



# Addendum to “Anticoagulant rodenticides in predatory birds 2007 & 2008: a Predatory Bird Monitoring Scheme (PBMS) report”

L.A Walker, N. R. Llewellyn, M.G. Peréira, E.D. Potter, F.M. Molenaar\*,  
A.W. Sainsbury\* & R.F. Shore

Centre for Ecology & Hydrology, Lancaster Environment Centre, Library Avenue, Bailrigg,  
Lancaster, LA1 4AP, UK

\*Institute of Zoology, Zoological Society of London, Regents Park, London NW1 4RY, UK



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<b>Table A1. Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2007.</b>											
<b>Bird</b>	<b>Vice-County</b>	<b>Age</b>	<b>Sex</b>	<b>Concentration of rodenticide (µg/g wet wt.)</b>							
				<b>SGARs</b>				<b>Other anticoagulant rodenticides</b>			
				<b>Difen</b>	<b>Brom</b>	<b>Brod</b>	<b>Floc</b>	<b>Warf</b>	<b>Coum</b>	<b>Chloro</b>	<b>Diphac</b>
15431	Huntingdonshire	A	M	ND	0.040	0.006	ND	ND	ND	ND	ND
15482	Cheshire	A	M	0.016	ND	ND	ND	ND	ND	ND	ND
15484	South Lincolnshire	J	F	ND	0.003	ND	ND	ND	ND	ND	ND
15487	South Lincolnshire	J	M	ND	0.005	ND	ND	ND	ND	ND	ND
15493	South Lincolnshire	J	M	0.024	0.009	0.019	ND	ND	ND	ND	ND
15517	Huntingdonshire	J	F	ND	0.072	ND	ND	ND	ND	ND	ND
15520	Montgomeryshire	A	M	0.010	ND	0.006	ND	ND	ND	ND	ND
15522	West Norfolk	A	M	0.044	ND	0.007	ND	ND	ND	ND	ND
15527	Shropshire	J	M	0.028	0.003	ND	ND	ND	ND	ND	ND
15533	South Lincolnshire	A	F	0.052	0.036	ND	ND	ND	ND	ND	ND
15534	Huntingdonshire	A	M	ND	ND	0.022	ND	ND	ND	ND	ND
15535	South Lincolnshire	J	F	0.003	0.075	ND	ND	ND	ND	ND	ND
15536	South Lincolnshire		M	ND	ND	ND	ND	ND	ND	ND	ND
15538	Cambridgeshire	A	F	0.022	0.004	ND	ND	ND	ND	ND	ND
15543	Cheshire	J	M	0.003	0.002	ND	ND	ND	ND	ND	ND
15550	Cambridgeshire	A	M	0.016	0.032	ND	ND	ND	0.024	ND	ND
15557	West Cornwall	A	F	0.005	ND	ND	ND	ND	ND	ND	ND
15558	West Cornwall	A	M	0.007	0.007	ND	ND	ND	ND	ND	ND
15581	North Essex	A	F	ND	0.009	ND	ND	ND	ND	ND	ND
15584	Shropshire	J	M	ND	0.005	ND	ND	ND	ND	ND	ND
15591	Cambridgeshire	J	M	0.002	0.020	ND	ND	ND	ND	0.006	ND
15593	Shropshire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15653	Cornwall	J	F	0.010	ND	ND	ND	ND	ND	ND	ND
15684	East Cornwall	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15690	South-east Yorkshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND

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

<b>Table A1 cont... Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2007.</b>											
<b>Bird</b>	<b>Vice-County</b>	<b>Age</b>	<b>Sex</b>	<b>Concentration of rodenticide (<math>\mu\text{g/g}</math> wet wt.)</b>							
				<b>SGARs</b>				<b>Other anticoagulant rodenticides</b>			
				<b>Difen</b>	<b>Brom</b>	<b>Brod</b>	<b>Floc</b>	<b>Warf</b>	<b>Coum</b>	<b>Chloro</b>	<b>Diphac</b>
15691	Mid-west Yorkshire	J	M	ND	0.022	ND	ND	ND	ND	ND	ND
15699	Hertfordshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15703	South Lincolnshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15713	South Lincolnshire	A	M	ND	ND	ND	ND	ND	ND	ND	ND
15721	Huntingdonshire	J	F	0.005	ND	ND	ND	ND	ND	ND	ND
15723	Merionethshire	J	F	0.002	ND	ND	ND	ND	ND	ND	ND
15728	Cambridgeshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15734	Cambridgeshire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15736	Dorset	J	F	ND	0.005	ND	ND	ND	ND	ND	ND
15740	Cambridgeshire	A	F	0.030	0.017	0.006	ND	ND	ND	ND	ND
15741	Staffordshire	J	M	0.009	ND	ND	ND	ND	ND	ND	ND
15746	Bedfordshire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15747	Cambridgeshire	J	M	0.019	0.006	ND	ND	ND	ND	ND	ND
15748	Huntingdonshire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15750	Hertfordshire	J	F	0.025	ND	ND	ND	ND	ND	ND	ND
15751	Huntingdonshire	A	F	0.007	0.007	0.026	ND	ND	ND	ND	ND
15753	Cambridgeshire	J	F	0.095	ND	ND	ND	ND	ND	ND	ND
15754	Bedfordshire	J	F	ND	0.003	ND	ND	ND	ND	ND	ND
15755	Bedfordshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15756	Cambridgeshire	J	F	0.030	0.003	ND	ND	ND	ND	ND	ND
15758	Herefordshire	J	M	0.004	ND	ND	ND	ND	ND	ND	ND
15759	Huntingdonshire	J	M	0.004	ND	ND	ND	ND	ND	ND	ND
15764	Derbyshire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15922	South Lincolnshire	U	M	0.070	0.006	ND	ND	ND	ND	ND	ND

