

## ANNEX 1

### ECOLOGY FIELD SURVEY RESULT TABLES

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Table A1: Micro-flora and Micro-fauna of the Burall River

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR
Phytoplankton	Chlorophyceae	Crucigenia	sp.	3458		
		Microspora	floccosa	67704		
		Microspora	tumidula		1248320	
		Gloeotila	spiroides	3822	278880	
		Pediastrum	duplex	2548	17430	
		Pediastrum	biradiatum		24070	
		Pediastrum	tetrax		15770	
		Coelastrum	sp.	728		
	Cyanophyceae	Anabaena	cercinalis	4368	104580	
		Anabaena	fertilissima		55610	
		Aphanocapsa	leiformis		39840	
	Bacillariophyceae	Synedra	ulna	1092		
	Dinophyceae	Ceratium	furca	6188	40006	
	Zooplankton	Copepoda	Heliodiaptomus	contortus	19292	
Cyclops			varcans rubellus	77532		
Cyclops			nanus	135772		
Diaptomus			peregrinator		13778	142
Diaptomus		gracilis		9130	142	
Cladocera		Bosmina	longirostaris	38766	128982	355
		Diaphanosoma	leuchtenbergianum	9646	4482	
		Daphnia	lumholtzi	19292	13778	
		Moina	brachiata	9646		
Brachionidae		Brachionus	quadridentatus			355
		Brachionus	falcatus			355
		Brachionus	urceolaris		4482	
		Brachionus	angularis	320320		355
		Brachionus	calyciflorus	9646		
		Keratella	tropica	650286	92130	1278
		Keratella	cochlearis	426972		355
Trichocercidae		Trichocerca	cylindrica	97006	32204	
Synchaetidae		Polyarthra	vulgaris	19292	9130	142
Lecanidae		Lecane	luna			142
Testudinellidae		Filinia	longiseta			142
Nauplius larvae		Unident.	sp.	747292	285686	4899
Benthos		Lamellibrancha	Unident.	sp.	4	11
	Polychaeta	Unident.	sp.	3	6	3
	Chironomidae	Unident.	sp.	10		
	Diptera	Unident.	sp.			1

Note: Not Sampled in May due to Excessive Silt Loads in River.



Table A2: Micro-flora and Micro-fauna of the Jamuna River at the Jamuna/Teesta Confluence

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Spirogyra	spp.	244	346			
		Ankistrodesmus	falcatus	122				
		Microspora	tumidula				3402	
	Bacillariophyceae	Synedra	sp.	122	166			
		Synedra	ulna				630	
		Gyrosigma	sp.				504	
		Fragillaria	sp.				1512	
		Nitzschia	sp.				3402	
		Surirella	sp.				63	
		Cocconeis	sp.				378	
	Cyanophyceae	Oscillatoria	sp.		85			
Zooplankton	Copepoda	Cyclops	nanus	18400				
		Mesocyclops	leuckarti		2295	1674		
	Cladocera	Bosmina	longirostaris	6466				
		Bosmina	coregoni		4675	1674		
		Chydorus	globosus	3294	2275			
	Brachionidae	Keratella	tropica	6466	4675			
	Synchaetidae	Polyarthra	vulgaris		7455			
	Lecanidae	Monostyla	quadridentata	3294				
	Trichocercidae	Trichocerca	cylindrica		4675			
	Brachionidae	Notholca	sp.		4675			
	Nauplius larvae	Unident.	spp.	32574	16490			
	Benthos	Chironomidae	Unident.	sp.	1	1		
		Diptera	Unident.	sp.	3			
Lamellibrancha		Unident.	sp.		2			
Coleoptera		Dytiscus	sp.		1			
Neuston	Mosquito larvae	Unident.	sp.	6				
	Hemiptera	Unident.	sp.	4				



Table A3: Micro-flora and Micro-fauna of the Jamuna River at the Manos Regulator, Gaibandha

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY
Phytoplankton	Chlorophyceae	Closteriopsis	sp.			1394	
		Microspora	floccosa	79360		902	
		Microspora	tumidula		151200		4940
		Ulothrix	sp.	1920		820	
		Glocotila	spiroides	12480	68850		
		Spirogyra	sp.	7680			
		Staurastrum	acanthocephalum	1280			
		Actinastrum	hautzschii	9920	6885		
		Pediastrum	duplex	1280			
		Pediastrum	simplex		6345		
		Cylindrocapsa	sp.	1920			
		Oocystis	parvaparva	1920			
		Ankistrodesmus	falcatus	5760	48600		
		Scenedesmus	quatricauda	1920			
		Crucigenia	sp.	1760			
		Cosmarium	sp.	2560			
		Trochiscia	sp.	1120			
	Bacillariophyceae	Synedra	ulna	9120	16200	16810	10660
		Fragillaria	sp.			12300	2860
		Gomphonema	sp.			16400	
		Navicula	sp.	2240	8100	8610	
		Cymbella	sp.				1820
		Surirella	robusta		2700		
Cyanophyceae	Oscillatoria	sp.	1920	1485			
Dinophyceae	Ceratium	furca	64000				
Euglenophyceae	Euglena	acus	1600				
Zooplankton	Copepoda	Heliodiaptomus	contortus		270		
		Heliodiaptomus	varicans rubellus		135		
	Cladocera	Moina	brachiata		135		
		Bosminopsis	deitersi		135		
		Diaphanosoma	leuchtenbergianum		270		
		Bosmina	coregoni		135		
	Brachionidae	Keratella	tropica		135		
	Asplanchnidae	Asplanchna	priodonta		270		
	Testudinellidae	Filinia	longiseta		135		
	Synchaetidae	Polyarthra	vulgaris		135		
Benthos	Chironomidae			15	47		
	Diptera			4			
	Polychaeta			2			
	Lymnidae			2	8		
	Odonata			1	23	1	
	Oligochaeta				108		





Table A4: Micro-flora and Micro-fauna of the Jamuna River Below the Jamuna-Barnai Confluence

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR
Phytoplankton	Chlorophyceae	Hydrodictyon	reticulatum	405		
		Gloeotila	spiroides	7830	43424	
		Gloeotila	pelagica	1740		
		Microspora	tumidula	36975	35696	
		Microspora	quadrata	16675		
		Microspora	crassior	13775		
		Ankistrodesmus	falcatus	2610	6440	
		Spirogyra	sp.	870		
	Cyanophyceae	Actinastrum	hantzschii		1104	
		Aphanocapsa	leiformis	870		
	Bacillariophyceae	Anabaena	constricta	1450		
		Synedra	ulna	2030	1564	445
		Pinnularia	tabellaria	725		
	Dinophyceae	Fragilaria	tabellaria		3680	
		Ceratium	furca	1305	644	
Zooplankton	Copepoda	Mesocyclops	leuckarti	12985		
		Mesocyclops	dybowski		92	
	Cladocera	Bosminopsis	deitersi	12985		
	Brachionidae	Keratella	tropica	33785		
		Keratella	cochlearis		92	
		Brachionus	calyciflorus	7685		
		Brachionus	caudatus	23200		
		Notholca	sp.	30885	92	
	Trichocercidae	Trichocerca	cylindrica	30885		
	Synchaetidae	Polyarthra	vulgaris	15370		
Nauplius larvae	Unident.	spp.	7685	92		
Benthos	Chironomidae	Unident.	sp.	1		
	Coleoptera	Unident.	sp.	1		
	Lamellibrancha	Unident.	ssp.		2	2
	Limnidae	Unident.	sp.		1	
	Diptera	Unident.	sp.			1



Table A5: Micro-flora and Micro-fauna of Padma River at Rajshahi

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Ulothrix	sp.			59780		
		Microspora	tumidula	157615		4900	238050	
		Microspora	floccosa		419520			
		Spirogyra	sp.	1740	21280	13720	2300	
		Oedogonium	sp.			3920		
		Pediastrum	simplex	870	1824	13720		
		Pediastrum	tetras	580				
		Pediastrum	duplex	435			7475	
		Pediastrum	biradiatum				10925	
		Golenkinia	sp.			2058		
		Staurastrum	sp.			8918	4600	
		Pleodorina	indica	1595				
		Gloeotila	spiroides	435			8050	
		Coelastrum	biporum	1305				
		Zygnema	sp.		1520			
		Cyanophyceae	Merismopodia	punctata	2320		686	
			Aphanocapsa	koorderi	1305		11760	
	Aphanocapsa		leiformis		3648			
	Aphanocapsa		sp.				23345	
	Anabaena		sp.			85260		
	Anabaena		fertilissima		24320			
	Anabaena		tanganykans				20125	
	Anabaena		cercinalis				8625	
	Coelosphaerium		sp.	6960				
	Myxocercina		barmensis	4350				
	Bacillariophyceae	Melosira	sp.			980		
		Fragilaria	sp.	1015				
		Synedra	ulna	1015			8050	
		Surirella	sp.				1150	
	Dinophyceae	Ceratium	furca	435		2058		
	Euglenophyceae	Euglena	sp.			882		
	Chrysophyceae	Dinobryon	sp.			217560		
Zooplankton	Copepoda	Diaptomus	gracilis	23200	4180	1568		
		Mesocyclops	leuckarti		23180	980		
		Cyclops	varicans rubellus		8360	1764		
	Cladocera	Diaphanosoma	leuchtenbergianum		10488			
		Bosmina	longirostris	3915				
		Ceriodaphnia	rigaudi		29488			
		Chydorus	gibbus	7685	4180			
		Daphnia	lumholtzi		2025			
		Moina	brachiata		2052			
		Brachionidae	Brachionus	falcatus			7252	
	Brachionus		budapestinensis		48488			
	Brachionus		calyciflorus	7685				
	Brachionus		caudatus			4114		
	Brachionus		angularis	108315	52668	4114	130870	
	Notholca		sp.				3105	
	Keratella		tropica	23200	71744	4114	28635	
	Keratella		cochlearis	92800	632332	11760	134090	
	Horaella		brehmi				54165	
	Notommatidae		Cephalodella	megaloccephala	3915			
	Trichocercidae	Trichocerca	cylindrica	30885	12616			
	Testudinellidae	Filinia	longiseta		1764			
	Hexarthridae	Hexarthra	intermedia	3915	29180		6325	
	Synchaetidae	Polyarthra	sp.	7685				
		Polyarthra	vulgaris		14744	2842		
	Benthos	Nauplius larvae		54085	63232	198		
		Polychaete		12	11	5		
		Bivalve				3	2	
	Limnidae					10		



Table A6: Micro-flora and Micro-fauna of the Teesta River at Painalghat Groyne

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY
Phytoplankton	Chlorophyceae	Pediastrum	duplex			650	7245
		Spirogyra	spp.	32594			
		Hydrodictyon	reticulatum	1032			
		Schroederia	setigera	344			
		Ulothrix	sp.	602			
		Ankistrodesmus	falcatus		845		
		Coelastrum	microporum		650		
		Gloeotila	spiroides			5635	
	Bacillariophyceae	Fragillaria	sp.			1950	
		Synedra	ulna	1032	4550	2665	
		Gomphonema	gracile	688			
		Nitzschia	sp.	1376			
Cyanophyceae	Ocellularia	sp.	1376				
Zooplankton	Copepoda	Cyclops	nanus	2322			
	Cladocera	Ceriodaphnia	rigaudi	4730			
		Bosmina	longirostris		65		
	Lecanidae	Lecane	luna	65			
Benthos	Diptera	Unident.	sp.	3		2	
	Limnidae			1			



Table A7: Micro-flora and Micro-fauna of the Atrai River at the Atrai-Barnai Confluence.

