



Addendum to “Anticoagulant rodenticides in predatory birds 2011: a Predatory Bird Monitoring Scheme (PBMS) report

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Table 1. Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2011.

Bird	Vice-County	Age	Sex	Concentration of rodenticide ($\mu\text{g/g}$ wet wt.)					Other anticoagulant rodenticides detected
				SGARs					
				Difen	Brom	Brod	Floc	Difeth	
16804	Kincardineshire	J	M	0.007	0.005	ND	ND	ND	ND
16841	Mid Perthshire	J	M	0.003	ND	ND	ND	ND	ND
16842	South Wiltshire	J	M	ND	0.006	ND	ND	ND	ND
16843	West Norfolk	J	F	0.014	ND	ND	ND	0.021	ND
16849	Cambridgeshire	J	U	0.004	0.021	0.006	ND	ND	ND
16853	North Northumberland	J	M	ND	0.094	ND	ND	0.068	ND
16856	East Cornwall	A	F	ND	ND	0.337	ND	ND	ND
16862	West Norfolk	A	M	0.039	0.004	0.017	ND	ND	ND
16864	Montgomeryshire	J	M	0.012	0.009	0.015	ND	ND	ND
16868	South Lincolnshire	J	M	0.003	0.011	ND	ND	ND	ND
16871	Hertfordshire	J	F	0.012	0.009	0.008	ND	ND	ND
16881	East Lothian (Haddington)	U	M	0.010	0.105	ND	ND	ND	ND
16885	South Wiltshire	J	M	ND	0.025	ND	ND	ND	ND
16900	East Cornwall	A	F	0.049	0.007	0.033	ND	ND	ND
16978	North Wiltshire	J	M	ND	ND	ND	ND	ND	ND
16979	Cheshire	J	U	ND	ND	ND	ND	ND	ND
16981	Cambridgeshire	J	M	ND	ND	ND	ND	ND	ND
16984	South Wiltshire	J	M	ND	0.028	0.122	ND	ND	ND
16985	Cardiganshire	A	M	0.014	0.020	0.011	ND	ND	ND
16987	Berkshire	J	F	0.181	0.083	0.006	ND	ND	ND
17001	East Sussex	J	M	0.007	0.014	0.015	ND	ND	ND
17005	Cambridgeshire	A	F	0.009	0.094	ND	ND	ND	ND
17007	Staffordshire	J	M	0.015	ND	ND	ND	ND	ND
17017	Herefordshire	J	F	0.003	0.002	ND	ND	ND	ND
17029	Northamptonshire	A	M	0.013	0.197	0.018	ND	ND	ND
17032	Berkshire	J	F	ND	0.004	ND	ND	ND	ND

ND = Non-Detected; Difen – difenacoum; Brom – bromadiolone; Brod – brodifacoum; Floc – flocoumafen; Difeth - difethiolone; Warf – warfarin; Coum – coumatetralyl; Chloro – chlorophacinone; Diph – diphacinone.

Table 1 continued. Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2011.

