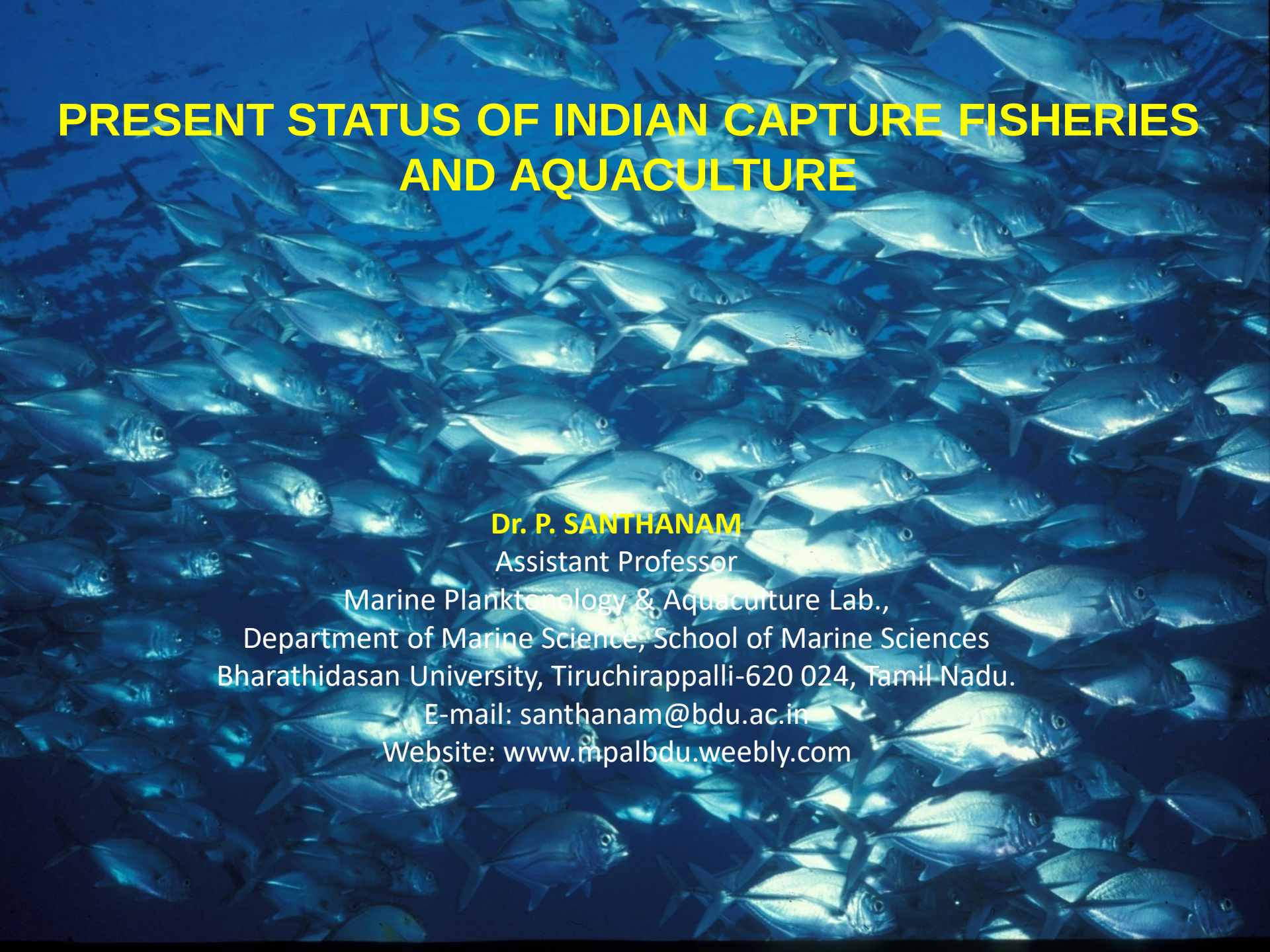




PRESENT STATUS OF INDIAN CAPTURE FISHERIES AND AQUACULTURE

Dr. P. SANTHANAM

Assistant Professor

Marine Planktonology & Aquaculture Lab.,

Department of Marine Science, School of Marine Sciences

Bharathidasan University, Tiruchirappalli-620 024, Tamil Nadu.

E-mail: santhanam@bdu.ac.in

Website: www.mpalbdu.weebly.com

TABLE A-1 FISH PRODUCTION IN INDIA FOR THE PERIOD - 1950-51 TO 2013-14 (P)

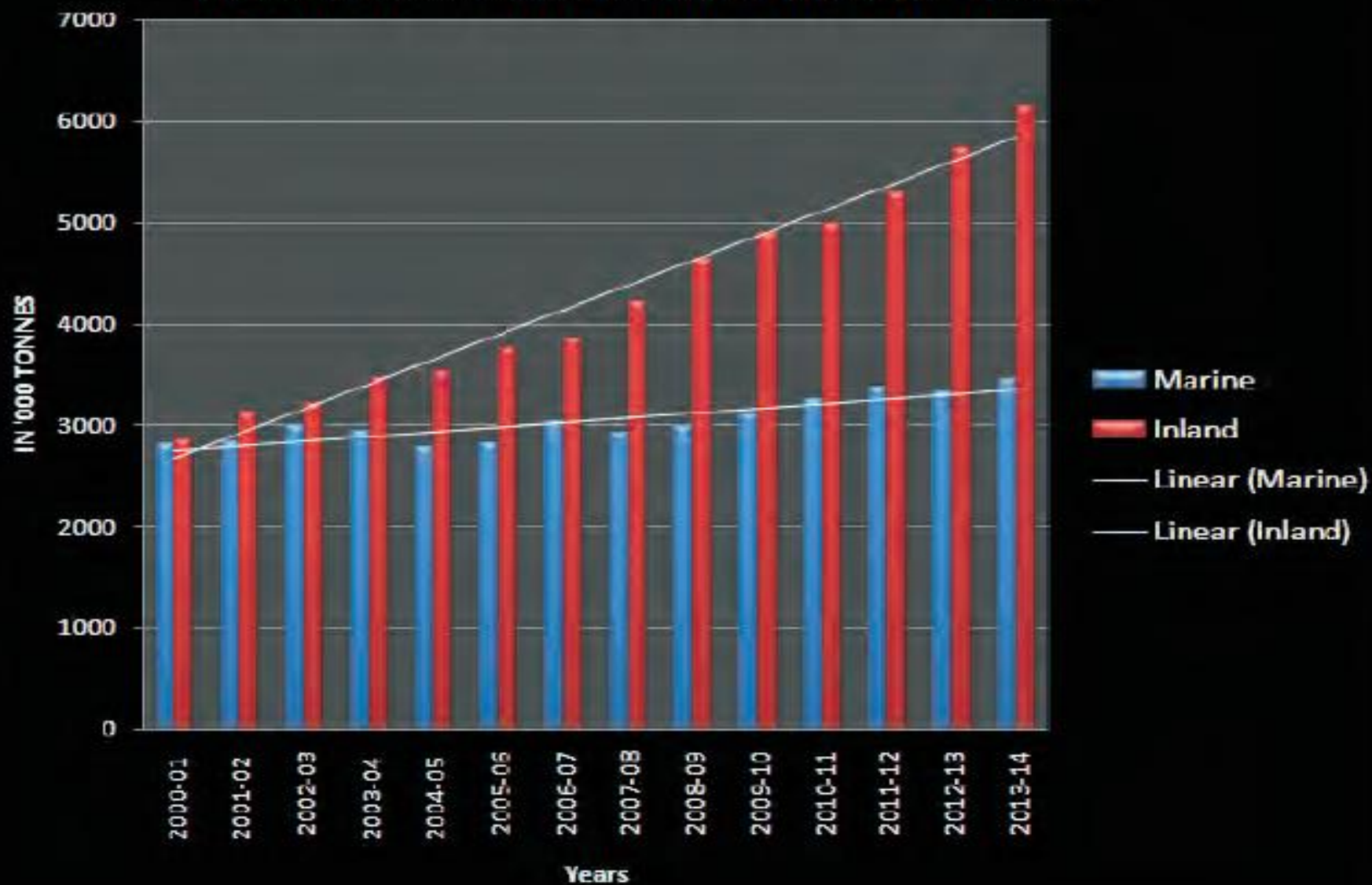
Year	Fish Production ('000 tonnes)			Average Annual Growth Rate (Per cent)		
	Marine	Inland	Total	Marine	Inland	Total
1950-51	534	218	752	-	-	-
1955-56	596	243	839	2.32	2.29	2.31
1960-61	880	280	1160	9.53	3.05	7.65
1965-66	824	507	1331	-1.27	16.21	2.95
1970-71	1086	670	1756	6.36	6.43	6.39
1973-74	1210	748	1958	3.81	3.88	3.83
1978-79	1490	816	2306	4.63	1.82	3.55
1979-80	1492	848	2340	0.13	3.92	1.47
1980-81	1555	887	2442	4.22	4.60	4.36
1981-82	1445	999	2444	-7.07	12.63	0.08
1982-83	1427	940	2367	-1.25	-5.91	-3.15
1983-84	1519	987	2506	6.45	5.00	5.87
1984-85	1698	1103	2801	11.78	11.75	11.77
1985-86	1716	1160	2876	1.06	5.17	2.68
1986-87	1713	1229	2942	-0.17	5.95	2.29
1987-88	1658	1301	2959	-3.21	5.86	0.58
1988-89	1817	1335	3152	9.59	2.61	6.52
1989-90	2275	1402	3677	25.21	5.02	16.66
1990-91	2300	1536	3836	1.10	9.56	4.32
1991-92	2447	1710	4157	6.39	11.33	8.37
1992-93	2576	1789	4365	5.27	4.62	5.00
1993-94	2649	1995	4644	2.83	11.51	6.39
1994-95	2692	2097	4789	1.62	5.11	3.12
1995-96	2707	2242	4949	0.56	6.91	3.34
1996-97	2967	2381	5348	9.60	6.20	8.06
1997-98	2950	2438	5388	-0.57	2.39	0.75
1998-99	2696	2602	5298	-8.61	6.73	-1.67
1999-00	2852	2823	5675	5.79	8.49	7.12
2000-01	2811	2845	5656	-1.44	0.78	-0.33
2001-02	2830	3126	5956	0.68	9.88	5.30
2002-03	2990	3210	6200	5.65	2.69	4.10
2003-04	2941	3458	6399	-1.64	7.73	3.21
2004-05	2779	3526	6305	-5.51	1.97	-1.47
2005-06	2816	3756	6572	1.33	6.52	4.23
2006-07	3024	3845	6869	7.39	2.37	4.52
2007-08	2920	4207	7127	-3.44	9.41	3.76
2008-09	2978	4638	7616	1.99	10.24	6.86
2009-10	3104	4894	7998	4.23	5.52	5.02
2010-11	3250	4981	8231	4.70	1.78	2.91
2011-12	3372	5294	8666	3.75	6.28	5.28
2012-13	3321	5719	9040	-1.51	8.03	4.32
2013-14(P)	3443	6136	9579	3.67	7.29	5.96

Source: State Governments / Union Territory Administrations (P) : Provisional

i. Central Marine Fisheries Research Institute, Kochi for the period up to 1970-71

ii. State Governments / Union Territory Administrations since 1971-72.

FISH PRODUCTION DURING RECENT YEARS



Percentage contribution of inland and marine fisheries

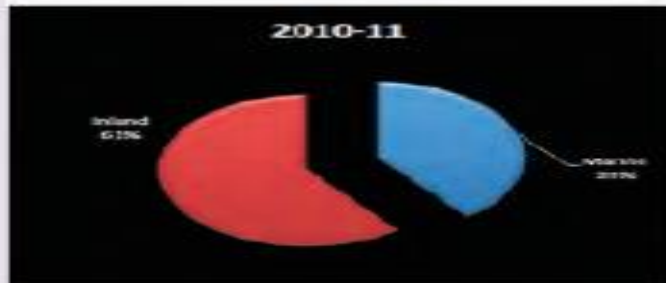
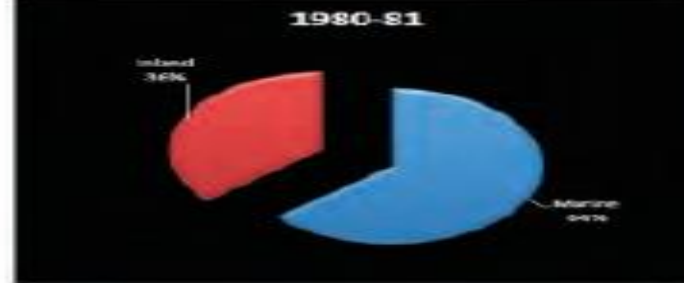
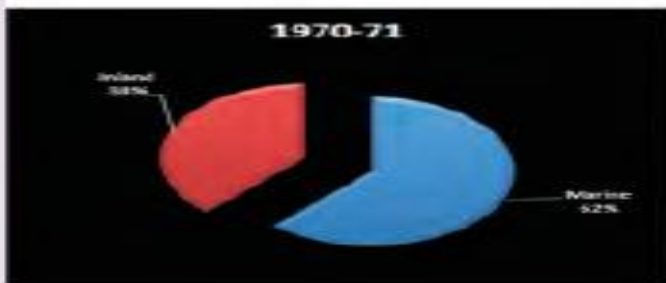
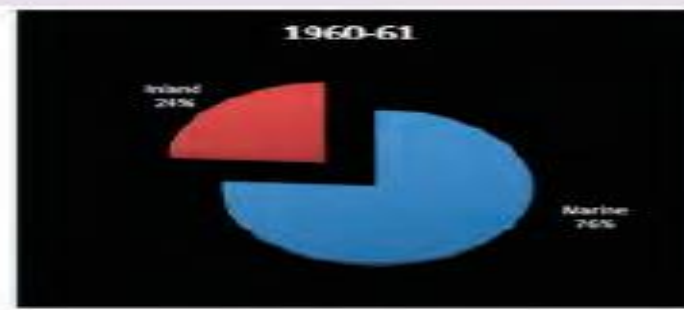
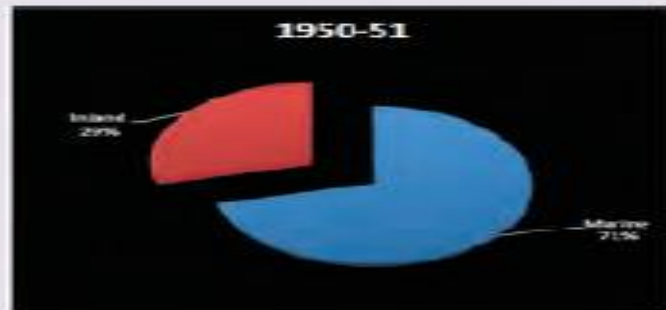


