



FISH CATCH STATISTICS OF BANGLADESH

1990-91

DEPARTMENT OF FISHERIES

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PREFACE

The present report is the seventh in the series of the Fish Catch Statistics of Bangladesh for the financial year 1990-91 (July 1990 to June 1991)!

This report presents the fish & shell fish catch (landed) by sectors & habitat by species or group and by greater district of Bangladesh. In addition the information on the carp spawn collected from natural sources & produced through induced spawning in hatcheries for aquaculture are also presented in the report. The catch is estimated on the basis of the frame data of water area & fishing units acquired during 1981-83 by old district. The frame now need to be updated by 64 new districts. We have a plan to update the frame & present catch statistics by 64 new districts in near future.

We hope that this report will be useful for planning, development and management of the fisheries in Bangladesh.

Any comments for improving the fishery statistics would be greatly appreciated.

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TABLE-1
Table—Annual Total catch and Area Productivities by Sectors of Fisheries
for July 1990—June 1991

Sector of Fisheries	Water Area (Hectare)	Total Catch (Metric Ton)	Catch/Area (Kg/Hectare)
A. Inland Fisheries ..			
(a) Capture			
1 River & Estuaries Except Sundarban Area	1,031,563	135,355	131
2 Sundarban		6,651	..
3 Beels ..	114,161	47,923	420
4 Kaptai Lake	68,800	4,392	64
5 Flood Lands	2,832,792	249,083	88
<i>Capture Total</i>	<i>4,047,316</i>	<i>443,400</i>	<i>49.5%</i>
(b) Culture			
1 Ponds	146,890	181,018	1,232
2 Baors ..	5,488	1,544	281
3 Shrimp Farms	108,280	28,431	263
<i>Culture Total</i>	<i>260,558</i>	<i>210,993</i>	<i>23.5%</i>
<i>Inland Total</i>	<i>4,307,316</i>	<i>654,397</i>	<i>73.0%</i>
B. Marine Fisheries			
(a) Industrial Fisheries (Trawl)		8,760	
(b) Artisanal Fisheries ..		232,778	
<i>Marine Total</i> ..		<i>241,538</i>	<i>27.0%</i>
<i>Country Total</i>		<i>895,935</i>	<i>100%</i>

- SOURCE:** 1. Total catch by sectors of the inland fisheries except Kaptai Lake and Sundarban area were estimated by the Fisheries Resources Survey System of the Department of Fisheries.
2. Kaptai Lake catch has been estimated by BFDC and Sundarban catch by Forest Department.
3. Total catch of the marine fisheries were estimated by the Marine Fisheries Department.

TABLE—2

Table—2 Species Group-wise Catch in Inland Marine Fisheries 1990-91

[Units : Metric Ton]

Species	Inland Fisheries	Marine Fisheries	Total	%
Major Carp	120,178	..	120,178	13.41
Other Carp	16,473	..	16,473	1.84
Exotic Carp	24,858	..	24,858	2.77
Cat Fish	30,361	..	30,361	3.39
Snake Head	25,625	..	25,625	2.86
Live Fish	39,015	..	39,015	4.35
Other Inland Fish	268,327	..	268,327	29.95
Hilsa/Illish	66,809	115,358	182,167	20.33
Bombay Duck(Harpondon neherus) ..	..	19,209	19,209	2.14
Indian Salmon (Polydactylus indicus) ..	..	974	974	0.11
Pomfret (Rup-Hail-Foli Chanda) ..	..	3,922	3,922	0.44
Jew Fish(Poa, Lambu, Kaladatina etc.) ..	..	9,759	9,759	1.09
Sea Cat Fish (<i>Tachysurus Spp.</i>) ..	..	11,820	11,820	1.32
Sharks, Skates & Rays	..	3,266	3,266	0.36
Other Marine Fish	..	56,597	59,597	6.65
Shrimp	62,751	17,633	80,384	8.97
TOTAL	654,397	241,538	895,935	100
%	73.04	26.96	100	..

- NOTE :
1. Major Carp — Rui, Catla, Mrigal
 2. Exotic Carp — Silver Carp, Common Carp, Mirror Carp, Grass Carp
 3. Other Carp—Ghania, Kalbasu, Kalia
 4. Cat Fish—Rita, Boal, Pangas, Chital, Silon, Aor, Bacha
 5. Snake Head—Shol, Gazark. Taki
 6. Live Fish—Koi, Singhi, Magur
 7. Other Marine Fish includes all other marine fishes except those mentioned above.

TABLE-3—Annual Total catch of the Inland Waters by District 1990-91

Old District	River & Estuaries	Sund-arban	Beel	Kaptai lake	Flood land	Pond	Baor	Shrimp Farm	Total
(Unit: Metric Ton)									
Chittagong & C.H.Ts.	15,128		197	4,392	13,137	17,364		4,881	55,099
Comilla	12,556	..	477	..	34,759	26,371	..	..	74,163
Noakhali	22,535	..	1	..	14,862	11,928	..	10	49,336
Sylhet	17,613	..	19,232	..	26,221	7,223	..	..	70,289
Dhaka	3,850	..	1,215	..	23,789	6,102	..	..	34,956
Faridpur	982	..	568	..	9,056	5,476	206	..	16,288
Jamalpur	864	..	..	..	8,924	1,844	..	..	11,632
Mymensingh	4,208	..	14,533	..	28,704	11,928	..	..	59,373
Tangail	726	..	732	..	5,014	1,726	..	..	8,198
Barisal	34,554	..	25	..	11,606	12,638	..	7	58,830
Jessore	2,444	..	1,158	..	6,422	17,611	956	201	28,792
Khulna	5,523	6,651	84	..	12,350	8,464	71	23,237	56,380
Kushtia	300	..	505	..	2,212	1,424	311	..	4,752
Patuakhali	8,695	..	..	..	7,424	7,698	..	95	23,912
Bogra	348	..	1,353	..	4,055	8,220	..	..	13,976
Dinajpur	107	..	248	..	4,929	9,296	..	..	14,580
Pabna	2,683	..	981	..	5,118	5,428	..	..	14,210
Rajshahi	888	..	4,660	..	14,988	17,433	..	..	37,969
Rangpur	1,351	..	1,954	..	15,513	2,844	..	..	21,662
TOTAL	135,355	6,651	47,923	4,392	249,083	181,018	1,544	28,431	654,397
%	..	..20.68	1.02	0.67	38.06	27.66	0.24	4.34	100