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Microspora	tumidula	3852			1540	
		Pediastrum	biradiatum	3210				
		Pediastrum	tetras	963				
		Pediastrum	duplex	1070				
		Pediastrum	simplex		2016		864	
		Trochiscia	reticulata	3959				
		Coelastrum	microporum	1819				
		Closterium	angustatum	642				
	Bacillariophyceae	Closterium	kuetzingii	1177				
		Surirella	robusta	1284	2520	1320		
		Synedra	ulna	17013		594		
		Nitzschia	hantzschiana	1819				
		Pinnularia	gibba	963				
		Navicula	exigua	642				
		Fragilaria	cupucina	3210	9095			
		Gomphonema	augur	963				
		Cymbella	tumida	1605				
Cyanophyceae		Aphanocapsa	crasa	2996				
Dinophyceae	Ceratium	furca	1284	29960				
	Euglenophyceae	Euglena	sp.			599		
		Trachelomonas	sp.	2247				
Zooplankton	Copepoda	Diaptomus	dorsalis		31500	113586	22880	
		Mesocyclops	leuckarti		126000			
		Mesocyclops	dybowski		31374	47586	6050	
	Cladocera	Bosmina	longirostaris		3402			
		Diaphanosoma	leuchtenbergianum		6930	1782	1485	
		Ceriodaphnia	rigaudi				6050	
	Brachionidae	Keratella	tropica		48888		15235	
		Keratella	cochlearis	11342	17388		56485	
		Brachionus	diversicornis			1782	1485	
		Brachionus	angularis				27445	
		Notholca	sp.	11342				
		Lepadella	costata				4565	
		Ascomorpha	ecaudata				6050	
	Testudinellidae	Horella	brehmi	34240				
		Testudinella	patina	11342			3025	
		Filinia	longiseta				6050	
	Synchaetidae	Polyarthra	vulgaris	22791	34902	3630	12210	
Trichocercidae		Trichocerca	cylindrica		13986			
		Lecanidae	luna		3402			
Benthos	Odonata	Misc.	sp.			1		
	Planorbidae	Misc.	sp.	10				
		Bivalva	Misc.	sp.		57	1	19
	Limnidae	Misc.	sp.			18	10	
		Polychaeta	Misc.	sp.			3	
	Chironomidae	Misc.	sp.			1		4
			Misc.	sp.	2			
Neuston	Hemiptera	Misc.	sp.	10				
	Decapoda	Misc.	sp.					





Table A8: Micro-flora and Micro-fauna of the Atrai River at the Atrai-Nandokuja River Confluence

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Ulothrix	sp.			950		
		Microspora	sp.	162				
		Microspora	tumidula				30816	
	Cyanophyceae	Microcystis	sp.			7600		
		Oscillatoria	sp.			950		
		Oscillatoria	princeps				3852	
		Phormidium	sp.			950		
	Bacillariophyceae	Aphanocapsa	leiformis		1000			
		Navicula	sp.			950		
		Surirella	robusta		37000	1995		
		Synedra	ulna	162			214	
		Gyrosigma	scalproides		7000			
		Gomphonema	gracile		4000			
	Dinophyceae	Fragilaria	sp.				321	
		Ceratium	furca		5000			
Zooplankton	Copepoda	Heliodiaptomus	contortus	205092	52700	7885	2889	
		Heliodiaptomus	latifi		77700	26315	2889	
		Mesocyclops	distinctus	64800				
		Mesocyclops	leuckarti		33300	34200	2889	
		Mesocyclops	hyalinus		19400			
		Cyclops	varicans rubellus	21546				
		Diaptomus	dorsalis		63800			
		Cladocera	Bosmina	longirostris			5225	
	Bosmina		coregoni	32400				
	Diaphanosoma		leuchtenbergianum	64800		10450		
	Daphnia		galeata		30500			
	Daphnia		longiramis	10692				
	Daphnia		lumholtzi	32400				
	Daphnia		similis	21546	22100			
	Daphnia		magna	21546	8300			
	Moina		affilis	10692				
	Scapholeberis		mucronata	21546				
	Synchaetidae		Polyarthra	vulgaris		8300		17762
		Brachionidae	Keratella	tropica	86346	50000	28975	5885
	Keratella		cochlearis				8881	
	Lepadella		ovalis		2700			
	Brachionus		angularis	21546	5500		11770	
	Notholca		sp.		2700			
	Colurella		obtusa		2700			
	Asplanchnidae	Asplanchna	priodonta	10692				
	Trichocercidae	Trichocerca	cylindrica		5500			
	Nauplius larvae	Unident.	spp.	399654	372100	477565	38520	
	Benthos	Bivalve	Unident.	sp.	10	14	4	7
		Limnidae	Unident.	sp.	1		3	2
Polychaete		Unident.	sp.	3	4	3	2	
Hemiptera		Unident.	sp.		7			
Chironomid larvae		Unident.	sp.		4	2	69	
Dipteran larvae		Unident.	sp.				5	



Table A9: Micro-flora and Micro-fauna of the Sib River Close to Andasuria Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY
Phytoplankton	Chlorophyceae	Microspora	floccosa	41412			
		Microspora	tumidula	24360			560
		Ulothrix	sp.	1421			
	Cyanophyceae	Microcystis	flos-aquae	1015	3410		1630
		Bacillariophyceae	Synedra	ulna	1827		
	Fragilaria		sp.	1218			
	Surirella		robusta	1827			
	Euglenophyceae	Euglena	acus	5481			435
		Phacus	curvicauda	18676			
	Dinophyceae	Ceratium	furca	115101	17600		
Zooplankton	Copepoda	Hellodiptomus	latifi	108199	161260	62400	1458
		Hellodiptomus	contortus	26999			
		Cyclops	varicans rubellus	203			
		Cyclops	nanus	203			1458
		Neodiptomus	strigilipes		27390	34632	1458
		Diptomus	dorsalis		57750		
		Mesocyclops	leuckarti		119130		1458
		Mesocyclops	sp.				31720
	Cladocera	Diaphanosoma	brachyurum	26999	396000	63440	4482
		Ceriodaphnia	rigaudi	53998	6050		
		Bosmina	longirostaris	13601			
		Moina	macrocopa		2970		
		Moina	brachiata				2808 4482
	Brachionidae	Keratella	tropica	40600			
		Keratella	cochlearis	67802			
	Synchaetidae	Polyarthra	vulgaris	81200	33550		13500
		Synchaeta	sp.			22984	1458
	Hexarthridae	Hexarthra	mira				1458
	Nauplius larvae	Unident.	sp.	284200	332860	138528	56970
	Benthos	Polychaeta	Unident.	sp.	2	18	
Diptera		Unident.	sp.	4			
Chironomidae		Unident.	sp.	2		1	2
Oligochaeta		Unident.	sp.		3	27	21
Hirudinae		Unident.	sp.				1



Table A10: Micro-flora and Micro-fauna of Beel Baster Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MAR	APR	MAY
Phytoplankton	Chlorophyceae	Pediastrum	simplex	9350	680	
		Ulothrix	sp.		24480	
		Microspora	tumidula		10880	1057280
		Spirogyra	sp.			1280
		Gloeotila	spiroides			16640
	Cyanophyceae	Anabaena	tanganykans			46080
		Chroococcus	sp.			384
	Bacillariophyceae	Melosira	sp.		9520	
		Navicula	sp.			1280
	Euglenophyceae	Euglena	aquons			1280
Dinophyceae	Ceratium	furca	85800	164560	7936	
Zooplankton	Copepoda	Neodiatomus	strigilipes	256630	122740	
		Mesocyclops	leuckarti	79310	62288	10624
		Mesocyclops	sp.			4964
	Cladocera	Moina	brachiata	24420		23248
		Diaphanosoma	leuchtenbergianum	33550		
		Ceriodaphnia	rigaudi	15180	60384	23248
	Trichocercidae	Trichocerca	similis	2970	277576	
Nauplius larvae	Unident.	sp.	339020		39040	
Benthos	Chironomidae	Unident.	sp.	35	27	11
	Lamellibrancha	Unident.	sp.	2	1	8
	Oligochaeta	Unident.	sp.	1		
	Diptera	Unident.	sp.		7	3
	Limnidae	Unident.	sp.		9	

Note: Not Sampled in February.



Table A11: Micro-flora and Micro-fauna of Harudangha Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Pediastrum	biradiatum	1120		19800		
		Pediastrum	duplex				7245	
		Nephrocytium	sp.			1815		
		Gloeotaenium	loithsburgarium			1980		
		Kvichneriella	sp.			3465		
		Coelastrum	sp.			1485		
		Cosmarium	sp.			1320		
		Staurastrum	sexangulare	4200		9900		
		Staurastrum	acanthocephalum	2240				
		Staurastrum	perundulatum	1680				
		Staurastrum	longibrachiatum		23552			
		Gloeoitila	spiroides				5635	
		Xanthidium	burkillii	3360				
		Ulothrix	sp.			1155		
		Cyanophyceae	Microcystis	flos-aquae	88480	774912	235950	69345
	Microcystis		aeruginosa	28280	689664			
	Coelasphaerium		dubium	3080				
	Phormidium		sp.				1495	
	Aphanocapsa		leiformis	14280	5888	19800		
	Chroococcus		sp.			1320		
	Anabaena		circinalis		1320192	1815		
	Anabaena		fertilissima	27440				
	Anabaena		variabilis	15120				
	Anabaena		langanykae	3080				
	Myxocercina		spectabilis	3640				
	Bacillareophyceae		Melosira	sp.			10065	
		Synedra	ulna		33280			
Gomphonema		sp.		9472				
Navicula		sp.		10496				
Dinophyceae	Ceratium	furca		20992	16995			
	Trachelomonas	sp.			3795			
Euglenophyceae	Euglena	acus		13568				
Zooplankton	Copepoda	Heliodiaptomus	contortus	104440				
		Cyclops	varicans rubeilus	67200				
		Cyclops	nanus				9545	
		Mesocyclops	leuckarti	44800	6912	13695	12650	
		Mesocyclops	distinctus	67200			9545	
	Cladocera	Daphnia	lumholtzi	253680				
		Daphnia	longiramis	22400				
		Bosmina	longirostaris	388080	28160	32010	25530	
		Bosmina	coregoni	58080				
		Chydorus	globosus	164080				
		Ceriodaphnia	rigaudi	67200	14080			
		Diaphanosoma	leuchtenbergianum	52080	6912		6325	
	Brachionidae	Brachionus	forficula			9075		
		Keratella	tropica	119280	35328	9075	25530	
		Keratella	cochlearis	42496		4455		
		Notholca	sp.				3105	
	Synchaetidae	Polyarthra	vulgaris	212448				
		Trichocerca	longiseta	69120				
		Filinia	opolinesis	6912			3105	
		Nauplius larvae		14840	35328	22770	12650	
	Benthos	Chironomidae			6	25	286	2
		Diptera			3		128	5
		Oligochaeta						58
Limnidae				1				
Planorbidae				1				
Neuston	Odonata			**	**	***	****	
	Limnidae			**	**	**	**	
	Hemiptera						**	
	Diptera						**	





