



FISH CATCH STATISTICS OF BANGLADESH

1989-90

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 1989-90 (July 1989 to June 1990).

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 date 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 plane to update the frame & present catch statistics by 64 new district 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.

A.K. Ataur Rahman
Director
Department of Fisheries
Bangladesh

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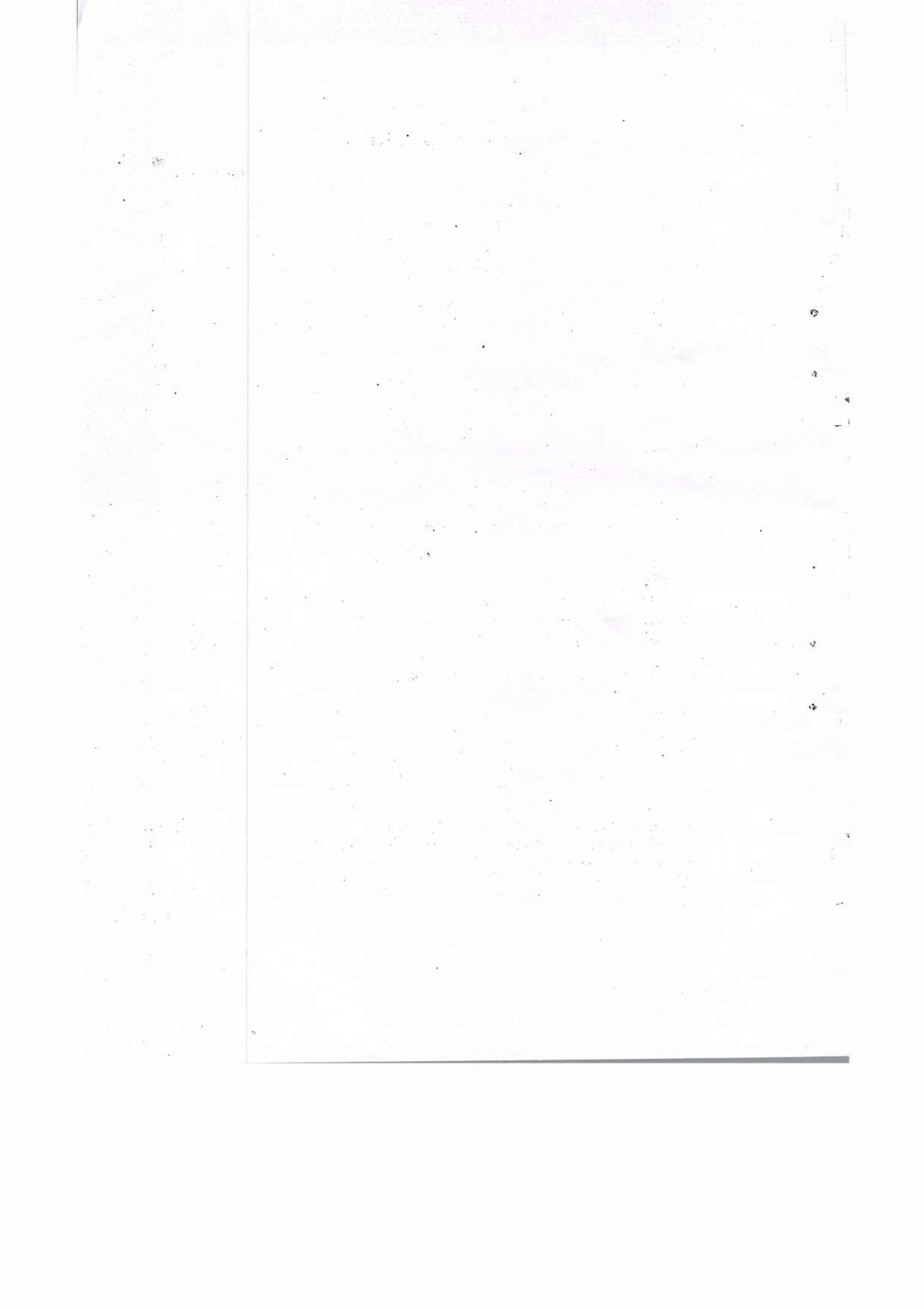


TABLE 1—Annual Total catch and Area Productivities by Sectors of Fisheries for July 1989—June 1990

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	173,410	168
2. Sundarban ..	..	6,393	..
3. Beels ..	114,161	46,594	408
4. Kaptai Lake ..	68,800	3,713	54
5. Flood Lands ..	2,832,792	193,762	68
Capture Total ..	4,047,316	423,872	49.6%
(b) Culture			
1. Ponds ..	146,890	163,730	1,115
2. Baors ..	5,488	1,357	247
3. Shrimp Farms ..	108,280	27,505	254
Culture Total ..	260,658	192,592	22.5%
Inland Total ..	4,307,974	616,464	72.1%
B. Marine Fisheries			
(a) Industrial Fisheries (Trawl)	..	11,379	
(b) Artisanal Fisheries ..	..	227,684	
Marine Total ..		239,063	27.9%
COUNTRY TOTAL ..		855,527	100%

- 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 Directorate 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—Species Group-wise Catch in Inland / Marine Fisheries
1989-90

(Unit : Metric Ton)

Species	Inland Fisheries	Marine Fisheries	Total	%
Major Carp	103,606	..	103,606	12.11
Other Carp	14,458	..	14,458	1.69
Exotic Carp	16,903	..	16,903	1.98
Cat Fish	26,715	..	26,715	3.12
Snake Head	17,034	..	17,034	1.99
Live Fish	37,397	..	37,397	4.37
Other Inland fish	233,035	..	233,035	27.24
Hilsa/Illish	112,408	113,943	226,351	26.46
Bombay Duck (<i>Harpondon nehereus</i>)	..	18,338	18,338	2.14
Indian Salmon (<i>Polydactylus indicus</i>)	..	1,226	1,226	0.14
Pomfret (Rup Hail Foli Chanda)	..	3,386	3,386	0.40
Jew Fish (Poa, Lambu, Kaladatina etc.)	..	10,579	10,579	1.24
Sea Cat Fish (<i>Tachysurus Spp.</i>)	..	10,833	10,833	1.27
Sharks, Skates & Rays	..	2,782	2,782	0.33
Other Marine Fish	..	62,108	62,108	7.26
Shrimp	54,908	15,868	70,776	8.27
Total	616,464	239,063	855,527	100
%	72.06	27.94	100	..

