

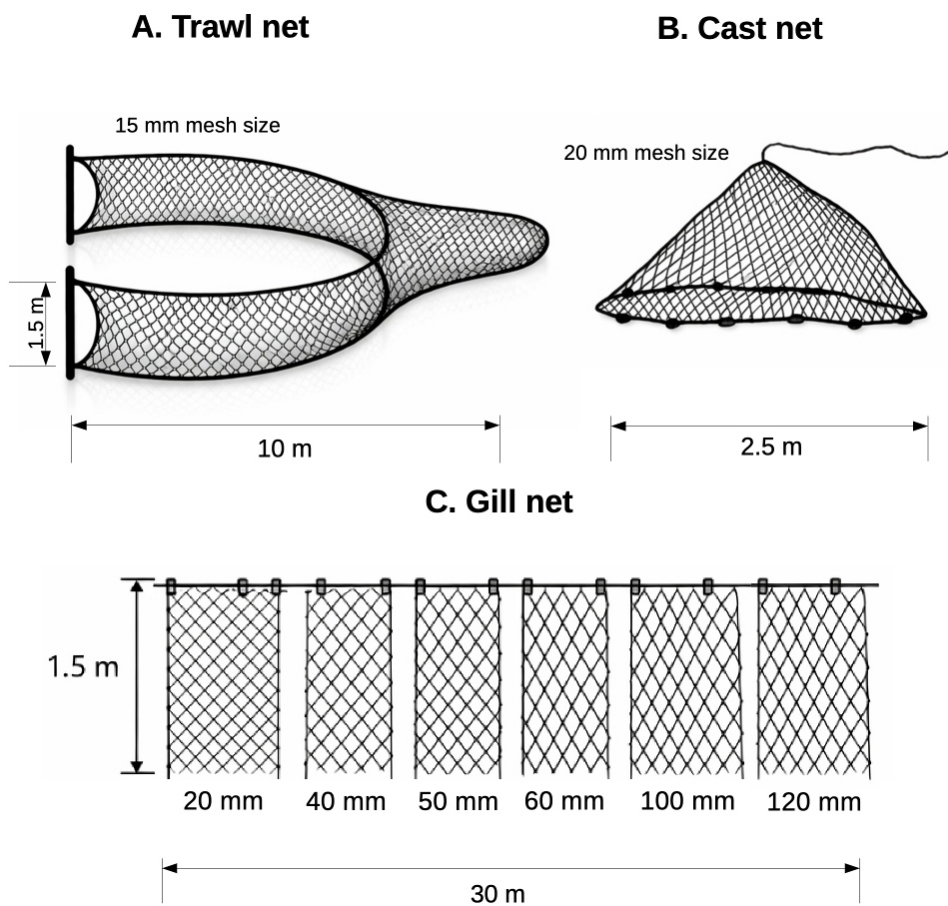


FIGURE S1 | Schematic of the sampling gears used in this study. **A.** Manual trawl net: semi-circular funnel net (10 m × 1.5 m) with a 15 mm diamond mesh; **B.** Cast net: top view of a fully spread circular net (2.5 m diameter) with 20 mm diamond mesh between radial lines and evenly spaced perimeter weights; **C.** Gill net: six vertical panels with increasing mesh sizes (20–120 mm) along a 30 m × 1.5 m net, showing proportionally scaled diamond mesh and consistent float and lead lines.

TABLE S2 | Analyses of deviance (ANOVA) for richness, total numbers of individuals (individual counts), and total fresh weight in relation to season, method, and their interaction. Df: degrees of freedom for each term; Deviance: change in deviance explained by each factor; Resid. Df: residual degrees of freedom; Resid. Dev: residual deviance after each term is fitted; Pr(>Chi): p-value based on the Chi-square test, indicating statistical significance. Significant results are indicated ($p < 0.05$) in bold. + $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. UFPB, Universidade Federal da Paraíba.