TABLE A-2**FISH PRODUCTION BY STATES / UNION TERRITORIES,
(2000-01 TO 2013-14 (P))**

(In '000 tonnes)

Sl. No.	State/Union Territory	2000-01	2001-02	2002-03	2003-04	2004-05
1	Andhra Pradesh	589.69	676.11	827.90	944.64	853.05
2	Arunachal Pradesh	2.50	2.60	2.60	2.65	2.70
3	Assam	158.62	161.45	165.52	181.00	186.31
4	Bihar	222.16	240.40	261.00	266.49	267.51
5	Chhattisgarh	43.39	95.76	99.80	111.05	120.07
6	Goa	71.57	69.92	76.53	87.36	99.04
7	Gujarat	660.74	701.60	777.91	654.62	635.21
8	Haryana	33.04	34.57	35.18	39.13	42.05
9	Himachal Pradesh	7.02	7.22	7.24	6.53	6.90
10	Jammu & Kashmir	17.51	18.85	19.75	19.75	19.10
11	Jharkhand	42.6	101.00	45.38	75.38	22.00
12	Karnataka	333.37	249.61	266.42	257.00	251.23
13	Kerala	651.81	671.82	678.32	684.7	678.31
14	Madhya Pradesh	48.84	47.46	42.17	50.82	62.06
15	Maharashtra	526.10	537.05	514.10	545.13	548.02
16	Manipur	16.05	16.45	16.60	17.60	17.80
17	Meghalaya	6.18	4.97	5.37	5.15	5.64
18	Mizoram	2.86	3.15	3.25	3.38	3.68
19	Nagaland	5.50	5.20	5.50	5.56	4.90
20	Odisha	259.64	281.95	287.53	306.9	315.59
21	Punjab	52.00	58.00	66.00	83.65	77.70
22	Rajasthan	12.12	14.27	25.60	14.3	16.39
23	Sikkim	0.14	0.14	0.14	0.14	0.14
24	Tamil Nadu	481.42	485.00	473.50	474.14	459.43
25	Tripura	29.42	29.45	29.52	17.98	19.84
26	Uttarakhand	9.07	6.42	2.55	2.56	2.57
27	Uttar Pradesh	208.29	225.37	249.84	267.00	277.07
28	West Bengal	1060.23	1100.10	1120.00	1169.60	1215.00
29	A and N Islands	27.68	27.08	28.30	31.15	32.68
30	Chandigarh	0.08	0.04	0.08	0.08	0.08
31	Dadra and Nagar Haveli	0.04	0.05	0.05	0.05	0.05
32	Daman and Diu	16.38	21.52	11.26	13.77	12.51
33	Delhi	3.98	3.20	2.25	2.10	1.41
34	Lakshadweep	12.00	13.65	7.50	10.03	11.96
35	Puducherry	43.30	44.50	45.02	48.00	36.75
	INDIA	5655.34	5955.93	6199.68	6399.39	6304.75

Source : Director of Fisheries State Govt. / UTs Administration
(P): Provisional

TABLE A-2

FIS
(20

TABLE A-2

FISH PRODUCTION BY STATES / UNION TERRITORIES,
(2000-01 TO 2013-14 (P))

(In '000 tonnes)

Sl. No.	State/Union Territory	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14 (P)
1	Andhra Pradesh	891.09	856.93	1010.09	1252.78	1305.86	1368.20	1603.2	1808.08	2018.42
2	Arunachal Pradesh	2.75	2.77	2.83	2.88	2.65	3.15	3.30	3.71	0.61
3	Assam	188.01	181.48	190.32	206.15	218.82	227.24	228.62	254.27	266.70
4	Bihar	279.53	267.04	319.10	300.65	297.40	299.91	344.47	400.14	432.30
5	Chhattisgarh	131.75	137.75	139.37	158.70	174.25	228.21	250.69	255.61	284.96
6	Goa	104.95	102.40	33.43	86.21	85.36	93.27	89.96	77.88	114.06
7	Gujarat	733.82	747.33	721.91	765.90	771.51	774.90	783.72	788.49	793.42
8	Haryana	48.20	60.08	67.24	76.29	100.46	96.19	106.00	111.48	116.90
9	Himachal Pradesh	7.30	6.89	7.85	7.79	7.85	7.38	8.04	8.56	9.83
10	Jammu & Kashmir	19.15	19.20	17.33	19.27	19.30	19.70	19.85	19.95	19.98
11	Jharkhand	34.27	34.27	67.89	75.80	70.50	71.89	91.68	96.60	104.82
12	Karnataka	297.57	292.46	297.67	361.85	420.06	526.58	546.44	525.57	555.31
13	Kerala	636.89	677.63	667.33	685.99	698.86	681.61	693.21	679.74	708.65
14	Madhya Pradesh	61.07	65.04	63.89	68.47	66.12	56.45	75.41	85.16	96.26
15	Maharashtra	580.54	595.94	556.45	523.10	550.36	595.25	578.79	586.37	602.68
16	Manipur	18.22	18.61	18.60	18.80	19.20	20.20	22.22	24.50	28.54
17	Meghalaya	4.12	5.49	4.00	3.96	4.33	4.56	4.77	5.42	5.75
18	Mizoram	3.75	3.76	3.76	2.89	3.25	2.90	2.93	5.43	5.94
19	Nagaland	5.50	5.80	5.80	6.18	6.36	6.59	6.84	7.13	7.47
20	Odisha	325.45	342.04	349.48	374.82	382.55	386.19	381.83	410.14	413.79
21	Punjab	85.64	86.70	78.73	86.21	122.86	97.04	97.62	99.13	104.02
22	Rajasthan	18.50	22.20	25.70	24.10	26.91	28.20	47.85	55.16	35.10
23	Sikkim	0.15	0.15	0.18	0.17	0.17	0.18	0.28	0.49	0.42
24	Tamil Nadu	463.03	542.28	559.36	534.17	582.93	614.81	611.49	620.40	624.30
25	Tripura	23.87	28.63	36.25	36.00	42.28	49.23	53.33	57.46	61.95
26	Uttarakhand	2.79	3.00	3.09	3.16	3.49	3.82	3.83	3.85	3.89
27	Uttar Pradesh	289.58	306.73	325.95	349.27	392.93	417.48	429.72	449.75	464.48
28	West Bengal	1250.00	1359.10	1447.26	1484.00	1517.01	1443.26	1472.05	1490.01	1580.65
29	A and N Islands	12.10	28.69	28.69	32.49	33.16	33.92	35.26	36.62	36.95
30	Chandigarh	0.09	0.17	0.21	0.24	0.24	0.24	0.09	0.05	0.11
31	Dadra and Nagar Haveli	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
32	Daman and Diu	17.79	16.41	26.36	14.14	15.88	16.97	17.43	19.01	19.01
33	Delhi	0.70	0.61	0.61	0.72	0.71	0.82	0.74	0.69	0.88
34	Lakshadweep	11.96	11.75	11.04	12.59	12.37	12.37	12.37	12.37	18.72
35	Puducherry	21.45	39.67	39.01	40.30	41.95	41.95	42.40	41.07	42.08
INDIA		6571.63	6869.05	7126.83	7616.09	7997.99	8230.71	8666.71	9040.34	9578.97

Source : Director of Fisheries Stat (P): Provisional
(P): Provisional

TABLE A-3**MARINE FISH PRODUCTION BY STATES /
UNION TERRITORIES, (2000-01 TO 2013-14 (P))**

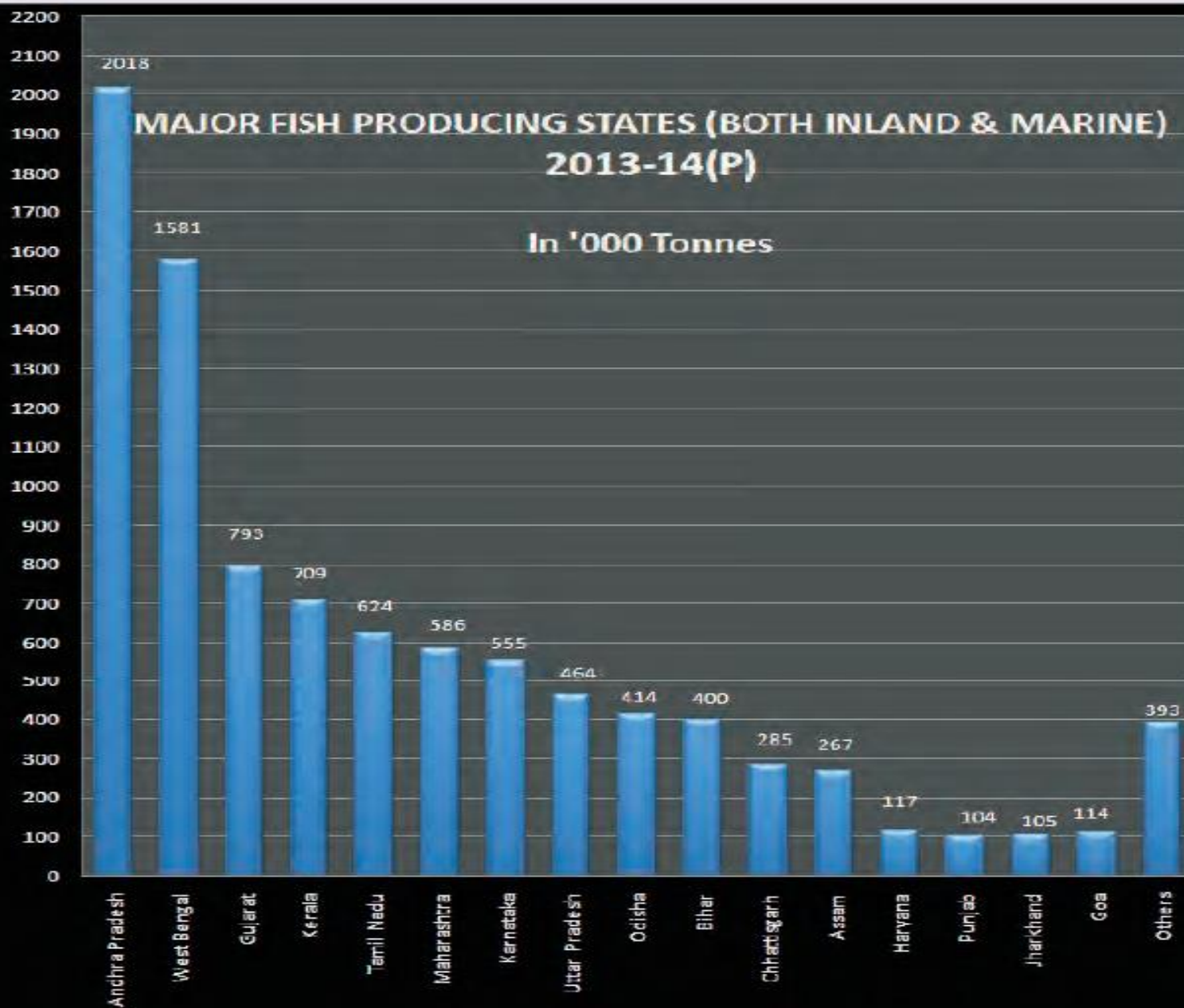
(In '000 tonnes)

Sl. No.	State/Union Territory	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
1	Andhra Pradesh	182.50	204.94	248.50	263.93	210.73	218.84
2	Goa	67.33	66.55	72.29	83.76	94.81	100.91
3	Gujarat	620.47	650.83	743.64	609.14	584.78	663.88
4	Karnataka	205.90	128.42	180.16	187.00	171.23	176.97
5	Kerala	566.57	593.78	603.29	608.52	601.86	558.91
6	Maharashtra	402.84	414.27	386.86	420.01	417.77	445.34
7	Odisha	121.09	113.89	115.01	116.88	121.93	122.21
8	Tamil Nadu	367.86	371.00	371.50	373.00	307.69	307.99
9	West Bengal	181.00	184.30	181.50	181.60	179.50	160.00
10	A & N Islands	27.62	27.02	28.23	31.06	32.60	12.05
11	Daman & Diu	16.38	21.52	11.26	13.77	12.51	17.72
12	Lakshadweep	12.00	13.65	7.50	10.03	11.96	11.96
13	Puducherry	38.95	39.60	40.11	42.80	31.50	19.27
	INDIA	2810.50	2829.77	2989.85	2941.50	2778.87	2816.05

