

Supplementary file

Table S1: Fish diversity of fish with catch (number of individuals and total weight in kilogram) in three consecutive years.

Order	Family	Species	Common name	Local name	Catch (Percentage)					
					2019		2020		2021	
					Nos	Wt (kg)	Nos	Wt (kg)	Nos	Wt (kg)
Anabantiformes	Anabantidae	<i>Anabas cobojius</i> (Hamilton, 1822)	Gangetic koi	Kalo koi	0.22	2.85	0.22	3.17	0.16	2.51
	Anabantidae	<i>Anabas testudineus</i> (Hamilton, 1822)	Climbing perch	Koi	0.24	4.5	0.28	5.07	0.22	3.65
	Channidae	<i>Channa marulius</i> (Hamilton, 1822)	Giant snakehead	Gajar	0.01	3.78	0.05	3.3	0.01	3.43
		<i>Channa orientalis</i> (Bloch & Schneider, 1801)	Walking snakehead	Gachua	0.02	0.14	0.05	0.04	0.02	0.21
		<i>Channa striata</i> (Bloch, 1793)	Striped snakehead	Shol	0.05	5.1	0.04	4.13	0.07	5.82
		<i>Channa punctata</i> (Bloch, 1793)	Spotted snakehead	Taki	0.74	7.94	0.64	7.48	0.63	6.91
cypriniformes	Cyprinidae	<i>Amblypharyngodon mola</i> (Hamilton, 1822)	Mola carplet	Mola	13.5	7.09	16.83	6.67	16.35	5.69
		<i>Osteobrama cotio</i> (Hamilton, 1822)	Cotio	Dhela	0.47	0.46	0.26	0.29	0.79	0.66
		<i>Catla catla</i> (Hamilton, 1822)	Catla	Catla	0.003	3.1	0.002	1.71	0.003	2.78
		<i>Ctenopharyngodon idella</i> (Valenciennes, 1844)	Grass carp	Grass carp	0.002	0.65	0.001	0.23	0.001	0.38
		<i>Cyprinus carpio</i> (Linnaeus, 1758)	Common carp	Carpu	0.11	5.1	0.11	4.65	0.09	4.88
		<i>Labeo boggut</i> (Sykes, 1839)	Boggut labeo	Nunia	0	0	0	0	0.01	0.16
		<i>Labeo calbasu</i> (Day, 1878)	Kalbasu	Kalibaus	0.08	1.66	0.07	1.71	0.01	1.72
		<i>Puntius sophore</i> (Hamilton, 1822)	Spot-fin swamp barb	Jat Puti	3.26	1.83	3.41	2.3	3.36	1.64
		<i>Pethia ticto</i> (Hamilton, 1822)	Ticto barb	Tit Puti	3.2	2.07	2.55	1.89	2.91	1.93
		<i>Salmostoma acinaces</i> (Valenciennes, 1844)	Silver razorbelly minnow	Chela	0.05	0.14	0.04	0.12	0.07	0.21
		<i>Labeo gonius</i> (Hamilton, 1822)	Kuria labeo	Gonia	0.002	0.3	0.002	0.3	0.002	0.35
		<i>Cirrhinus cirrhosus</i> (Bloch, 1795)	Mrigal	Mrigal	0.005	0.58	0.005	0.62	0.005	0.61
		<i>Esomus danricus</i> (Hamilton, 1822)	Flying barb	Darkina	0.6	0.15	0.54	0.16	0.63	0.16
		<i>Rasbora daniconius</i> (Hamilton, 1822)	Slender rasbora	Angjani	0	0	0	0	0.03	0.01
		<i>Devario devario</i> (Hamilton, 1822)	Sind Danio	Chapchela	0.06	0.03	0	0	0.21	0.09
		<i>Puntius sarana</i> (Hamilton, 1822)	Olive barb	Sarputi	0.01	0.26	0.01	0.32	0.01	0.31
		<i>Puntius chola</i> (Hamilton, 1822)	Swamp barb	Chala punti	1.06	2	1.14	2.38	0.99	1.88
		<i>Barbonymus gonionotus</i> (Bleeker, 1850)	Java barb	Thai Puti	0.01	0.16	0.01	0.12	0.01	0.19
		<i>Hypophthalmichthys molitrix</i> (Valenciennes, 1844)	Silver carp	Silver carp	0.004	0.9	0.004	0.5	0.005	0.46
		<i>Salmostoma bacaila</i> (Hamilton, 1822)	Large razorbelly minnow	Narkeli chela	0.47	0.33	0.44	0.36	0.63	0.44
		<i>Hypophthalmichthys nobilis</i>	Bighead carp	Bighead	0.002	0.37	0.003	0.46	0.003	0.51