- No. B : 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, Gazar, 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 Water by District
1989-90

(Unit : Metrick Ton)

old District	River & Estuaries	Sundar- ban	Beel	Kaptai lake	Flood Land	Pond	Baor	Shrimp Farm	Total
Chittagong & C.H. Ts.	12,160	..	196	3,713	13,137	16,126	..	5,108	50,440
Comilla	21,746	..	474	..	23,972	26,753	..	..	72,945
Noakhali	23,088	..	1	..	13,457	10,248	..	11	46,805
Sylhet	16,309	..	19,030	..	17,744	9,025	..	..	62,108
Dhaka	3,998	..	1,218	..	17,892	7,892	..	..	31,000
Faridpur	951	..	414	..	5,355	5,517	187	..	12,424
Jamalpur	1,014	..	..	..	6,424	1,828	..	..	9,266
Mymensingh	8,895	..	13,984	..	15,720	6,935	..	..	45,534
Tangail	573	..	658	..	3,491	1,485	..	..	6,207
Barisal	63,831	..	25	..	11,284	10,980	823	6	86,126
Jessore	1,362	..	1,280	..	9,367	14,021	..	192	27,045
Khulna	5,442	6,393	93	..	8,484	8,251	64	22,098	50,825
Kushtia	124	..	558	..	1,591	1,321	283	..	3,877
Patuakhali	10,097	..	..	..	3,515	7,645	..	90	21,347
Bogra	158	..	1,507	..	7,108	5,399	..	..	14,172
Dinajpur	67	..	265	..	5,741	4,713	..	..	10,786
Pabna	1,882	..	1,212	..	4,805	6,695	..	..	14,594
Rajshahi	386	..	3,929	..	11,163	15,687	..	..	31,165
Rangpur	1,327	..	1,750	..	13,512	3,209	..	..	19,798
Total	173,410	6,393	46,594	3,713	193,762	163,730	1,357	27,505	616,464
%	28.13	1.04	7.56	0.60	31.43	26.56	0.22	4.46	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
1989-90

(Unit : Metric Ton)

Old District	Principal River						Other Rivers	Total
	Lower Meghna	Upper Meghna	Lower Padma	Upper Padma	Jamuna	Brahmaputra		
Chittagong & C.H. Ts.								
Comilla	13568	2895	..	..	..	..	12160	12160
Noakhali	22674	..	..	..	..	..	5283	21746
Sylhet	..	1595	..	..	..	..	414	23088
Dhaka	..	1717	1129	..	173	..	14714	16309
Faridpur	127	..	344	63	..	..	979	3998
Jamalpur	..	..	..	..	622	15	417	951
Mymensingh	..	849	..	..	..	..	377	1014
Tangail	..	..	..	..	..	..	8046	8895
Barisal	41312	..	..	..	158	..	415	573
Jessore	..	..	..	..	..	..	22519	63831
Khulna	..	..	..	..	..	..	1362	1362
Kushtia	..	..	..	..	..	..	5442	5442
Patuakhali	..	..	..	45	..	..	79	124
Bogra	..	..	..	..	54	..	10097	10097
Dinajpur	..	..	..	..	..	..	104	158
Pabna	..	..	..	320	551	..	67	67
Rajshahi	..	..	..	88	..	..	1011	1882
Rangpur	..	..	..	..	217	490	298	386
	..	..	..	..	..	..	620	1327
Total	77681	7056	1473	516	1775	505	84404	173410
%	44.80	4.07	0.85	0.30	1.02	0.29	48.67	100

SOURCE : Catch Assessment Survey

TABLE 5—Annual Total Catch in Principal Rivers

1989-90

(a) Annual Catch by Species

(Unit -: Metric Ton)

Name of River	Major Carp	Other Carp	Cat fish	Snake Head	Live fish	Hilsa	Big shrimp	Small shrimp	Misc.	Total
Lower Meghna	0	0	6	0	0	74195	1	560	2919	77681
Upper Meghna	201	205	272	0	0	2348	51	1134	2845	7056
Sub-Total	201	205	278	0	0	76543	52	1694	5764	84737
Lower Padma	15	14	36	0	0	278	0	0	1130	1473
Upper Padma	15	9	14	0	0	288	2	27	161	516
Sub-Total	30	23	50	0	0	566	2	27	1291	1989
Jamuna	59	117	294	0	0	211	0	103	991	1775
Brahmaputra	67	1	77	0	0	5	7	3	345	505
Sub-Total	126	118	371	0	0	216	7	106	1336	2280
Total	357	346	699	0	0	77325	61	1827	8391	89006

b) Percentage by Species

(Unit : %)

Name of River	Major Carp	Other Carp	Cat fish	Snake Head	Live fish	Hilsa	Big shrimp	Small shrimp	Misc.	Total
Lower Meghna	..	0.00	0.01	0.00	0.00	95.51	0.00	0.72	3.76	100
Upper Meghna	..	2.85	3.85	0.00	0.00	33.28	0.72	16.07	40.32	100
Sub-Total ..	..	0.24	0.33	0.00	0.00	90.33	0.00	2.00	6.80	100
Lower Padma	..	1.02	2.44	0.00	0.00	18.87	0.00	0.00	76.71	100
Upper Padma	..	2.91	2.71	0.00	0.00	55.81	0.39	5.23	31.20	100
Sub-Total ..	..	1.51	2.51	0.00	0.00	28.46	0.10	1.36	64.91	100
Jamuna	..	3.32	16.56	0.00	0.00	11.89	0.00	5.80	55.83	100
Brahmaputra	..	13.27	15.25	0.00	0.00	0.99	1.39	0.59	68.32	100
Sub-Total ..	..	5.53	16.27	0.00	0.00	9.47	0.31	4.65	58.60	100
Total	..	0.40	0.39	0.79	0.00	86.88	0.07	2.05	9.43	100

SOURCE : Catch Assessment Survey.