TABLE A-3**TABLE A-3****MARINE FISH PRODUCTION BY STATES /
UNION TERRITORIES, (2000-01 TO 2013-14 (P))**

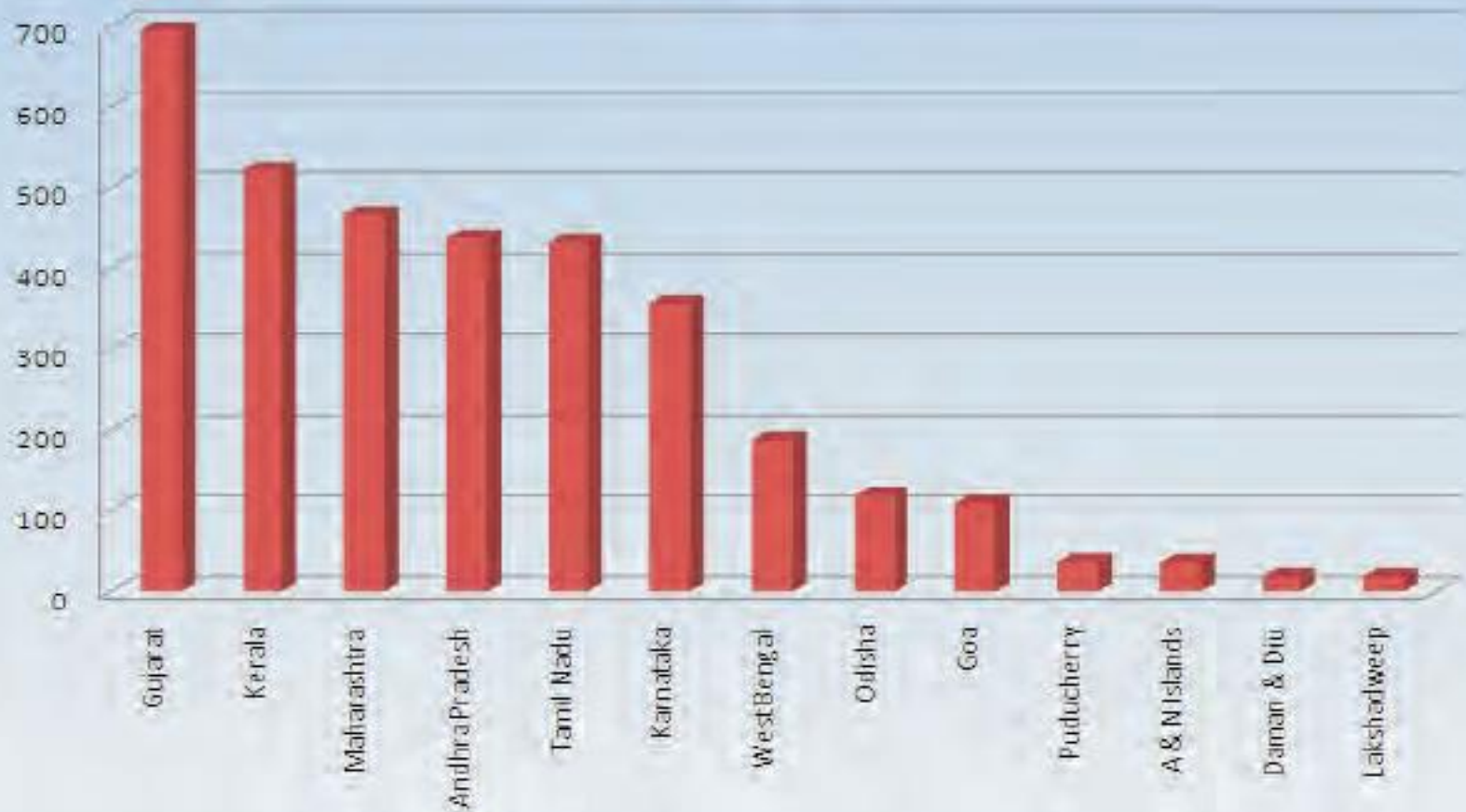
(In '000 tonnes)

Sl. No.	State/Union Territory	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14 (P)
1	Andhra Pradesh	240.20	254.89	291.16	293.15	288.64	433.28	414.35	438.25
2	Goa	98.97	32.26	83.14	81.93	89.96	86.21	73.71	109.57
3	Gujarat	670.51	644.53	623.05	687.44	688.93	692.49	693.56	695.58
4	Karnataka	168.54	175.57	218.14	248.73	340.57	347.38	357.32	357.36
5	Kerala	598.06	586.29	583.15	570.01	560.40	553.18	530.64	522.31
6	Maharashtra	464.09	419.82	395.96	415.77	446.70	433.68	448.91	467.46
7	Odisha	128.14	130.77	135.49	129.33	133.48	114.30	118.31	120.02
8	Tamil Nadu	387.25	393.27	365.28	401.13	404.61	426.73	428.44	432.27
9	West Bengal	178.10	182.74	189.29	179.00	197.11	182.02	152.35	188.24
10	A & N Islands	28.60	28.60	32.33	33.00	33.74	35.07	36.43	36.75
11	Daman & Diu	16.35	26.28	14.06	15.88	16.85	17.43	18.78	18.78
12	Lakshadweep	11.75	11.04	12.59	12.37	12.37	12.37	12.37	18.72
13	Puducherry	33.61	33.44	34.55	36.10	36.10	37.61	35.61	37.81
	INDIA	3024.17	2919.50	2978.19	3103.84	3249.46	3371.75	3320.78	3443.11



MARINE FISH PRODUCING STATES (in '000 tonnes)

■ 2013-14 (P)



MAJOR INLAND FISH PRODUCING STATES

■ 2013-14(P)



TABLE A-4**INLAND FISH PRODUCTION BY STATES/
UNION TERRITORIES, (2000-01 TO 2013-14 (P))**

(In '000 tonnes)

Sl. No.	State/UTs	2000-01	2001-02	2002-03	2003-04	2004-05
1	Andhra Pradesh	407.19	471.17	579.4	680.71	642.32
2	Arunachal Pradesh	2.50	2.60	2.60	2.65	2.70
3	Assam	158.62	161.45	165.52	181.00	186.32
4	Bihar	222.16	240.40	261.00	266.49	267.51
5	Chhattisgarh	43.39	95.76	99.80	111.05	120.07
6	Goa	4.24	3.37	4.25	3.60	4.23
7	Gujarat	40.26	50.77	34.27	45.48	50.43
8	Haryana	33.04	34.57	35.18	39.13	42.05
9	Himachal Pradesh	7.02	7.22	7.24	6.53	6.90
10	Jammu & Kashmir	17.51	18.85	19.75	19.75	19.10
11	Jharkhand	42.60	101.00	45.38	75.38	22.00
12	Karnataka	127.47	121.20	86.26	70.00	80.00
13	Kerala	85.23	78.04	75.04	76.18	76.45
14	Madhya Pradesh	48.84	47.46	42.17	50.82	62.06
15	Maharashtra	123.27	122.79	127.24	125.12	130.25
16	Manipur	16.05	16.45	16.60	17.60	17.80
17	Meghalaya	6.18	4.97	5.37	5.15	5.64
18	Mizoram	2.86	3.15	3.25	3.38	3.68
19	Nagaland	5.50	5.20	5.50	5.56	4.90
20	Odisha	138.56	168.06	172.53	190.02	193.66
21	Punjab	52.00	58.00	66.00	83.65	77.70
22	Rajasthan	12.12	14.27	25.60	14.3	16.39
23	Sikkim	0.14	0.14	0.14	0.14	0.14
24	Tamil Nadu	113.56	114.00	102.00	101.14	151.73
25	Tripura	29.42	29.45	29.52	17.98	19.84
26	Uttarakhand	9.07	6.42	2.55	2.56	2.57
27	Uttar Pradesh	208.29	225.37	249.84	267.00	277.07
28	West Bengal	879.23	915.80	938.50	988.00	1035.50
29	A and N Islands	0.07	0.06	0.07	0.09	0.08
30	Chandigarh	0.08	0.04	0.08	0.08	0.08
31	Dadra and Nagar Haveli	0.04	0.05	0.05	0.05	0.05
32	Daman and Diu	0.00	0.00	0.00	0.00	0.00
33	Delhi	3.98	3.20	2.25	2.10	1.41
34	Lakshadweep	0.00	0.00	0.00	-	0.00
35	Puducherry	4.35	4.90	4.91	5.20	5.25
INDIA		2844.83	3126.18	3209.86	3457.89	3525.88

TABLE A-4

INL
UNI

TABLE A-4

INLAND FISH PRODUCTION BY STATES/
UNION TERRITORIES, (2000-01 TO 2013-14 (P))

(In '000 tonnes)

Sl. No.	State/UTs	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14 (P)
1	Andhra Pradesh	672.25	616.73	755.20	961.62	1012.71	1079.56	1169.89	1393.73	1580.17
2	Arunachal Pradesh	2.75	2.77	2.83	2.88	2.65	3.15	3.30	3.71	0.61
3	Assam	188.01	181.48	190.32	206.15	218.82	227.24	228.62	254.27	266.70
4	Bihar	279.53	267.04	319.10	300.65	297.40	299.91	344.47	400.14	432.30
5	Chhattisgarh	131.75	137.75	139.37	158.70	174.25	228.21	250.69	255.61	284.96
6	Goa	4.04	3.43	1.17	3.08	3.44	3.31	3.75	4.17	4.49
7	Gujarat	69.93	76.82	77.38	142.85	84.07	85.97	91.23	94.93	97.84
8	Haryana	48.20	60.08	67.24	76.28	100.46	96.19	106.00	111.48	116.90
9	Himachal Pradesh	7.30	6.89	7.85	7.79	7.85	7.38	8.05	8.56	9.83
10	Jammu & Kashmir	19.15	19.20	17.33	19.27	19.30	19.70	19.85	19.95	19.98
11	Jharkhand	34.27	34.27	67.89	75.80	70.50	71.89	91.68	96.60	104.82
12	Karnataka	120.60	123.92	122.12	143.72	171.33	186.01	199.05	168.24	197.95
13	Kerala	77.98	79.57	81.04	102.84	128.84	121.21	140.03	149.10	186.34
14	Madhya Pradesh	61.08	65.04	63.89	68.47	66.12	56.45	75.41	85.17	96.26
15	Maharashtra	135.20	131.85	136.63	127.14	134.59	148.55	145.11	137.46	135.22
16	Manipur	18.22	18.61	18.60	18.80	19.20	20.20	22.22	24.50	28.54
17	Meghalaya	4.12	5.49	4.00	3.96	4.33	4.56	4.77	5.42	5.75
18	Mizoram	3.75	3.76	3.76	2.89	3.25	2.90	2.93	5.43	5.94
19	Nagaland	5.50	5.80	5.80	6.17	6.36	6.58	6.84	7.13	7.47
20	Odisha	203.23	213.90	218.72	239.33	253.22	252.71	267.53	291.83	293.76
21	Punjab	85.64	86.70	78.73	86.21	122.86	97.04	97.62	99.13	104.02
22	Rajasthan	18.50	22.20	25.70	24.10	26.91	28.20	47.85	55.16	35.10
23	Sikkim	0.15	0.15	0.18	0.16	0.16	0.18	0.28	0.49	0.42
24	Tamil Nadu	155.04	155.04	166.09	168.88	181.80	210.20	184.75	191.96	192.03
25	Tripura	23.87	28.63	36.25	36.00	42.28	49.23	53.34	57.46	61.95
26	Uttarakhand	2.79	3.00	3.09	3.16	3.49	3.82	3.83	3.85	3.89
27	Uttar Pradesh	289.58	306.73	325.95	349.27	392.93	417.48	429.72	449.75	464.48
28	West Bengal	1090.00	1181.01	1264.53	1294.71	1338.00	1246.15	1290.03	1337.66	1392.40
29	A and N Islands	0.04	0.09	0.09	0.16	0.17	0.19	0.19	0.19	0.20
30	Chandigarh	0.09	0.17	0.21	0.24	0.24	0.24	0.09	0.05	0.11
31	Dadra and Nagar Haveli	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
32	Daman and Diu	0.07	0.00	0.00	0.08	0.00	0.12	0.00	0.23	0.23
33	Delhi	0.70	0.61	0.61	0.71	0.71	0.82	0.74	0.69	0.88
34	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Puducherry	2.18	6.06	5.57	5.75	5.85	5.85	4.79	5.46	4.27
	INDIA	3755.56	3844.84	4207.29	4637.87	4894.14	4981.25	5294.70	5719.56	6135.85

TABLE A-5.6**MARINE FISH LANDINGS BY SPECIES
COASTAL STATES AND UNION TERRITORIES, 2012**

(In tonnes)

Sl. No.	Species	REGION NO. 57- INDIAN OCEAN EAST						Total
		Andhra Pradesh	Odisha	Tamil Nadu	West Bengal	A & N Islands	Pudu-cherry	
1	Catfishes (Wallago attu, pangasius)							0
2	Hess Ilisha (Tenuosoma)	2758	2556		8510	314	33	14171
3	Flat Fish	3498	1535		0	39	1027	6099
4	Bregmaceros	233		2234	0	0	362	2829
5	Harpodon Neherus	1547	1345	0	9505	0	310	12707
6	Sea Catfishes	13782	5156	4468	16745	203	780	41134
7	Lizard Fishes	3414		1202	0	11	483	5110
8	Muraenox spp. (Eels)	3441	1540	0	109	0	177	5267
9	Lactarius (Parava)	826		202	0	524	461	2013
10	Lelognathus (Silver Bellies)	5717	2634	34285	93	3190	1261	47180
11	Sciaenidae (Croackers)	15252	7981	13663	17876	1014	551	56337
12	Upeneus spp. (Goat Fish)	4553	0	15275	133	13	915	20889
13	Lates Sp. Lutjanus (Perches)	12496	5142	27844	10248	4092	1424	61246
14	Hemirhamphus spp. (Half Beaks)	1235		2621	110	244	309	4519
15	Exocoetus (Flying Fish)	187		4210	0	0	489	4886
16	Sphyrna spp. (Barracudas)	1027		3417	0	2916	678	8038
17	Mugilidae (Mullet)	13538	4337	2750	9435	1964	905	32929
18	Polynemidae (Indian Salmon)	4843		2019	321	311	412	7906
19	Caranx spp.. (Kata Bangada)	1126		14654	1514	0	1449	18743
20	Trachinotus spp..	699		1031	0	0	0	1730
21	Carangidae (Bangada)	3225	4673	0	6157	3618	441	18114
22	Stromatidae (Butter Fish)	17968	5689	2234	9924	0		35815
23	Sardinella Indian Oil Sardine	22227	5816	50181	3139	0	1561	82924
24	Engraulidae (Anchovies)	14327	2703	17633	8593	2950	580	46786
25	Other Clupeids	17269	10182	24962	7689	3461	797	64360
26	Chirocentrus spp.	955	1674	18242	0	0	380	21251
27	Wahoo	18		0	0			18
28	Spanish Mackerels	5433			0			5433
29	King Mackerel (Indo-Pacific)	2699		12502	0			15201
30	Striped Seerfish (Thazard Cirrus)	78		0	0			78
31	Seer Fish Scomberomorus spp.	9600	3571	11690	853	870	1695	28279