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

<b>Table A2. Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2008.</b>											
<b>Bird</b>	<b>Vice-County</b>	<b>Age</b>	<b>Sex</b>	<b>Concentration of rodenticide (µg/g wet wt.)</b>							
				<b>SGARs</b>				<b>Other anticoagulant rodenticides</b>			
				<b>Difen</b>	<b>Brom</b>	<b>Brod</b>	<b>Floc</b>	<b>Warf</b>	<b>Coum</b>	<b>Chloro</b>	<b>Diphac</b>
15771	South Lincolnshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15772	North Lincolnshire	A	F	0.069	ND	0.011	ND	ND	ND	ND	ND
15773	Shropshire	J	M	0.042	0.061	0.013	ND	ND	ND	ND	ND
15776	Nottinghamshire	A	F	0.003	0.005	ND	ND	ND	ND	ND	ND
15807	Huntingdonshire	A	F	0.013	0.004	ND	ND	ND	ND	ND	ND
15808	East Suffolk	J	M	0.007	0.014	ND	ND	ND	ND	ND	ND
15825	South Lincolnshire	J	F	0.006	0.004	ND	ND	ND	ND	ND	ND
15838	South Lincolnshire	A	F	0.005	ND	0.042	ND	ND	ND	ND	ND
15839	South Lincolnshire	J	F	0.004	0.012	ND	ND	ND	ND	ND	ND
15840	South Lincolnshire	J	F	0.016	0.017	ND	ND	ND	ND	ND	ND
15841	South Lincolnshire	J	F	0.047	0.005	0.006	ND	ND	ND	ND	ND
15845	Bedfordshire	A	F	0.023	0.086	ND	ND	ND	ND	ND	ND
15850	Cambridgeshire	A	M	ND	0.062	0.034	ND	ND	ND	ND	ND
15851	Northamptonshire	A	M	0.004	ND	0.723	ND	ND	ND	ND	ND
15853	Dorset	J	M	ND	ND	0.006	ND	ND	ND	ND	ND
15861	North Essex	A	M	ND	ND	0.042	ND	ND	ND	ND	ND
15863	North Hampshire	U	F	0.004	0.007	0.005	ND	ND	ND	ND	ND
15867	Oxfordshire	A	M	0.011	0.027	ND	ND	ND	ND	ND	ND
15878	Caernarvonshire	A	F	ND	0.007	ND	ND	ND	ND	ND	ND
15888	South Lincolnshire	J	F	0.034	0.027	0.041	ND	ND	ND	ND	ND
15889	South Lincolnshire		M	0.012	0.013	ND	ND	ND	ND	ND	ND
15891	South Lincolnshire	A	M	0.016	0.010	ND	ND	ND	ND	ND	ND
15893	South Lincolnshire	J	F	0.003	0.167	ND	ND	ND	ND	ND	ND
15894	North Lincolnshire	A	M	0.010	0.081	0.039	ND	ND	ND	0.006	ND
15898	South Lincolnshire	J	F	0.008	ND	0.019	ND	ND	ND	0.007	ND