Predictors	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
Richness					
NULL			74	55	
Season	1	0.011	73	55	0.918
Method	2	9.44	71	45	0.009**
Season × Method	2	0.934	69	44	0.627

TABLE S2 | (Continued)

Predictors	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
Numbers					
NULL			74	2544	
Season	1	36.56	73	2507	0.269
Method	2	677.86	71	1829	<0.001***
Season × Method	2	20.14	69	1809	0.714
Weight					
NULL			74	119	
Season	1	0.07	73	118	0.832
Method	2	9.746	71	109	0.044*
Season × Method	2	0.797	69	108	0.775

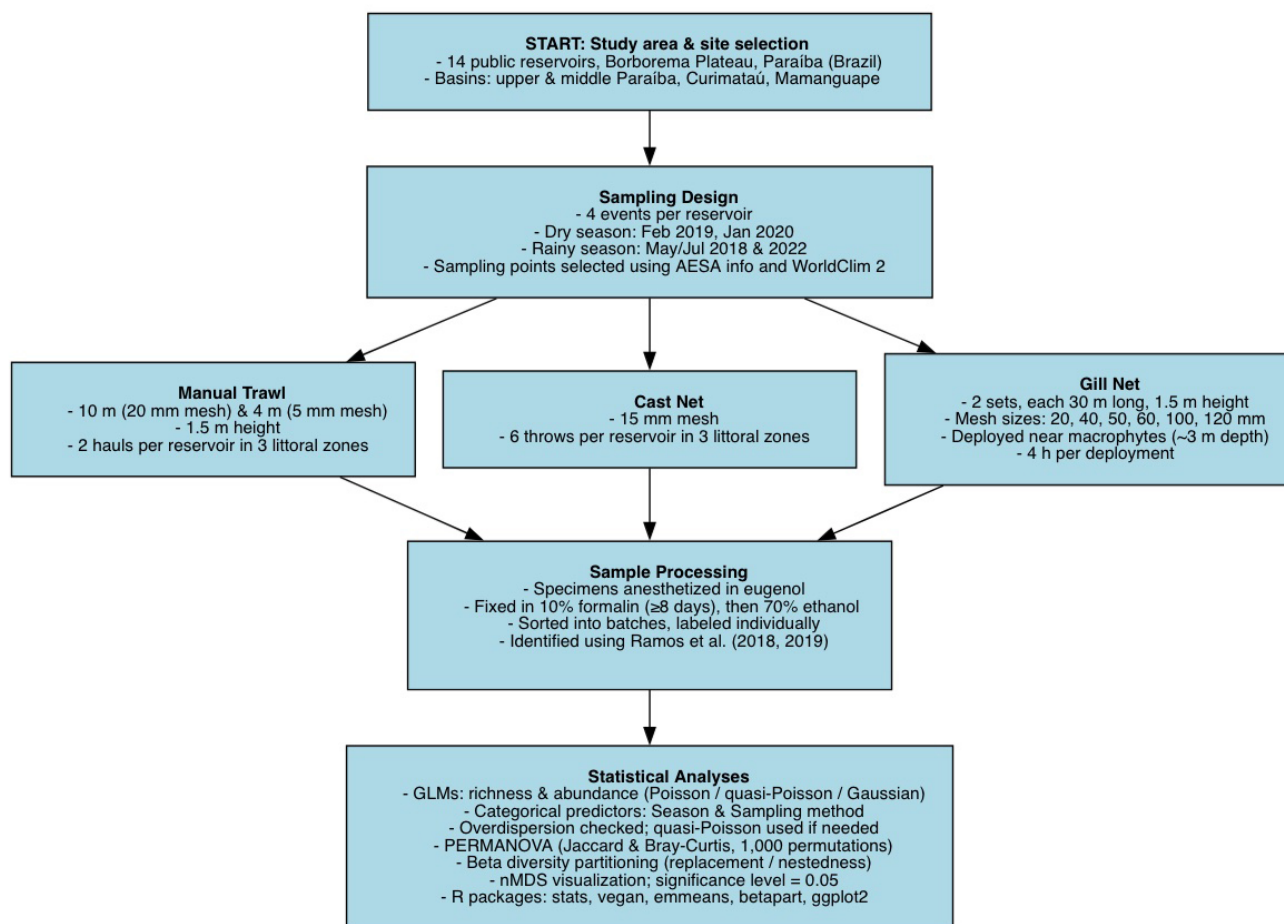


FIGURE S3 | Flowchart summarizing the sampling and analytical workflow.

TABLE S4 | List of species captured in 14 reservoirs on the Borborema Plateau, Paraíba, Brazil, using three capture methods: manual trawl net, gill net, and cast net.

Taxa	Cast nets	Gill nets	Manual trawl nets	Grand total	Voucher (UFPB)
CHARACIFORMES					
Acestrorhamphidae					
<i>Astyanax</i> aff. <i>bimaculatus</i>	47	160	288	495	14466
<i>Hemigrammus marginatus</i>	1	0	1	2	14379
<i>Moenkhausia costae</i>	9	48	20	77	12069
<i>Psalidodon fasciatus</i>	0	14	6	20	13925
Anostomidae					
<i>Leporinus piau</i>	0	13	12	25	10474
Characidae					