TABLE 6—Annual Catch in Principal Rivers by District by Species
1989-90

(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										
Comilla ..	...	0	6	0	0	74195	1	560	2919	77681
Barisal ..	...	0	0	0	0	13551	1	6	10	13568
Noakhali ..	...	0	0	0	0	40332	0	0	980	41312
Faridpur ..	...	0	5	0	0	20186	0	554	1929	22674
	...	0	1	0	0	126	0	0	0	127
Upper Meghna										
Comilla ..	...	201	272	0	0	2348	51	1134	2845	7066
Sylhet ..	...	4	0	0	0	1328	1	279	1282	2895
Mymensingh ..	...	22	98	0	0	482	0	451	465	1595
Dhaka ..	...	23	115	0	0	0	0	298	309	849
	...	152	59	0	0	538	50	106	789	1717
Lower Padma										
Faridpur ..	...	15	36	0	0	278	0	0	1130	1473
Dhaka ..	...	1	0	0	0	278	0	0	65	344
	...	14	36	0	0	0	0	0	1065	1129
Upper Padma										
Rajshahi ..	...	15	14	0	0	288	2	27	161	516
Pabna ..	...	10	15	0	0	35	1	7	13	88
Kushia ..	...	0	0	0	0	236	1	2	80	320
Faridpur ..	...	5	0	0	0	16	0	15	9	45
	...	0	0	0	0	1	0	3	59	63

			Major			Cat Fish	Snake Head	Live Fish	Hilsha	Big shrimp	Small shrimp	Misc	Total
			carp	Other carp									
Jamuna	..	..	59	117	294	0	0	0	211	0	103	991	1775
Rangpur	..	..	16	45	41	0	0	0	49	0	11	45	217
Jamalpur	..	..	32	72	64	0	0	0	131	0	67	256	622
Bogra	..	..	0	0	0	0	0	0	1	0	2	51	54
Tangail	..	..	11	0	6	0	0	0	7	0	16	118	158
Pabna	..	..	0	0	146	0	0	0	7	0	7	391	551
Dhaka	..	..	0	0	37	0	0	0	6	0	0	130	173
Brainaputra	..	..	67	1	77	0	0	0	5	7	3	345	505
Rangpur	..	..	67	1	76	0	0	0	5	7	2	332	490
Jamalpur	..	..	0	0	1	0	0	0	0	0	1	13	15

SOURCE : Catch Assessment Survey.

TABLE 7—Annual Catch in Other Rivers by District by Species
1989-90

(Unit : Metrick Ton).

Old District	Major carp	Other carp	Cat Fish	Snake Head	Live Fish	Hilsha	Big shrimp	Small shrimp	Misc.	Total
Chittagong & C.H. Ts.	95	23	19	0	0	25	156	6407	5435	12160
Comilla	425	72	151	4	1946	186	6	368	2125	5283
Noakhali	17	7	100	1	0	0	29	73	187	414
Sylhet	1080	2817	740	229	0	3174	0	0	6674	14714
Dhaka	270	6	46	0	1	0	0	44	612	979
Faridpur	30	0	29	1	0	73	0	5	279	417
Jamalpur	3	8	21	0	1	8	2	10	324	377
Mymensingh	184	300	353	0	39	1	2	373	6794	8046
Tangail	33	3	11	4	0	0	0	17	347	415
Barisal	2	0	40	0	0	21129	0	257	1091	22519
Jessore	38	0	16	4	9	719	0	299	277	1362
Khulna	0	0	156	0	2	225	112	3229	1718	5442
Kushtia	1	0	0	0	0	7	1	1	69	79
Patuakhali	0	0	176	0	0	8514	8	266	1133	10097
Bogra	0	0	0	0	0	0	0	0	104	104
Dinajpur	0	0	0	0	1	0	0	0	66	67
Pabna	0	0	0	0	0	128	0	691	192	1011
Raishahi	2	0	0	0	1	0	0	0	295	298
Rangpur	14	2	40	0	0	0	0	14	550	620
Total	2194	3238	1898	243	2000	34189	316	12054	28272	84404
%	2.6	3.8	2.2	0.3	2.4	40.5	0.4	14.3	33.5	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.

TABLE 8—Annual Catch in All Rivers by District by Species.
1989-90

(Unit : Metric Ton).											
Old Districts		Major carp	Other carp	Cat Fish	Snake Head	Live Fish	Hilsha shrimp	Big shrimp	Small shrimp	Misc.	Total
Chittagong & C.H. Ts											
Comilla	..	95	23	19	0	0	25	156	6407	5435	12160
Noakhali	..	429	73	151	4	1946	15056	8	653	3417	21746
Sylhet	..	17	7	105	1	0	20185	29	627	2116	23088
Dhaka	..	1102	2894	838	229	0	3656	0	451	7139	16309
Faridpur	..	436	43	178	0	1	544	50	150	2596	3998
Jamalpur	..	31	0	30	1	0	478	0	8	403	951
Mymensingh	..	35	80	86	0	1	139	2	78	593	1014
Tangail	..	207	404	468	0	39	1	2	671	7103	8895
Barisal	..	44	3	17	4	0	7	0	33	465	573
Jessore	..	2	0	40	0	0	61461	0	257	2071	63831
Khulna	..	38	0	16	4	9	719	0	299	277	1362
Kushtia	..	0	0	156	0	2	225	112	3229	1817	5442
Patuakhali	..	6	0	0	0	0	23	1	16	78	124
Bogra	..	0	0	176	0	0	8514	8	266	1133	10097
Dinajpur	..	0	0	0	0	0	1	0	2	155	158
Pabna	..	0	1	0	0	1	0	0	0	66	67
Rajshahi	..	12	8	146	0	0	371	1	700	663	1882
Rangpur	..	97	48	14	0	1	35	1	7	308	386
	..			157	0	0	64	7	27	927	1327
Total	..	2551	3584	2597	253	2000	111514	377	13881	36663	173410
%	..	1.5	2.1	1.5	0.1	1.2	64.3	0.2	8.0	21.1	100

TABLE 9—Annual Total Catch of the Beel Fisheries
1989-90

Old District	Area of Beels (Hectare)	Estimated Annual Total Catch (Metric Ton)
Chittagong	456	196
Comilla	1,103	474
Noakhali	3	1
Sylhet	32,700	19,030
Dhaka	4,918	1,218
Faridpur	1,915	414
Jamalpur	..	..
Memensingh	29,406	13,984
Tangail	2,333	685
Barisal	79	25
Jessore	5,037	1,280
Khulna	365	93
Kushtia	2,197	558
Patuakhali	..	..
Bogra	3,801	1,507
Dinajpur	1,252	265
Pabna	3,255	1,212
Rajshahi	19,849	3,929
Rangpur	5,492	1,750
Total	114,161	46,594