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

<b>Table A2 cont... Concentrations of anticoagulant rodenticides in the livers of barn owls received in 2008.</b>											
<b>Bird</b>	<b>Vice-County</b>	<b>Age</b>	<b>Sex</b>	<b>Concentration of rodenticide (µg/g wet wt.)</b>							
				<b>SGARs</b>				<b>Other anticoagulant rodenticides</b>			
				<b>Difen</b>	<b>Brom</b>	<b>Brod</b>	<b>Floc</b>	<b>Warf</b>	<b>Coum</b>	<b>Chloro</b>	<b>Diphac</b>
15899	South Lincolnshire	A	M	0.003	0.032	ND	ND	ND	ND	0.003	ND
15901	South Lincolnshire	A	M	0.036	0.025	ND	ND	ND	ND	ND	ND
15902	South Lincolnshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15903	East Suffolk	A	M	ND	0.020	0.106	ND	ND	ND	ND	ND
15906	West Norfolk	J	M	0.016	ND	0.663	0.014	ND	ND	ND	ND
15912	South Essex	A	F	0.023	0.046	0.005	ND	ND	ND	ND	ND
15920	South Lincolnshire	A	F	0.109	0.201	0.025	ND	ND	ND	ND	ND
15924	South Lincolnshire			0.084	0.009	ND	0.005	ND	ND	ND	ND
15925	South Lincolnshire	U	F	0.008	ND	0.005	ND	ND	ND	ND	ND
15926	South Lincolnshire	A	F	0.008	0.094	ND	ND	ND	ND	ND	ND
15930	North Lincolnshire	J	F	0.004	0.023	0.005	ND	ND	ND	ND	ND
15933	South Lincolnshire	A	M	0.022	0.006	0.004	ND	ND	ND	ND	ND
15935	South Lincolnshire	J		ND	ND	ND	ND	ND	ND	ND	ND
15938	Berkshire		M	0.005	0.011	ND	ND	ND	ND	ND	ND
15941	West Cornwall	J	M	0.031	0.023	ND	ND	ND	ND	ND	ND
15943	Warwickshire	J	M	0.039	ND	ND	ND	ND	ND	ND	ND
15949	Huntingdonshire	A	M	0.093	ND	0.005	ND	ND	ND	ND	ND
15952	East Norfolk	J	F	0.055	0.285	ND	ND	ND	ND	ND	ND
15963	Kirkcudbrightshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
15976	Merionethshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
16044	Shropshire	J	M	ND	0.007	ND	ND	ND	ND	ND	ND
16045	Hertfordshire	J	M	ND	0.022	ND	ND	ND	ND	ND	ND
16057	Anglesey	U	M	ND	ND	ND	ND	ND	ND	ND	ND
16086	East Cornwall	J	U	ND	ND	0.018	ND	ND	ND	ND	ND

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

<b>Table A3. Concentrations of anticoagulant rodenticides in the livers of kestrels received in 2007 &amp; 2008.</b>											
<b>Bird</b>	<b>Vice-County</b>	<b>Age</b>	<b>Sex</b>	<b>Concentration of rodenticide (µg/g wet wt.)</b>							
				<b>SGARs</b>				<b>Other anticoagulant rodenticides</b>			
				<b>Difen</b>	<b>Brom</b>	<b>Brod</b>	<b>Floc</b>	<b>Warf</b>	<b>Coum</b>	<b>Chloro</b>	<b>Diphac</b>
2007:-											
15463	West Ross	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15464	Leicestershire	U	M	ND	ND	ND	ND	ND	ND	ND	ND
15521	Mid-west Yorkshire	A	F	ND	0.004	ND	ND	ND	ND	ND	ND
15594	Worcestershire	A	F	0.087	1.057	0.016	ND	ND	ND	ND	ND
15693	Isle of Wight	J	M	ND	ND	0.006	ND	ND	ND	ND	ND
15694	Cambridgeshire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
15548	East Suffolk	A	F	0.006	0.028	ND	ND	ND	ND	ND	ND
2008:-											
15856	Huntingdonshire	A	M	ND	ND	ND	ND	ND	ND	ND	ND
15892	South Lincolnshire	A	M	0.042	0.010	0.004	ND	ND	ND	ND	ND
15939	West Lancashire	J	F	ND	ND	0.003	ND	ND	ND	ND	ND
15944	*	J	U	0.084	0.170	ND	ND	ND	ND	ND	ND
15953	Cambridgeshire	A	M	0.005	0.005	ND	ND	ND	ND	ND	ND
15955	Huntingdonshire	A	F	ND	ND	ND	ND	ND	ND	ND	ND
15956	Huntingdonshire	A	M	0.010	0.067	ND	0.010	ND	ND	ND	ND
15965	South Essex	J	U	0.004	ND	ND	ND	ND	ND	ND	ND
15973	Cumberland	J	F	ND	ND	ND	ND	ND	ND	ND	ND
16043	Orkney Islands	J	F	ND	ND	ND	ND	ND	ND	ND	ND
16093	Oxfordshire	U	M	0.100	0.034	ND	ND	ND	ND	ND	ND
16095	Buckinghamshire	A	M	0.004	0.212	ND	ND	ND	ND	ND	ND
16097	South-west Yorkshire	U	M	0.374	0.072	0.375	ND	ND	ND	ND	ND
16105	South-east Yorkshire	J	F	0.035	0.009	0.006	ND	ND	ND	ND	ND
16106	South-east Yorkshire	J	M	0.002	0.971	ND	ND	ND	ND	ND	ND