<i>Serrapinnus heterodon</i>	0	0	3	3	14632
Curimatidae					
<i>Psectograster</i> sp.	0	1	0	1	10243
<i>Steindachnerina notonota</i>	4	90	33	127	10143
<i>Steindachnerina</i> sp.	3	13	65	81	10149
Erythrinidae					
<i>Hoplias malabaricus</i>	5	39	18	62	14365
Prochilodontidae					
<i>Prochilodus brevis</i>	1	25	11	37	10238
Curimatidae					
<i>Psectograster</i> sp.	0	1	0	1	10243
<i>Steindachnerina notonota</i>	4	90	33	127	10143
<i>Steindachnerina</i> sp.	3	13	65	81	10149
CICHLIFORMES					
Cichlidae					
<i>Cichla monoculus</i>	10	0	5	15	10276
<i>Cichla ocellaris</i>	0	1	2	3	7096
<i>Cichla temensis</i>	2	0	0	2	14135
<i>Cichlasoma orientale</i>	10	11	10	31	14399
<i>Geophagus brasiliensis</i>	134	11	406	551	13713
<i>Oreochromis niloticus</i>	122	86	339	547	13828
<i>Parachromis managuensis</i>	2	0	23	25	14570
<i>Saxatilia brasiliensis</i>	9	11	10	30	14984
SILURIFORMES					
Loricariidae					
<i>Hypostomus puarum</i>	10	43	38	91	14910
ACANTHURIFORMES					
Sciaenidae					
<i>Plagioscion squamosissimus</i>	0	0	1	1	9983
CYPRINODONTIFORMES					
Poeciliidae					
<i>Poecilia reticulata</i>	0	0	21	21	14637
<i>Poecilia vivipara</i>	2	0	19	21	14426
Total	371	566	1331	2268	