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
1989-90

Species	Pile Fishery	Annual Fishery
Rui (<i>Labeo rohita</i>)	9.48	4.98
Catla (<i>Catla catla</i>)	3.46	2.55
Mrigal (<i>Cirrhinus mrigala</i>)	5.94	1.60
Kalbasu (<i>Labeo calbasu</i>)	11.90	9.29
Gonia (<i>Labeo gonius</i>)	10.05	3.75
Boal (<i>Wallago attu</i>)	14.28	13.40
Air (<i>Mystus aor</i>)/ <i>Mystus Seenghala</i>)	6.94	4.37
Shoal/Gazar (<i>Channa Spp.</i>)	3.49	1.20
Chital/Phali (<i>Notopterus chitala</i> /N. <i>notopterus</i>)	4.24	1.61
Koi (<i>Anabas testudineus</i>)	0.43	0.16
Singi/Magur (<i>Heteropneustes fossilis</i> /Clarias) <i>batrachus</i>)	0.38	0.75
Sarpunti (<i>Puntius sarana</i>)	2.24	1.00
Large Shrimp (<i>Macrobrachium rosenbergii</i> /M. <i>malcomsonii</i>)	5.95	3.02
Small Shrimp		0.80
Carpio (<i>Cyprinus carpio</i>)	2.42	0.26
Pabda (<i>Ompok pabda</i>)		4.01
Punti (<i>Puntius Spp.</i>)	4.82	1.58
Tengra (<i>Mystus Spp.</i>)		
Baim (<i>Mastacembelus Spp.</i>)		
Chapila (<i>Gudusia chapra</i>)	14.08	45.67
Others		
TOTAL	100	100

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

TABLE 11—Annual Catch of Kaptai Lake

1989-90

Species	Catch in	Metric Ton
Rui (<i>Labeo rohita</i>)	87	
Catla (<i>Catla catla</i>)	45	
Mrigal (<i>Cirrhinus mrigala</i>)	31	
Kalbasu (<i>Labeo calbasu</i>)	78	
Gonia (<i>Labeo gonius</i>)	88	
Boal (<i>Wallago attu</i>)	146	
Air (<i>Mystus aor</i> <i>Mystus Seenghala</i>)	219	
Shol/Gazar (<i>Channa Spp.</i>)	82	
Chital (<i>Notopterus chitala</i>)	193	
Phali (<i>Notopterus notopterus</i>)	133	
Bacha (<i>Eutropiichthys vacha</i>)	36	
Punti (<i>Puntius Spp.</i>)	1	
Tengra/Pabda (<i>Mystus tengra</i> <i>Ompok pabda</i>)	32	
Baim (<i>Mastacembelus Spp.</i>)	1	
Chapila (<i>Gudusia chapra</i>)	457	
Talapia/Silver carp	3	
Others	2,081	
TOTAL	3,713	

SOURCE : Bangladesh Fisheries Development Corporation.

TABLE 12—Annual Total Catch in Flood Land

1989-90

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 ..	949	25.26	23,972
Noakhali ..	501	26.86	13,457
Sylhet ..	636	27.90	17,744
Dhaka ..	1136	15.75	17,892
Faridpur ..	447	11.98	5,355
Jamalpur ..	437	14.70	6,424
Mymensingh ..	947	16.60	15,720
Tangail ..	230	15.18	3,491
Barisal ..	520	21.70	11,284
Jessore ..	493	19.00	9,367
Khulna ..	497	17.07	8,484
Kushtia ..	129	12.33	1,591
Patuakhali ..	219	16.05	3,515
Bogra ..	449	15.83	7,108
Dinajpur ..	552	10.40	5,741
Pabna ..	232	20.71	4,805
Rajshahi ..	819	13.63	11,163
Rangpur ..	939	14.39	13,512
TOTAL ..	10,870	17.83	193,762

SOURCE : Catch Assessment of Subsistence Fisheries.

TABLE 13—Species Group Composition (Percentage of weight) of Subsistence Catch by District 1989-90

Old District	..	..	Carp	Cat Fish	Snake Head	Live Fish	Other Inland Fish	Small Shrimp	Total
Chittagong & C. H. Ts.	..	..	0.00	0.00	0.00	11.72	68.91	19.37	100
Comilla	..	..	16.20	0.00	0.00	09.93	50.66	23.21	100
Noakhali	..	..	5.61	2.33	19.89	36.88	34.77	0.53	100
Sylhet ..	..	..	0.00	00.0	4.10	17.86	63.77	14.28	100
Dhaka	..	..	0.00	0.00	0.00	4.78	68.27	26.94	100
Faridpur	..	..	0.00	20.69	0.00	0.00	74.41	4.90	100
Jamalpur	..	..	0.00	0.00	0.00	0.00	100.00	0.00	100
Mymensingh	..	..	0.00	4.08	9.24	17.82	67.34	1.51	100
Tangail ..	..	..	0.00	6.23	13.56	25.99	54.22	0.00	100
Barisal..	..	..	0.00	0.00	3.67	6.72	66.80	22.81	100
Jessore	..	..	0.00	3.35	9.12	0.00	78.90	8.64	100
Khulna	..	..	0.14	8.77	9.37	30.61	39.38	11.72	100
Kushtia ..	..	..	0.00	0.00	0.00	0.00	100.00	0.00	100
Patuakhali	..	..	0.00	0.00	0.53	2.87	59.61	36.99	100
Bogra	..	..	0.00	0.00	0.00	15.69	84.31	0.00	100
Dinajpur	..	..	0.00	0.00	0.00	39.63	58.99	1.38	100
Pabna ..	..	..	2.54	0.00	0.00	3.13	93.30	1.04	100
Rajshahi	..	..	2.04	39.46	0.00	0.00	58.50	0.00	100
Rangpur	..	..	10.37	0.88	0.00	0.00	70.77	17.98	100
COUNTRY TOTAL	..	..	2.50	5.04	5.72	13.39	63.99	9.36	100

NOTE : Based on sample village study.