Table A12: Permanent Pond at PWB Resthouse, Paba, Rajshahi

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MAR
Phytoplankton	Euglenophyceae	Trachelomonas	sp.	462
Zooplankton	Copepoda	Heliodiaptomus	latifi	21714
		Mesocyclops	leuckarti	6391
	Cladocera	Bosmina	longirostaris	6391
		Moina	brachiata	6391
	Rotifera	Brachionus	angularis	6391
		Brachionus	forficula	40579
		Brachionus	diversicornis	2079
		Brachionus	zhniseri	4235
		Brachionus	quadridentatus	23485
		Filinia	longiseta	68376
		Filinia	opoliensis	4235
		Hexarthra	mira	235235
		Asplanchna	priodonta	34188
		Horaeia	brehmi	4235
		Keratella	tropica	12782
		Testudinella	patina	4235
		Polyarthra	vulgaris	6391
		Pomphodyx	sulcata	8470
	Nauplius larvae	Unident.	sp.	74767



Table A13: Micro-flora and Micro-fauna of Permanent Pond at Zinnah Park, Darghaghat, Paba, Rajshahi

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MARCH
Phytoplankton	Chlorophyceae	Pediastrum	duplex	462
		Microspora	sp.	154
		Closterium	dianae	154
Zooplankton	Copepoda	Heliodiaptomus	contortus	12782
		Cyclops	nanus	23485
		Mesocyclops	leuckarti	19173
	Cladocera	Moina	brachiata	14938
		Diaphanosoma	leuchtenbergianum	4235
		Ceriodaphnia	rigaudi	4235
	Rotifera	Brachionus	angularis	38423
		Brachionus	forficula	21329
		Brachionus	diversicornis	74844
		Brachionus	falcatus	57673
		Brachionus	budapestinensis	29876
		Trichocerca	similis	17094
		Keratella	tropica	42735
		Polyarthra	vulgaris	59829
		Filinia	longiseta	104720
Asplanchna	prionota	8470		
Nauplius larvae	Unident.	sp.	49126	

Table A14: Permanent Large Pond Micro-flora and Micro-fauna, Gopalsagar Pond, Puthia, Rajshahi

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MARCH
Phytoplankton	Chlorophyceae	Microspora	floccosa	3090
		Cyanophyceae	Microcystis	flos-aquae
	Bacillariophyceae	Microcystis	aeruginosa	45440
		Anabaena	cercinalis	36050
		Synedra	ulna	2060
Zooplankton	Copepoda	Heliodiaptomus	latifi	8549
		Neodiaptomus	strigilipes	2781
		Mesocyclops	distinctus	5665
		Mesocyclops	leuckarti	11330
		Mesocyclops	sp.	8549
	Cladocera	Daphnia	lumholtzi	19982
		Diaphanosoma	leuchtenbergianum	2781
		Simocephalus	serrulatus	80031
		Ceriodaphnia	rigaudi	2781
	Rotifera	Brachionus	urceolaris	19982
		Trichocerca	cylindrica	5665
		Keratella	tropica	5665
	Nauplius larvae	Unident.	sp.	11330



Table A15: Permanent Large Pond Micro-flora and Micro-fauna, Shamsagar, Puthia, Rajshahi

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MARCH
Phytoplankton	Cyanophyceae	Microcystis	flos-aquae	1373790
		Microcystis	aeruginosa	919655
		Anabaena	cercinalis	1204280
	Dinophyceae	Ceratium	furca	3676090
Zooplankton	Copepoda	Mesocyclops	inversus	27830
		Mesocyclops	distinctus	13915
	Cladocera	Simocephalus	serrulatus	147246
	Rotifera	Keratella	tropica	70081
		Brachionus	diversicornis	6831
		Brachionus	angularis	56166
		Polyarthra	vulgaris	6831
		Asplanchna	priodonta	13915
	Nauplius larvae	Unident.	sp.	105248

Table A16: Permanent Lake Micro-flora and Micro-fauna, Uttara Gonobhagan Lake, Natore

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MARCH
Phytoplankton	Chlorophyceae	Pediastrum	duplex	2550
		Microspora	tumidula	1575
		Mougeotia	sp.	750
		Westella	botryoides	675
	Cyanophyceae	Oscillatoria	sp.	150
		Aphanocapsa	biformis	75
	Euglenophyceae	Euglena	acus	225
Dinophyceae	Ceratium	furca	750	
Zooplankton	Copepoda	Heliodiaptomus	contortus	2025
		Neodiaptomus	strigilipes	2025
	Rotifera	Brachionus	quadridentatus	2025
		Brachionus	havaneansis	8250
		Brachionus	angularis	79050
		Brachionus	diversicornis	4125
		Brachionus	forficula	4125
		Polyarthra	vulgaris	12450
		Monostyla	sp.	24975
		Linda	sp.	6225
		Asplanchna	priodonta	2025
	Filinia	longiseta	2025	
	Trichocerca	longiseta	2025	
Nauplius larvae	Unident.	sp.	6225	



Table A17: Micro-flora and Micro-fauna of Andasuria Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Ererella	sp.			9400		
		Ulothrix	sp.			92120		
		Oedogonium	sp.			9400		
		Pleodorina	indica	5780				
		Pleodorina	sphaerica		396900			
		Eudorina	elegans	2550				
		Arthrodesmus	curvatus	680				
		Cosmarium	subtumidum		10800			
		Gonatozygon	kinahanil		64800			
		Microspora	tumidula		1080			
		Selenastrum	gracile		8235			
		Staurastrum	sp.				1064	
		Coelastrum	sp.				931	
		Volvox	carteri	1020	43200			
		Closterium	moniliferum		1080			
		Microcystis	flos-aquae	1530	21600	52640	67963	
		Microcystis	aeruginosa	1020				
		Oscillatoria	sp.	680		54520		
		Oscillatoria	princep		2430			
		Oscillatoria	chlorina				2660	
		Anabaena	cercinalis	1530		9400		
		Anabaena	consticta	680				
		Anabaena	tanganykans				78470	
		Calothrix	sp.	5950				
		Calothrix	stagnalis		5940			
		Lyngbya	sp.		1620			
		Merismopedia	sp.				20083	
		Bacillariophyceae	Surirella	sp.			3948	1596
			Rhopalodia	sp.	2890			
			Melosira	sp.			5640	1463
			Fragilaria	sp.	1530			
			Fragilaria	capucina		7560		
			Pinnularia	gibba		12150		
			Gyrosigma	sp.				1197
			Navicula	sp.				2660
			Gomphonema	sp.				14364
			Ceratium	furca	28390	23220000	78960	19950
			Dinophyceae					
	Euglenophyceae	Phacus	sp.			24440		
	Zooplankton	Copepoda	Heliodyptomus	contortus	79390			
			Heliodyptomus	latifi	22610			
			Diaptomus	dorsalis		86130	62604	3591
			Diaptomus	sp.		18630	94000	
			Cyclops	varicans rubellus		7425		3591
			Cyclops	nanus			156416	
			Diaphanosoma	leuchtenbergianum	11390	3645	31208	
Daphnia			lumholtzi	11390				
Ceriodaphnia			rigaudi	22610		52076		
Bosmina			longirostaris			5076		
Hexarthridae			Hexarthra	mira				11039
			Anuraeopsis	coelata				7315
Testunellidae			Filinia	longiseta				33117
			Trichocerca	cylindrica		26190		14630
Trichocerca			similis			14985		
Synchaetidae			Polyarthra	vulgaris	11390	7425		18354
			Synchaeta	sp. (nov)		11205		
Notommatidae		Pseudoharringia	sp.		3645			
Lecanidae		Lecane	ohioensis		3645			
Brachionidae		Lepadella	patella		7425			
		Keratella	tropica			57528	121828	
		Keratella	cochlearis				11039	
		Keratella	angularis				22078	
Nauplius larvae		Unident.	sp.	147390	314955	945076	88578	
Benthos		Chironomidae	Unident	sp.	4	4	1	
		Diptera	Unident	sp.	5			
		Bivalva	Unident	sp.	1			
		Oligochaeta	Unident	sp.			3	
		Hemiptera	Nepa	sp.	*	*	*	*
		Hemiptera	Ranatra	sp.	*	*	*	*
		Coleoptera	Dytiscus	sp.	*	*	*	*
		Insecta	Misc.	spp.	*	*	*	*





Table A18: Micro-flora and Micro-fauna of Kumirdaha Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY
Phytoplankton	Chlorophyceae	Pediastrum	biradiatum			603	1708
		Microspora	tumidula			3350	9516
	Dinophyceae	Ceratium	furca	226160	117600	536	
	Bacillariophyceae	Melosira	sp.			670	
		Navicula	maniscula	2570			
	Euglenophyceae	Trachelomonas	sp.	100230			
	Cyanophyceae	Microcystis	flos-aquae	59110			113460
		Spirulina	sp.				4636
Anabaena		tanganykans				3660	
Zooplankton	Copepoda	Heliodiaptomus	latifi	82240	174720	109746	6988
		Diaptomus	gracilis	54741			
		Mesocyclops	dybowskii	257		35309	20252
		Mesocyclops	distinctus	257	185640		
		Mesocyclops	leukarti	257	253360		
		Mesocyclops	sp.		115920	24120	60756
	Cladocera	Daphnia	iumholtzi	123360			27084
		Bosmina	longirostaris	219221			
		Bosmina	coregoni	34860			
		Diaphanosoma	leuchtenbergianum	68362	186480	40870	13420
		Ceriodaphnia	rigaudi	493440	372960	50183	67336
		Moina	micrura	13621	151200		
		Moina	brachiata	47802	23100	22311	
		Moina	macrocopa		57960		
	Testudinellidae	Horaella	brehmi	27242			
		Filinia	longiseta	13621			
	Brachionidae	Brachionus	calyciflorus			29748	
		Brachionus	falcatus				155672
		Keratella	tropica				67336
	Nauplius larvae	Unident.	sp.	27242	1189440	102309	20252
Benthos	Chironomidae	Unident.	sp.	11	18	9	32
	Lymnidae	Unident.	sp.	3	3		2
	Mosquito larvae	Unident.	sp.	2			
	Diptera	Unident.	sp.	1			
Neuston	Lymnidae	Unident.	sp.	2			
	Hemiptera	Unident.	sp.	65			
	Chironomidae	Unident.	sp.	3			
	Mosquito larvae	Unident.	sp.	33			