Source: Director/Commissioner of Fisheries, State Govt./UT Administration

TABLE A-5.6**MARINE FISH LANDINGS BY SPECIES
COASTAL STATES AND UNION TERRITORIES, 2012**

(In tonnes)

REGION NO. 51 - INDIAN OCEAN WEST								
Gujarat	Karnataka	Kerala	Mahara-shtra	Goa	Laksha-dweep	Daman & Diu	Total	Total for INDIA
							0	0
1714			1432			513	3659	17830
11508	8419		6690	3683		129	30429	36528
0			973				973	3802
99172			75437			505	175114	187821
24971	3181	179	14957	364		1394	45046	86180
0	8239		1212			14	9465	14575
4843	673	166	2831			38	8551	13818
0	1265	3381	2729			0	7375	9388
0	6819	5144	941	1146		58	14108	61288
186998	2807	8620	18138	1629		2955	221147	277484
0			14362	1764	80	0	16206	37095
13649	8710	29376	283		290	1285	53593	114839
0	1139		465			23	1627	6146
0	136				171	4	311	5197
0	2452	2025		160	25	10	4672	12710
5799	2941	1614	320	226		127	11027	43956
2242	43351	66	1743			362	47764	55670
0	17417	26614	5336			392	49759	68502
0						251	251	1981
7153	9492	19852		237		1037	37771	55885
0	785	9381	12559	656		1051	24432	60247
0	93107	149659	46197	32315		87	321365	404289
11230	2508	32333	18836	50		2589	67546	114332
11324	6535	14491	2115	2925		413	37803	102163
5021	485	246	2814	98		248	8912	30163
0				174	111	0	285	303
0	2573					511	3084	8517
0		44237				232	44469	59670
0			6315			0	6315	6393
9634	305	2477	2072	1616		163	16267	44546

continued...

TABLE A-5.6**MARINE FISH LANDINGS BY SPECIES
COASTAL STATES AND UNION TERRITORIES, 2012**

(In tonnes)

REGION NO. 57- INDIAN OCEAN EAST								
Sl. No.	Species	Andhra Pradesh	Odisha	Tamil Nadu	West Bengal	A & N Islands	Pudu-cherry	Total
32	Ausla Thazard Firgate & Bullet Tuna	12705					1744	14449
33	Euthynnus Atrinis (Kawa Kawa)	2069	692			0		2761
34	Katsuwonus Pelamis (Skipjack Tuna)	2003				60		2063
35	Thunnus Tonggol (Long Tail Tuna)	1122				0		1122
36	Istiophoridae (Marlin Sailfish)	232				399		631
37	Scombridae (Tuna Like Fishes)	2324	1514	7264		2264		13366
38	Trichiuridae (Hair Tails)	12253	4296	8571	1315	0		26435
39	Rastelliger Ranagueta Indian Macker	29407		0	8094	0	2085	39586
40	Elaemobrancha (Shark, Rays, Skates)	21452	3460	17830	6724	3298	888	53652
41	Other Marine Fishes	52136	14277	23913	10500	0		100826
42	Decapoda (a) Penaeid Prawn	25903	8554	32309	7328	526	2080	76700
43	(b) Non-Penaeid Prawn	27161	4152	8636	2562	187	610	43308
44	(c) Other Crust Crab	1879			0	0		1879
45	Natanian Decapoda	1027		0	0	0		1027
46	Marine Crust Crab	184	1859	29087	163	741		32034
47	Cephalopoda (a) Squid & Cuttle Fish	2680	1057	10616	18	17		14388
48	(b) Other Mollusca	155	77	0	0	0	1196	1428
49	Thunnus albacares (Yellowfin tuna)	12611			96	81		12788
50	Thunnus obesus (Bigeye tuna)	10087				2		10089
51	Istiophorus platypterus (Indo-Pacific sailfish)	33						33
52	Xiphias gladius (Swordfish)	9				175		184
53	Penaeus monodon (Giant tiger prawn)	1278						1278
54	Penaeus spp (Penaeus shrimps nae)	840						840
55	Euphausia superba (Antarctic Krill)	539						539
56	Crustacea (Marine crustaceans)	3165	1	687			1586	5439
57	Rana spp (Frogs)	0						0
58	Ascidacea (Sea squirts)	6						6
59	Unspecified	14917		258	0	2974	848	18997
60	Deep Sea Fishing Sector #	1616						1616
61	Misc.			23151				23151
	Total	423764	106473	429641	147754	36458	28517	1172607

* The landings from Deepsea Vessels

Source: Director/Commissioner of Fisheries, State Govt./UT Administration

TABLE A-5.6

MARINE FISH LANDINGS BY SPECIES
COASTAL STATES AND UNION TERRITORIES, 2012

(In tonnes)

REGION NO. 51 - INDIAN OCEAN WEST								Total for INDIA
Gujarat	Karnataka	Kerala	Mahara-shtra	Goa	Laksha-dweep	Daman & Diu	Total	
0			3189		102	301	3592	18041
0	378				312	208	898	3659
0					5100	49	5149	7212
0		11950				109	12059	13181
0	381					21	402	1033
0	257			2621		44	2922	16288
39061	10893		27779	644		4086	82463	108898
0	17089		13034	17860		350	48333	87919
8770	1454	2887	7572	278	659	485	22105	75757
164593	9848	111328	33624		828	0	320221	421047
8789	4144	45089	42046			460	100528	177228
40867	10474	1664	58493	8968		139	120605	163913
4717	1901	385	591			15	7609	9488
0				12		14	26	1053
0		4466	3110	1160		186	8922	40956
26685	24388	13814	15880	1180		509	82456	96844
797	355			6		0	1158	2586
3639					5578	40	9257	22045
	1160					85	1245	11334
							0	33
							0	184
	0						0	1278
	0						0	840
	26523						26523	27062
	494						494	5933
							0	0
							0	6
	22556		16507	6856			45919	64916
							0	1616
							0	23151
693176	355634	541444	460582	86628	13256	21492	2172212	3344819

TABLE A-6.6

INLAND FISH LANDINGS BY SPECIES
BY STATES/ UNION TERRITORIES, 2012

(In tonnes)

Sl. No.	States/UTs	Major Carps (Catla, Rohu, Mrigal and Calbasu)	Minor Carp	Exotic Carps (Common, Silver and Grass Carp)	Murrels (Ophiocephalus spp.)	Catfishes (Wallago attu, Pangasius, bagarius)	Other fresh water fishes	Others	Total
1	Andhra Pradesh	832446	47451	78206	55584	108522	197146	76793	1396148
2	Arunachal Pradesh	1100	825	1250	0	0	300	0	3475
3	Assam	95980	38850	32890	13150	19620	49460	250	250200
4	Bihar	168790	75784	6889	24113	3445	65449	0	344470
5	Chhattisgarh	195361	29072	26049	0	0	0	0	250482
6	Goa	160	0	40	0	268	0	3619	4087
7	Gujarat	42383	262	0	3188	8371	24610	15894	94708
8	Haryana	60617	23261	18756	2596	6050	200	0	111480
9	Himachal Pradesh	8356	0	0	0	0	205	0	8561
10	Jammu & Kashmir	1028	135	11758	0	0	6779	0	19700
11	Jharkhand	94920	3479	9009	90	141	281	0	107920
12	Karnataka	89989	3835	59992	2009	3743	8673	0	168241
13	Kerala	38312	0	4784	5512	64971		22357	135936
14	Madhya Pradesh	62272	7220	11164	565	3039	595	0	84855
15	Maharashtra	90862	14158	12097	7973	0	11684	687	137461
16	Manipur	9030	1290	13650	595	97	330	0	24992
17	Meghalaya	2059	492	1851	136	180	559	112	5389
18	Mizoram	5450	0	0	0	0	0	0	5450
19	Nagaland	3213	55	3330	17	80	145	0	6840
20	Odisha	199903	14408	25115	2914	8344	11661	24270	286615
21	Punjab	51062	1648	35025	0	7747	3649	0	99131
22	Rajasthan	15580	4200	3643	941	4550	3846	0	32760
23	Sikkim	0	0	380	0	0	120	0	500
24	Tamil Nadu	4681	19898	5721	8702	0	132189	17926	189117
25	Tripura	34472	5746	11491	1149	2873	1723	6	57460
26	Uttarakhand	3847						0	3847
27	Uttar Pradesh	449750	0	0	0	0	0	0	449750
28	West Bengal	855340	45689	162254	20426	37095	101524	100948	1323276
29	A and N Islands	92	0	11	13	36	41	0	193
30	Chandigarh	21	6	8	0	8	3	0	46
31	Dadra and Nagar Haveli	108	0	0	0	0	0	0	108
32	Daman and Diu	0	0	0	0	0	0	133	133
33	Delhi	690	0	0	0	0	0	0	690
34	Lakshadweep	0	0	0	0	0	0	0	0
35	Puducherry	920	488	481	408	504	1550	1322	5673
Total		3418794	338252	535844	150081	279684	622722	264317	5609694

CHART 7:

DISPOSITION OF FISH CATCH IN TERMS OF PERCENTAGE

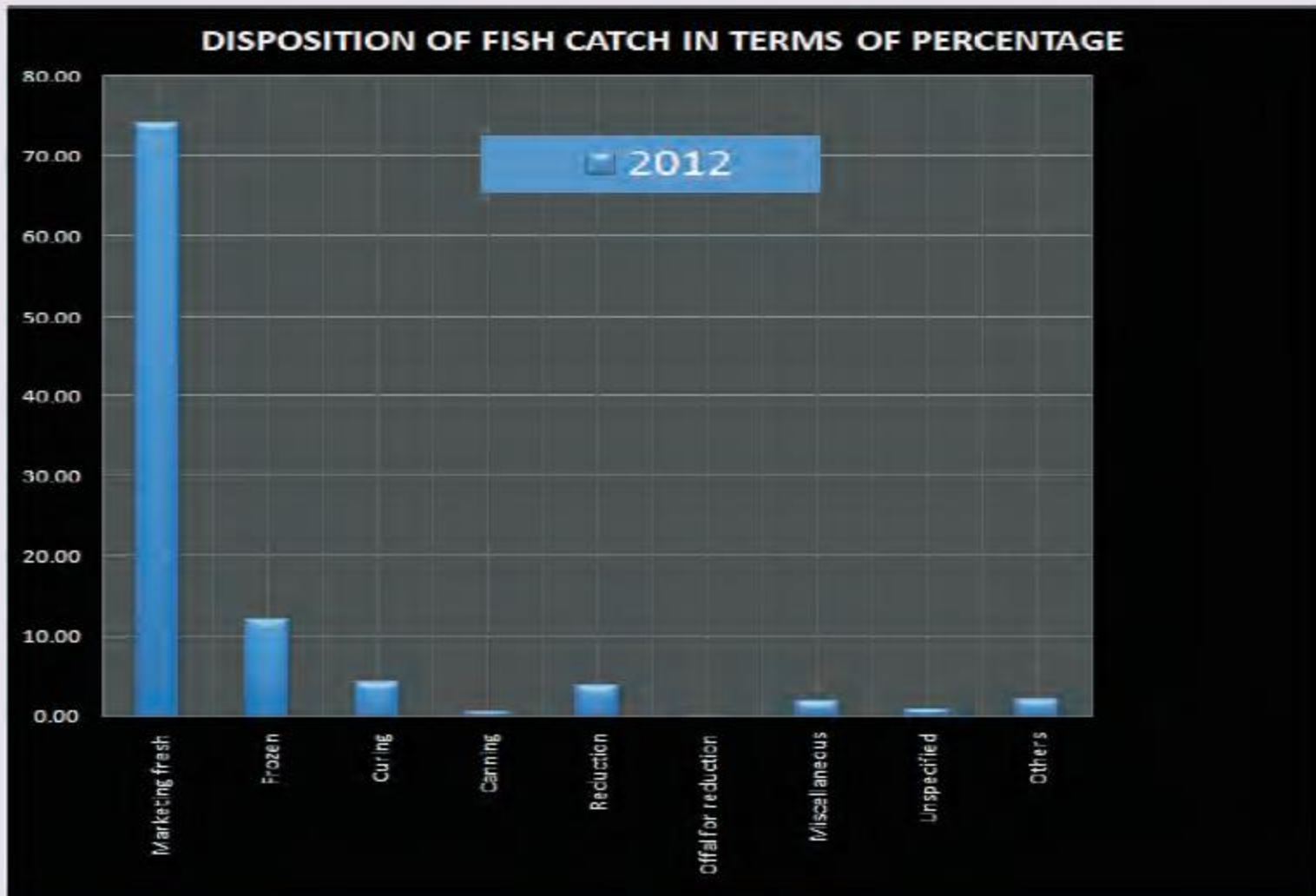


TABLE A-11**FISH SEED PRODUCTION OVER
DIFFERENT PLAN PERIODS IN INDIA**

Plan Period	Year	Production (million fry)
	1973-74 (End of IVth Plan)	409
	1978-79 (End of Vth Plan)	912
	1984-85 (End of VIth Plan)	9,639
VIIth Plan	1985-86	6,322
	1986-87	7,601
	1987-88	8,608
	1988-89	9,325
	1989-90	9,691
Annual Plan	1990-91	10,332
	1991-92	12,203
VIIIth Plan	1992-93	12,500
	1993-94	14,239
	1994-95	14,544
	1995-96	15,007
	1996-97	15,852
IXth Plan	1997-98	15,904
	1998-99	15,156
	1999-00	16,589
	2000-01	15,608
	2001-02	15,758
Xth Plan	2002-03	16,333
	2003-04	19,231
	2004-05	20,791
	2005-06	21,988
	2006-07	23,648
XIth Plan	2007-08	24,144
	2008-09	32,177
	2009-10	29,313
	2010-11	34,111
	2011-12	36,566
XIIth Plan	2012-13	34,922
	2013-14 (P)	41,450