TABLE 14—Total Area and Total Catch of Ponds by District
1989-90

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	10,741	5,313	72
Comilla	22,546	7,695	3,243	21,862	3,822	1,069
Noakhali	18,653	6,366	2,683	8,481	825	942
Sylhet	4,946	6,901	10,583	2,952	1,708	4,365
Dhaka	6,091	6,876	3,990	4,842	1,905	1,145
Faridpur	5,612	6,335	3,675	3,720	1,106	691
Jamalpur	1,509	1,042	994	1,336	283	209
Mymensingh	16,779	3,188	1,874	5,305	1,165	1,828
Tangail	1,533	1,059	1,010	912	220	465
Barisal	17,790	6,819	4,463	7,149	2,216	353
Jessore	14,508	2,380	784	13,281	351	1,615
Khulna	10,282	1,684	1,339	7,620	493	389
Kushtia	2,125	871	790	969	270	138
Patuakhali	9,980	3,826	2,504	5,391	1,751	82
Bogra	7,254	4,724	2,051	4,383	825	503
Dinajpur	12,251	7,979	3,464	2,614	953	191
Pabna	5,582	8,207	4,508	3,534	1,997	1,146
Rajshahi	11,155	16,401	9,009	6,830	7,377	1,164
Rangpur	2,912	2,171	4,635	1,821	471	1,480
Total	189,358	110,735	62,887	113,743	33,051	16,936
	%	52.17	30.51	69.47	20.19	10.34
			17.32			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 SPARRSO Report.
Productivities—Catch Assessment Survey of Ponds.

Table-15—Species Composition (Percentage of weight) of Pond Catch (Cultured) by District (1989-90)

[illegible]

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

1989-90

Species		Cultured %	Culturable %	Derelict %	Country %
Rui (<i>Labeo rohita</i>)	..	26.30	6.19	0.57	19.94
Catla (<i>Catla catla</i>)	..	30.74	5.96	0.27	23.04
Mrigal (<i>Cirrhinus mrigala</i>)	..	14.78	4.92	0.32	11.47
Kalbasu (<i>Labeo calbasu</i>)	..	0.94	0.03	0.00	0.68
Minor Carp	..	1.19	0.49	0.07	0.94
Silver Carp (<i>Hypophthalmichthys molitrix</i>)	..	9.07	2.45	0.03	6.91
Grass Carp (<i>Ctenopharyngodon idellus</i>)	..	2.23	0.76	0.00	1.73
Mirror Carp (<i>Cyprinus Carpio</i> var. <i>specularis</i>)	..	1.71	0.41	0.18	1.31
Tilapia (<i>Oreochromis mossambicus</i> /0. <i>niloticus</i>)	..	2.49	1.57	0.70	2.14
Shrimp	..	0.26	2.64	0.88	0.77
Aor (<i>Mystus aor</i> / <i>Mystus Seenghala</i>)	..	0.27	0.60	0.41	0.34
Boal (<i>Wallago attu</i>)	..	0.18	2.74	2.41	0.88
Shol/Gazar & Taki (<i>Channa Spp.</i>)	..	0.24	6.65	12.91	2.73
Chital/Phali (<i>Notopterus chitala</i> / <i>N. notopterus</i>)	..	0.42	1.79	1.46	0.78
Koi (<i>Anabas testudineus</i>)	..	0.44	6.56	9.09	2.46
Singi/Magur (<i>Heteropneustes fossilis</i> / <i>Clarias batrachus</i>)	..	0.43	8.49	11.46	3.05
Sarpunti (<i>puntiussarana</i>)	..	0.03	0.43	0.74	0.18
Pnuti (<i>puntius Spp.</i>)	..	0.89	12.00	13.30	4.22
Others	..	7.39	35.32	45.20	16.43
TOTAL :	..	100	100	100	100

SOURCE : Based on sample survey.

TABLE 17—Annual Total Catch of Baors

1989-90

Old District	Area of Baors in Hectare	Catch of Baors in Metric Ton
Faridpur	965	187
Jessore	2,734	823
Khulna	331	64
Kushtia	1,458	283
TOTAL	5,488	1,357

- (i) Catch rate of Govt. managed 7 Baors @ 408 kg/ha.
- (ii) Catch rate of Private managed Baors @ 194 kg/ha. (Shample Baors)
 Govt. managed Baors : Bergobindapur, Baluhar, Joydia, Fatehpur, Marjad, Kathgara & Jampa.
 Private managed sample Baors : Sirisdia, Baonidaha, Simulia, Korincha, Sarjad & Rajapur.
 SOURCE : Area — SPARRSO Report.
 Productivity — Catch Assessment Survey.

TABLE 18 Species Composition (% of weight) of Baor Catch
1989-90

Species		Govt. Baor	Private Baor
Major Carp	..	30.25	40.75
Other Carp	..	..	..
Exotic Carp	..	60.00	9.70
Cat Fish	..	..	..
Snake Head	..	1.15	11.00
Live Fish	..	0.60	3.20
Other Fish	..	7.75	35.35
Shrimp	..	0.25	..
TOTAL	..	100	100

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

TABLE 19 Annual Total Catch of Shrimp Farm
1989-90

Old District	Area of Shrimp Farms in Hectare	Catch in Metric Ton		Total
		Shrimp	Fish	
Chittagong	27,453	3,226	1,882	5,108
Khulna	79,728	15,193	6,905	22,098
Jessore	690	132	60	192
Patuakhali	326	62	28	90
Barisal	22	4	2	6
Noakhali	61	7	4	11
TOTAL	108,280	18,624	8,881	27,505

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

Average yield :

Khulna zone : Shrimp- 1900.56 kg/ha.
fish - 86.60 kg/ha.

Chittagong zone : Shrimp 117.52 kg/ha..
Fish- 69.57 kg/ha.

2. Area of shrimp farm in Chittagong Division : As per survey, 1986. Area of shrimp farm in Khulna Division : As per survey conducted by Upa-zila Fishery Officer's 1988-89.

SOURCE : Catch Assessment Survey.

TABLE 20—Species Composition of Shrimp Catch (% of weight) from Shrimp
Farms of Khulna and Chittagong Region.