SOURCE: 1. Catch Assessment Survey

2. Beel catch of Jamalpur is included in Mymensingh District

TABLE-4
Annual Catch of the Riverine Fisheries by River by District 1990-91

(Unit: Metric Ton)

Old District	Principal River						Other Rivers	Total
	Lower Meghna	Upper Meghna	Lower Padma	Upper Padma	Jamuna	Brahmaputra		
Chittagong & C.H. Ts.	..	..	..	..	..	..	15128	15128
Comilla	4615	3320	..	..	..	..	4621	12556
Noakhali	22178	..	..	..	..	..	357	22535
Sylhet	..	56	..	..	..	..	17557	17613
Dhaka	..	1386	809	..	724	..	931	3850
Faridpur	127	..	221	66	..	..	568	982
Jamalpur	..	..	..	..	560	15	289	864
Mymensingh	..	1164	..	..	..	..	3044	4208
Tangail	..	..	..	..	160	..	566	726
Barisal	21990	..	..	..	..	..	12564	34554
Jessore	..	..	..	..	..	..	2444	2444
Khulna	..	..	..	..	..	..	5523	5523
Kushtia	..	..	..	155	..	..	145	300
Potua khali	..	..	..	..	..	..	8696	8695
Bogra ..	..	..	..	..	94	..	254	348
Dinajpur	..	..	..	..	..	..	107	107
Pabna	..	..	..	389	532	..	1762	2683
Rajshahi	..	..	..	227	..	..	661	888
Rangpur	..	..	..	..	217	360	774	1351
TOTAL	48910	5926	1030	837	2287	375	75990	135355
%	36.13	4.38	0.76	0.62	1.69	0.28	56.14	100

SOURCE: Catch Assessment Survey

TABLE-5

Annual Total Catch in principal Rivers 1990-91

(a) Annual Catch by Species

(Unit : Metric Ton)

Name of River	Major carp	Other carp	Cat fish	Snake Head	Live fish	Hilsa shrimp	Big shrimp	Small shrimp	Misc.	Total
Lower Meghna ..	..	0	198	424	0	0	42892	24	724	4648 48910
Upper Meghna ..	..	661	174	511	1	0	981	157	823	2618 5926
Sub-Total	..	661	372	935	1	0	43873	181	1547	7266 54836
Lower Padma ..	..	56	21	94	3	0	332	0	13	511 1030
Upper Padma ..	..	21	3	32	1	0	233	8	125	414 837
Sub-Total	..	77	24	126	4	0	565	8	138	925 1867
Jumuna ..	..	95	127	222	0	0	232	4	131	1476 2287
Brabmaputra ..	..	42	0	117	0	0	2	0	8	206 375
Sub-Total	..	137	127	339	0	0	234	4	139	1682 2662
TOTAL	..	875	523	1400	5	0	44672	193	1824	9873 59365

TABLE-6
Annual Catch in Principal Rivers by District by Species 1990-91

(Unit : Metric Ton)

Name of River	Major carp	Other carp	Cat Fish	Snake Head	Live Fish	Hilsha	Big shrimp	Small shrimp	Misc.	Total
Lower Meghna	...	0	198	424	0	42892	24	724	4648	48910
Comilla	...	0	198	132	0	3907	24	121	233	4615
Barisal	...	0	0	283	0	19660	0	0	2047	21990
Noakhali	...	0	0	8	0	19199	0	603	2368	22178
Faridpur	...	0	0	1	0	126	0	0	0	127
Upper Meghna	...	661	174	511	1	981	157	823	2618	5926
Comilla	...	545	89	299	0	698	46	403	1240	3320
Sylhet	...	2	1	5	1	21	0	5	21	56
Mymensingh	...	32	80	113	0	0	86	308	545	1164
Dhaka	...	82	4	94	0	262	25	107	812	1386
Lower Padma	...	56	21	94	3	332	0	13	511	1030
Faridpur	...	0	0	3	1	163	0	0	54	221
Dhaka	...	56	21	91	2	169	0	13	457	809
Upper Padma	...	21	3	32	1	233	8	125	414	837
Rajshahi	...	9	3	27	0	40	8	17	123	227
Pabna	...	2	0	4	0	185	0	1	197	389
Kushtia	...	10	0	1	1	8	0	105	30	155
Faridpur	...	0	0	0	0	0	0	2	64	66

(*) Secondary or minor

Name of River	Major carp		Other carp		Cat Fish	Shake Head	Live Fish	Hilsha	Big shrimp	Small shrimp	Misc	Total
Jamuna	..	95	127	222	0	0	0	232	4	131	1476	2287
Rangpur	..	16	45	41	0	0	0	59	0	11	45	217
Jamalpur	..	28	80	61	0	0	0	143	4	54	190	560
Bogra	..	0	0	2	0	0	0	0	0	21	90	94
Tangail	..	7	0	3	0	0	0	9	0	10	131	160
Pabna	..	8	2	13	0	0	0	17	0	42	450	532
Dhaka	..	36	0	102	0	0	0	4	0	12	570	724
Brahmaputra	..	42	0	117	0	0	0	2	0	8	206	375
Rangpur	..	42	0	116	0	0	0	2	0	7	193	360
Jamalpur	..	0	0	1	0	0	0	0	0	1	13	15

SOURCE : Catch Assessment

Source : Catch Assessment Survey.