Table A19: Micro-flora and Micro-fauna of Madardaha Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Pediastrum	tetras	3776		407		
		Pediastrum	duplex		375		8640	
		Coelastrum	sp.				1440	
		Staurastrum	sp.				1440	
		Ulothrix	sp.			703		
		Microspora	tumidula			66600	2.4E 0	
		Kirchneriella	lunaria	42480				
		Trochiscia	sp.	2832				
		Goleotila	spiroides				2880	
	Bacillariophyceae	Surirella	robusta		250			
	Euglenophyceae	Phacus	acus	22656		3330		
		Euglena	aqueous			10730	1440	
		Trachelomomas	sp.			1665		
	Xanthophyceae	Ophiocytium	sp.			333		
	Cyanophyceae	Aphanocapsa	biformis	28566				
		Aphanocapsa	koordersi	13774				
		Merismopedia	tenuissima	1036				
		Merismopedia	glauca	2546				
		Merismopedia	minima	1824				
		Microcystis	flos-aquae	13452	625			
		Chroococcus	turgidus	35400				
		Anabaena	tanganykans				92160	
		Ceratium	furca				4320	
	Copepoda	Heliodiaptomus	contortus	32568	13750	4070		
		Heliodiaptomus	latifi	45548	17250	1998		
		Cyclops	varicans rubellus	12508		1998		
		Mesocyclops	leuckarti		58750		3888	
		Mesocyclops	sp.		44875		3888	
		Neodiaptomus	strigilipes				55872	
		Cladocera	Ceriodaphnia	laticaudata	151040			
	Ceriodaphnia		rigaudi		427000		35856	
	Daphnia		lumholtzi	125788				
	Diaphanosoma		leuchtenbergianum	88028	76250		3888	
	Moina		brachiata				7920	
	Synchaetidae	Polyarthra	vulgaris			69856	7920	
	Brachionidae	Brachionus	falcatus				3888	
		Brachionus	calyciflorus				3888	
	Nauplius larvae	Unident.	sp.	62776	256875	182854	107856	
	Benthos	Chironomidae	Unident.	sp.	10	4		3
		Limnidae	Unident.	sp.	2		1	1
		Diptera	Unident.	sp.				1



Table A20: Micro-flora and Micro-fauna of Haldi Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR
Phytoplankton	Chlorophyceae	Microspora	tumidula	54119	
		Pediastrum	biradiatum	3620	
		Pediastrum	duplex	2353	
		Ankistrodesmus	falcatus	2172	
		Coelastrum	microporum	1629	
	Cyanophyceae	Oscillatoria	princep	3620	
		Oscillatoria	chlorina	2896	
		Anabaena	sp.		765
	Bacillariophyceae	Surirella	robusta	3258	765
		Pleurosigma	balticum	2172	
		Gyrosigma	acuminatum	5430	
		Gyrosigma	scalproides		459
		Gomphonema	augur	2715	
		Melosira	granulata	2172	
Cymbella		turgida	1629		
Euglenophyceae	Euglena	acus	1086	1086	
Dinophyceae	Ceratium	furca	17557		
Zooplankton	Copepoda	Heliodiaptomus	contortus	77106	
		Heliodiaptomus	latifi		105723
		Mesocyclops	leuckarti	96473	122106
		Mesocyclops	sp.		80325
		Neodiaptomus	strigilipes		59211
		Diaptomus	dorsalis		85680
	Cladocera	Diaphanosoma	leuchtenbergianum	9593	63648
		Moina	brachiata		12699
	Brachionidae	Brachionus	caudatus	114754	
		Keratella	tropica	57920	
		Keratella	cochlearis	106066	
		Notholca	sp.	781920	
	Trichocercidae	Trichocerca	cylindrica	28960	
	Nauplius larvae			260640	501381
Benthos	Chironomidae			4	
	Lamelibrancha			1	
Neuston	Hemiptera			25	56
	Chironomidae			3	37
	Diptera			3	
	Archnida			6	
	Planorbidae				12

Note: Neuston Collected from Paddy Field on Edge of Beel.  
No Collecting Possible in April or May as the Beel was Dry.



Table A21: Temporary Pond Micro-flora and Micro-fauna. Thana Parashad Pond, Shagata, Gaibandha Dist.

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MAR
Phytoplankton	Chlorophyceae	Pediastrum	duplex	344
		Microspora	sp.	540
	Euglenophyceae	Euglena	sp.	1080
	Cyanophyceae	Anabaena	cercinalis	348
Zooplankton	Copepoda	Heliodyptomus	contortus	1365
	Cladocera	Diaphanosoma	leuchtenbergianum	2210
		Rotifera	Brachionus	calyciflorus
		Asplanchna	priodonta	3120
		Polyarthra	vulgaris	3120
		Rotaria	neptunia	1040
		Trichocerca	cylindrica	1690
		Pomphodyx	sulcata	650
		Nauplius larvae		2600

Table A22: Temporary pond Micro-flora and Micro-fauna, Zinnah Park Pond, Darghaghat, Paba, Rajshahi

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	MAR
Phytoplankton	Chlorophyceae	Pediastrum	duplex	132
	Euglenophyceae	Euglena	acus	9900
		Phacus	curvicauda	1980
		Trachelomonas	klebsii	8976
Zooplankton	Copepoda	Cyclops	nanus	3630
	Cladocera	Moina	brachiata	1782
	Rotifera	Brachionus	angularis	1422630
		Polyarthra	vulgaris	49434
		Epiphanes	sp.	126456
		Monostyla	sp.	69630
		Horaeella	brehmi	7260
		Filinia	longiseta	5478
		Popmphodyx	sulcata	3630
		Asplanchna	priodonta	5478
		Rotaria	neptunia	1782
		Anuraeopsis	fissa	3630
	Nauplius larvae	Unident.	sp.	14652





Table A23: Micro-flora and Micro-fauna of Bamandanga Beel

ECOLOGICAL GROUP	MAJOR GROUP	GENUS	SPECIES	FEB	MAR	APR	MAY	
Phytoplankton	Chlorophyceae	Microspora	tumidula			5850	54795	
		Pediastrum	duplex	420	1560	1500		
		Pediastrum	simplex				585	
		Coelastrum	sp.				2015	
		Diacanthos	leclenophorus				1755	
		Staurastrum	sp.				650	
		Crucigonia	sp.			1575		
		Westella	botryoides	980				
		Characium	obtusum	280				
		Ankistrodesmus	falcatus		3600			
		Closteriopsis	longissima		2760			
		Glocofila	spiroides				5915	
		Ulothrix	sp.			1425		
		Cyanophyceae	Microcystis	flos-aquae		470400	5270	12480
	Merismopedia		sp.		600	750	780	
	Aphanocapsa		leiformis	3220	30120			
	Aphanocapsa		sp.				4550	
	Aphanocapsa		banarasensis		18520			
	Chlorogloca		microcystoides		19560			
	Anabaena		cercinalis				2795	
	Bacillariophyceae	Fragilaria	sp.	1540				
		Cymbella	stuxbergii		840			
		Melosira	granulata	560		3825		
	Dinophyceae	Ceratium	furca	76580	201600	59250	1820	
	Euglenophyceae	Phacus	sp.			13500		
		Euglena	sp.	280		8250	1365	
		Trachelomonas	sp.	420		2250		
	Zooplankton	Copepoda	Heliodiaptomus	latili	7420	106200	199950	12610
			Heliodiaptomus	contortus	22400	72960	91575	10790
Mesocyclops			hyalinus		83160	39525	7150	
Mesocyclops			leuckarti			51975		
Cladocera		Daphnia	lumholtzi	52220				
		Daphnia	similis	14840				
		Bosmina	longirostaris	14840	6360			
		Diaphanosoma	leuchtenbergianum	14840	6360	70725	7150	
		Ceriodaphnia	rigaudi	29820	3240	16650	21645	
		Moina	brachiata		12720	6225		
		Brachionidae	Brachionus	calyciflorus				3575
Testudinellidae		Keratella	tropica	298620	82800	22875		
		Keratella	cochlearis	22400		6225		
Notommata		Notommata	pachyura	14800	50400			
Lecanidae		Monostyla	closterocerca			2025		
Trichocercidae		Trichocerca	cylindrica	37240	9600			
		Trichocerca	similis			12450		
Asplanchnidae		Asplanchna	prionota	14840	6360			
Synchaetidae		Polyarthra	vulgaris	22400	9600	41625		
Nauplius larvae		Unident.	sp.	350980	156360	347850	41470	
Benthos		Chironomidae	Unident.	sp.	35	60		5
		Diptera	Unident.	sp.	7		5	3
		Lymnidae	Unident.	sp.	15	1	5	85
		Planorbidae	Unident.	sp.			3	7
		Oligochaeta	Unident.	sp.	7		3	7
		Bivalve	Unident.	sp.			1	
		Neuston	Oligochaeta	Unident.	sp.	15		
Ephemeroptera			Unident.	sp.	1	*		
Chironomidae			Unident.	sp.	5			
Diptera			Unident.	sp.	1			
Cladocera	Unident.		sp.	20				
Hemiptera	Unident.		sp.	1				
Lamellibranchs	Unident.		sp.		*			
Odonata	Unident.		sp.			*		
Planorbidae	Unident.		sp.			*		



Table A24: Aquatic Macro-flora of Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Aquatics	Hygroryza	aristata	4
	Hydrilla	verticillata	4
	Hydrocharis	dubia	3
	Schoenoplectus	articulatus	3
	Schoenoplectus	grossus	3
	Polygonum	sp	3
	Ipomoea	aquatica	4
	Ceratophyllum	dumersum	5
	Sagittaria	sagittifolia	3
	Hydrocharis	dubia	3
	Cryptocoryne	retrospiralis	4
	Trapa	natans	4

Table A25: Ricefield and Ricefield Margin Flora of Andasuria Beel

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Ricefield margin	Herbs	Gnaphalium	affine	4
		Gnaphalium	alba	4
		Polygonum	plebegium	3
		Amaranthus	spinosus	2
Ricefield	Herb	Oryza	sp	5



Table A26: Homestead Macro-flora Close to Sib River Opposite Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Borassus	flabellifer	3
	Azadirachta	indica	3
	Zizyphus	mauritiana	3
	Annona	reticulata	2
	Mangifera	indica	3
	Artocarpus	heterophyllus	2
	Phoenix	sylvestris	4
	Tamarindus	indica	1
Shrubs	Ipomoea	fistulosa	3
Herbs	Clerodendrum	sp	4
	Cassia	occidentalis	3
	Colocasia	esculenta	3
	Argemone	mexicana	2
	Leonurus	sibericus	3
	Amaranthus	spinosus	3
	Polygonum	sp	3

Table A27: Embankment Macro-flora of Sib River Opposite Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Herbs	Cuscuta	reflexa	1
	Cynodon	dactylon	3
	Clerodendrum	viscosum	3
	Cassia	sp	3
Shrub	Lantana	camara	3