1989-90

Species		Khulna Zone	Chittagong Zone
Bagda (<i>P. monodon</i>)	..	56.50	61.70
Golda (<i>M. rosenbergii</i>)	..	4.33	—
Honna (<i>Metapenaeus monoceros</i>)	...	14.50	16.55
Chaka (<i>P. indicus</i>)	..	1.69	11.60
Small Shrimp	...	22.98	10.15
TOTAL	..	100	100

SOURCE : Based on sample shrimp farms study.

TABLE 21—Species Group-wise Catch in Inland Fisheries by Sector
1989-90

(Unit : Metric Ton)

Species	River	Sundarban	Beel	Subsistence	Baor	Pond	Kaptai Lake	Shrimp farm	Total	% of Weight
Major Carp	..	2,551	..	6,402	4,844	495	89,151	163	..	103,606 16.81
Other Carp	..	3,584	..	8,056	..	..	2,652	166	..	14,458 2.35
Exotic Carp	..	..	..	196	..	413	16,291	3	..	16,903 2.74
Cat Fish	..	2,597	..	10,386	9,766	..	3,275	691	..	26,715 4.33
Snake Head	..	243	..	1,062	11,083	94	4,470	82	..	17,034 2.76
Live Fish	..	2,000	..	401	25,945	29	9,022	..	..	37,397 6.07
Other Inland Fish	..	36,663	4,930	18,032	123,988	324	37,609	2,608	88,81	233,035 37.80
Hilsa/Hilish	..	111,514	894	..	..	..	..	..	..	112,408 18.23
Big Shrimp & Prawn	..	377	387	..	..	..	..	14,759	15,523	2.52
Small Shrimp & Prawn	..	13,881	182	2,059	18,136	2	1,260	..	3,865	39,385 6.39
TOTAL	..	173,410	6,393	46,594	193,762	1,357	163,730	3,713	27,505	616,464 100

SOURCE : Catch Assessment Survey.

TABLE 22—Annual Total Catch of the Marine Fisheries
1989-90

Type of Fishing	Number of Craft (Trawler/ Boat)	Number of Unit (Gear/ Net)	Catch in Metric Ton		
			Shrimp	Fish	Total
A. Industrial					
(1) Trawl Fishing					
a) Shrimp Trawler	40	...	3,116	6,157	9,273
b) Mixed Trawler	4	...	1	1,402	1,403
c) Fish Trawler	9	...	..	703	703
TOTAL Industrial	53	...	3,117	8,262	11,379
B. Artisanal					
(1) Gill Net Fishing					
a) Mechanised	2,880	2,880	..	120,234	120,234
b) Non-mechanised	3,509	3,509	..	20,969	20,969
SUB-TOTAL	6,389	6,389	..	141,203	141,203
(2) Set Bag Net Fishing					
a) Seasonal (M.B)	182	5,400	3,181	42,269	45,450
(N.M.B)...	2,680				
b) All Season(N.M.B)	4,590	7,215	7,990	12,392	20,382
SUB-TOTAL	7,452	12,615	11,171	54,661	65,832
(3) Long Line Fishing					
Jew Fish Long Line					
a) Mechanised	255	1,121	..	6,757	6,757

Type of Fishing		Number of Craft (Trawler/ Boat)	Number of Unit (Gear/ Net)	Catch in Metric Ton		
				Shrimp	Fish	Total
b) Non-mechanised	..	127				
c) Other Long Line	..	1,000	963	..	2,237	2,237
SUB-TOTAL	..	1,382	2,084	..	8,994	8,994
(4) Trammel Net Fishing	..	500	500	275	2,905	3,180
(5) Other Gears Fishing	..	1,608	2,222	1,305	7,170	8,475
TOTAL Artisanal	(M.B) ~ (N.M.B)	3,317 14,014	23,810	12,751	214,933	227,684
GRAND TOTAL	Trawler	53	Gill	15,868	223,195	239,063
(Indus. + Artis.)	(M.B)	3,317	SBN			
	(N.M.B.)	14,015	L.Line			
			Other			
			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
1989-90

Sector	Species							(Unit : Metriect Ton)		
	Hilsa	Bombay Duck	Indian Salmon	Pom-fret	Jew Fish	Cat Fish	Sharks & Rays	Other Marine Fish	Shrimp	Total
A. Industrial										
(1) Trawl Fishing	..	24	986	174	2,586	1,020	305	3,167	3,117	11,379
B. Artisanal										
(1) Gill Net Fishing										
(a) Mechanised	95,285	..	240	1,936	782	5,206	721	16,064	..	120,234
(b) Non-mechanised	18,658	..	..	52	1,164	63	..	1,032	..	20,969
Sub-Total	113,943	..	240	1,988	1,946	5,269	721	17,096	..	141,203
(2) Set Bag Net Fishing										
(a) Seasonal ..	..	9,999	..	455	..	..	..	31,815	3,181	45,450
(b) All Season	..	6,777	..	..	245	153	37	5,180	7,990	20,382
Sub-Total	..	16,776	..	455	245	153	37	36,995	11,171	65,832
(3) Long Line Fishing										
(a) Mechanised	..	..	..	..	3,302	1,889	1,262	304	..	6,757
(b) Non-mechanised	..	..	..	..	..	..	..	..	..	..
(c) Other Long Line	..	..	..	..	535	882	430	390	..	2,237
Sub-Total	..	..	..	..	3,837	2,771	1,692	694	..	8,994
(4) Tammel Net Fishing	..	..	..	..	749	357	27	1,732	275	3,180
(5) Other Gears Fishing	..	1,538	..	729	1,216	1,263	..	2,424	1,305	8,475
Total Artisanal	113,943	18,314	240	3,212	7,993	9,813	2,477	58,941	12,751	227,684
Grand Total	113,943	18,338	1,226	3,386	10,579	10,833	2,782	62,108	15,868	239,063
(Industrial+Artisanal)	47.66	7.67	0.51	1.42	4.43	4.53	1.16	25.98	6.64	100