Source : Director / Commissioner of Fisheries State Govts. / UT Administrations
(P): Provisional

Table-A-14.1**STATE WISE DETAILS OF SHRIMP PRODUCTION
DURING 2011-12 & 2012-13 (*)**

Sl. No.	State	2011-12			2012-13		
		Area under Culture (Ha)	Estimated production (MT)	Productivity in (MT/Ha/yr)	Area under Culture (Ha)	Estimated production (MT)	Productivity in (MT/Ha/yr)
1	West Bengal	48558.00	45999.00	0.95	48410.00	52581.00	1.09
2	Odisha	8622.00	11001.00	1.28	6302.00	14532.00	2.31
3	Andhra Pradesh	42402.00	126466.00	2.98	36123.00	159083.00	4.40
4	Tamil Nadu	5757.00	14960.00	2.60	7804.00	25815.00	3.31
5	Kerala	12809.00	8138.00	0.64	12917.00	5175.00	0.40
6	Karnataka	722.00	841.00	1.16	394.00	664.00	1.69
7	Goa	53.00	51.00	0.96	31.00	63.00	2.03
8	Maharashtra	1225.00	2662.00	2.17	1486.00	3513.00	2.36
9	Gujarat	2059.00	6065.00	2.95	2359.00	9393.00	3.98
TOTAL		122207.00	216183.00	1.77	115826.00	270819.00	2.34

* Production from Aquaculture farms

Source: Marine Products Export Development Authority (MPEDA), Kochi.

TABLE B-1**TREND IN EXPORTS OF MARINE PRODUCTS
1980-81 TO 2012-13**

Year	Quantity (Tonnes)	Value (₹ Crore)	Unit value (₹ / tonnes)	Unit value index	Annual growth rate (%)	
					Quantity	Value
1980-81	75591	234.84	31067.19	1246.81	-12.51	-5.62
1981-82	70105	286.01	40797.38	1637.31	-7.26	21.79
1982-83	78175	361.36	46224.50	1855.11	11.51	26.35
1983-84	92187	373.02	40463.41	1623.90	17.92	3.23
1984-85	86187	384.29	44587.93	1789.43	-6.51	3.02
1985-86	83651	398.00	47578.63	1909.46	-2.94	3.57
1986-87	85843	460.67	53664.25	2153.69	2.62	15.75
1987-88	97179	531.20	54662.02	2193.73	13.21	15.31
1988-89	99777	597.85	59918.62	2404.69	2.67	12.55
1989-90	110843	634.99	57287.33	2299.09	11.09	6.21
1990-91	137667	856.00	62179.03	2495.41	24.20	34.81
1991-92	169875	1311.60	77209.71	3098.63	23.40	53.22
1992-93	206673	1713.70	82918.43	3327.74	21.66	30.66
1993-94	242505	2461.00	101482.44	4072.76	17.34	43.61
1994-95	307337	3575.30	116331.58	4668.70	26.73	45.28
1995-96	296277	3450.10	116448.46	4673.39	-3.60	-3.50
1996-97	378198	4077.60	107816.54	4326.96	27.65	18.19
1997-98	385818	4649.70	120515.37	4836.60	2.01	14.03
1998-99	302934	4626.87	152735.25	6129.67	-21.48	-0.49
1999-00	343031	5116.67	149160.57	5986.21	13.24	10.59
2000-01	440473	6443.89	146294.78	5871.20	28.41	25.94
2001-02	424470	5957.05	140340.90	5632.25	-3.63	-7.56
2002-03	467297	6881.31	147257.74	5909.84	10.09	15.52
2003-04	412017	6091.95	147856.76	5933.88	-11.83	-11.47
2004-05	461329	6646.55	144073.97	5782.07	11.97	9.10
2005-06	512163	7245.73	141473.12	5677.69	11.02	9.01
2006-07	612643	8363.52	136515.39	5478.72	19.62	15.43
2007-08	541701	7620.93	140685.18	5646.07	-11.58	-8.88
2008-09	602834	8607.95	142791.38	5730.60	11.29	12.95
2009-10	678436	10048.53	148113.16	5944.17	12.54	16.74
2010-11	813091	12901.46	158671.78	6367.92	19.85	28.39
2011-12	862021	16597.23	192538.58	7727.08	6.02	28.65
2012-13	928215	18856.26	203145.39	8152.76	7.68	13.61
2013-14	983756	30213.26	307121.48	12325.60	5.98	60.23

Source: Marine Products Export Development Authority, Kochi

TABLE F-1**MARINE FISHERIES RESOURCES - COASTAL STATES
AND UNION TERRITORIES OF INDIA**

Sl. No.	State/Union Territory	App. Length of Coast Line (Kms.)	Continental Shelf ('000 Sq. Kms.)	Number of Landing Centres	Number of fishing Villages	No. of fishermen families	Fisherfolk population
1	Andhra Pradesh	974	33	353	555	163427	605428
2	Goa	104	10	33	39	2189	10545
3	Gujrat	1600	184	121	247	62231	336181
4	Karnataka	300	27	96	144	30713	167429
5	Kerala	590	40	187	222	118937	610165
6	Maharashtra	720	112	152	456	81492	386259
7	Odisha	480	26	73	813	114238	605514
8	Tamil Nadu	1076	41	407	573	192697	802912
9	West Bengal *	158	17	59	188	76981	380138
10	A & N Islands	1912	35	16	134	4861	22188
11	Daman & Diu	27	-	5	11	7374	40016
12	Lakshadweep	132	4	10	10	5338	34811
13	Puducherry	45	1	25	40	14271	54627
Total		8118	530	1537	3432	874749	4056213

*Subsequent reference to villages actually means Gram Panchayat in West Bengal

Source : Marine Fisheries Census 2010

TABLE F-3**POTENTIAL OF FISHERY RESOURCES IN THE
INDIAN EXCLUSIVE ECONOMIC ZONE**

(million tonnes)

Depth range (mts)	0-100	100-200	200-500	Oceanic	Total
1	2	3	4	5	6
Demersal	1.83	0.21	0.10	-	2.13
Neretic Pelagic	2.00	0.05	0.02	-	2.07
Oceanic Pelagic	-	-	-	0.22	0.22
Total	3.82	0.26	0.11	0.22	4.41
Percent to total	86.62	5.87	2.60	4.91	100.00

Source: Report of the working group for revalidating the potential of Fishery Resources in the Indian EEZ.
Fishery Survey of India (FSI)

TABLE G-2**PERCENTAGE CONTRIBUTION OF INDIA TO WORLD
FISH PRODUCTION, SELECTED YEARS**

Contribution of India to World Fish Production (Percent)			
Year	Total	Marine	Inland
1950	3.83	3.10	9.40
1955	3.00	2.46	6.64
1960	3.27	2.79	6.96
1965	2.68	1.85	9.89
1970	2.69	1.83	11.09
1975	3.46	2.53	11.29
1980	3.40	2.42	11.54
1985	3.29	2.30	10.23
1990	3.89	2.65	10.61
1991	4.16	2.87	11.06
1992	4.21	2.93	10.88
1993	4.29	2.87	11.18
1994	4.23	2.90	10.52
1995	4.22	2.81	10.24
1996	4.32	2.92	9.91
1997	4.47	3.02	10.04
1998	4.63	3.04	10.05
1999	4.58	2.94	10.21
2000	4.45	2.85	9.80
2001	4.70	2.95	10.19
2002	4.64	3.08	9.36
2003	4.74	3.16	9.15
2004	4.60	2.91	9.24
2005	4.87	2.92	9.83
2006	5.11	3.15	9.70
2007	4.96	3.17	8.94
2008	5.56	3.47	9.94
2009	5.39	3.39	9.41
2010	5.73	3.42	9.96
2011	5.68	3.23	10.19

TABLE G-4**FISH PRODUCTION - MAJOR FISH PRODUCING COUNTRIES, 2002-2011 ('000 TONNES)**

Sl.No.	Country	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1	China	38315	39431	41032	42710	44488	46074	47522	49699	52151	54393
2	India	5925	6028	6190	6659	7026	6972	7950	7859	8475	8875
3	Indonesia	5237	5580	5650	5893	6094	6433	6690	6837	7685	8426
4	Peru	8777	6100	9627	9414	7046	7250	7438	6959	4350	8341
5	United States of America	5436	5485	5567	5407	5372	5294	4851	4703	4923	5550
6	Viet Nam	2506	2794	3139	3425	3684	4160	4599	4837	5086	5348
7	Russian Federation	3334	3390	3052	3312	3390	3581	3499	3943	4190	4384
8	Japan	5201	5505	5107	5059	5052	5048	5027	4878	4787	4318
9	Myanmar	1474	1596	1987	2217	2582	2840	3169	3545	3914	4150
10	Chile	4817	4179	5603	5052	4955	4599	4398	4247	3381	4018
11	Norway	3292	3133	3161	3054	2969	3222	3280	3486	3688	3420
12	Philippines	2473	2626	2724	2827	2942	3209	3302	3340	3356	3131
13	Bangladesh	1890	1998	2102	2216	2329	2440	2563	2886	3035	3125
14	Thailand	3797	3914	4100	4119	4053	3675	3204	3287	3097	2870
15	Korea	1991	2044	1986	2083	2272	2476	2430	2332	2209	2254
13	Mexico	1524	1442	1366	1453	1515	1615	1741	1770	1655	1703
17	Malaysia	1441	1454	1507	1390	1455	1564	1642	1731	1807	1666
18	Brazil	1003	985	1016	1008	1051	1072	1157	1241	1265	1433
19	Egypt	801	876	865	889	971	1008	1068	1093	1305	1362
20	Spain	1136	1157	1105	1073	1253	1101	1170	1187	1224	1265
21	Taiwan	1373	1487	1298	1322	1278	1490	1340	1056	1162	1218
22	Iceland	2138	1993	1743	1673	1335	1404	1289	1147	1066	1144
23	Canada	1236	1276	1318	1258	1251	1178	1103	1104	1097	1024
24	Morocco	963	920	920	1029	878	881	999	1167	1138	960
Total of the above Countries		106080	105393	112165	114542	115241	118586	121431	124334	126046	134378
World Total		127830	127199	134648	136775	137508	140684	143021	145736	147992	156195

Source: FAO Fisheries and Aquaculture Statistics and Information Branch, 2013, Global production by production source 1950-2011

Notes:

The countries or areas listed in the above table are the major fish producing countries in terms of total production, in inland and marine waters.

Fishery statistical data presented in the above table exclude the production for mammals, crocodiles, corals, sponges, pearls, mother-of-pearls and aquatic plants. Totals may not match due to rounding.