Table A28: Homestead Macro-flora of the Atrai River at the Atrai-Barnai Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Albizia	procera	3
	Cocos	nucifera	3
	Acacia	nilotica	2
	Areca	catechu	2
	Artocarpus	heterophyllus	2
	Dalbergia	sissoo	2
	Mangifera	indica	2
	Zizyphus	mauritiana	2
	Aegle	marmelos	1
Shrubs	Heliotropium	indicum	3
	Ricinus	comunis	2
	Datura	fastuosa	1
Herbs	Bambusa	sp	4
	Musa	sapientum	4
	Amaranthus	spinosus	3
	Cassia	occidentalis	3
	Clerodendruna	viscosum	3
	Colocasia	esculenta	3
	Argemone	mexicana	2
	Centella	asiatica	2
	Cynodon	dactylon	2
	Leonurus	sibericus	2
	Polycarpon	hydropiper	2
	Polygonum	prostratum	2

Table A29: Wheat Field Macro-flora of the Atrai River at the Atrai-Barnai Confluence

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Wheatfield	Herbs	Triticum	aestivum	5
		Amaranthus	spinosus	2
		Gomphrena	globosa	2
Margins	Herbs	Amaranthus	spinosus	3
		Echinochloa	colonom	3
		Gomphrena	globosa	3
		Polycarpon	prostratum	3





Table A30: Refuge Woodland Macro-flora Amongst Fields at the Atrai-Nandokuja Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Phoenix	sylvestris	3
	Polyalthia	longifolia	3
	Bombax	ceiba	2
	Syzygium	sp	2
	Mangifera	indica	1
	Zizyphus	mauritiana	1
Herbs	Bambusa	sp	4
	Centella	asiatica	3
	Chrysopogon	aciculatus	3
	Colocasia	esculenta	3
	Leucas	aspera	3
	Phylla	nudiflora	3
	Smilax	zeylanica	3
	Ageratum	conyzoides	2
	Gnaphalium	alba	2
	Leonurus	sibericus	2
	Rumex	dentatus	2
	Saccharum	spontaneum	2
	Solanum	nigrum	2
	Vernonia	patula	2
	Ammannia	baccifera	1
	Clerodendrum	viscosum	1

Table A31: Pond Bank Macro-flora at the Atrai-Nandokuja River Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Acacia	nilotica	4
	Borassus	flavelifer	3
	Phoenix	sylvestris	3
	Azadirachta	indica	1
Shrub	Ipomoea	fistulosa	3
Herbs	Caesulia	axillaris	2
	Centella	asiatica	2
	Fimbristylis	sp	2
	Polygonum	hydropiper	2
	Solanum	nigrum	2
	Vernonia	patula	2



Table A32: Mixed Cereal Crop Macro-flora Amongst Fields at the Atrai-Nandokuja River Confluence

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Rice/wheatfield	Herb	Oryza	sp	5
		Triticum	aestivum	5
		Gnaphalium	alba	3
Field margin		Gnaphalium	affine	3
		Gomphrena	globosa	3
		Phylla	nudiflora	3
		Centella	asiatica	2
		Ranunculus	scleratus	2
		Rumex	dentatus	2
		Vernonia	patula	2

Table A33: Homestead Macro-flora at the Atrai-Nadokuja River Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Phoenix	sylvestris	4
	Albizia	lucida	3
	Annona	reticulata	3
	Areca	catechu	3
	Bombax	ceiba	3
	Mangifera	indica	3
	Butea	superba	2
	Polyalthia	longifolia	2
	Tamarindus	indica	2
	Diospyros	peregrina	1
	Zizyphus	mauritiana	1
	Shrub	Calotropis	gigantea
Carica		papaya	2
Ricinus		communis	2
Herb	Bambusa	sp	4
	Cynodon	dactylon	3
	Alocasia	indica	2
	Centella	asiatica	2
	Leonurus	sibericus	2
	Musa	sapientum	2
	Portulaca	oleracea	2
	Rumex	dentata	2
	Solanum	nigrum	2



Table A34: Homestead Macro-flora of Bamandanga Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Artocarpus	heterophyllus	4
	Ficus	heterophylla	4
	Mangifera	indica	4
	Zizyphus	mauritiana	4
	Areca	catechu	3
	Azadirachta	indica	3
	Bombax	ceiba	3
	Cocos	nucifera	3
	Dalbergia	sissoo	2
	Ficus	comosa	2
	Moringa	oliefera	2
	Syzygium	sp	2
	Albizia	procera	1
	Apanamixis	polystachya	1
	Averrhoa	carambola	1
	Cassia	fistula	1
	Ficus	benghalensis	1
Shrubs	Ananas	sativus	3
	Carica	papaya	2
	Datura	fastuos	2
	Ricinus	communis	2
Herbs	Centella	asiatica	3
	Ipomoea	aquatica	3
	Polygonum	hydropiper	2
	Buettneria	pilosa	1
	Enhydra	fluctuans	2
	Gynandropsis	gynandra	4
	Clerodendrum	viscosum	4

Table A35: Macro-flora of Fields and Woodland of Bamandanga Beel

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Ricefield	Herbs	Oryza	sp	5
Ricefield margin		Echinochloa	colonom	3
		Ipomoea	aquatica	3
		Polygonum	hydropiper	3
		Argemone	mexicana	2
		Hygrophifa	auriculata	2
Bamboo thicket		Bambusa	sp	5



Table A36: Rice Field and Field Margin Macro-flora of Hali Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Shrubs	Haliotropium		2
	Lantana	camara	2
Herbs	Oryza	sp	5
	Echinochloa	crusgalli	3
	Ludwigia	adscendens	3
	Argemone	mexicana	2
	Centilla	asiatica	2
	Fimbristylis	sp	2
	Gnaphalium	albam	2
	Leonurus	sibericus	2
	Polygonum	hydropiper	2

Table A37: Homestead Macro-fauna of Harudangha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Callosciurus	pygerythrus	4	Fruit, seeds
	Mus	musculus	3	Grain, etc
	Herpestes	auropunctatus	3	Snakes, small animals
Birds	Sturnus	contra	4	Insects
	Copsychus	sularis	4	Insects
	Passer	domesticus	4	Grain, etc
	Dinopium	benghalense	3	Insects
	Centropus	sinensis	3	Insects, fruit
	Acridotheres	tritis	3	Insects
	Corvus	splendens	3	Scavenger
	Streptopelia	decaocta	2	Grain
	Copsychus	malabaricus	2	Insects
	Haliaster	indus	2	Fish
	Oriolus	xanthornus	2	Insect larvae, etc
	Reptiles	Hemidactylus	brooki	4
Calotes		versicolor	3	Insects
Amphibia	Bufo	melanostictus	3	Insects
	Rana	tigrina	2	Insects





Table A38: Homestead Macro-flora of Harudangha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Areca	catechu	4
	Artocarpus	heterophyllus	4
	Bombax	ceiba	4
	Citrus	grandis	4
	Mangifera	indica	4
	Zizyphus	mauritiana	4
	Diospyros	perigrina	2
	Apanamixis	polystichya	1
	Cerbera	odollam	1
	Syzygium	sp	1
Shrubs	Bambusa	sp	5
	Ananas	sativus	4
	Calotropis	gigantea	5
	Ricinus	communis	2
	Acalypha	welkesiana	1
	Datura	fastuosa	1
Herbs	Clerodendrum	viscosum	4
	Amaranthus	spinosus	4
	Centella	asiatica	4
	Cynodon	dactylon	4
	Musa	sapientum	4
	Polygonum	hydropiper	4
	Alocasia	indica	2
	Buettneria	pilosa	1
	Malva	verticillata	1

Table A39: Ricefield Macro-flora of Harudangha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Herbs	Oryza	sp	5
	Centella	asiatica	4
	Cynodon	dactylon	4
	Polygonum	hydropiper	4



Table A40: Homestead Macro-flora at the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Areca	catechu	3
	Bombax	ceiba	3
	Mangifera	indica	3
	Anthocephalus	chinensis	2
	Artocarpus	heterophyllus	2
	Azadirachta	indica	2
	Cassia	fistula	2
	Cocos	nucifera	2
	Dalbergia	sissoo	2
	Spondias	pinnata	2
	Syzygium	sp	2
	Zizyphus	mauritiana	2
	Annona	reticulata	1
Shrub	Ricinus	communis	2
Herbs	Bambusa	sp	5
	Aloe	barbadensis	4
	Amaranthus	viridis	4
	Aponogeton	natans	3
	Argemone	mexicana	3
	Certella	asiatica	3
	Musa	sapientum	3
Polygonum	hydropiper	2	

Table A41: Embankment Macro-flora of the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Shrubs	Musa	paradisiaca	4
	Calotropis	gigantea	3
	Ricinus	communis	3
Herbs	Cassia	Occidentalis	4
	Chrysopogon	aciculatus	4
	Aponogetum	natans	2

Table A42: Wheat Field Macro-flora on Farmland at the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Herbs	Triticum	aestivum	5
	Argemone	mexicana	3
	Cynodon	dactylon	3
	Polygonum	hydropiper	3
	Ipomoea	aquatica	2



Table A43: Charland Macro-flora at the Teesta-Jamuna Confluence

HABITAT GROUP	MAJOR GROUP	GENUS	SPECIES	FREQ
Char bank	Herbs	Gnaphalium	affinae	5
		Ranunculus	sp	5
		Centipeda	orbicularis	4
		Caesulia	axillaris	3
		Cynodon	dactylon	3
		Polygonum	orientalis	3
		Scoparia	dulcis	3
		Eclipta	alba	2
		Fimbristylis	sp	2
		Grangea	maderaspatana	2
Char Wet plain	Herbs	Ludwigia	hyssopifolia	3
		Ranunculus	sp	3
		Centella	asiatica	2
		Digitaria	violascens	2

Table A44: River Channel and Charland Macro-flora of the Jamuna River beside the Manos Regulator

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
River bank	Herbs	Amaranthus	spinosus	3
		Centella	asiatica	3
		Polygonum	orientalis	3
		Centipeda	orbicularis	2
		Eclipta	alba	2
		Leucus	aspera	2
Char wet plain	Herbs	Ranunculus	scleratus	5
		Gnaphalium	indicum	3
		Cotula	hemispherica	2



Table A45: Embankment Macro-flora of the Jamuna River at the Manos Regulator

MAJOR GROUP	GENUS	SPECIES	FREQ
Shrubs	Ricinus	communis	3
	Calotropis	gigantea	2
Herbs	Chrysopogon	aciculatus	4
	Echinochloa	colinum	4
	Musa	sp.	3
	Aponogeton	natans	2

Table A46: Macro-flora of Protected Homestead Area Beside the Jamuna River at the Manos Regulator

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Acacia	nilotica	2
	Moringa	oleifera	2
Shrubs	Ipomoea	fistulosa	4
	Carica	papaya	3
	Datura	fastuosa	2
	Ricinus	communis	2
Herbs	Musa	sapientum	4
	Centilla	asiatica	3
	Polygonum	hydropiper	3
	Argemone	mexicana	2

Table A47: Macro-flora of Unprotected Homestead Area Beside the Jamuna River at the Manos Regulator