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

<b>Table A4. Concentrations of anticoagulant rodenticides in the livers of red kites received in 2007.</b>											
<b>Bird</b>	<b>Vice-County</b>	<b>Age</b>	<b>Sex</b>	<b>Concentration of rodenticide (µg/g wet wt.)</b>							
				<b>SGARs</b>				<b>Other anticoagulant rodenticides</b>			
				<b>Difen</b>	<b>Brom</b>	<b>Brod</b>	<b>Floc</b>	<b>Warf</b>	<b>Coum</b>	<b>Chloro</b>	<b>Diphac</b>
15671	Northamptonshire	J	M	0.030	0.040	ND	ND	ND	ND	ND	0.008
15673	Northamptonshire	A	F	0.140	0.041	ND	ND	ND	ND	ND	ND
15676	Berkshire	A	F	0.073	ND	0.169	ND	ND	ND	ND	ND
15677	Northamptonshire	A	F	0.526	ND	0.007	ND	ND	ND	ND	ND
15678	Northamptonshire	A	F	0.222	0.018	0.008	ND	ND	ND	ND	ND
15679	Oxfordshire	A	F	0.152	0.025	ND	ND	ND	ND	ND	ND
15680	Buckinghamshire	A	M	0.035	0.025	0.274	ND	ND	ND	ND	ND
15681	Northamptonshire	J	M	0.179	ND	ND	ND	ND	ND	ND	ND
15682	South-East Yorkshire	A	F	0.007	0.021	0.020	ND	ND	ND	ND	ND
15683	Mid-West Yorkshire	A	M	0.346	ND	0.085	ND	ND	ND	ND	ND
15826	Northamptonshire	J	F	0.014	0.025	ND	ND	ND	ND	ND	ND
16061	Buckinghamshire	A	M	0.039	0.104	0.066	ND	ND	ND	ND	ND
16062	Berkshire	A	M	0.061	0.031	0.183	ND	ND	ND	ND	ND
16063	Northamptonshire	J	M	0.080	0.102	ND	ND	ND	ND	ND	ND
16064	Buckinghamshire	J	F	0.047	0.109	ND	0.062	ND	ND	ND	ND
16066	Northamptonshire	J	F	ND	ND	ND	ND	ND	ND	ND	ND
16067	Huntingdonshire	J	M	0.013	ND	0.489	ND	ND	ND	ND	ND
16068	Buckinghamshire	A	F	0.015	0.406	ND	ND	ND	ND	0.033	ND
16069	Northamptonshire	J	F	0.270	ND	ND	ND	ND	ND	ND	ND
16646	Northamptonshire	A	F	ND	ND	ND	ND	ND	ND	ND	ND
16647	Montgomeryshire	J	U	ND	0.016	ND	ND	ND	ND	ND	ND
16071	Northamptonshire	A	F	0.018	ND	1.154	ND	0.015	ND	ND	ND

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

**Table A5. Concentrations of anticoagulant rodenticides in the livers of red kites received in 2008.**



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Bird	Vice-County	Age	Sex	Concentration of rodenticide ( $\mu\text{g/g}$ wet wt.)							
				SGARs				Other anticoagulant rodenticides			
				Difen	Brom	Brod	Floc	Warf	Coum	Chloro	Diphac
16073	Northamptonshire	A	F	0.278	ND	0.013	ND	ND	ND	ND	ND
16074	Buckinghamshire	J	M	0.006	ND	0.168	ND	ND	ND	ND	ND
16075	Northamptonshire	A	M	0.288	0.043	0.007	ND	ND	ND	ND	ND
16076	Northamptonshire	A	F	0.065	0.060	0.013	ND	ND	0.013	ND	ND
16077	Buckinghamshire	A	M	0.065	ND	0.046	ND	ND	ND	ND	ND
16079	Leicestershire	J	M	ND	ND	ND	ND	ND	ND	ND	ND
16080	Oxfordshire	J	F	0.044	0.127	ND	ND	ND	ND	ND	ND
16082	Buckinghamshire	J	F	0.006	0.052	0.105	ND	ND	ND	ND	ND
16083	Northamptonshire	J	F	0.111	0.042	0.016	ND	ND	ND	ND	ND
16084	Northamptonshire	J	F	0.123	0.102	ND	ND	ND	ND	ND	ND

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