

Electronic materials

Table E1. Mean back-calculated length at the last annulus by age of chub *Squalius cephalus* from the 36 rivers in England that were used in analyses. Where there are missing mean lengths at age for a river, no fish were present in samples at that age.

River	Latitude	Longitude	n	Mean back-calculated length at the last annulus by age (mm)														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Alne	52°16'49.4"N	1°46'59.9"W	13					218	282	270			365		409			
Blackwater	51°48'36.7"N	0°40'25.3"E	26	58	69	144	240	242		288	415	413	404	418	467	431		
Bure	52°43'40.8"N	1°21'20.9"E	12			110	155						462	444	443	462		
Castle Mill Stream	51°44'58.9"N	1°16'25.3"W	52	40	74	127	149	184	292	333			408					
Cherwell	51°51'39.6"N	1°18'04.7"W	30	59	86		171	257	265	358	366		412					
Colne	51°33'37.1"N	0°29'04.9"W	163	55	84	137	193	245	309	348	299	421		420			430	437
Dearne	53°33'59.8"N	1°28'35.8"W	41			132	174	223	282	319	359	399	418		423			
Frome	50°40'55.2"N	2°10'59.9"W	84	49	102	174	234											
Gipping	52°04'27.5"N	1°06'13.7"E	69	55	77	122	160	210	205	293	315	350	408	414	408	443	439	465
Great Ouse	52°20'07.1"N	0°00'31.7"E	40	58	83	128	170	256	281		370	362	401	422	445		420	443
Ivel	52°08'46.0"N	0°18'51.5"W	50		73	118	196	211		301	365	405	414	403	474	491	452	503
Kennet	51°26'13.9"N	1°34'40.4"W	33			145	165	197	318	295	393		412	413	441		419	
Lark	52°19'33.2"N	0°34'45.5"E	37	28	77	127	176	211	272				452	500	435			
Lee	51°34'03.4"N	0°03'04.0"W	158	48	93	140	197	235	255	314	347	386	412	417	433			
Medway	51°15'18.0"N	0°29'06.0"E	33	52	81	117	158	205	230		333	385	352					
Nidd	53°59'14.3"N	1°17'19.7"W	117	32	120	148	185	242	307	350	388	401	401	414	459	453		
Osney Stream	51°44'58.9"N	1°16'25.3"W	19	41	88	138	195	166		349	411				416	437		
Ouzel	51°59'16.8"N	0°43'02.6"W	33		77	132	159			257	358	384				435	455	477
Pant	51°57'04.3"N	0°25'56.3"E	25			109	159	186	270	273	321				398			
Rother	53°21'58.7"N	1°21'06.5"W	26			123	195			317	370	383	413	416		406	414	
Salwarpe	52°15'07.6"N	2°12'10.4"W	26			131	194	193	238	276	300							

Stour (Dorset)	50°45'53.6"N	1°50'34.8"W	164	43	87	131	192	256	293	356	405	389	445	440	475		504	
Stour (Essex)	51°59'09.2"N	0°45'36.4"E	211	36	78	133	193	233	288	316	349	369	416	441	449	463	461	
Swale	54°09'09.4"N	1°20'52.1"W	38			138	169	238	265	335	353	404	376	415	457		459	
Ter	51°46'41.5"N	0°34'48.0"E	24		86			237	282	286	318	369	360	363				
Thames	51°38'46.3"N	1°16'25.0"W	50	39	93	163	205	294	375	390	394			443				
Tove	52°07'56.3"N	0°57'26.6"W	40	54	70		142	217	271	306	387		431	421	436	434	404	470
Tud	52°39'16.2"N	1°12'31.7"E	10			110		177	228									
Tyne	54°56'57.1"N	1°55'30.0"W	16			126	198	228	239	347	445	379		420				
W Avon	52°16'47.6"N	1°34'45.8"W	22					229										
Wandle	51°25'08.4"N	0°10'51.6"W	28		119	175	218	265	245	393	459	408	455					
Waveney	52°22'58.8"N	1°16'27.5"E	45	28	71	112	148	207	281	283	401	401	419	423	435	465		
Wensum	52°39'39.2"N	1°12'29.5"E	93	38	75	123	164	225	273	330	363	375	445	457	459	514	466	503
Wey	51°14'10.0"N	0°34'42.2"W	28		116	108	200		328		354	386	423	431	424	445	445	
Wharfe	53°55'37.2"N	1°23'13.2"W	25				222	237	318	314	357	397	408		423			
Y Ouse	53°59'20.8"N	1°08'59.3"W	26	43	83	124	152	199	289		383		367	478				