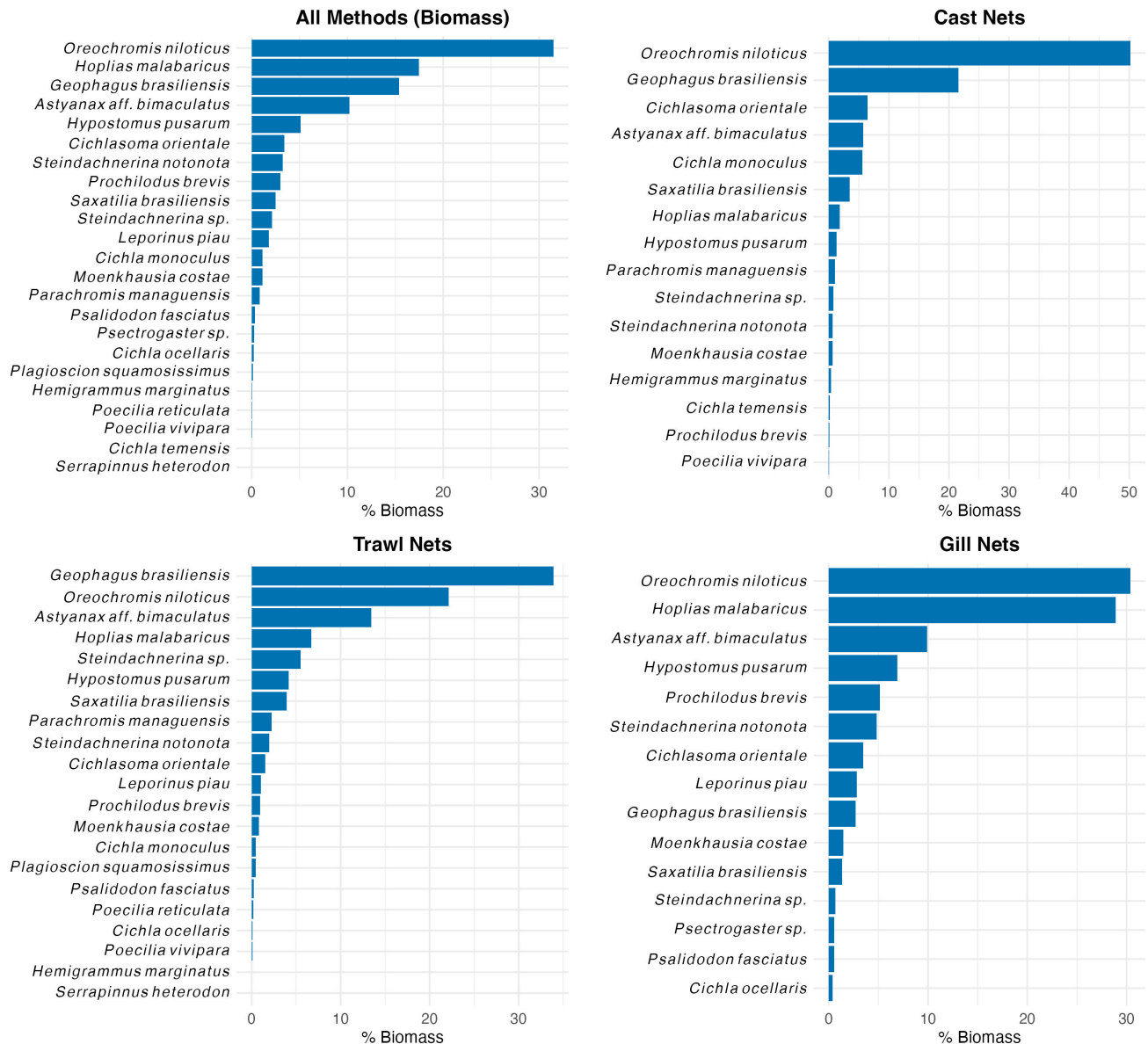


FIGURE S5 | Relative frequency based on the weight of individuals collected using the combined methods (all methods) and separately by cast nets, gill nets and trawl nets in the fourteen sampled reservoirs in the Borborema Plateau.