		(Richardson, 1845)		carp						
		<i>Labeo bata</i> (Hamilton, 1822)	Bata labeo	Bata	0.03	0.42	0.02	0.32	0.03	0.45
		<i>Labeo rohita</i> (Hamilton, 1822)	Rohu	Rui	0.02	3.93	0.02	4.56	0.03	4.16
	Cobitidae	<i>Lepidocephalichthys guntea</i> (Hamilton, 1822)	Guntea loach	Gutum	0.66	0.58	0.7	0.68	0.64	0.63
		<i>Lepidocephalichthys annandalei</i> (Chaudhuri, 1912)	Annaldale loach	Gutum	0.37	0.78	0.26	0.7	0.36	0.93
		<i>Canthophrys gongota</i> (Hamilton, 1822)	Gongota loach	Gang Gutam	0.03	0.08	0.03	0.1	0.04	0.11
		<i>Botia dario</i> (Hamilton, 1822)	Bengal loach	Rani	0	0	0	0	0.07	0.05
Cyprinodontiformes	Aplocheilidae	<i>Aplocheilus panchax</i> (Hamilton, 1822)	Top-minnows	Kanpona	0.55	0.14	0.31	0.1	0.78	0.21
Gobiiformes	Gobiidae	<i>Glossogobius giuris</i> (Hamilton, 1822)	Tank goby	Bele	1.01	3.24	0.91	3.23	0.87	2.75
Clupeiformes	Clupeidae	<i>Goniolosa manmina</i> (Hamilton, 1822)	Ganges river gizzard shad	Chapila	3.77	5.1	4.52	6.73	4.22	5.12
		<i>Corica soborna</i> (Hamilton, 1822)	Ganges river sprat	Kaski	53.09	4.84	51.12	5.9	45.98	4.45
Tetraodontiformes	Tetraodontidae	<i>Tetraodon cutcutia</i> (Hamilton, 1822)	Ocellated pufferfish	Potka	0.05	0.07	0.05	0.09	0.08	0.17
Siluriformes	Heteropneustidae	<i>Heteropneustes fossilis</i> (Bloch, 1794)	Stinging Catfish	Shing	1.25	7.35	1.29	7.51	1.72	8.71
	Bagridae	<i>Mystus vittatus</i> (Bloch, 1794)	Striped Dwarf Catfish	Gulsa	0.03	0.36	0.03	0.38	0.04	0.43
		<i>Mystus tengara</i> (Hamilton, 1822)	Tengara mystus	Tengara	1.22	2.96	1.14	3.15	1.17	2.82
		<i>Chandramara chandramara</i> (Hamilton, 1822)	Asian cory	Gura tengra	0	0	0	0	0.04	0.02
		<i>Sperata aor</i> (Hamilton, 1822)	Long-whiskered catfish	Ayre	0.004	0.83	0.003	0.95	0.004	0.93
		<i>Rita rita</i> (Hamilton, 1822)	Rita	Rita	0	0	0	0	0.003	0.06
	Siluridae	<i>Ompok pabda</i> (Hamilton, 1822)	Pabdah Catfish	pabda	0.01	0.08	0	0	0.02	0.22
		<i>Wallago attu</i> (Bloch & Schneider, 1801)	Boal	Boal	0.003	1.2	0.002	1.31	0.002	1.48
	Pangasiidae	<i>Pangasius pangasius</i> (Hamilton, 1822)	Pangas Catfish	Pangas	0.0002	0.14	0	0	0.0005	0.42
	Schilbeidae	<i>Pseudeutropius atherinoides</i> (Bloch, 1794)	Indian potasi	Batasi	0.06	0.09	0	0	0.16	0.19
	Clariidae	<i>Clarias batrachus</i> (Linnaeus, 1758)	Walking catfish	Magur	0.02	0.41	0.02	0.45	0.03	0.49
	Ailiidae	<i>Ailia coila</i> (Hamilton, 1822)	Gangetic ailia	Kajuli	0.17	0.12	0.18	0.13	0.33	0.26
		<i>Clupisoma garua</i> (Hamilton, 1822)	Garua Bachcha	Garua	0.01	0.12	0.07	0.1	0.01	0.23
Synbranchiformes	Mastacembelidae	<i>Macrognathus aculeatus</i> (Smith, 1945)	Spiny eel	Tara Baim	0.76	0.97	0.61	0.96	0.89	1.06
		<i>Macrognathus pancalus</i> (Hamilton, 1822)	Striped Spiny Eel	Guchi Baim	0.4	2.45	0.43	2.85	0.54	3.18
		<i>Mastacembelus armatus</i> (Lacepède, 1800)	Zig-zag eel	Baim	0.05	0.53	0.04	0.45	0.05	0.58
	Synbranchidae	<i>Monopterus cuchia</i> (Hamilton, 1822)	Gangetic mud eel	Cuchia	0.01	0.2	0	0	0.02	0.32