TABLE-7
Annual Catch in Other Rivers by District by Species 1990-91

Old Districts	(Unit : Metric Ton)					(Unit : Metric Ton)		
	Major carp	Other carp	Cat Fish	Snake Head	Live Fish	Hilsa	Big shrimp	Total
Chittagong & C.H.Ts.								
Comilla	58	9	20	0	0	0	61	11637
Noakhali	389	241	334	97	14	202	83	451
Sylhet	47	4	63	0	25	4	14	67
Dhaka	2268	1028	4039	33	0	1974	0	86
Faridpur	55	7	45	0	2	5	4	209
Jamalpur	23	15	44	1	0	124	2	15
Mymensingh	2	9	4	0	2	2	0	4
Tangail	117	282	422	9	0	0	4	666
Barisal	24	2	17	1	22	0	0	6
Jessore	0	0	255	0	0	10981	0	121
Khulna	1	0	5	42	120	337	1	843
Kushtia	0	0	16	0	12	1068	378	2112
Patuakhali	4	0	0	0	0	24	8	63
Bogra	0	0	81	0	0	6704	37	643
Dinajpur	0	0	17	0	0	0	0	0
Pabna	2	0	5	0	1	0	0	0
Rajshahi	0	0	0	0	0	62	0	1020
Rangpur	2	6	1	0	0	5	0	0
	9	0	36	0	0	0	0	21
Total	3001	1603	5404	183	198	21492	592	17964
%	3.9	2.1	7.1	0.2	0.3	28.3	0.8	23.6
								75990
								33.6
								100

REMARKS : 1. Catch of Chittagong Hill Tracts is included in Chittagong.

2. Catch in Sundarbans is not included in Khulna.

SOURCE : Catch Assessment Survey.

23/11/91

TABLE-8
Annual Catch in All Rivers by District by Species 1990-91

Old Districts	(Unit : Metric Ton)									
	Major carp	Other carp	Cat Fish	Snake Head	Live Fish	Hilsha	Big shrimp	Small Shrimp	Misc.	Total
Chittagong & C.H.Ts.										
Comilla	58	9	20	0	0	0	61	11637	3343	15128
Noakhali	934	528	765	97	14	4807	153	975	4283	12556
Sylhet	47	4	71	0	25	19203	14	670	2501	22535
Dhaka	2270	1029	4044	34	0	1995	0	91	8150	17613
Faridpur	229	32	332	2	2	440	29	341	2443	3850
Jamalpur	23	15	48	2	0	413	2	17	462	982
Mymensingi	30	89	66	0	2	145	4	59	469	864
Tangail	149	362	535	9	0	0	90	974	2089	4208
Barisal	31	2	20	1	22	9	0	16	625	726
Jessore	0	0	538	0	0	30641	0	121	3254	34554
Khulna	1	0	5	42	120	337	1	843	1095	2444
Kushtia	0	0	16	0	12	1068	378	2112	1937	5523
Patuakhali	14	0	1	1	0	32	8	168	76	300
Bogra	0	0	81	0	0	6704	37	643	1230	8695
Dinajpur	0	0	19	0	0	0	0	2	327	348
Pabna	2	0	5	0	1	0	0	0	99	107
Rajshahi	10	2	17	0	0	264	0	1063	1327	2683
Rangpur	11	9	28	0	0	45	8	17	770	888
	67	45	193	0	0	61	0	39	946	1351
Total	3876	2126	6804	188	198	66164	785	19788	35426	135355
%	2.9	1.6	5.0	0.1	0.1	48.9	0.6	14.6	26.2	100

TABLE 9
Annual Total Catch of the Beel Fisheries 1990-91

Old District			Area of Beels (Hectare)	Estimated Annual Total Catch (Metric Ton)
Chittagong	..	..	456	197
Comilla	..	..	1,103	477
Noakhali	..	..	3	1
Sylhet	..	..	32,700	19,232
Dhaka	..	..	4,918	1,215
Faridpur	..	..	1,915	568
Jamalpur	..	..	..	..
Mymensingh	..	..	29,406	14,533
Tangail	..	..	2,333	732
Barisal	..	..	79	25
Jessore	..	..	5,037	1,158
Khulna	..	..	365	84
Kushtia	..	..	2,197	505
Patuakhali	..	..	..	..
Bogra	..	..	3,801	1,353
Dinajpur	..	..	1,252	248
Pabna	..	..	3,255	981
Rajshahi	..	..	19,849	4,660
Rangpur	..	..	5,492	1,954
TOTAL	..	..	114,161	47,923

SOURCE : Area of Beel—SPARRSO Report (Beels & Dead Rivers).

Catch—Catch Assessment Survey by the Fisheries Resources Survey System.

NOTE : Catch of Jamalpur is included in Mymensingh District.

TABLE 10
Species composition (Percentage of Weight) of Beel Catch 1990-91

Species	Pile Fishery	Annual Fishery
Rui (<i>Labeo rohita</i>)	12.50	7.80
Catla (<i>Catla catla</i>)	5.40	5.75
Mrigal (<i>Cirrhinus mrigala</i>)	6.50	2.68
Kalbasu (<i>Labeo calbasu</i>)	11.00	4.43
Gonia (<i>Labeo gonius</i>)	8.60	8.21
Boal (<i>Wallago attu</i>)	11.59	18.02
Air (<i>Mystus aor</i> / <i>Mystus Seenghala</i>)	2.50	2.00
Shol/Gazar (<i>Channa Spp.</i>)	4.70	1.05
Chital/Phali (<i>Notopterus chitala</i> / <i>N. notopterus</i>)	2.40	3.26
Koi (<i>Anabas testudineus</i>)	1.50	0.30
Singi/Magur (<i>Heteropneustes fossilis</i> / <i>Clarias batrachus</i>)	1.25	0.15
Sarpunti (<i>Puntius sarana</i>)	2.00	0.60
Large Shrimp (<i>Macrobrachium rosenbergii</i> / <i>M. malcomsonii</i>)	..	..
Small Shrimp	4.75	3.00
Carpio (<i>Cyprinus carpio</i>)	..	..
Pabda (<i>Ompok pabda</i>)	2.50	1.15
Punti (<i>Puntius Spp.</i>)	..	..
Tengra (<i>Mystus Spp.</i>)	..	..
Baim (<i>Mastacembelus Spp.</i>)	..	..
Chapila (<i>Gudusia chapra</i>)	..	..
Others	22.81	41.60
TOTAL	100	100

NOTE : Based on sample beel survey of Mymensingh & Sylhet old districts.