MAJOR GROUP	GENUS	SPECIES	FREQ
Shrubs	Ricinus	communis	3
	Heliotropium	indicum	2
Herbs	Musa	sp.	4
	Alocasia	indica	2
	Centilla	asiatica	3
	Polygonum	hydropiper	3
	Amaranthus	spinosus	2
	Amaranthus	viridis	2
	Gynandropsis	gynandra	2





Table A48: Homestead Macro-flora of Kumirdaha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Ficus	heterophylla	3
	Mangifera	indica	3
	Annona	reticulata	2
	Anthocephalus	chinensis	2
	Cocos	nucifera	2
	Moringa	oleifera	2
	Syzygium	sp	2
	Bombax	ceiba	1
	Diospyros	peregrina	1
	Tamarindus	indica	1
Shrubs	Carica	papaya	3
	Justicia	adhatoda	3
	Ricinus	communis	2
	Oscium	sp	1
Herbs	Bambusa	sp	4
	Musa	sp	4
	Alocasia	indica	3
	Cassia	occidentalis	3
	Centella	asiatica	3
	Clerodendruna	viscosum	3
	Colocasia	esculenta	3
	Cynodon	dactylon	3
	Polygonum	hydropiper	3

Table A49: Ricefield Macro-flora of Kumirdaha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ
Shrub	Heliotropium	indicum	1
Herbs	Oryza	sp	5
	Centilla	asiatica	3
	Cynodon	dactylon	3
	Polygonum	hydropiper	3
	Argemone	mexicana	2



Table A50: Charland Macro-flora of the Padma River at Rajshahi

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Dry plain	Herbs	Saccharum	spontaneum	3
		Chenopodium	ambrosioides	2
		Lippia	nodiflora	2
		Lippia	geminata	2
		Solanum	nigrum	2
		Sphaeranthus	sp	2
		Solanum	verbascifolium	1
		Gnaphalium	affine	3
Wet plain	Herbs	Polygonum	plebegium	2
		Oxalis	corniculata	1
		Rumex	maritimus	1
		Lens	esculenta	5
Cultivated	Herbs	Brassica	sp	4
		Momordica	charantea	3
		Amaranthus	spinosus	2
		Cynodon	dactylon	2
		Gomphrena	globosa	2
		Ipomoae	aquatica	2
		Leonurus	sibericus	1

Table A51: Embankment Macro-flora of Padma River at Rajshahi

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Acacia	nilotica	4
	Dalbergia	sissoo	3
Herbs	Solanum	nigrum	2
	Cynodon	dactylon	3
	Amaranthus	spinosus	2
	Heliotropium	indicum	2
	Polycarpon	prostratum	2
	Cassia	sp	2
	Leonurus	sp	2



Table A52: Homestead Macro-flora beside the Teesta River at Painalghat Groyne

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Mangifera	indica	4
	Moringa	oleifera	4
	Areca	catechu	3
	Artocarpus	heterophyllus	3
	Bombax	ceiba	2
	Zizygium	sp	2
	Zizyphus	mauritinana	2
	Apanamixis	polystachya	1
	Butea	superba	1
	Tamarindus	indica	1
Shrubs	Ananas	sativus	3
	Hibiscus	rosasinensis	3
	Datura	fastuosa	2
	Ficus	hispida	2
Herbs	Chrysopogon	aciculatus	4
	Clerodendrum	viscosum	4
	Cleome	viscosa	4
	Musa	sapientum	4
	Amaranthus	spinosus	3
	Centella	asiatica	3
	Polygonum	hydropiper	3
	Colocasia	esculenta	2
	Polycarpon	prostratum	2

Table A53: Wheat Field Macro-flora Beside the Teesta River at Painalghat Groyne

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Open field	Herb	Triticum	aestivum	5
Field margins	Herbs	Echinochloa	colonom	4
		Setaria	barbata	4
		Polygonum	hydropiper	2
		Argemone	mexicana	1



Table A54: Charland Macro-flora of the Teesta River at Painalghat Groyne

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Char bank	Herbs	Eragrostis	gangetica	4
		Fimbristylis	sp	4
		Polygonum	plebegium	4
		Centella	asiatica	3
		Eteusine	indica	3
		Cotula	hemispherica	2
		Digitaria	violascens	2
		Rumex	maritimus	1
Wet plain	Herbs	Ranunculus	scleratus	5
		Gnaphalium	spontaneum	2
		Herpestis	chamaedroides	2
		Spilanthes	acmella	2
Dry plain	Herbs	Rununculus	scleratus	5
		Amania	sp	3
		Centipida	orbicularis	3
		Lindocnia	sp	3
		Ludwigia	hyssopifolia	2
		Polycarpon	sp	2

Table A55: Embankment Macro-fauna of Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	bengalensis	3	Grain
	Bandicota	indica	3	Grain
	Herpestes	auropunctatus	3	Snakes, small animals
Birds	Acridotheris	tristis	4	Insects
	Passer	domesticus	4	Grain etc
	Bubuleus	ibis	3	Fish, frogs
	Lonchura	malabarica	3	Grain
	Ploceus	philippinus	3	Grain
	Bubo	Zeylonensis	2	Small animals
	Centropus	sinensis	2	Insects, fruit
	Clamator	jacobinus	2	Insects
	Halcyon	smyrnensis	2	Fish
	Nectarina	zeylonica	2	Nectar
Reptiles	Calotes	versicolor	4	Insects
	Naja	naja	2	Small animals
	Vipera	russelli	2	Small animals
Amphibia	Bufo	malabarostictus	2	Insects





Table A56: Littoral Mud Macro-fauna of Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Lutra	lutra	2	Fish
Birds	Bubuleus	ibis	3	Fish, frogs
	Egretta	intermedia	3	Fish, frogs
	Nettapus	coromandelianus	3	Omnivore
	Phalacrocorax	niger	3	Fish
	Sterna	aurantia	2	Fish
	Tadorna	ferruginia	2	Omnivore
Reptiles	Atretium	schistosum	3	Fish
	Xenochrophis	piscator	3	Fish, frogs
Amphibia	Rana	sp	3	Insects

Table A57: Homestead Macro-fauna of Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Mus	musculus	4	Grain etc
	Pteropus	giganteus	4	Fruit
	Callosciurus	pygerythrus	3	Fruit, seeds
	Bandicota	bengalensis	2	Grain
Birds	Acridotheris	tristis	4	Insects
	Columba	livia	4	Grain
	Passer	domesticus	4	Grain etc
	Sturnus	contra	4	Insects
	Alcedo	atthis	3	Fish
	Ardeola	alba	3	Fish, frogs
	Copsychus	saularis	3	Insects
	Copsychus	malabaricus	3	Insects
	Corvus	splendens	3	Scavenger
	Dicrurus	adsimilis	3	Insects
	Milvus	migrans	3	Scavenger
	Streptopelia	decaocta	3	Grain
	Gyps	bengalensis	2	Scavenger
	Psittacula	krameri	2	Fruit, grain etc
Accipiter	badius	1	Fish, small animals	
Reptiles	Caleotes	versicolor	3	Insects
	Hemidactylus	brooki	3	Insects
	Mabuya	carinata	3	Insects
	Ptyas	mucosus	3	Small animals
	Xenochrophis	piscator	3	Fish, frogs
	Naja	naja	1	Small animals
	Bufo	melanostictus	3	Insects



Table A58: Ricefield Macro-fauna of Andasuria Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	indica	3	Grain
Reptiles	Bungaras	cearuleus	3	Small animals
	Ptyas	mucosus	3	Small animals
	Xenochrophis	piscator	3	Fish, frogs

Table A59: Homestead Macro-fauna of the Atrai River Area Near the Atrai-Barnai Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Callosciurus	pygerythrus	3	Fruit, seeds, grain
	Mus	musculus	3	Grain etc
	Pteropus	giganteus	3	Fruit
	Herpestes	auropunctatus	2	Snakes, small animals
Birds	Acridotheres	tristis	3	Insects
	Copsychus	sularis	3	Insects
	Corvus	splendens	3	Scavenger
	Passer	domesticus	3	Grain etc
	Streptopelia	decaocta	3	Grain
	Bubo	sp	2	Small animals
	Eudynamys	scolopacsea	2	Omnivore
	Ploceus	philippinus	2	Grain
	Psittacula	krameri	2	Fruit, grain
	Reptiles	Hemidactylus	brookii	3
Calotes		versicolor	2	Insects
Varanus		bengalensis	1	Small animals
Amphibia	Bufo	melanostictus	3	Insects

Table A60: River Channel Macro-fauna of the Atrai River at the Atrai-Barnai Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD	
Mammals	Herpestes	auropunctatus	3	Snakes, rodents	
	Lutra	lutra	1	Fish	
Birds	Bubuleus	ibis	3	Fish, frogs	
	Phalacrocrax	niger	3	Fish	
	Alcido	atthis	2	Fish	
	Egretta	intermedia	2	Fish, frogs	
	Haliaster	indus	2	Fish	
	Sterna	aurantia	2	Fish	
	Reptiles	Varanus	bengalensis	4	Small animals
		Enhydris	enhydris	3	Fish, frogs
Xenochrophis		piscator	3	Fish, frogs	
Cyclemys		dentata	2	Plants	
Naja		naja	2	Small animals	
	Vipera	russelli	2	Small animals	
Amphibia	Rana	sp	3	Insects	



Table A61: Homestead Macro-fauna of the Atrai-Nandokuja Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD	
Mammals	Callosciurus	pygerythrus	3	Fruit, seeds, etc	
	Bandicota	bengalensis	2	Grain	
	Mus	musculus	2	Grain etc	
	Pteropus	giganteus	2	Fruit	
	Herpestes	auropunctatus	1	Snakes, small animals	
Birds	Acridotheres	tristis	3	Insects	
	Athene	brama	3	Small animals	
	Centropus	sinensis	3	Omnivore	
	Copsychus	saularis	3	Insects	
	Corvus	splendens	3	Scavenger	
	Dicrurus	adsimilis	3	Insects	
	Eudynamus	scolopecta	3	Fruit, insects	
	Pycnonotus	cafer	3	Insects, fruit	
	Streptopelia	decaocta	3	Grain	
	Sturnus	contra	3	Insects	
	Bubo	zeylonensis	2	Small animals	
	Dinopium	benghalense	2	Insects, worms	
	Halcyon	smyrnensis	2	Fish	
	Haliastur	indus	2	Scavenger	
	Megalima	haemacephala	2	Fruit	
	Psittacula	krameri	2	Fruit, grain	
	Corvus	macrorhynchus	1	Scavenger	
	Gyps	bengalensis	1	Scavenger	
	Reptiles	Calotes	versicolor	3	Insects
		Enhydryis	enhydryis	3	Small animals, frogs
Ptyas		mucosus	2	Small animals	
Bungarus		caeruleus	1	Small animals, gekkos	
Naja		naja	1	Small animals	
Amphibia	Bufo	melanosticta	2	Insects	