TABLE 24—Comparison of Annual Total Catch of 1989-90 with Those of 1988-89

Sector of Fisheries	Annual Total Catch (M. T.)		Increase (B)-(A)	Percent Increase
	1988-89 (A)	1989-90 (B)		
A. Inland Fisheries				
(a) Capture				
1. River & Estuaries Except Sundarban Area	181,140	173,410	-7730	-4.3
2. Sundarban.. ..	6,416	6,393	-23	-0.4
3. Beels	47,019	46,594	-425	-0.9
4. Kaptai Lake ..	3,439	3,713	274	8.0
5. Flood Lands ..	186,126	193,762	7636	4.1
Capture Total ..	424,140	423,872	-268	-0.1
(b) Culture				
1. Ponds	155,012	163,730	8718	5.6
2. Baors	1,321	1,357	36	2.7
3. Shrimp Farms ..	27,172	27,505	333	1.2
Culture Total ..	183,505	192,592	9087	5.0
Inland Total ..	607,645	616,464	8819	1.5
B. Marine Fisheries				
(a) Industrial Fisheries (Trawl)	10,353	11,379	1026	9.9
(b) Artisanal Fisheries ..	222,928	227,684	4756	2.1
Marine Total ..	233,281	239,063	5782	2.5
COUNTRY TOTAL ..	840,926	855,527	14601	1.7

TABLE 25—Production of Carp-Hatchling in Bangladesh
1990

Sources of Production				Quantity of Hatchling Produced (kg)
A. Natural Sources	..	..	..	5,127.48
B. Artificial Sources	..	..	..	
(i) Govt. Hatcheries/Fish Seed Farms	..	..	..	1,358.25
(ii) F.R.I.	..	..	..	400.00
(iii) Private Hatcheries	..	..	..	13,014.45
TOTAL				19,900.18

TABLE 26—Information on Hatchlings Production in Govt. Hatcheries and Fish Seed Farms, 1990

Hatchery	No. of Hatcheries	Quantity of Hatchling Produced (kg)
1. Fish Seed farms and Hatcheries of		
(a) Dhaka Division	18	225.19
(b) Chittagong Division	19	248.70
(c) Khulna Division	25	222.80
(d) Rajshahi Division	20	357.54
2. Central Hatchery of Baor Deve. Project, Jhenidaha	1	78.00
3. Raipur Fish Hatchery and Training Centre	1	154.00
4. Gulshan Lake Hatchery	1	25.00
5. Hatchery of Fishery Research Institute, Mymensingh	1	350.00
6. Hatchery of Riverine Fishery Reserarch Institute, Chandpur	1	50.00
7. Parbatipur Hatchery	1	18.00
8. Faridpur Training & Extension Centre	1	29.02
TOTAL	89	1758.25

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 Hatcheries in Private Sector in 1990 (Division-wise)

Division					No. of Hatcheries	Quantity of Hatchlings (4-5 days old fry) .. Produced (kg)
Chittagong	..	..	..	..	64	3,455.5
Dhaka	..	..	..	..	39	505.00
Rajshahi	..	..	..	..	23	539.95
Khulna	..	..	..	..	78	8,514.00
TOTAL					204	13,014.45

District	Upa-zila	Collection Centre	Name of River	Number of													Free-Quan-Sale Re-
				Savar People Net Boat Enga- Used Used													quency of Spawn Tk/ Spaw-Fertili-kg. ning zed Egg Time Caught (kg)
1	2	3	4	5	6	7	8	9	10	11	12	13					
	Sarishabari	Jagannathganj ghat	Brahmapatra	4	83	120	9	26-05-90-25-06-90	2	117.50	3000						
Sub-Total		6		18	252	410	33			313.50							
Bogra	Sonatola	Khabulia, Chowainagar	Jamuna	10	128	405	37	06-06-90-26-08-90	1	197.00	2000						
	Sariakandi	Hasnapur, Manikdir	Jamuna	10	77	200	18	16-05-90-20-05-90 28-05-90-30-05-90	3	360.00	550						
Sub-Total		4		20	205	605	55			557.00							
Sirajganj	Sirajganj (Sadar)	Sirajganj ghat,	Jamuna	20	124	572	14	05-05-90-07-05-90 28-05-90-30-05-90	3	1400.00	3200						
	Kazipur Chouhali	Bedhgari Solajana	"	5	15	125	5	28-05-90-05-06-90	2	49.00	1500						
	Belkachi	Delua, Shohagpur, Gaghbaura	"	4	22	70	4	29-05-90-30-05-90	2	44.00							
			"	20	146	366	1	09-05-90-13-05-90 05-06-90-26-06-90	2	360.50	2600						
	Sahjadpur	Sonatani	"	20	101	430	10	26-05-90-03-06-90	2	70.00	3700						
Sub-Total		7		69	408	1563	34			1923.50							

District	Upa-zila	Collection Centre	Name of River	Savar People Engaged	Net Boat Used	Number of	Collection Period	Free-ty of Spawn	Quantity of Spaw-Fertilized Egg	Time Caught (kg)	Rate marks	
1	2	3	4	5	6	7	8	9	10	11	12	13
Manikganj	Shivalaya	Jafarganj, Jheekutia	Jamuna	1	19	73	6	10-06-90—30-06-90	1	50.00	2000	
Sub-Total		2		1	19	73	6					
Pabna	Bera	Nakalia, Ghiur, Natunbotia Khan	Jamuna	13	65	65	13	23-05-90—29-05-90 03-06-90—08-06-90	2	93.00	5000	
Sub-Total		3		13	65	65	13			93.00		
Brahmaputra-Jamuna Total	34			187	1521	4014	171			3797.50		
Rajshahi	Godagari	Harisankarpur, Bidipur, Farhadpur, Dugri, Domoria	Upper Padma	9	54	77	1	08-07-90—24-07-90	2	10.50	1600	
Poba		Bulonpur, Shapur, Noboganga, Kashobpur, Hathupur	"	17	93	259	17	08-06-90—20-07-90	..	85.50	700	
Charghat Bagha		Charghat Khairhat	"	10	118	83	11	11-11-90—26-07-90	..	52.00	1100	
			"	25	122	68	2	15-07-90—25-07-90	..	39.00	1100	
Sub-total		12		61	387	487	31					187.00