Bird	Vice-County	Age	Sex	Concentration of rodenticide (µg/g wet wt.)					Other anticoagulant rodenticides detected
				SGARs					
				Difen	Brom	Brod	Floc	Difeth	
17038	South Wiltshire	J	F	ND	0.008	ND	ND	ND	ND
17040	Northamptonshire	J	F	ND	ND	ND	ND	ND	ND
17051	South Wiltshire	J	F	ND	0.197	0.004	ND	ND	ND
17057	North Wiltshire	J	M	0.018	0.007	0.016	ND	ND	ND
17061	South Wiltshire	J	F	0.002	ND	ND	ND	ND	ND
17062	Bedfordshire	J	F	0.009	ND	ND	ND	ND	ND
17066	West Gloucestershire	J	F	ND	ND	ND	ND	ND	ND
17068	Huntingdonshire	J	F	ND	0.024	ND	ND	ND	ND
17077	North Wiltshire	J	F	ND	ND	ND	ND	ND	ND
17081	West Suffolk	J	M	0.006	0.059	ND	ND	ND	ND
17084	North Wiltshire	A	F	0.010	0.033	0.004	0.003	ND	ND
17086	South Devon	J	M	0.003	0.008	ND	ND	0.012	ND
17140	South-east Yorkshire	J	M	0.004	0.004	ND	ND	ND	ND
17143	South Wiltshire	J	M	ND	ND	ND	ND	ND	ND
17144	North Essex	J	F	ND	ND	ND	ND	ND	ND
17153	Caernarvonshire	J	M	ND	0.003	ND	ND	ND	ND
17154	Anglesey	J	M	0.009	0.012	0.010	ND	ND	ND
17156	South Lancashire	J	M	ND	0.003	0.004	ND	ND	ND
17158	South Wiltshire	J	F	0.186	ND	ND	ND	ND	ND
17159	West Lancashire	J	F	ND	0.018	ND	ND	ND	ND
17160	Dorset	U	M	0.027	0.004	0.003	ND	ND	ND
17161	North Ebudes	J	M	ND	0.009	ND	ND	ND	ND
17163	North Ebudes	J	M	ND	ND	ND	ND	0.026	ND
17164	North Essex	J	M	ND	ND	ND	ND	ND	ND
17166	East Norfolk	J	F	0.082	0.214	0.004	ND	ND	ND
17174	North Essex	J	M	0.005	0.005	ND	ND	ND	ND
17177	North Hampshire	J	M	ND	0.004	ND	ND	ND	ND

ND = Non-Detected; Difen – difenacoum; Brom – bromadiolone; Brod – brodifacoum; Floc – flocoumafen; Difeth - difethiolone; Warf – warfarin; Coum – coumatetralyl; Chloro – chlorophacinone; Diph – diphacinone.

Table 1 continued. Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2011.									
Bird	Vice-County	Age	Sex	Concentration of rodenticide (µg/g wet wt.)					Other anticoagulant rodenticides detected
				SGARs					
				Difen	Brom	Brod	Floc	Difeth	
17178	North Hampshire	J	F	ND	0.017	ND	ND	ND	ND
17179	South Wiltshire	J	F	0.006	0.004	ND	ND	ND	ND
17180	North Hampshire	J	F	ND	ND	ND	ND	ND	ND
17213	Berkshire	J	M	ND	0.005	ND	ND	ND	Warf – 0.003
17223*	North Hampshire	J	M	ND	ND	ND	ND	ND	ND
17229*	East Suffolk	A	F	0.007	ND	0.015	ND	ND	ND
17243*	South Wiltshire	J	F	ND	ND	0.006	ND	ND	ND
17310*	South Wiltshire	J	M	0.007	0.055	0.034	ND	ND	ND
17317*	South Wiltshire	J	F	0.047	0.096	0.008	ND	ND	ND
17335*	South Wiltshire	A	M	0.033	0.004	0.005	ND	ND	ND
17355	Berkshire	A	F	0.128	0.021	0.184	0.002	ND	ND
17361*	North Hampshire	J	M	0.019	0.015	0.004	0.003	ND	ND
17362*	North Hampshire	A	F	0.045	0.073	0.092	0.014	ND	ND

ND = Non-Detected; Difen – difenacoum; Brom – bromadiolone; Brod – brodifacoum; Floc – flocoumafen; Difeth - difethiolone; Warf – warfarin; Coum – coumatetralyl; Chloro – chlorophacinone; Diph – diphacinone.