TABLE-11

Annual Catch of Kaptai Lake 1990-91

Species	Catch in Metric Ton
Rui (<i>Labeo rohita</i>)	96
Catla (<i>Catla catla</i>)	101
Mrigal (<i>Cirrhinus/Mrigala</i>)	60
Kalbasu (<i>Lab2o calbasu</i>)	74
Gonia (<i>Labeo gonius</i>)	133
Boal (<i>Wallago attu</i>)	34
Air (<i>Mystus aor/Mystus Seenghala</i>)	149
Shol/Gazar (<i>Channa Spp.</i>)	57
Chital (<i>Notopterus chitala</i>)	171
Phali (<i>Notopteras notopterus</i>)	121
Bacha (<i>Eutropiichthys vacha</i>)	28
Punti (<i>Puntius Spp.</i>)	..
Tengra/Pabda (<i>Mystus tengra/Ompok pabda</i>)	44
Baim (<i>Mastacembelus Spp.</i>)	1
Chapila (<i>Gudusia chapra</i>)	659
Talapia/Silver carp	25
Others	2,639
TOTAL	4,392

SOURCE: Bangladesh Fisheries Development Corporation.

TABLE 12
Annual Total Catch in Flood Land 1990-91

Old District	No. of Subsistence Fisheries House-hold (000)	Average Catch per House- hold (kg)	Total Catch Estimated (m. t.)
Chittagong	656	17.80	11,677
Chittagong Hill Tracts	82	17.80	1,460
Comilla	921	37.74	34,759
Noakhali	425	34.97	14,862
Sylhet	738	35.53	26,221
Dhaka	1169	20.35	23,789
Faridpur	483	18.75	9,056
Jamalpur	418	21.35	8,924
Mymensingh	947	30.31	28,704
Tangail	230	21.80	5,014
Barisal	567	20.47	11,606
Jessore	338	19.00	6,422
Khulna	497	24.85	12,350
Kushtia	179	12.36	2,212
Patuakhali	245	30.30	7,424
Bogra	379	10.70	4,055
Dinajpur	456	10.81	4,929
Pabna	229	22.35	5,118
Rajshahi	819	18.30	14,988
Rangpur	888	17.47	15,513
TOTAL	10,666	23.35	249,083

SOURCE: Catch Assessment of Subsistence Fisheries.

TABLE-13
Species Group Composition (Percentage of weight) of Subsistence
Catch by District 1990-91

Old District	Carp	Catch Fish	Snake Head	Live Fish	Other Inland Fish	Small Shrimp ..	Total
Chittagong & C.H.Ts.	..	..	..	11.72	68.91	19.37	100
Comilla	13.48	2.79	5.76	7.65	49.48	20.84	100
Noakhali	6.43	2.01	29.49	30.16	29.94	1.97	100
Sylhet	1.90	1.25	3.08	1.99	81.48	10.30	100
Dhaka	8.69	6.81	11.80	12.72	31.81	28.17	100
Faridpur	..	33.97	0.35	2.79	62.89	..	100
Jamalpur	..	..	5.90	5.95	86.12	2.03	100
Mymensingh	..	..	25.56	28.53	45.91	..	100
Tangail	..	..	..	..	100.00	..	100
Barisal	2.68	..	1.11	0.26	76.52	19.43	100
Jessore	..	..	12.02	8.01	79.97	..	100
Khulna	..	3.38	14.55	24.24	46.80	11.03	100
Kushtia	..	..	..	..	100.00	..	100
Patuakhali	..	..	0.45	0.10	65.25	34.20	100
Bogra	..	..	18.38	40.28	40.73	0.61	100
Dinajpur	26.10	..	..	31.79	42.11	..	100
Pabna	..	..	2.00	8.01	89.72	0.27	100
Rajshahi	..	4.14	..	..	95.86	..	100
Rangpur	2.62	12.35	16.54	8.17	58.03	2.29	100
COUNTRY TOTAL	3.26	3.51	7.74	11.70	65.87	7.92	100

NOTE : Based on sample village study.

TABLE-14
Total Area and Total Catch of ponds by District 1990-91

Old District

	Total Area of ponds (Acre)			Total Production of Ponds (ton)		
	Cultured	Culturable	Derelict	Cultured	Culturable	Derelict
Chittagong	17,850	16,211	1,288	10,889	6,343	132
Comilla	22,546	7,695	3,243	22,102	3,508	761
Noakhali	18,653	6,366	2,683	9,616	1,639	673
Sylhet	4,946	6,901	10,583	22,430	1,728	2,495
Dhaka	6,091	6,876	3,990	16,957	1,102	430
Faridpur	5,612	6,335	3,675	15,622	1,015	590
Jamalpur	1,509	1,042	994	1,314	271	259
Mymensingh	16,779	3,188	1,874	10,363	1,148	417
Tangail	1,533	1,059	1,010	929	488	309
Barisal	17,790	6,819	4,463	9,413	1,980	1,245
Jessore	14,508	2,380	784	17,672	720	241
Khulna	10,282	1,684	1,339	16,650	590	161
Kushtia	2,125	871	790	7,713	244	170
Patuakhali	9,980	3,826	2,504	1,010	1,728	373
Bogra	7,254	4,724	2,051	5,597	1,338	680
Dinajpur	12,251	7,979	3,464	6,202	2,292	1,053
Pabna	5,582	8,207	4,508	5,951	1,708	754
Rajshahi	11,155	16,401	9,009	2,966	6,291	2,290
Rangpur	2,912	2,171	4,635	8,852	489	549
Total	189,358	110,735	62,887	132,814	34,622	13,582
%	52.17	30.51	17.33	73.37	19.13	75.0
				100		100

REMARKS

: Total catch were calculated with productivities by District by conditions of pond obtained by the Catch Assessment Survey of Ponds.

SOURCE

: Area-Calculated on the basis of data of 40 sample Thanas of SPARRO Report.
Productivities-Catch Assessment Survey of Ponds.