TABLE G-5 PERCENT SHARE OF MAJOR FISH PRODUCING COUNTRIES IN WORLD FISH PRODUCTION, 2002-2011

Sl.No.	Country	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1	China	29.97	31.00	30.47	31.23	32.35	32.75	33.23	34.10	35.24	34.82
2	India	4.64	4.74	4.60	4.87	5.11	4.96	5.56	5.39	5.73	5.68
3	Indonesia	4.10	4.39	4.20	4.31	4.43	4.57	4.68	4.69	5.19	5.39
4	Peru	6.87	4.80	7.15	6.88	5.12	5.15	5.20	4.78	2.94	5.34
5	United States of America	4.25	4.31	4.13	3.95	3.91	3.76	3.39	3.23	3.33	3.55
6	Viet Nam	1.96	2.20	2.33	2.50	2.68	2.96	3.22	3.32	3.44	3.42
7	Russian Federation	2.61	2.67	2.27	2.42	2.47	2.55	2.45	2.71	2.83	2.81
8	Japan	4.07	4.33	3.79	3.70	3.67	3.59	3.51	3.35	3.23	2.76
9	Myanmar	1.15	1.25	1.48	1.62	1.88	2.02	2.22	2.43	2.64	2.66
10	Chile	3.77	3.29	4.16	3.69	3.60	3.27	3.08	2.91	2.28	2.57
11	Norway	2.58	2.46	2.35	2.23	2.16	2.29	2.29	2.39	2.49	2.19
12	Philippines	1.93	2.06	2.02	2.07	2.14	2.28	2.31	2.29	2.27	2.00
13	Bangladesh	1.48	1.57	1.56	1.62	1.69	1.73	1.79	1.98	2.05	2.00
14	Thailand	2.97	3.08	3.04	3.01	2.95	2.61	2.24	2.26	2.09	1.84
15	Korea	1.56	1.61	1.47	1.52	1.65	1.76	1.70	1.60	1.49	1.44
16	Mexico	1.19	1.13	1.01	1.06	1.10	1.15	1.22	1.21	1.12	1.09
17	Malaysia	1.13	1.14	1.12	1.02	1.06	1.11	1.15	1.19	1.22	1.07
18	Brazil	0.78	0.77	0.75	0.74	0.76	0.76	0.81	0.85	0.85	0.92
19	Egypt	0.63	0.69	0.64	0.65	0.71	0.72	0.75	0.75	0.88	0.87
20	Spain	0.89	0.91	0.82	0.78	0.91	0.78	0.82	0.81	0.83	0.81
21	Taiwan	1.07	1.17	0.96	0.97	0.93	1.06	0.94	0.72	0.79	0.78
22	Iceland	1.67	1.57	1.29	1.22	0.97	1.00	0.90	0.79	0.72	0.73
23	Canada	0.97	1.00	0.98	0.92	0.91	0.84	0.77	0.76	0.74	0.66
24	Morocco	0.75	0.72	0.68	0.75	0.64	0.63	0.70	0.80	0.77	0.61
Total of the above Countries		82.99	82.86	83.30	83.74	83.81	84.29	84.90	85.31	85.17	86.03
World Total		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Source: Food and Agriculture Organisation (FAO)

TABLE G-7**MARINE FISH PRODUCTION - MAJOR FISH PRODUCING COUNTRIES, 2002-2011 ('000 TONNES)**

SLNo.	Country	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1	China	21218	21407	21975	22442	22948	23220	23615	24342	25349	26297
2	Peru	8741	6060	9577	9359	6992	7186	7364	6885	4275	8264
3	India	2963	2960	2876	2870	3039	3088	3355	3290	3282	3269
4	Indonesia	4030	4293	4285	4406	4512	4737	4727	4820	5090	5365
5	United States of America	5044	5075	5169	5022	5011	4915	4500	4378	4598	5285
6	Japan	5087	5394	5000	4962	4969	4967	4954	4795	4708	4244
7	Chile	4813	4175	5598	5041	4943	4596	4394	4218	3343	3976
8	Viet Nam	1651	1747	1889	1935	1970	2047	2122	2264	2393	2487
9	Thailand	3042	3027	3013	2980	2817	2402	1947	1984	1889	1789
10	Russian Federation	3024	3091	2764	2979	3076	3226	3167	3583	3812	4015
11	Norway	3291	3133	3161	3054	2968	3221	3279	3486	3687	3419
12	Philippines	1941	2084	2140	2209	2256	2454	2509	2537	2558	2321
13	Myanmar	1029	1054	1132	1229	1376	1518	1684	1899	2090	2173
14	Bangladesh	415	432	455	475	480	487	498	603	607	546
15	Korea	1972	2023	1951	2060	2248	2449	2400	2302	2176	2222
16	Mexico	1416	1306	1223	1305	1364	1474	1608	1632	1524	1570
17	Malaysia	1367	1374	1416	1290	1353	1454	1491	1504	1559	1470
18	Iceland	2136	1991	1741	1672	1334	1402	1286	1144	1063	1140
19	Taiwan	1100	1199	1034	1075	1050	1245	1106	848	951	1001
20	Canada	1185	1231	1271	1209	1205	1133	1062	1062	1061	991
21	Spain	1094	1116	1068	1039	1220	1067	1140	1161	1199	1241
22	Brazil	527	495	513	522	543	553	544	599	553	573
23	Egypt	133	117	111	107	120	131	136	128	121	122
24	Morocco	961	918	918	1025	874	876	993	1159	1129	950
Total of the above country		78180	75702	80280	80267	78668	79848	79881	80623	79017	84730
World Total		96165	93687	98771	98249	96426	97264	96778	97188	95867	101203

Source: FAO Fisheries and Aquaculture Statistics and Information Branch, 2013, Global production by production source 1950-2011

Notes:

The countries or areas listed in the above table are the major fish producing countries in terms of total production, in inland and marine waters.

Fishery statistical data presented in the above table exclude the production for mammals, crocodiles, corals, sponges, pearls, mother of pearls and aquatic plants. Totals may not match due to rounding.

TABLE H**INDICES OF WHOLE SALE PRICES**

Year	Inland	Fish Marine	Canned Fish	Mutton	Food Articles	All Commodities
Base 1993-94=100						
1996	127.30	143.30	139.60	162.80	132.50	125.60
1997	150.80	186.60	139.60	179.80	140.30	131.30
1998	166.70	201.70	139.60	186.90	156.50	138.90
1999	182.30	186.50	153.30	189.40	163.20	143.80
2000	237.00	192.90	153.50	200.00	169.80	152.80
2001	245.70	193.60	153.80	194.00	174.30	160.70
2002	291.50	180.80	205.90	195.40	178.60	164.70
2003	258.40	206.50	246.60	201.40	181.00	173.40
2004	265.00	202.20	264.80	216.60	185.10	184.90
2005	318.30	202.30	272.00	225.00	192.40	193.70
2006	332.30	233.40	281.40	240.60	205.60	203.00
2007	299.40	274.50	291.70	255.90	220.00	212.80
2008	289.90	300.30	296.40	291.00	234.60	232.20
2009	389.70	298.90	419.40	345.20	264.20	237.10
Base year 2004-05 = 100						
2005	113.70	98.40	106.24	102.80	103.33	103.37
2006	112.50	118.60	112.30	115.58	112.25	109.59
2007	101.90	125.20	118.18	122.11	122.65	114.94
2008	101.00	139.20	117.78	136.87	131.56	124.92
2009	135.50	151.40	136.18	164.89	148.31	127.86
2010	186.70	212.80	135.53	184.56	174.56	140.08
2011	230.60	236.60	146.58	195.91	190.42	153.35
2012	291.40	275.20	158.49	215.26	206.52	164.92
2013	365.21	289.88	150.22	239.39	234.13	175.35

Source : Office of the Economic Advisor, Ministry of Commerce and Industry

TABLE J-2**FISHING CRAFTS - COASTAL STATES
AND UNION TERRITORIES, 2010**

Sl. No.	State/Union Territory	Traditional Crafts (Non-Motorised)	Motorised Crafts	Mechanised Boats	Total
1	Andhra Pradesh	17837	10737	3167	31741
2	Goa	227	1297	1142	2666
3	Gujarat	1884	8238	18278	28400
4	Karnataka	2862	7518	3643	14023
5	Kerala	5884	11175	4722	21781
6	Maharashtra	2783	1563	13016	17362
7	Odisha	4656	3922	2248	10826
8	Tamil Nadu	10436	24942	10692	46070
9	West Bengal	3066		14282	17348
10	Andaman & Nicobar Islands	1637	1491	61	3189
11	Daman & Diu	321	359	1000	1680
12	Lakshadweep	727	606	129	1462
13	Puducherry	662	1562	369	2593
Total		52982	73410	72749	199141

Source: Marine Fisheries Census 2010

TABLE J- 3**BRACKISHWATER AREA AND PRODUCTION - COASTAL STATES/UNION TERRITORIES TILL 2009-10**

Sl. No.	State/Union Territory	Total Brackishwater (ha)	Area brought under culture through BFDAs (ha)	Training	Beneficiary	Average Productivity (kg/ha/annum)
1	Andhra Pradesh	60000	846	1854	957	680
2	Goa	Neg.	574	508	36	2000
3	Gujarat	100000	968	1652	479	1276
4	Karnataka	10000	3022	865	522	1826
5	Kerala	240000	4589	5116	7439	1700
6	Maharashtra	10000	1539	2015	293	600
7	Odisha	430000	14670	9115	10598	1300
8	Tamil Nadu	60000	7548	531	382	2000
9	West Bengal	210000	5994	12343	7465	1106
10	Puducherry	Neg.	**			NA
11	A & N Islands	120000				
Total		1240000	39750	33999	28171	12488

Source : Marine Products Exports Development Authority, (MPEDA) Kochi

NA : Not Available

** : No BFDA Sanctioned

TABLE J- 4

**DETAILS OF BRACKISHWATER AREA, AREA DEVELOPED FOR
AQUACULTURE, AREA UNDER CULTURE AND PRODUCTION
AS ON 31.03.2013**

Sl. No.	State/Union Territory	Estimated Potential (Ha)	Area Developed (Ha)	Area under (Ha)	Production (MT)	Productivity (MT/Ha)
1	Andhra Pradesh	150000	84951	36123	159083	4.40
2	Goa	18500	340	31	63	2.03
3	Gujarat	376000	2371	2359	9393	3.98
4	Kerala	65000	14875	12917	5175	0.40
5	Karnataka	8000	1945	394	664	1.69
6	Maharashtra	80000	1330	1486	3513	2.36
7	Odisha	31600	13400	6302	14532	2.31
8	Tamil Nadu & Puducherry	56800	6248	7804	25815	3.31
9	West Bengal	405000	50405	48410	52581	1.09
Total		1190900	175865	115826	270819	2.34

Source : Marine Products Exports Development Authority, (MPEDA) Kochi

TABLE J-5**MONTHLY PER CAPITA CONSUMPTION OF FISH & PRAWN
(QUANTITY) BY STATE/UNION TERRITORY**

Sl. No.	State/Union Territory	Consumption	Per capita Qty Consumed (Kg) / value (₹)		No. of households per 1000 households reporting consumption	
			Rural	Urban	Rural	Urban
1	2	3	4	5	6	7
1	Andhra Pradesh	Qty. Value	0.197 12.30	0.131 9.31	191	136
2	Arunachal Pradesh	Qty. Value	0.704 80.45	0.779 94.60	558	631
3	Assam	Qty. Value	0.686 67.18	0.991 118.54	896	875
4	Bihar	Qty. Value	0.247 18.21	0.195 15.69	344	241
5	Goa	Qty. Value	2.071 182.34	1.750 196.24	994	893
6	Gujarat	Qty. Value	0.035 2.31	0.026 2.28	39	37
7	Haryana	Qty. Value	0.002 0.17	0.012 0.88	4	11
8	Himachal Pradesh	Qty. Value	0.005 0.44	0.001 0.05	5	0
9	Jammu & Kashmir	Qty. Value	0.058 7.63	0.029 3.14	54	28
10	Karnataka	Qty. Value	0.118 17.15	0.108 8.26	111	84
11	Kerala	Qty. Value	2.117 104.46	1.958 109.28	884	817
12	Madhya Pradesh	Qty. Value	0.088 5.76	0.043 3.87	112	55
13	Maharashtra	Qty. Value	0.092 7.72	0.108 14.11	131	153
14	Manipur	Qty. Value	0.342 40.07	0.509 59.15	692	906
15	Meghalaya	Qty. Value	0.343 37.40	0.421 45.63	654	640
16	Mizoram	Qty. Value	0.200 26.33	0.223 28.68	252	260
17	Nagaland	Qty. Value	0.351 35.31	0.562 48.35	364	435
18	Odisha	Qty. Value	0.417 28.13	0.441 34.03	540	514

TABLE J-5**MONTHLY PER CAPITA CONSUMPTION OF FISH & PRAWN
(QUANTITY) BY STATE/UNION TERRITORY**

Sl. No.	State/Union Territory	Consumption	Per capita Qty Consumed (Kg) / value (₹)		No. of households per 1000 households reporting consumption	
			Rural	Urban	Rural	Urban
1	2	3	4	5	6	7
19	Punjab	Qty. Value	0.001 0.12	0.028 2.87	2	41
20	Rajasthan	Qty. Value	0.011 0.88	0.011 0.85	9	15
21	Sikkim	Qty. Value	0.038 4.17	0.177 18.30	66	193
22	Tamil Nadu	Qty. Value	0.233 16.64	0.233 17.85	277	249
23	Tripura	Qty. Value	1.177 120.70	1.488 175.22	976	938
24	Uttar Pradesh	Qty. Value	0.075 5.31	0.036 2.93	104	43
25	West Bengal	Qty. Value	0.813 61.25	1.082 111.40	879	844
26	A and N Islands	Qty. Value	1.353 80.96	1.200 78.64	851	815
27	Chandigarh	Qty. Value	0.000 0.00	0.017 1.58	0	20
28	Dadra and Nagar Haveli	Qty. Value	0.381 18.60	0.229 13.01	714	396
29	Daman and Diu	Qty. Value	0.328 20.81	0.709 43.89	230	563
30	Delhi	Qty. Value	0.157 15.73	0.015 1.64	96	17
31	Lakshadweep	Qty. Value	4.367 262.30	4.117 288.58	882	779
32	Puducherry	Qty. Value	0.648 57.73	0.947 85.03	710	710
33	Chhattisgarh	Qty. Value	0.142 9.62	0.100 7.50	156	106
34	Jharkhand	Qty. Value	0.191 13.11	0.209 24.88	212	283
35	Uttarakhand	Qty. Value	0.027 1.97	0.028 2.94	27	36
	All India	Qty. Value	0.269 18.81	0.238 20.74	282	209