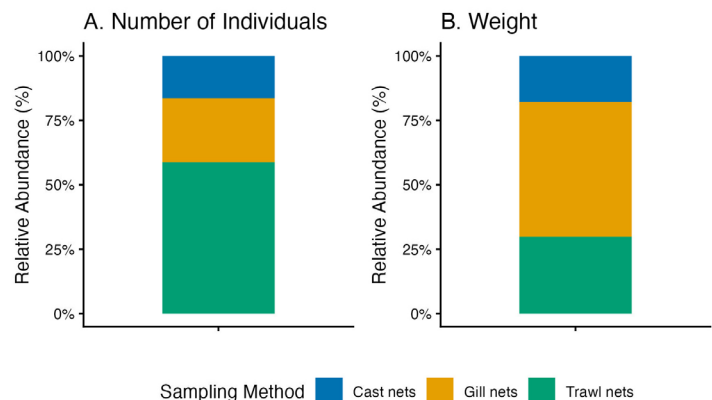


FIGURE S6 | Relative abundance of total fish by method type weighted by total number of individuals (A) and total fresh weight (B).

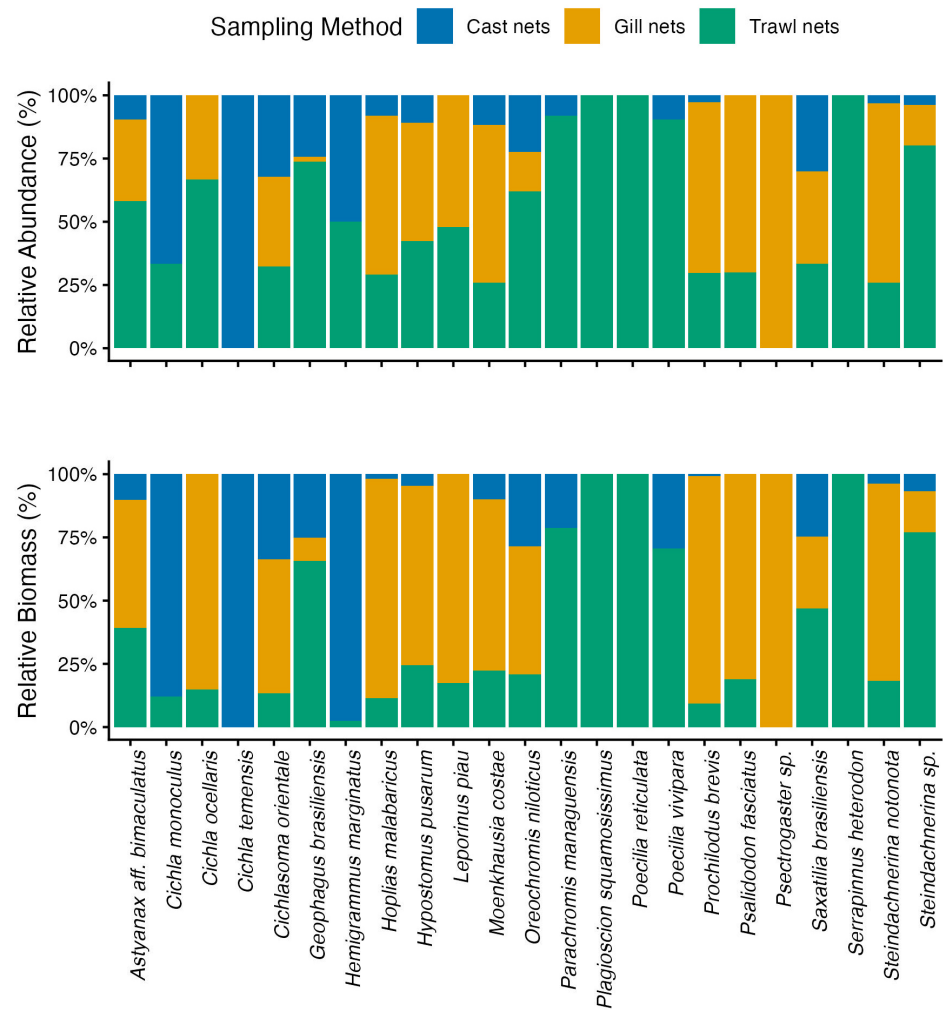


FIGURE S7 | Relative abundance of fish species by method type weighted by number of individuals and fresh weight.

HOW TO CITE THIS ARTICLE

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