Perciformes	Nandidae	<i>Nandus nandus</i> (Hamilton, 1822)	Mud perch	Meni	0.13	0.98	0.09	0.73	0.22	1.31
	Anabantidae	<i>Colisa lalius</i> (Hamilton, 1822)	Dwarf gourami	Boicha	0.02	0.02	0	0	0.06	0.05
		<i>Colisa fasciata</i> (Sterba, 1962)	Giant gourami	Khailsa	3.02	6.34	2.44	6.11	2.44	5.73
	Ambassidae	<i>Ambassis apogonoides</i> (Bleeker, 1851)	Highfin glassy perchlet	Lal Chanda	1.17	0.3	1.3	0.35	1.36	0.37
	Osphronemidae	<i>Ctenops nobilis</i> (McClelland, 1845)	Indian paradise fish	Neftani	0.03	0.03	0	0	0.06	0.05
Osteoglossiformes	Notopteridae	<i>Notopterus notopterus</i> (Pallas, 1769)	Bronze featherback	Foli	0.01	0.24	0.01	0.21	0.02	0.45
Cichliformes	Cichlidae	<i>Oreochromis mossambicus</i> (Peters, 1852)	Mozambique Tilapia	Tilapia	0.03	1.15	0.03	1.38	0.03	1.01
Ovalentaria	Ambassidae	<i>Parambassis ranga</i> (Hamilton, 1822)	Indian Glassy Fish	Ranga Chanda	1.34	0.25	1.57	0.29	1.49	0.22
Beloniformes	Belonidae	<i>Xenentodon cancila</i> (Hamilton, 1822)	Freshwater garfish	Kakila	0.03	0.38	0.01	0.21	0.07	0.55
Anguilliformes	Anguillidae	<i>Anguilla bengalensis</i> (Gray, 1831)	Indian mottled eel	Bamosh	0	0	0	0	0.0002	0.06
Decapoda	Palaemonidae	<i>Macrobrachium malcolmsonii</i> (Milne-Edwards, 1844)	Monsoon river prawn	Chotka icha	2.16	0.25	1.47	0.201	4.54	0.54
		<i>Macrobrachium lamarrei</i> (Milne-Edwards, 1837)	Kuncho river prawn	Gura Icha	4.14	0.82	4.65	1.07	4.06	0.78
		<i>Macrobrachium rosenbergii</i> (de Man, 1879)	Giant freshwater prawn	Golda Chingri	0.04	0.7	0.04	0.82	0.05	0.74
		<i>Macrobrachium dolichodactylus</i> (Hilgendorf, 1879)	Ghoda River Prawn	Ghoda Icha	0.13	0.06	0	0	0.26	0.12

Table S2: One-way ANOVA for fish catch (number) and fish catch (weight)

		Sum of Squares	df	Mean Square	F	Sig.
Fish catch (number)	Between Groups	2348496474.464	2	1174248237.232	0.349	0.706
	Within Groups	685976047088.145	204	3362627681.805		
	Total	688324543562.609	206			
Fish catch (weight)	Between Groups	13033.673	2	6516.837	4.502	0.012
	Within Groups	295325.893	204	1447.676		
	Total	308359.566	206			

Table S3: One-way ANOVA (Tukey HSD) multiple comparisons for fish catch (number) and fish catch (weight).

Dependent Variable	(I) Treatment	(J) Treatment	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Fish catch	2019	2020	2846.27536	9872.56142	.955	-20462.3324	26154.8831

(number)	2020	2021	-5283.44928	9872.56142	.854	-28592.0570	18025.1585
		2019	-2846.27536	9872.56142	.955	-26154.8831	20462.3324
		2021	-8129.72464	9872.56142	.689	-31438.3324	15178.8831
	2021	2019	5283.44928	9872.56142	.854	-18025.1585	28592.0570
		2020	8129.72464	9872.56142	.689	-15178.8831	31438.3324
		2020	8.39261	6.47778	.399	-6.9011	23.6863
Fish catch (weight)	2020	2021	-10.98638	6.47778	.209	-26.2801	4.3073
		2019	-8.39261	6.47778	.399	-23.6863	6.9011
		2021	-19.37899*	6.47778	.009	-34.6727	-4.0853
	2021	2019	10.98638	6.47778	.209	-4.3073	26.2801
		2020	19.37899*	6.47778	.009	4.0853	34.6727

* The mean difference is significant at the 0.05 level.