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	5	6	7						8
	1	2	3	4	5	6	7	8	9					
	Padma	Sujanagar	Satbaria, Sujanagar	Upper Padma	13	176	270	13	21-06-90-06-07-90	26-06-90-27-07-90	2	70.00	2000	
	Sub-Total	2			13	176	270	13				70.00		
	Kushtia	Bheramara	Raytaghat, G. K. Main Channel	Upper Padma	11	44	178	11	16-06-90-07-07-90	24-06-90-08-07-90	2	14.80	2300	
	Daulatpur		Raytaghat, Rajarbari ghat	"	3	20	18	5	14-07-90	30-07-90		42.50	2500	
	Mirpur		Ghosamara, Talbaria	"	3	34	58	3	10-07-90	22-07-90	1	8.00	3500	
	Sub-Total	6			17	98	254	19				65.30		
	Upper Padma Total	20			91	661	1011	63				322.30		
	Rajbari	Rajbari (Sadar)	Godarbazar	Lower Padma	5	25	90	5	04-07-90	07-07-90	1	14.50	1000	
	Goalundo	Char Doulatdia	"		8	100	157	8	03-06-90	30-06-90	1	50.00	2000	
	Sub-Total	2			13	125	247	13				64.50		

District	Upa-zila	Collection Centre	Name of River	Number of				Collection Period	Free- quency of Spawn- ing Time	Quanti- ty of Spawn- ed Egg Caught (kg)	Sale Rate Tk/ kg.	
				Savar Enga- ged	People Used	Net Used	Boat Used					
1	2	3	4	5	6	7	8	9	10	11	12	13
Faridpur	Faridpur (Sadar)	C & B Ghat, Taputakandi, Uttar Char, Madhabdia	Lower Padma	123	449	2294	115	10-05-90-25-05-90	3	249-00	2500	
								14-06-90-24-06-90				
								10-07-90-16-07-90				
	Char Bhadrason	Kalayanpur, Gopalpur ghat	"	3	21	71	6	05-05-90-10-05-90	1	20-50	2000	
Sub-Total		5		126	470	2365	121			269-50		
Lower Padma Total		7		139	595	2612	134			334-00		
Upper+Lower Padma Total		27		230	1256	3623	197			656-30		
Tangail	Delduar	Lakhikut, Ichapasha	Dhaleshwari	8	55	160	9	25-04-90-28-04-90	3	54-50	1500	
								07-05-90-10-05-90				
Sub-Total		2		8	55	160	9	06-06-90-09-06-90		54-50		
Manikganj	Saturia	Gopalpur, Tille	Dhaleshwari	5	29	120	5	02-06-90-21-06-90	1	32-50	1700	
Sub-Total		2		5	29	120	5			32-50		
Dhaleshwari Total		4		13	84	280	14			87-00		

District	Upa-zila	Collection Centre	Name of River	Number of								Free quency of Spawning Time	Collection Period	Quanti-ty of Spawn/TK/ kg	Sale Rate marks
				Savar People Net Boat Enga-Used Used ged											
1	2	3	4	5	6	7	8	9	10	11	12	13			
Kushnia	Kushnia (Sadar) Khoska	Shasan ghat	Gorai	3	15	59	3	11-07-90	31-07-90	1	36.50	1100			
		Shirajghat	"	3	8	32	3	12-07-90	15-07-90	1	10.50	500			
Sub-Total		2		6	23	91	6				47.00				
Magura	Sripur	Rajdharpur, Kamalapur, Goanjarampur	Gorai	4	10	43	4	05-07-90	29-07-90	2	73.80	2000			
								01-08-90	19-08-90						
Sub-Total		3		4	10	43	4				73.80				
Gorai Total		5		10	33	134	10				120.80				
Magura	Magura (Sadar)	Kachundi, Bagbaria	Madhumati	3	15	132	6	20-06-90	30-06-90	2	19.00	2200			
								01-07-90	25-07-90						
Sub-Total		2		3	15	132	6				19.00				
Narail	Lohagara	Kalnaghat, Burodia	Madhumati	4	12	40	4	23-06-90	12-07-90	2	10.00	150			
Sub-Total		2		4	12	40	4				10.00				
Madhumati Total		4		7	27	172	10				29.00				

District	Upa-zila	Collection Centre	Name of River	Number of					Collection Period	Frequency of Spawning Time	Quantity of Spawned Egg (kg)	Sale Rate
				Savar People Engaged								
				Boat Used								
1	2	3	4	5	6	7	8	9	10	11	12	13
Madaripur	Sibchar	Kalatala, Uthra Char Kakoi, Dattapara, Feryghat, Purbakakoir	Arial Khan	20	184	352	34	14-05-90—30-05-90 13-06-90—30-06-90 11-07-90—13-07-90	3	129.00	2300	
Arial Khan Total				20	184	352	34			129.00		
Madaripur	Rajor	Sankardi, Bishwa Sardi, Sankarpur	Kumar	30	220	271	28	26-05-90—08-06-90 02-07-90—04-07-90	3	25.00		
Kumar Total				30	220	271	28			25.00		
Manikganj	Ghior	Jabra	Kaliganga	1	8	37	1	21-05-90—26-05-90	2	13.60	1400	
Kaliganga Total				1	8	37	1			13.60		
Chittagong	Hathazari	Uttar Madrasa, Nayerhat, Gurduara, Samitirhat, Ramdashat, Bariaghona, Khaliaghona	Halda	135	1241	261	261	11-04-90—16-04-90 30-04-90—05-05-90 16-05-90—21-05-90 21-06-90—24-06-90	4	167.78	6500	

District	Upa-zila	Collection Centre	Name of River	Number of					Collection Period	Free- quency of Spawn- ing Time	Quantity of Spawn- Fertilized Egg Caught (kg)	Sale Rate Tk/kg
				Savar People Net Boat Enga- Used Used ged								
1	2	3	4	5	6	7	8	9	10	11	12	13
	Rauzan	Sattarghat, Binajuria, Azimerghat, West Gahira, Kumarkhali, Suth Gahira	"	154	1603	315	318	11-04-90-16-04-90 30-04-90-05-05-90 16-05-90-21-05-90 21-06-90-24-06-90	4	101.50	6500	
	Halda Total	13		289	2844	576	579			269.28		
	Country Total	96		787	6177	9459	1044			5127.48		

TABLE-29

Export of Fish / Fish Products 1989-90

Quantity in Ton
Value in Million Taka

Item	Quantity	Value
Frozen Shrimp	17,505	4,143
Frozen Fin fish	3,484	256
Frozen Frog leg	730	103
Dry fish	1,278	234
Salted & Dehydrated fish	161	14
Shark fin & Fish maw	35	28
Turtles/Tortoise	142	9
Crab	4	0.3
Total	23,339	4,787
Percentage of total export earning		9.62%

SOURCE : Export Promotion Bureau.