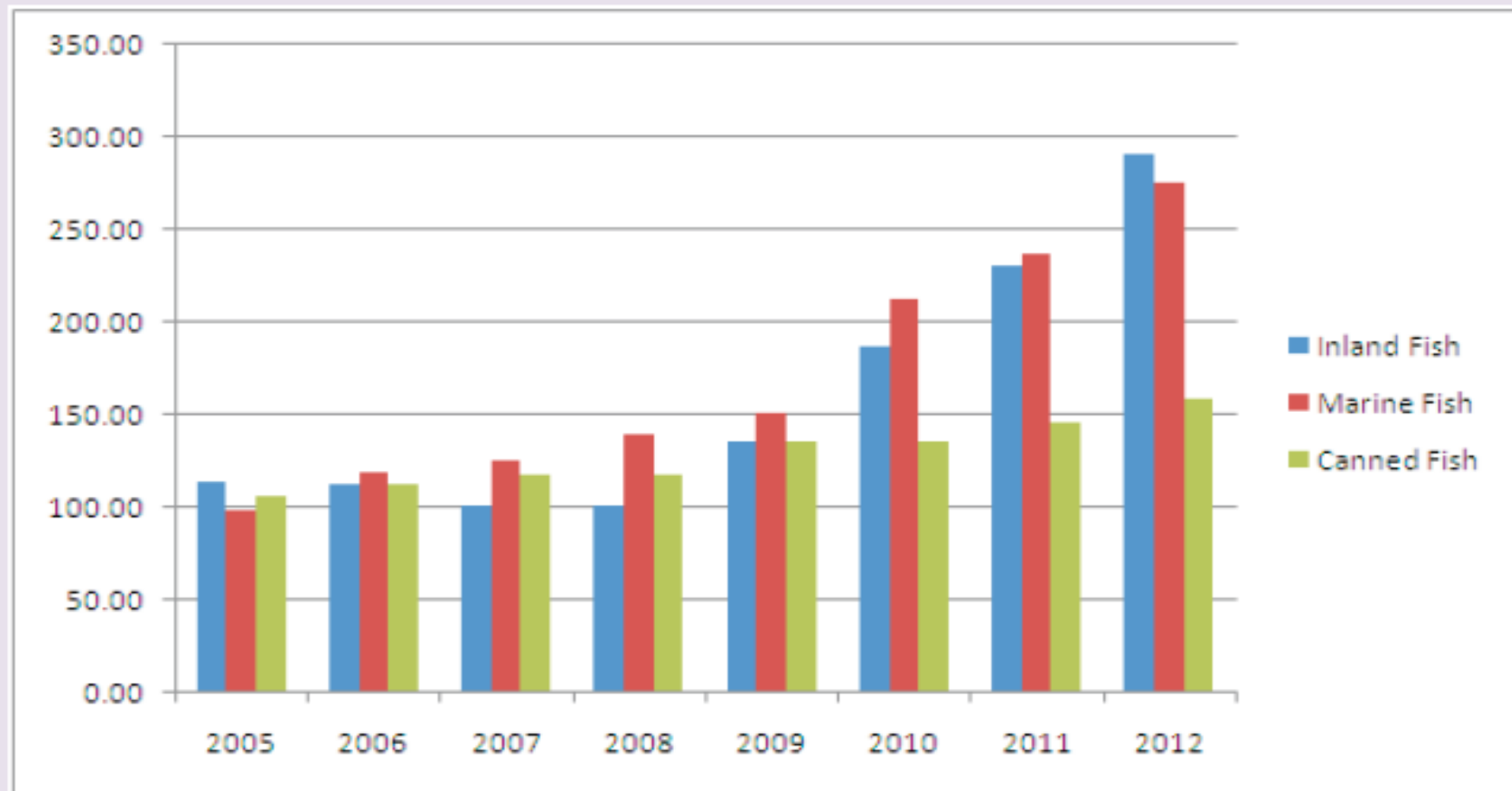
Source: Report No. 541, National Sample Survey Organisation 2009-10.

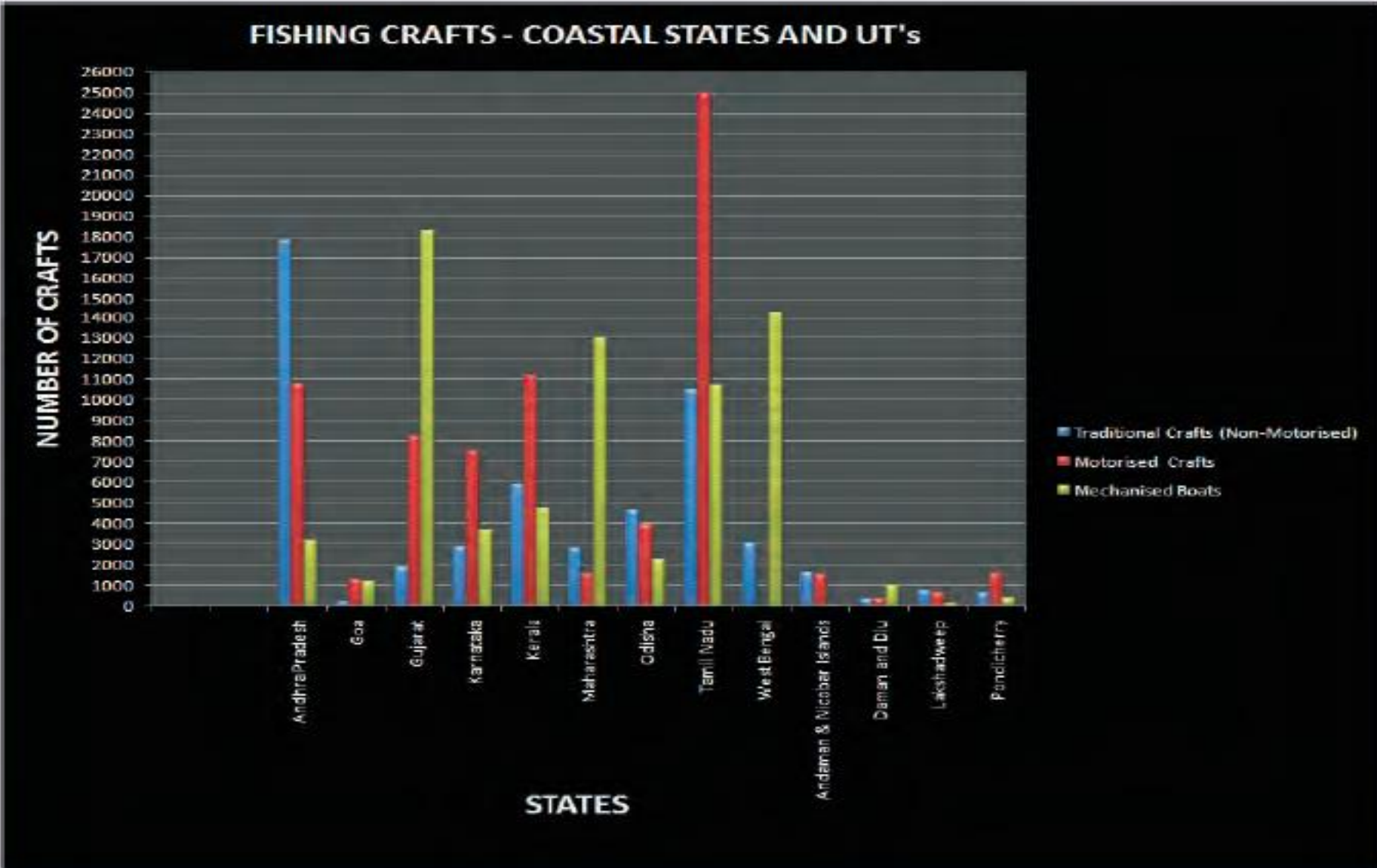
TABLE J-6**CONTRIBUTION OF FISHERIES SECTOR TO GROSS
DOMESTIC PRODUCT (AT CURRENT PRICES)**

(₹ Crore)

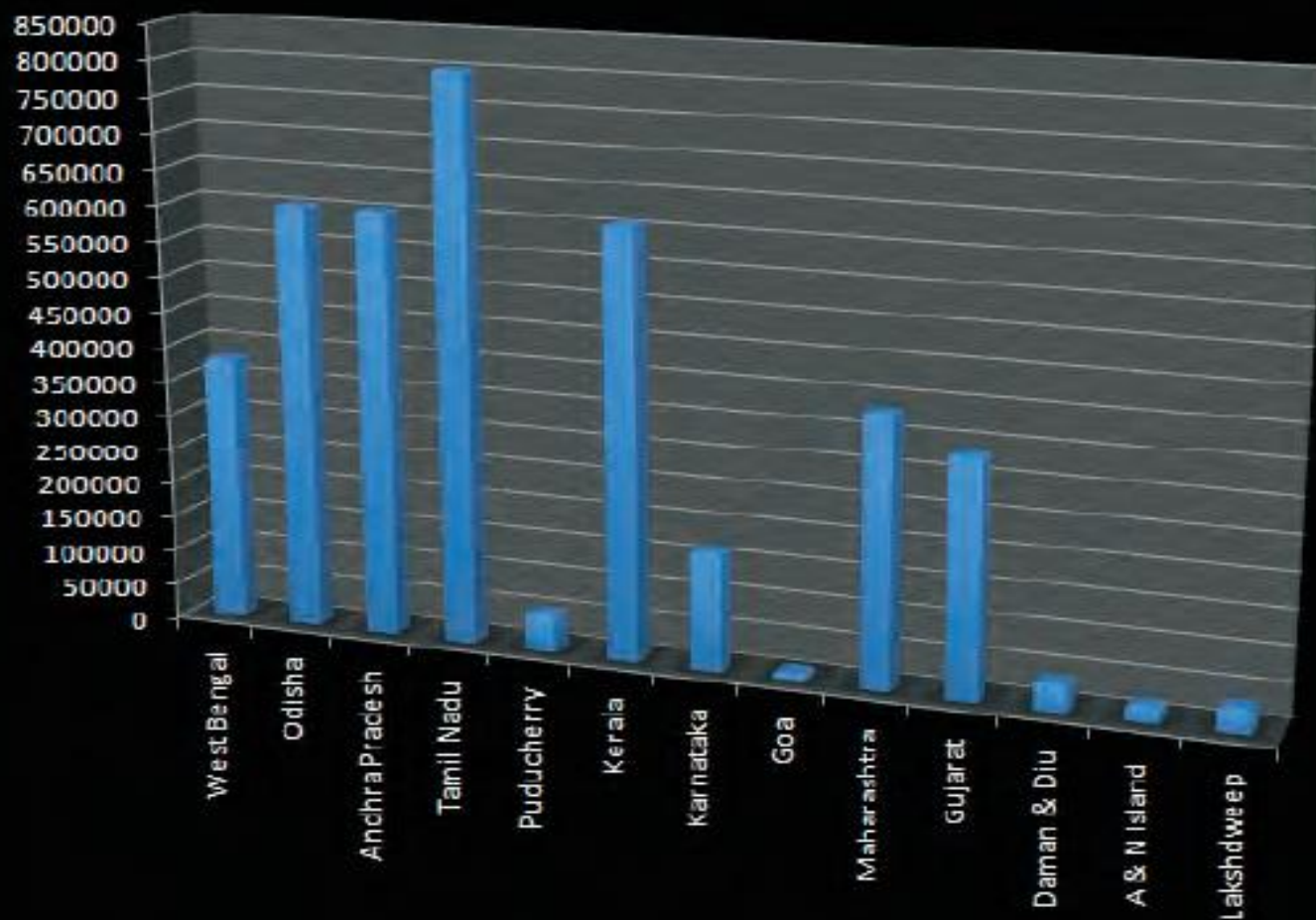
Year	Total GDP	GDP from Agriculture, Forestry & Fishing	GDP from Fisheries	GDP from fisheries as % of	
				Total GDP	GDP from Agriculture, Forestry & Fishing
1	2	3	4	5	6
1990-91	531814	154350	4547	0.85	2.95
1991-92	613528	180313	5161	0.84	2.86
1992-93	703723	202219	6452	0.92	3.19
1993-94	817961	234566	8094	0.99	3.45
1994-95	955386	270107	9932	1.04	3.68
1995-96	1118586	293701	11104	0.99	3.78
1996-97	1301788	353142	13160	1.01	3.73
1997-98	1447613	374744	16256	1.12	4.34
1998-99	1668739	430384	17010	1.02	3.95
1999-00	1847273	455302	18595	1.01	4.08
2000-01	1991982	460608	20948	1.05	4.55
2001-02	2167745	498620	22818	1.05	4.58
2002-03	2338200	485080	25027	1.07	5.16
2003-04	2622216	544667	26448	1.01	4.86
2004-05	2971464	565426	27152	0.91	4.80
2005-06	3390503	637772	31699	0.93	4.97
2006-07	3953276	722984	35182	0.89	4.87
2007-08	4582086	836518	38931	0.85	4.65
2008-09	5303567	943204	44073	0.83	4.67
2009-10	6108903	1083514	50370	0.82	4.65
2010-11	7248860	1319686	57271	0.79	4.34
2011-12	8391691	1499098	66862	0.80	4.46
2012-13	9388876	1644926	78053	0.83	4.75

Source : Central Statistics Office

PART 9:**INDEX OF WHOLE FISH PRICE
WITH BASE YEAR 2004-05 = 100**



Fisherfolk Population in Coastal States during 2010



1. Area of the country	3.29 million sq. km.		
2. Length of Coastline	8118 kms		
3. Exclusive Economic Zone	2.02 million sq. km.		
4. Continental shelf area (approx.)	0.53 million sq. km.		
5. Fish Production in 2013-14 (Prov.)(million tonnes)	Marine 3.44	Inland 6.14	Total 9.58
6. Export of fisheries products, 2013-14			
a) Quantity ('000 Tonnes)	983.76		
b) Value (₹ crores)	30213.26		
7. Contribution of fisheries to Gross Domestic Product (GDP), 2012-13 at current prices			
a) GDP from fisheries	₹ 78053 Crores		
b) Contribution of fisheries sector to			
i. Total GDP	0.83 per cent		
ii. GDP from Agriculture sector	4.75 per cent		
8. Population			
a) On March 1, 2001	1028.70 million		
b) On March 1, 2011	1210.19 million		
c) Annual Exponential Growth Rate 1901-2011	1.67%		
d) Decadal changes in %	17.64		