TABLE-15
Species Composition (Percentage)

Species	Chi	Com	Noa	Syl	Dha	Far	Jam	Mym
Rui (<i>Labeo rohita</i>)	17.66	28.07	29.15	25.61	37.62	27.35	32.14	19.74
Catla (<i>Catla catla</i>) ..	12.40	23.05	30.81	19.56	24.86	34.04	40.73	14.38
Mrigal (<i>Cirrhinus mrigala</i>)	17.89	23.13	26.66	10.09	20.12	18.39	10.85	13.98
Kalbasu (<i>Labeo calbasu</i>) ..	0.00	0.03	0.00	0.67	0.00	0.51	3.92	4.07
Minor Carp ..	1.24	14.93	3.21	7.42	0.00	2.24	0.00	11.32
Silver Carp (<i>Hypophthalmichthys molitrix</i>)	6.47	6.60	4.21	29.73	16.03	7.12	3.84	15.83
Grass Carp (<i>Ctenopharyngodon idellus</i>)	0.00	0.89	0.00	0.61	0.00	7.96	0.00	0.00
Mirror Carp (<i>Cyprinus Carpio</i> var. <i>specularis</i>)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.47
Tilapia (<i>Oreochromis Mossambicus/O. niloticus</i>)	23.79	1.94	0.00	1.50	0.00	0.77	3.34	0.00
Shrimp ..	1.20	0.00	0.00	0.00	0.00	0.21	0.00	1.31
Aor (<i>Mystus aor/Mystus seenghala</i>) ..	0.10	0.03	0.00	0.09	0.00	0.00	0.00	0.00
Boal (<i>Wallago attu</i>) ..	1.16	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Shol/Gazar & Taki (<i>Channa Spp.</i>)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
Chital/Phali (<i>Notopterus chitala/N. notopterus</i>)	0.71	0.00	0.00	0.04	0.01	0.04	0.00	2.87
Koi (<i>Anabas testudineus</i>) ..	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Singi/Magur (<i>Heteropneustes fossilis/Clarias batrachus</i>)	0.13	0.11	0.00	0.00	0.02	0.00	0.00	0.51
Sarpunti (<i>Puntius sarana</i>)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
punti (<i>Puntius sarana</i>)	0.53	0.00	0.42	0.07	0.02	0.00	1.17	3.75
Others ..	16.03	1.23	5.54	4.45	1.32	1.37	4.01	9.40
Total ..	100	100	100	100	100	100	100	100

of weight) of pound Catch (Cultured) by District (1990-91)

[illegible]

TABLE-16
Species Composition (Percentage of weight) of Pond Catch) (Cultured, Culturable & Derelict) 1990-91

Species	Cultured	Culturable	Derelict	Country
Rui (<i>Labeo rohita</i>)	..	31.78	6.20	2.81
Catla (<i>Catla catla</i>)	..	23.30	4.97	3.03
Mrigal (<i>Cirrhinus mrigala</i>)	..	15.14	6.00	2.94
Kalbasu (<i>Labeo calbasu</i>)	..	0.78	0.55	0.05
Minor Carp	..	4.74	1.08	0.15
Silver Carp (<i>Hypophthalmichthys molitrix</i>)	..	14.74	3.80	1.60
Grass Carp (<i>Ctenopharyngodon idellus</i>)	..	1.34	0.03	0.00
Mirror Carp (<i>Cyprinus carpio</i> var. <i>specularis</i>)	..	0.69	0.02	0.00
Tolapia (<i>Oreochromis mossambicus</i> /O. <i>niloticus</i>)	..	1.85	2.27	1.49
Shrimp	..	0.15	1.64	1.38
Aor (<i>Mystus aor</i> /Mystus <i>Seenghala</i>)	..	0.04	0.50	0.52
Boal (<i>Wallago attu</i>)	..	0.12	2.72	2.67
Shol/Gazar & Taki (<i>Channa Spp.</i>)	..	0.21	9.60	12.34
Chital/Fhali (<i>Notopterus chitala</i> /N. <i>notopterus</i>)	..	0.24	2.62	2.80
Koi (<i>Anabas testudineus</i>)	..	0.39	6.96	9.22
Singi/Magur (<i>Heteropneustes fossilis</i> /Clarias <i>batrachus</i>)	..	0.41	7.52	12.10
Sarpunti (<i>Puntius sarana</i>)	..	0.02	0.25	0.46
Punti (<i>Puntius Spp.</i>)	..	0.75	10.25	11.27
Others	..	3.31	33.02	35.17
TOTAL	..	100	100	100

SOURCE : Based on sample survey.

TABLE-17
Annual Total Catch of Baors 1990-91

Old District	Area of Baors in Hectare	Catch of Baors in Metric Ton
Faridpur	.. 965	206
Jessore	... 2,734	956
Khulna	... 331	71
Kushtia	.. 1,458	311
TOTAL	.. 5,488	1,544

(i) Catch rate of Govt. managed 7 Baors @486 Kg/ha.

(ii) Catch rate of Private managed Baors @213 Kg/ha. (Sample Baors)

Govt. managed Baors ; Bergobindapur, Baluhar, Joydia, Faridpur
Marjad, Kathgara, Jampa.

Private managed sample Baors ; Sirisdia Baonidaha, Simulia, Korincha,
Sarjad & Rajapur.

SOURCE ; Area SPARRSO Report.
Productivity : Catch Assesment Survey.

TABLE-18

Species Composition (% of weight) of Baor Catch 1990-91

Species		Govt. Baors	Private Baors
Major Carp	..	13.10	65.91
Other Carp	..	..	..
Exotic Carp	..	81.24	28.48
Cat Fish	..	..	..
Snake Head	..	..	0.01
Live Fish	..	..	..
Other Fish	..	5.66	5.32
Shrimp	..	..	..
TOTAL	..	100	100

SOURCE: Based on sample baors study by Fisheries Resources Survey System.

TABLE-19

Annual Total Catch of Shrimp Farm 1990-91

Old District		Area of Shrimp Farms in Hectare	Catch in Metric Ton		Total
			Shrimp	Fish	
Chittagong	..	27,453	3,323	1,558	4,881
Khulna		79,728	15,951	7286	23,237
Jessore	..	690	138	63	201
Patuakhali	..	326	65	30	95
Barisal	..	22	5	2	7
Noakhali	..	61	7	3	10
TOTAL		108,280	19,489	8,942	28,431

REMARKS : 1. Catch was estimated with the following productivities.

Average yield :

Khulna zone : Shrimp—200.07 kg/ha.

fish—91.39 kg/ha.

Chittagong zone : Shrimp 121.03 kg/ha.

Fish 56.76 kg/ha.

SOURCE : Catch Assessment survey.

TABLE-20

Species Composition of shrimp Catch (% of weight) from Shrimp Farms of Khulna and Chittagong Region 1990-91

Species	Khula Zone]	Chittagong Zone
Bagda (<i>P. monodon</i>)	51.42	59.86
Golda (<i>M. rosenbargii</i>)	5.85	0.22
Honna (<i>Metapenaeus monoceros</i>)	15.63	18.61
chaka (<i>P. indicus</i>).	1.50	6.32
Small Shrimp	25.60	14.99
TOTAL..	100	100

SOURCE ; Based on sample shrimp farms study.