Table A62: Pond Bank Macro-fauna of the Atrai-Nandokuja Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	bengalensis	3	Grain
	Callosciurus	pygerythrus	3	Fruit, seeds
	Herpestes	auropunctatus	2	Snakes, small animals
Birds	Alcido	atthis	3	Fish
	Ardeola	alba	3	Frogs, insects
	Bubuleus	ibis	3	Fish, frogs
	Dicrurus	adsimilis	3	Insects
	Halcyon	smyrnensis	3	Fish
	Sturnus	contra	3	Insects
	Streptopelia	decaocta	3	Grain
	Acridotheres	tristis	2	Insects
	Amaurornis	phoenicurus	2	Insects, etc
	Athene	brama	2	Small animals
	Egretta	intermedia	2	Fish, frogs
	Gallinago	henura	2	Insects, etc
	Merops	orientalis	2	Insects
	Oriolus	xanthornus	2	Insect larvae, etc
	Reptiles	Calotes	versicolor	3
Enhydryis		enhydryis	3	Fish, small animals
Varanus		sp.	2	Small animals
Xenochrophis		niscator	2	Small animals
Amphibia	Rana	sp.	2	Insects



Table A63: Homestead Macro-fauna of Bamadanga Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Mus	booduga	4	Grain etc
	Herpestes	auropunctatus	3	Snakes and rodents
Birds	Acridotheres	tristis	4	Insects
	Sturnus	contra	4	Insects
	Copsychus	sularis	3	Insects
	Lonchura	malabarica	3	Grain
	Passer	domesticus	3	Grain
	Ploceus	philippinus	3	Grain
	Centropus	sinensis	2	Fruit
	Dicrurus	adsimilis	2	Insects
	Orthotomus	satorius	2	Insects
	Psittacula	krameri	2	Fruit
	Haliastur	indus	1	Scavenger
	Megalalana	hemacephala	1	Insects
	Reptiles	Calotes	versicolor	3
Naja		naja	2	Small animals
Varanus		sp	2	Small animals
Vipera		russetii	2	Small animals
Amphibia	Bufo	melanostictus	3	Insects

Table A64: Open Water Macro-fauna of Bamandanga Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Lutra	lutra	2	Fish
Birds	Phalacrocorax	niger	4	Fish
	Ardeola	grayii	3	Fish, frogs
	Bubulcus	ibis	3	Fish, frogs
	Gallinago	henura	2	Invertebrates

Table A65: Macro-fauna of Fields and Thickets of Bamandanga Beel

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Rice field	Bird	Dicrurus	adsimilis	3	Insects
Rice field margin	Mammal	Bandicota	indica	4	Omnivore
	Reptile	Varanus	sp	2	Small animals
Woodland (Bamboo)	Birds	Egretta	intermedia	4	Fish, frogs
		Alcedo	athis	2	Fish
		Sturnus	contra	2	Insects





Table A66: Rice Field Margin Macro-fauna of Haldi Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	<i>Bandicota</i>	<i>indica</i>	3	Grain etc
	<i>Herpestes</i>	<i>auropunctatus</i>	3	Snakes, rodents
	<i>Vulpes</i>	<i>bengalensis</i>	3	Scavenger
Reptiles	<i>Bungarus</i>	<i>caeruleus</i>	3	Small animals
	<i>Naja</i>	<i>naga</i>	3	Small animals
	<i>Ptyas</i>	<i>mucosus</i>	3	Small animals
	<i>Varanus</i>	<i>bengalensis</i>	3	Small animals
	<i>Xenochrophis</i>	<i>piscator</i>	3	Fish, frogs

Table A67: Open Water Macro-fauna of Haldi Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	<i>Lutra</i>	<i>lutra</i>	3	Fish
Birds	<i>Dendrocygna</i>	<i>javanica</i>	4	Omnivore
	<i>Ardeolla</i>	<i>alba</i>	3	Fish, frogs
	<i>Bubuleus</i>	<i>ibis</i>	3	Fish, frogs
	<i>Egretta</i>	<i>intermedia</i>	3	Fish, frogs
	<i>Gallinago</i>	<i>henura</i>	3	Insects, fish, frogs
	<i>Haliaster</i>	<i>indus</i>	3	Fish, frogs
	<i>Nettapus</i>	<i>coramandelianus</i>	3	Plants, animals
	<i>Phalacrocorax</i>	<i>niger</i>	3	Fish
	<i>Accipiter</i>	<i>sp</i>	2	Scavenger
	<i>Milvus</i>	<i>migrans</i>	2	Scavenger
	<i>Sterna</i>	<i>aurantia</i>	2	Fish
	<i>Ciconia</i>	<i>episcopopus</i>	1	Small animals
	<i>Leptoptilos</i>	<i>dubius</i>	1	Invertebrates, fish
	<i>Tadorna</i>	<i>ferruginea</i>	1	Fish, frogs
Reptiles	<i>Atretium</i>	<i>schistosum</i>	3	Fish
	<i>Enhydriis</i>	<i>enhydriis</i>	3	Fish, frogs
	<i>Xenochrophis</i>	<i>piscator</i>	3	Fish, frogs
Amphibia	<i>Rana</i>	<i>sp</i>	3	Insects



Table A68: Ricefield Macro-fauna of Harudangha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Birds	Dicrurus	adsimilis	4	
	Bubuleus	ibis	3	
	Sturnus	contra	2	
Reptile	Varanus	bengalensis	3	Small animals

Table A69: Open Water Macro-fauna of Harudangha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammal	Lutra	lutra	2	Fish
Birds	Amaurornis	phoenicurus	4	
	Bubuleus	ibis	4	
	Egretta	intermedia	4	
	Phalacrocorax	niger	3	Fish
	Alcido	atthis	3	
	Nattapus	coromandelianus	3	Omnivore
Reptiles	Enhydris	enhydris	4	Fish, frogs
	Cyclemys	dentata	3	
Amphibia	Rana	sp	4	Insects

Table A70: Homestead Macro-fauna at the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Callosciurus	pygrythrus	4	Seeds, fruits
	Herpestes	auropunctatus	3	Snakes, rodents
	Mus	musculus	3	Grain etc
Birds	Corvus	splendens	4	Scavenger
	Dicrurus	adsimilis	4	Insects
	Passer	domesticus	4	Grain etc
	Ploceus	philippinus	4	Grain
	Acridotheres	tristis	3	Insects
	Copsychus	sularis	3	Insects
	Egretta	intermedia	3	Fish, frogs
	Sturnus	contra	3	Insects
	Ichthyophaga	ichthyætus	2	Fish
	Orthotomus	sutorius	2	Insects
	Psittacula	krameri	2	Fruit
	Pycnonotus	cafer	2	Insects
Reptile	Hemidactylus	brooki	4	Insects
Amphibia	Bufo	melanostictus	4	Insects



Table A71: Embankment Macro-fauna of the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	<i>Bandicota</i>	<i>bengalensis</i>	4	Grain etc
	<i>Herpestes</i>	<i>auropunctatus</i>	4	Snakes and rodents
	<i>Vulpis</i>	<i>bengalensis</i>	2	Scavenger
Birds	<i>Upupa</i>	<i>epops</i>	4	Insects on ground
	<i>Orthotomus</i>	<i>sutorius</i>	3	Insects
	<i>Passer</i>	<i>domesticus</i>	3	Grain etc
	<i>Pycnonotus</i>	<i>cafer</i>	3	Insects
	<i>Centropus</i>	<i>sinensis</i>	2	Fruit
Reptiles	<i>Calotes</i>	<i>versicolor</i>	4	Insects
	<i>Varanus</i>	<i>bengalensis</i>	3	Small animals
	<i>Naja</i>	<i>naja</i>	2	Small animals
	<i>Vipera</i>	<i>russelli</i>	2	Small animals

Table A72: Wheat Field Macro-fauna of Farms at the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	<i>Bandicota</i>	<i>bengalensis</i>	4	Grain etc
	<i>Herpestes</i>	<i>auropunctatus</i>	3	Snakes, rodents
Birds	<i>Dicrurus</i>	<i>adsimilis</i>	3	Insects
	<i>Sturnus</i>	<i>contra</i>	2	Insects
	<i>Upupa</i>	<i>epops</i>	2	Insects on ground
Reptile	<i>Varanus</i>	<i>bengalensis</i>	3	Small animals

Table A73: Charland Macro-fauna of the Teesta-Jamuna Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	<i>Lutra</i>	<i>Lutra</i>	2	Fish
	<i>Platanista</i>	<i>gangetica</i>	1	Fish
Birds	<i>Anostomus</i>	<i>oscitans</i>	3	Fish, molluscs, frogs
	<i>Ardeola</i>	<i>alba</i>	3	Fish, frogs
	<i>Motacilla</i>	<i>sp.</i>	3	Small invertebrates
	<i>Nettapus</i>	<i>coromandelianus</i>	3	Small invertebrates
	<i>Gallinago</i>	<i>henura</i>	2	Small invertebrates
	<i>Halcyon</i>	<i>smyrnensis</i>	2	Fish
	<i>Sternas</i>	<i>aurantia</i>	2	Fish



Table A74: Macro-fauna of Unprotected Homestead Beside the Jamuna River at the Manos Regulator

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Callosciurus	pygerythrus	3	Seeds, fruit, etc
	Mus	musculus	3	Grain, etc
	Herpestes	auropunctatus	2	Snakes, rodents
	Mus	booduga	2	Grain etc
Birds	Acridotheres	fuscus	4	Insects
	Acridotheres	tristis	3	Insects
	Columba	livia	3	Grain
	Corvus	splendens	3	Scavenger
	Passer	domesticus	3	Grain etc
	Sturnus	contra	3	Insects
	Dicrurus	adsimilis	2	Insects
Reptiles	Calotes	versicolor	3	Insects
	Ptyas	mucosus	3	Small animals
	Xenochrophis	piscator	3	Frogs, fish etc
	Naja	naja	1	Small animals
	Varanus	flaviscens	1	Small animals
	Vipera	russelli	1	Small animals
Amphibia	Bufo	melanostictus	3	Insects

Table A75: Macro-fauna of a Protected Homestead Beside the Jamuna River at the Manos Regulator

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Callosciurus	pygerythrus	4	Fruit, seeds
	Herpestes	auropunctatus	3	Snakes, rodents
Birds	Acridotheris	tristis	3	Insects
	Centropus	sinensis	3	Fruit
	Corvus	splendens	3	Scavenger
	Passer	domesticus	3	Grain etc
	Sturnus	contra	3	Insects
	Orthotomus	sutoria	2	Insects
Reptiles	Mabuya	carinata	4	Insects
	Callotes	sp	3	Insects
	Ptyas	mucosus	3	Small animals
	Xenochrophis	piscator	3	Frogs, fish
	Varanus	bengalensis	2	Small animals
Amphibia	Bufo	melanostictus	3	Insects
	Rana	sp	3	Insects