9. Fishermen population (as per Livestock Census, 2003)

a) No. of family members

i. Total	14,485,354
ii. Males	4,696,158
iii. Females	4,033,963
iv. Children	5,755,233

b) Engaged in fishing operations

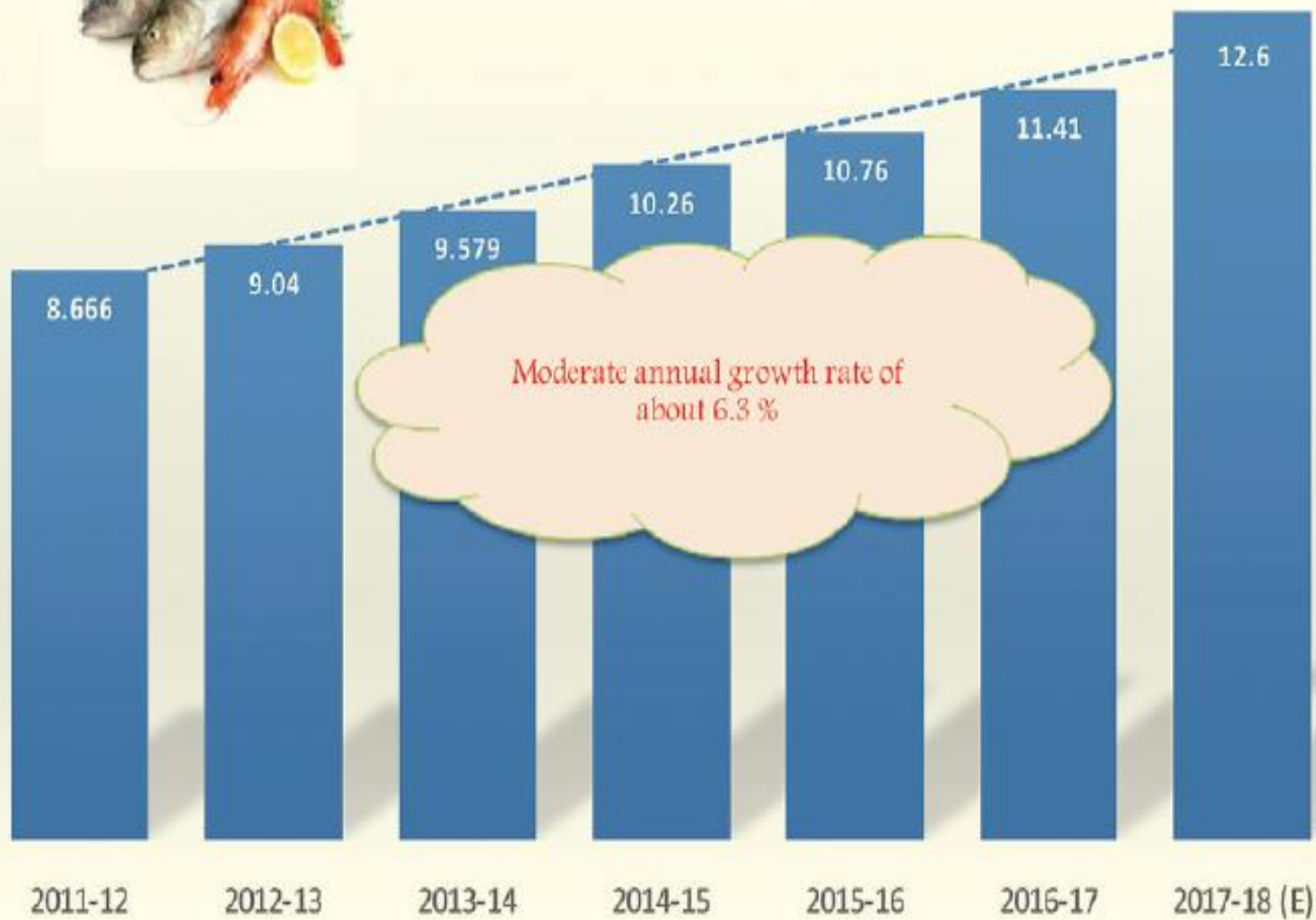
i. Full time	933,124
ii. Part time	1,072,079

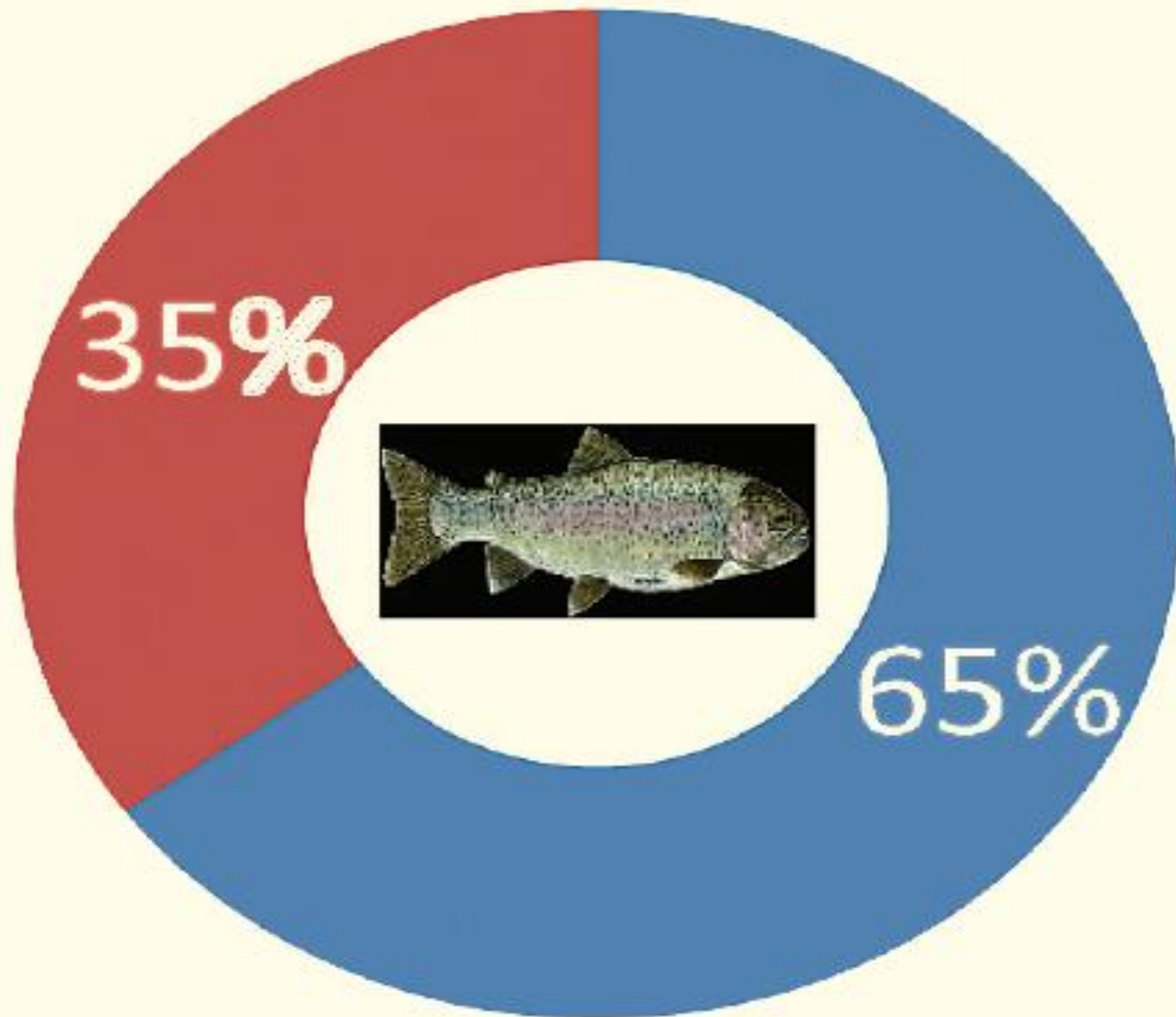
c) Engaged in fishing related activities other than actual fishing

i. Marketing of fish	391,000
ii. Repair of fishing nets	245,100
iii. Processing of fish	46,200
iv. Other activities	334,700



Fish Production of India (Metric Million Tonnes)

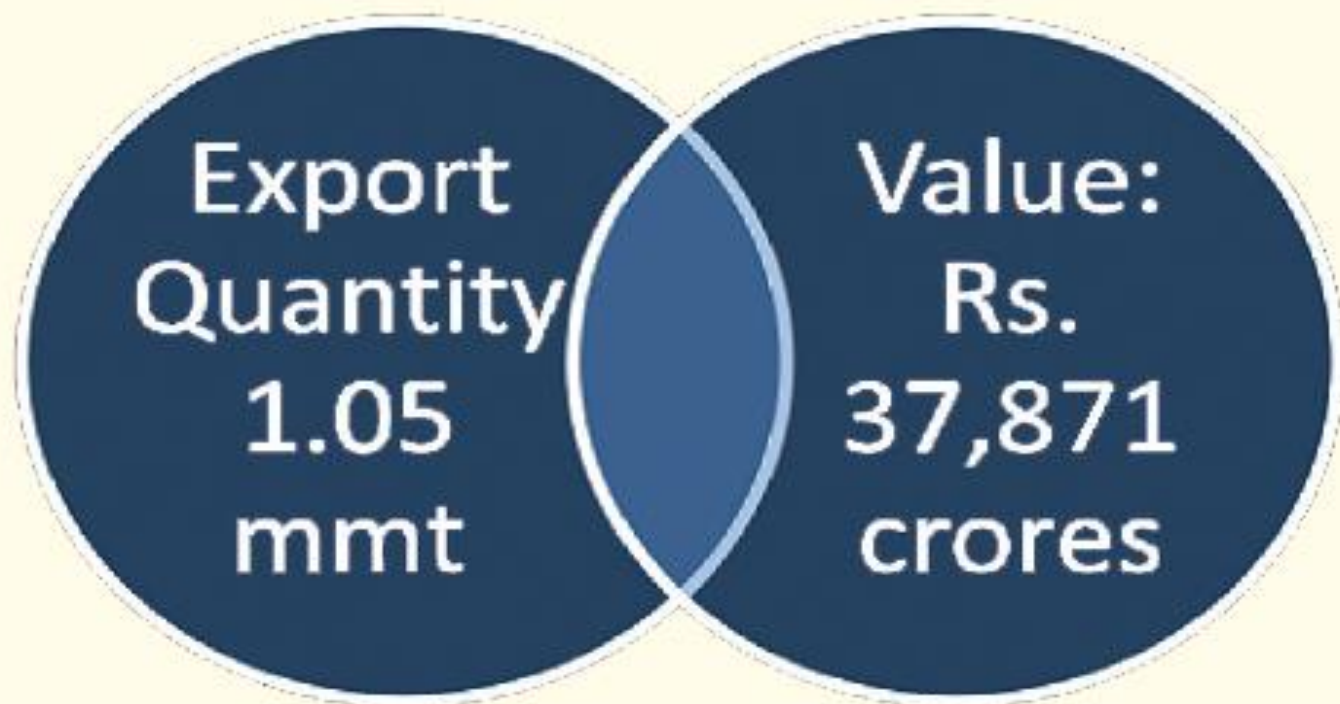




■ Culture Fishery

■ Capture Fishery

Aquaculture growth: 6-7%/year
in last 30 years



2016-17

Major Transformations

1. Shifting of focus from capture to Culture Fisheries

2. Empirical farming to knowledge based farming

3. Sustenance farming to commercial farming

RECENT ACHIEVEMENTS IN INDIAN AQUACULTURE



BRACKISHWATER FISH FARMING

CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE

केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान



மத்திய உவர்நீர் மீன் வளர்ப்பு ஆராய்ச்சி நிலையம்

(Indian Council of Agricultural Research)

Breakthrough in Breeding of Brackishwater Ornamental fish Spotted Scat (Scatophagus Argus) at Central Institute of Brackishwater Aquaculture, Chennai



BRACKISHWATER FISH FARMING

CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE

केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान



மத்திய உவர்நீர் மீன் வளர்ப்பு ஆராய்ச்சி நிலையம்

(Indian Council of Agricultural Research)

Breakthrough in king fish cobia (*Rachycentron Canadum*) breeding using land based pond reared domesticated broodstock



Land based domesticated broodstock of Cobia (*Rachycentron canadum*) maintained at CIBA



Broodstock Development, Induced Breeding and Larval Production of Cobia, *Rachycentron canadum* was achieved for the first time in India





CMFRI achieves yet another success in the finfish breeding first time in India. Pompano (*Trachynotus blochii*) at CMFRI, Mandapam



Pompano (*Trachinotus blochii*)

समुद्री उत्पाद निर्यात विकास प्राधिकरण

(वाणिज्य व उद्योग मंत्रालय, भारत सरकार)



THE MARINE PRODUCTS EXPORT DEVELOPMENT AUTHORITY

(Ministry of Commerce and Industry, Govt. of India)

MPEDA



**Breakthrough in Mud Crab (*Scylla serrata*) seed production by
Rajiv Gandhi Centre for Aquaculture (RGCA), MPEDA in
Tamil Nadu**



BREAKTHROUGH IN CULTURE OF MARINE COPEPODS



Major Breakthrough in culture of marine copepods, *Macrosetella gracilis* and *Oithona rigida* has been made at Marine Planktonology & Aquaculture Lab., Department of Marine Science, Bharathidasan University, Tiruchirappalli-24, Tamil Nadu under DBT financial support.



BRACKISHWATER FISH FARMING

CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE

केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान



மத்திய உவர்நீர் மீன் வளர்ப்பு ஆராய்ச்சி நிலையம்

(Indian Council of Agricultural Research)

Successful captive rearing of Hilsa (*Tenualosa ilisha*) using natural seed in brackishwater pond to the stage of maturity for the first time by ICAR-CIBA at Kakdwip, West Bengal