TABLE-21

Species Group-wise Catch in Inland Fisheries by Sector 1990-91

Species	(Unit : Metric Ton)										
	River	Sundarban	Beel	Substance	Baor	Pond	Kaptai Lake	Sharimp farm	Total	% of Weight	
Major Carp	..	3,876	..	8,065	8,120	246	99,614	257	..	120,178	18.36
Other Carp	..	2,126	..	6,302	..	..	7,838	207	..	16,473	2.52
Exotic Carp	..	..	..	..	..	1,210	23,623	25	..	24,858	3.80
Cat Fish	..	6,804	..	10,917	8,743	1	3,421	475	..	30,361	4.64
Snake Head	..	188	..	633	19,279	1	5,467	57	..	25,625	3.92
Live Fish	..	198	..	297	29,143	..	9,377	..	..	39,015	5.96
Other Inland Fish	..	35,426	5,498	20,214	164,071	86	30,719	3,371	8,942	268,327	41.00
Hilsa/Ilish	..	66,164	645	..	..	..	..	..	..	66,809	10.21
Big Shrimp & Prawn	..	785	333	..	..	..	..	..	14,852	15,970	2.44
Small Shrimp & Prawn	..	19,788	175	1,495	19,727	..	959	..	4,637	46,781	7.15
TOTAL	..	135,355	6,651	47,923	249,083	1,544	181,018	4,392	28,431	654,397	100

SOURCE : Catch Assessment Survey.

TABLE-22
Annual Total Catch of the Marine Fisheries 1990-91

Type of Fishing	Number of Craft (Trawler/Boat)	Number of Unit (Gear/Net)	Catch in Metric Ton	
			Shrimp	Fish
A. Industrial				Total
(1) Trawl Fishing				
(a) Shrimp Trawler	41	--	3,650	3,345
(b) Fish Trawler	15	--	46	1,719
TOTAL Industrial	56	--	3,696	5,064
B. Artisanal				Total
(1) Gill Net Fishing				
(a) Mechanised	2,880	2,880	--	121,966
(b) Non-mechanised	3,509	3,509	--	19,983
SUB-TOTAL	6,389	6,389	--	141,949
(2) Set Bag Net Fishing				
(a) Seasonal (M.B)	182	5,400	3,220	42,780
(b) All Season (N.M.B)	2,680			46,000
SUB-TOTAL	4,590	7,215	8,992	13,489
(3) Long Line Fishing				
Jew Fish Long Line	7,452	12,615	12,212	56,269
(a) Mechanised	255	1,121	--	6,742
				6,742

Type of Fishing	Number of Craft (Trawler/Boat)	Number of Unit (Gear/Net)	Catch in Metric Ton	
			Shrimp	Fish
(b) Non-mechanised	127	963	..	2,779
(c) Other Long Line	1,000	2,084	..	9,521
SUB-TOTAL	1,382	500	345	3,285
(4) Trammel Net Fishing	500	2,222	1,380	7,817
(5) Other Gears Fishing	1,608	23,810	13,937	218,841
TOTAL Artisanal (M.B.)	3,317			232,778
(N.M.B.)	14,014			
GRAND TOTAL (Indus. + Artis.)	53	6,389	17,633	223,905
Trawler	3,317	12,615		
(M.B.)	14,014	2,084		
(N.M.B.)		2,222		
		Trammel		
		500		

M.B.—Mechanised Boat < N.M.B.—Non Mechanised Boat > SBN—Set Bag Net

TABLE-23
Species Group-wise Catch in Marine Fisheries by Type of Fishing Gear 1990-91

(Unit : Metric Ton)

Sector	Species							
	Hilsa	Bambay Indian Duck Salmon	Pomfret	Jew Fish	Cat Fish	Sharks & Rays	Other Marine Fish	Shrimp Total
A. Industrial								
(1) Trawl Fishing	..	15	606	101	1570	607	203	1,960 3,696 8,760
Artisanal								
(1) Gill Net Fishing								
a) Mechanised	97,573	..	366	2,439	610	6,098	1,220	13,660 .. 121,966
b) Non-mechanised	17,785	..	..	40	1,199	100	..	859 .. 19,983
SUB-TOTAL	115,358	..	366	2,479	1,809	6,198	1,220	14,519 .. 141,949
(2) Set Bag Net Fishing								
a) Seasonal	..	10,120	..	460	..	..	..	32,200 3,220 46,000
b) All Season	..	7,419	..	..	270	180	45	5,575 8,992 22,481
SUB-TOTAL	..	17,539	..	460	270	180	45	37,775 12,212 68,481
(3) Long Line Fishing								
a) Mechanised	..	..	..	..	3,304	1,888	1,280	270 .. 6,742
(b) Non Macchanished								

Sector

Species

	Hilsa	Bambay Duck	Indian Salmon	Pomfr. t	Jew Fish	Cat Fish	Sharks + Rays	Other Marine Fish	Shrimp	Total
(c) other Long Line	..	..	..	..	611	1,112	500	556	..	2,779
<i>SUB TOTAL</i>	..	..	..	..	3,915	3,000	1,780	826	..	9,521
(4) Trammel Net Fishing	..	..	..	54	908	363	18	1,942	345	3,630
(5) Other Gears Fishing	..	1,655	..	828	1,287	1,472	..	2,575	1,380	9,197
<i>TOTAL Artisanal</i>	115,358	19,194	366	3,821	8,189	11,213	3,063	57,637	13,937	232,778
<i>GRAND TOTAL</i>	115,358	19,209	974	3,922	9,759	11,820	3,266	59,597	17,633	241,538
(Industrial+Artisanal) %	47.76	7.95	0.40	1.62	4.04	4.89	1.35	24.67	7.30	100

