1,226	1,185	139	3,959
18.	Mackerel	—	—	—	—	—	—	—
19.	Seer fish	770	363	219	204	36	—	1,592
20.	Tunnies	124	10	72	98	3	—	307
21.	<i>Sphyraena</i>	—	—	—	—	—	—	—
22.	<i>Mugil</i>	93	102	102	40	6	101	444
23.	<i>Bregmaceros</i>	3	—	—	—	—	—	3
24.	Soles	257	41	—	12	—	—	310
25.	a) Penaeid prawns	1,298	187	154	275	398	8	2,320
	b) Non-penaeid prawns	157	98	139	235	94	29	752
	c) Lobsters	232	74	65	67	28	—	466
	d) Other crustaceans	25	86	169	29	—	41	350
26.	Cephalopods	1,310	490	341	892	371	—	3,404
27.	Miscellaneous	1,961	586	1,544	3,612	2,848	75	10,626
<b>Total</b>		<b>34,670</b>	<b>9,826</b>	<b>11,606</b>	<b>26,854</b>	<b>9,381</b>	<b>910</b>	<b>93,247</b>

of cat fishes, *Hilsa ilisha*, sciaenids, *Leiognathus* and penaeid prawns, however, were comparatively poor. The month of March showed the maximum catch (Table 4).

#### Andhra Pradesh

The total catch in Andhra during the period January to June 1978 showed a decline of about 18,000 tonnes. A significant fall in the landings of cat fishes, lesser sardines, *Anchoviella*, sciaenids, ribbon fish, *Leiognathus*, pomfrets, penaeid prawns and non-penaeid prawns was noticed during the period. A substantial increase in the catch of mackerel, elasmobranchs, eels and polynemids was, however, recorded (Table 5). January and February had the maximum catch.

#### Tamil Nadu

In Tamil Nadu, the total marine fish landings showed a significant increase of about 29,500 tonnes. The successful fisheries of elasmobranchs, lesser sardines, *Hilsa* spp, *Thrissoctes*, perches, red mullets, sciaenids, ribbon fish, *Leiognathus*, pomfrets, seer fish and prawns accounted for the significant higher total landings. But the catch of crustaceans like crabs, *Sphyræna*, tunnies, mackerel, cat fishes and *Anchoviella* was comparatively poor (Table 6). February had the maximum catch and the minimum was in May.

#### Pondicherry

A decrease of 23 tonnes in the total landings was witnessed in Pondicherry during the first half of 1978. While the catch of *Anchoviella*, perches, sciaenids, and penaeid prawns was comparatively better, elasmobranchs, lesser sardines, *Thrissoctes*, ribbon fish, *Leiognathus* and mackerel recorded poor landings. The catch particulars for the period January to June 1978 are shown in Table 7.

#### Kerala

In Kerala, the total catch showed a slight increase of about 900 tonnes during January to June 1978 as compared to the corresponding period in 1977. A significant increase in the landings of mackerel, penaeid prawns, soles, elasmobranchs, cat fishes, *Anchoviella*, sciaenids, ribbon fish and pomfrets, was noticed. The catch of oil sardine, lesser sardines, perches and silver bellies, however, was comparatively poor (Table 8). The catch was maintained at fairly steady level in most of the months.

#### Karnataka

A substantial increase of about 19,000 tonnes in the total landings was recorded in Karnataka during the first half of 1978 as compared to the corresponding half of 1977. While the landings of oil sardine, lesser sardines, pomfrets, mackerel, and penaeid prawns were comparatively higher, cat fishes, perches, sciaenids, silver bellies and soles recorded poor landings (Table 9). January and April showed fairly high landings.

#### Goa

The total marine fish production in Goa showed a marginal increase of about 160 tonnes during the period January to June 1978 as compared to the corresponding period in 1977. The landings of oil sardines, lesser sardines, *Caranx* and penaeid prawns showed increasing trend. A poor fishery was noticed in respect of elasmobranchs, cat fishes, perches, sciaenids, and pomfrets. Table 10 shows the details of landings in Goa for the first half of 1978. In Goa also maximum catch was in January.

#### Maharashtra

In Maharashtra, the total landings declined to 102,066 tonnes from 167,487 tonnes recorded in the first half of 1977, showing a deficit of about 65,400 tonnes. The landings of *Harpodon nehereus*, penaeid prawns, non-penaeid prawns, sciaenids, pomfrets, mackerel and seer fish showed a downward trend. A substantial increase in the catch of elasmobranchs, eels, cat fishes, perches, red mullets and ribbon fish was also noticed during the period January to June 1978. The catch details are shown in Table 11. The landings show a steady increase up to May when the maximum is recorded and in June the catch was very poor.

#### Gujarat

In Gujarat, the total production showed an increase of about 3,300 tonnes mainly due to the successful fisheries of sciaenids, perches, seer fish, non-penaeid prawns and lobsters. The landings of cat fishes, *Chirocentrus*, *Hilsa* spp., *Harpodon nehereus*, red mullets, ribbon fish, pomfrets, penaeid prawns and other crustaceans, however, showed a declining trend. Table 12 shows the catch particulars in Gujarat for the period January to June, 1978. While the bulk of the catch was in January and April, it was very poor in June.

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