Table A76: Embankment Macro-fauna at the Manos Regulator, Jamuna River

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	bengalensis	3	Grain etc
	Bandicota	indica	3	Grain etc
	Callosclurus	pygerythrus	2	Fruit, seeds, etc
	Herpestes	auropunctatus	2	Snakes, rodents
	Vulpes	bengalensis	1	Scavenger
Birds	Acridotheres	fuscus	3	Insects
	Passer	domesticus	3	Grains etc
	Oriolus	xanthornus	2	Fruit, nectar, insect larvae
	Orthotomus	sutorius	2	Nectar, insect grubs, worms
	Ploceus	philippinus	2	Grain
	Streptopelia	decaocta	2	Grain
	Upupa	epops	2	Insect on ground
Reptiles	Ptyas	mucosus	3	Small animals
	Calotes	versicolor	2	Insects
	Varanus	sp	2	Small animals
	Naja	naja	1	Small animals
	Vipera	russelli	1	Small animals

Table A77: Charland Macro-fauna of the Jamuna River at the Manos Regulator

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Birds	Egretta	intermedia	3	Fish, frogs
	Leptoptilos	dubius	3	Snakes, frogs
	Sterna	aurantia	3	Fish
	Alcedo	atthis	2	Fish
	Gallinago	henura	2	Insect larvae
	Halcyon	smyrnensis	2	Fish
	Haliaster	indus	2	Scavenger
	Ichthyophaga	ichthyaetus	2	Fish



Table A78: Homestead Macro-fauna Beside the Jamuna River near its Confluence with the Barnai River

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Callosciurus	pygerythrus	3	Fruit, seeds
	Mus	musculus	3	Grain etc
	Bandicota	bengalensis	2	Grain
Birds	Passer	domesticus	4	Grain etc
	Acridotheres	tristis	3	Insects
	Copsychus	sauularis	3	Insects
	Corvus	splendens	3	Scavenger
	Cypsiurus	parvus	3	Insects
	Halcyon	smyrnensis	3	Fish
	Ploceus	philippinus	3	Grain
	Streptopelia	decaocta	3	Grain
	Sturnus	contra	3	Insects
	Alcedo	atthis	2	Fish
	Corvus	macrorhychos	2	Scavenger
	Dendrocitta	vagabunda	2	Insects, eggs
	Dinopium	benghalense	2	Insects
	Haliaster	indus	2	Scavenger
	Milvus	migrans	2	Scavenger
Pycnonotus	cafer	2	Fruit, insects	
Reptiles	Calotes	versicolor	3	Insects
	Enhydriis	enhydriis	3	Fish, small animals
	Ptyas	mucosus	2	Small animals
	Varanus	bengalensis	1	Small animals
Amphibia	Bufo		3	Insects

Table A79: River Channel Macro-fauna of the Jamuna River Below its Confluence with the Barnai River

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	indica	3	Grain
	Platanista	gangetica	3	Fish
Birds	Ardeola	alba	3	Fish, frogs
	Charadrius	dubius	3	Insects, worms
	Egretta	intermedia	3	Fish, frogs
	Halcyon	smyrnensis	3	Fish
	Nettapus	cormandelianus	3	Omnivore
	Sterna	aurantia	3	Fish
	Tadorna	ferruginea	3	Omnivore
	Ciconia	episcopus	2	Fish, small animals
	Vanellus	indicus	2	Insects, worms
Reptiles	Trionyx	sp	3	Omnivore
	Chitra	indica	2	Omnivore
	Pelochelys	bibroni	2	Omnivore
Amphibia	Rana	sp	3	Insects



Table A80: Charland Macro-fauna of the Jamuna River below the Jamuna-Barnai Confluence

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ
Char soft plain	Herbs	Oryza	sp	5
		Fimbristylis	sp	3
		Cynodon	dactylon	2
		Polycarpon	loeflingia	2
Char dry plain	Herbs	Eragrotis	sp	3
		Grangea	maderaspatana	2
		Cyperus	sp	1

Table A81: Homestead Area Macro-flora Beside the Jamuna River below the Jamuna-Barnai Confluence

MAJOR GROUP	GENUS	SPECIES	FREQ
Trees	Albizia	lucida	3
	Anonna	reticulata	3
	Areca	catechu	3
	Bombax	ceiba	3
	Zizyphus	mauritiana	3
	Azadirachta	indica	2
	Cocos	nucifera	2
	Mangifera	indica	2
	Moringa	oleifera	2
	Syzygium	sp	2
	Tamarindus	indica	2
	Diospyros	peregrina	1
Shrubs	Calotropis	gigantea	3
	Abroma	augusta	2
	Datura	fastuosa	2
	Heliotropium	indicum	2
	Ipomoea	fistulosa	2
	Ricinus	communis	2
Herbs	Bambusa	sp	4
	Centella	asiatica	3
	Cynodon	dactylon	3
	Polygonum	hydropiper	3
	Amaranthus	spinosus	2
	Portulaca	oleracea	2



Table A82: Homestead Macro-fauna of Kumirdaha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Herpestes	auropunctatus	3	Snakes, small mammals
	Vulpes	bengalensis	3	Scavenger
	Lutra	lutra	1	Fish
Birds	Acridotheres	tristis	4	Insects
	Passer	domesticus	4	Grain, etc
	Sturnus	contra	4	Insects
	Alcedo	atthis	3	Fish
	Ardeola	alba	3	Fish, frogs
	Bubuleus	ibis	3	Fish, frogs
	Copsychus	sauvaris	3	Insects
	Dicrurus	adsimilis	3	Insects
	Egretta	intermedia	3	Fish, frogs
	Phalacrocorax	niger	3	Fish
	Ploceus	philippinus	3	Grain
	Copsychus	malabaricus	2	Insects
	Corvus	splendens	2	Scavenger
	Eudynamys	scolopacea	2	Omnivore
	Accipiter	badius	1	Birds, small mammals
	Gyps	bengalensis	1	Scavenger
Reptiles	Ptyas	mucosus	3	Small animals
	Varanus	bengalensis	3	Small animals
	Xenochrophis	piscator	3	Small animals, fish
Amphibia	Bufo	melanosticta	3	Insects
	Rana	sp	2	Insects

Table A83: Riceland Macro-fauna of Kumirdaha Beel

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Birds	Dicrurus	adsimilis	3	Insects
	Acridotheres	tristis	2	Insects
	Sturnus	contra	2	Insects
Reptile	Varanus	bengalensis	2	Small animals





Table A84: Embankment Macro-fauna of the Padma River at Rajshahi

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	indica	3	Grain
	Bandicota	bengalensis	3	Grain
	Callosciurus	pygerythrus	3	Fruit, seeds
	Herpestes	auropunctatus	2	Snakes, small animals
	Pteropus	glganteus	2	Fruit
Birds	Acridotheres	tristis	4	Insects
	Passer	domesticus	4	Grain etc
	Alcido	atthis	3	Fish
	Copsychus	saularis	3	Insects
	Corvus	splendens	3	Scavenger
	Ploceus	philippinus	3	Grain
	Psittacula	krameri	3	Fruit, grain
	Sturnus	contra	3	Insects
	Streptopelia	decaocta	3	Grain
	Acridotheres	ginginianus	2	Insects
	Athene	brama	2	Small animals
	Corvus	macrorhynchos	2	Scavenger
	Dicrurus	adsmilis	2	Insects
	Dinopium	bengalense	2	Insect larvae, worms
	Eudynamys	scolopacea	2	Fruit
	Gyps	bengalensis	2	scavenger
	Milvus	migrans	2	Scavenger
	Oriolus	xanthornus	2	Insects
	Orthotomus	sutorius	2	Insects
	Pycnonotus	cafer	2	Insects, fruit
	Streptopelia	sinensis	2	Grain
	Accipiter	badius	1	Fish, small animals
	Reptiles	Calotes	versicolor	3
Enhydris		enhydris	2	Small animals
Ptyas		mucosus	2	Small animals
Naja		naja	1	Small animals
Vipera		russelli	1	Small animals



Table A85: River Channel macro-fauna of the Padma River at Rajshahi

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Bandicota	indica	3	Grain
	Herpestes	auropunctatus	3	Snakes, small animals
	Platanista	gangetica	3	Fish
	Lutra	lutra	2	Fish
Birds	Amauornis	phoenicurus	3	Small animals, insects
	Anastomus	oscitans	3	Small animals
	Ardeola	alba	3	Fish, frogs
	Bubuleus	ibis	3	Fish, frogs
	Columba	livia	3	Grain etc
	Egretta	intermedia	3	Fish, frogs
	Gallinego	henura	3	Omnivore
	Nettapus	coromandelianus	3	Omnivore
	Passer	domesticus	3	Grain etc
	Ploceus	philippinus	3	Grain
	Streptopelia	chinensis	3	Grain
	Sterna	aurantia	3	Fish
	Tringa	hypoleucos	3	Insects
	Halcyon	smyrnensis	2	Fish
	Orthotomus	sutorius	2	Insects
	Tadorna	ferruginea	2	Omnivore
	Turdoides	striatus	2	Insect larvae, etc
	Ceryle	rudis	1	Fish
	Reptiles	Enhydris	enhydris	3
Trionyx		sp	3	Omnivore
Xenochrophis		piscator	3	Fish
Bungarus		sp	2	Small animals
Chitra		indica	2	Omnivore
Ptyas		mucosus	2	Small animals
Typhlops		porrectus	2	Worms
Naja		naja	1	Small animals
Pelochelys		bibroni	1	Omnivore
Varanus		sp	1	Small animals
Amphibia	Rana	sp	3	Insects



Table A86: Homestead Macro-fauna Beside the Teesta River at Painalghat Groyne

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Mammals	Mus	musculus	5	Grain etc
	Callosciurus	pygerythrus	4	Fruit and seeds
	Herpestis	auropunctatus	4	Snakes and rodents
Birds	Sturnus	contra	5	Fish
	Copsychus	saularis	4	Insects
	Corvus	splendens	4	Scavenger
	Passer	domesticus	4	General foods
	Acridotheres	tristis	3	Insects
	Columba	livia	3	Grain feeder
	Dicrurus	adsimilis	3	Insect pest eater
	Alcedo	atthis	2	Fish eater
	Streptopelia	decaocta	2	Grain eater
	Dinopium	benghalensie	1	Insects
	Nectarinia	zeylonica	1	Nectar
Reptiles	Hemidactylus	brooki	4	Insects in houses
	Mabuya	carinata	4	Insects
	Calotes	versicolor	3	Insects
	Varanus	sp	2	Rodents, birds
Amphibia	Bufo	melanosticta	4	Insects etc

Table A87: Charland Macro-fauna on the Teesta River Near Painalghat Groyne

MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Birds	Motacilla	alba	4	Insects
	Sterna	aurantia	3	Fish

Table A88: Wheat Field Macro-fauna Beside the Teesta River at Painalghat Groyne

HABITAT	MAJOR GROUP	GENUS	SPECIES	FREQ	FOOD
Field margin	Mammal	Herpestes	auropunctatus	3	Snakes, small animals
	Birds	Dicrurus	adsimilis	2	Insects
		Upupa	epops	2	Insects
	Reptile	Varanus	sp	2	Small animals
Open field	Mammal	Bandicota	indica	4	Grain, insects
	Bird	Dicrurus	adsimilis	4	Insects