TABLE-24

Comparison of Annual Total Catch of 1990-91 with Those of 1989-90

Sector of Fisheries	Annual Total Catch (MT)		Increase (B)--(A)	Percent Increase
	1989-90 (A)	1990-91 (B)		
A. Inland Fisheries				
(a) Capture				
1. River & Estuaries Except Sundarban Area	173,410	135,355	- 38055	- 21.9
2. Sundarban	6,393	6,651	258	4.0
3. Beels	46,594	47,923	1329	2.9
4. Kaptai Lake	3,713	4,392	679	18.3
5. Flood Lands	193,762	249,083	55321	28.6
Capture Total	423,872	443,404	19532	4.6
(b) Culture				
1. Ponds	163,730	181,018	17288	10.6
2. Baors	1,357	1,544	187	13.8
3. Shrimp Farms	27,505	28,431	926	3.4
Culture Total	192,592	210,993	18401	9.6
Inland Total	616,464	654,397	37933	6.2
B. Marine Fisheries				
(a) Industrial Fisheries(Trawl)	11,379	8,760	2619	- 23.0
(b) Artisanal Fisheries	227,684	232,778	5094	2.2
Marine Total	239,063	241,538	2475	1.0
COUNTRY TOTAL	855,527	895,935	40408	4.7

TABLE-25

Production of Carp Hatchling in Bangladesh 1991

Sources of Production	Quantity of Hatchling Produced (kg)
A. Natural Sources	6,855.38
B. Artificial Sources	
i) Govt. Hatcheries/Fish Seed Farms	2,062.00
ii) F. R. I	450.00
iii) Private Hatcheries	22,170.85
TOTAL	31,538.23

TABLE-26
Information on Hatchlings Production in Govt. Hatcheries and Fish Seed Farms, 1991

Hatchery	No. of Hatcheries	Quantity of Hatchling Produced (kg)
1. Fish Seed farms and Hatcheries of		
(a) Dhaka Division	19	289.00
(b) Chittagong Division	20	353.00
(c) Khulna Division	24	374.00
(d) Rajshahi Division	20	660.00
2. Central Hatchery of Baor Dev. Project (Jhenidaha)	1	181.00
3. Raipur Fish Hatchery and Training Centre	1	150.00
4. Gulshan Lake Hatchery	1	25.00
5. Hatchery of Fishery Research Institute, Mymensingh	1	375.00
6. Hatchery of Riverine fishery Research Institute, Chandpur	1	75.00
8. Faridpur Training & Extension Centre	1	30.00
Total		89 2512.00

Note: There are an estimated 4 (four) lakh fry in 1 (one) kg. of 4-5 day old hatchling.

TABLE-27

Production of Hatchling (4-5 days old fry) from Hatheries in Private Sector in 1991(Division-wise)

DIVISION	No . of Hatheries	Quantity of Hatchling (4-5 days old fry) Produced (kg)
Chittagong	77	5,935.00
Dhaka	39	1,215.30
Rajshahi	33	2,611.25
Khulna	69	12,409.30
Total	218	22,170.85

TABLE-28
Report of Carp Spawn/Fertilized Egg Collection from Natural Sources-1991

District	Upa-Zila	Collection Centre	Name of river	Number of								Collection Period	Frequ-ency of Spawning Time	Quantity of Spawn/Fertilized Egg Caught (kg).	Sale Rate Tk/kg	Remarks
1	2	3	4	5	6	7	8	Savar People Nct Boat Engaged Used		9	10	11	12	13		
Kurigram	Ulipur	Shahab Agla Brahmaputra		5	76	126	10	26-07-91—29-09-91	2	111.00	700	1000				
	Rahumari	Rahumari	"	2	22	21	21	28-05-91—04-06-91	1	32.00						
	Chilmari	Natakandi	"	2	19	25	2	10-06-91—30-06-91	1	10.00						
	Kurigram	Jatrapurhat	"	6	60	67	1	28-05-91—03-06-91	1	46.00						
	Razibpur	Sankar Madhabpur	"	1	17	30	2	15-05-91—30-06-91	1	21.50						
Sub-Total				16	194	269	15			220.50						
Gaibandha	Fulchari	Rasulpur, Gagaria	Jamuna	8	32	210	3	26-05-91—27-06-91	1	205.00	500	2000				
	Gaibanda	Kamarjani, Balashihat	"	8	83	220	8	26-05-91—27-05-91	1	128.00						
	Saghata	Saghata, Munshihata	"	20	170	466	20	25-05-91—26-06-91	1	215.00	1600	2000				
	Sub-Total			36	285	896	31			548.00						
	Madarganj	Migaganj, Nagar, Nabichar	Jamuna	3	47	100	5	25-05-91—08-06-91	1	127.00	2500	3000				
Jamalpur	Deawanganj	Bahadurabad	"	2	40	10	2	16-06-91	1	100.00	2000					
	Sub-Total			1	100.00	2000										

District	Upa-Zila	Collection Centre	Name of river	Number of Savar People Bet Noat Engaged Used Used										Collection Period	Frequency of Spawning Time	Quantity of Spawn/Fertilized Egg Caught (kg)	Sale Rate Tk/kg	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13						
	Islampur	Kulkandi, Pullakandi	Jamuna	7	90	11	27	30-05-91—05-06-91	1	60.00	1000	3000						
	Sarishabari	Jagantathganjghat	"	5	107	152	11	29-05-91—25-06-91	1	104.00	2000	4000						
Sub-Total		7		17	254	303	45					391.00						
Tangail	Gopalpur	Jagatpur	Jamuna	5	40	85	10	20-05-91—15-06-91	2	31.00	3000							
	Bhuapur	Bhuapur Ferryghat Konabari	"	25	207	1349	25	03-05-91—04-06-91		2294.20								
Sub-Total		3		30	247	1434	35					2325.20						
Bogra	Sonatala	Khakuliaghata	Jamuna	5	124	220	10	30-05-91—06-06-91	2	87.00	1000	2000						
Sub-Total		1		5	124	220	10					87.00						
Sirajganj	Sirajganj	Sirajganj ghat,	Jamuna	150	72	300	10	07-06-91—01-07-91	10	642.00	1000	5000						
	Kazipur	Bedhgari to Maizbari	"	5	33	125	5	06-06-91—20-06-91	1	214.00	5000	1000						
	Chouhali	Sakpasa, Datta, Kandi, Arjasuta Amitpur	"	4	20	68	..	16-05-91—28-06-91		33.00	800	4000						