* Indicate birds that died in 2012

Table 2. Concentrations of anticoagulant rodenticides in the livers of kestrels received in 2011.										
Bird	Vice-County	Age	Sex	Concentration of rodenticide (µg/g wet wt.)						
				SGARs					Other anticoagulant rodenticides detected	
				Difen	Brom	Brod	Floc	Difeth		
16901	South Wiltshire	Adult	M	0.013	0.718	1.041	ND	ND	ND	
16980	Cambridgeshire	Adult	M	0.010	0.022	0.001	ND	ND	ND	
16982	Derbyshire	Adult	M	0.091	0.344	0.005	ND	ND	ND	
16996	West Kent	Juvenile	F	0.042	0.493	0.001	ND	ND	ND	
16998	Oxfordshire	Juvenile	F	0.015	0.004	0.004	ND	ND	ND	
17000	East Kent	Adult	F	0.005	0.081	0.001	ND	ND	ND	
17003	West Kent	Juvenile	F	0.001	0.080	0.001	ND	ND	ND	
17048	Orkney Islands	Adult	M	0.013	0.051	0.001	ND	ND	ND	
17056	Cheshire	Adult	F	0.017	0.201	0.006	ND	ND	ND	
17155	Huntingdonshire	Juvenile	M	0.041	0.500	0.001	ND	ND	ND	
17182	North Hampshire	Juvenile	F	0.004	0.421	0.005	ND	ND	ND	
17183	Berkshire	Adult	M	0.003	0.397	0.020	ND	ND	ND	
17194	Berkshire	Juvenile	M	0.006	0.042	0.001	ND	ND	ND	
17195	North Hampshire	Adult	M	0.158	0.120	0.022	ND	ND	ND	
17196	North Hampshire	Juvenile	M	0.002	0.024	0.001	ND	ND	ND	
17197	*	Adult	F	0.013	0.023	1.531	ND	ND	ND	
17204	Dorset	Adult	M	0.037	0.165	0.003	ND	ND	ND	
17209	North Hampshire	Adult	M	0.001	0.006	0.001	ND	0.004	ND	
17222	South Hampshire	Adult	M	0.034	0.071	0.006	ND	ND	ND	
17358	North Hampshire	Undetermined	U	0.116	0.005	0.426	ND	ND	ND	

ND = Non-Detected; Difen – difenacoum; Brom – bromadiolone; Brod – brodifacoum; Floc – flocoumafen; Difeth - difethiolone; Warf – warfarin; Coum – coumatetralyl; Chloro – chlorophacinone; Diph – diphacinone.

Table 3. Concentrations of anticoagulant rodenticides in the livers of red kites received in 2011.

Bird	Vice-County	Age	Sex	Concentration of rodenticide (µg/g wet wt.)					Other anticoagulant rodenticides detected
				SGARs					
				Difen	Brom	Brod	Floc	Difeth	
16935	Northamptonshire	A	F	0.031	0.066	0.042	ND	ND	ND
17170	North Wiltshire	A	M	0.184	0.063	ND	0.006	ND	ND
17173	Northamptonshire	A	F	0.125	0.150	0.004	ND	ND	Warf – 0.124
17200	Berkshire	A	M	0.131	0.015	0.016	ND	ND	ND
17252	East Gloucestershire	A	M	0.006	0.090	0.040	ND	ND	ND
17255	*	*	*	0.039	0.002	0.276	ND	ND	ND
17256	*	*	*	ND	ND	ND	ND	ND	ND
17257	Buckinghamshire	A	M	0.020	0.014	0.126	ND	ND	ND
17258	Mid-west Yorkshire	A	M	0.189	0.115	0.010	ND	ND	ND
17259	South-east Yorkshire	A	F	0.200	0.045	0.310	ND	ND	ND
17261	Mid-west Yorkshire	J	M	0.288	0.107	0.017	ND	ND	ND
17262	Westmorland with North Lancashire	J	*	0.003	0.012	ND	ND	ND	ND
17265	Cambridgeshire	A	M	0.120	0.245	0.066	0.003	ND	ND
17266	Buckinghamshire	A	M	0.078	0.018	0.004	ND	ND	ND
17267	Mid-west Yorkshire	A	F	0.052	ND	0.967	ND	ND	ND
17270	Mid-west Yorkshire	A	F	0.063	0.024	0.008	ND	ND	ND
17271	Buckinghamshire	J	M	ND	0.008	ND	ND	ND	ND
17352	North Hampshire	J	F	ND	ND	0.115	ND	0.124	ND

ND = Non-Detected; Difen – difenacoum; Brom – bromadiolone; Brod – brodifacoum; Floc – flocoumafen; Difeth - difethiolone; Warf – warfarin; Coum – coumatetralyl; Chloro – chlorophacinone; Diph – diphacinone.