District	Upa-Zila	Collection Centre	Name of river	Number of					Collection Period	Frequency of Spawning Time	Quantity of Spawn/Fertilized Egg Caught (kg)	Sale Rate Tk/kg	Remarks
				Savar People Engaged	Net Boat Used	Boat	Engaged	Used					
1	2	3	4	5	6	7	8	9	10	11	12	13	
Belkachi	Delua, Sohagpur	Jamuna	57	214	861	..	12-05-91—29-05-91	2	129.00	1500	4000		
	Gaghboara												
	Manikdair	"	5	40	100	5	18-05-91—20-05-91	2	111.00				
Sub-Total		12		221	379	1454	20			1129.00			
Manikganj Shivalaya	Jheekutia, Satur	Jamuna	3	2	6	3				55.40			
			3	2	6	3				55.40			
Pabna	Boalatalai	Jamuna	8	40	40	8	11-05-91—16-05-91	2	102.00	5500			
	Sonatali, Gopalp	"	10	55	500	18	01-06-91—12-05-91		96.00				
			18	95	540	26			198.00				
Sub-Total		3		346	1580	5122	185			4954.10			
Brahmaputra Jamuna Total		40											
Rajshahi	Godagari	Dumuria, Farhadbad	10	80	117	1	22-07-91—24-07-91	1	17.00	1800	3000		
	Poba	Char Majardiar, Kashabpur, Bulonpur, Nabaganga	10	14	155	10	20-07-91—10-08-91	3	30.00	1000	3000		
	Charghat Bagha	Chatghat Khairhat, Murshidpur	17	19	89	6	11-07-91—28-07-91	1	41.00				
			32	120	124	7	08-07-91—11-07-91	2	88.00	1000	1200		
Sub-Total		12		69	233	485	24			176.00			

District	Upa-Zila	Collection Centre	Name of river	Number of				Collection Period	Frequ-ency of Spawning Time	Quan-ty of Spawn/Fertilized Egg Caught (kg)	Sale Rate Tk/kg	Re-marks
				Savar	People	Net	Boat					
				Engaged Used								
1	2	3	4	5	6	7	8	9	10	11	12	13
	Char Bhadrason	Char Maniar, Acoterchar	Lower Padma	5	26	50	10	30-05-91—07-06-91	1	157.00	2500	..
Sub-Total		5		155	449	2363	160			509.00		..
Lower Padma Total		7		163	512	2452	168			543.70		..
Upper + Lower Padma Total		26		254	901	3200	210			852.20		..
Rajshahi	Charghat	Charghat Zikra Boral		3	35	33	4	11-07-91—26-07-91	1	48.00		..
Boral Total		2		3	35	33	4			48.00		..
Tangail	Delduar	Alasinghat, Ghonapara, Deauli	Dhaleshwari	7	120	48	6	28-04-91—01-05-91	3	42.33		..
	Nagarpur	Alasinghat, Panhtara		3	19	60	3	13-05-91—15-05-91 11-06-91—14-06-91 26-06-91—01-07-91	1	26.00	4000	..
Sub-Total		5		10	139	108	9			68.33		..

District	Upa-zila	Collection Centre	Name of river	Number of			
				Savar	People engaged	Net Used	Boat Used
1	2	3	4	5	6	7	8
Manikganj	Saturia	Rajor, Gopalpur Tili	Dhaleshwari	6	19	97	6
	Ghior	Jabra, Manchan	,,	3	17	73	3
Sub Total		5		9	36	170	9
Dhaleshwari Total		10		19	175	278	18
Kushtia	Kamarkhali	Kamarkhali	Gorai	1	8	25	1
	Khoska	Kumarbag, Khalpar	,,	2	5	22	2
Gorai Total		3		3	13	47	3
Narail	Lohagara	Amdanga	Madhumati	2	11	24	4
Madhumati Total		1		2	11	24	4
Madaripur	Sibchar	Kalatala, Arial Khan Datta		7	59	100	12
		Para, Char Kunar Kandi					
Sub total		3		7	59	100	12
Faridpur	Madhukhali	Madhukhali	Arial Khan	9	..	175	15
Sub total		1		9	..	175	15
Arial Khan Total		4		16	59	275	27

Collection Period	Frequency of Spawning Time	Quantity of Spawn/ Fertilized Egg Caught (kg)	Sale Rate Tk/kg	Remarks
9	10	11	12	13
		61.00		
15.06.91-20.06.91	1	11.25		
		72.25		
		140.55		
02.07.91-05.07.91	4	17.10	1500	2000
27.07.91-24.08.91 26.08.91	2	9.00	1500	
		26.10		
28.06.91-29.06.91 14.07.91-16.07.91 29.07.91-30.07.91		6.50		
		6.50		
15.05.91-28.06.91 01.07.91		40.00	2500	2600
		40.00		
		15.50		
		15.50		
		55.50		

District	Upa-Zila	Collection Centre	Name of river	Number of			
				Savar engaged	People Net Used	Boat Used	
1	2	3	4	5	6	7	8
Madaripur	Rajor	Sankarpur, Bishwambarpur	Kumar	17	134	174	17
Kumar Total		2		17	134	174	17
Manikganj	Manikganj	Bauthas, Giland	Kaliganga	4	16	66	4
Kaliganga total		2		4	16	66	4
Chittagong	Hathazari	Satyerghat Modhunagar	Halda	46	34	..	117
Halda Total		2		46	34	..	117
Country Total		92		710	2958	92149	589

Collection Period	Frequency of Spawning Time	Quantity of Spawn/ Fertilized Egg Caught (kg)	Sale Rate Tk/kg	Remarks.
9	10	11	12	13
16.06.91-18.06.91	1	28.00		
		28.00		
		42.00		
		42.00		
02-05-91—03-05-91		702.40		
10-06-91—11-06-91		702.40		
		6855.38		

TABLE-29

Export of Fish & Fish Products 1990-91

Quantity in Ton
Value in Million Taka

Item	Quantity	Value
Frozen Shrimp	17,985	4,512
Frozen Fin fish	5,702	414
Frozen Frog leg	318	74
Dry fish	427	58
Salted & Dehydrated fish	1,194	139
Shark fin & Fish maw	78	37
Turtles/Tortoise	72	5
Crab	333	27
Total	26,109	5,266
Percentage of total export earning		8.64%

SOURCE : Export Promotion Bureau.

