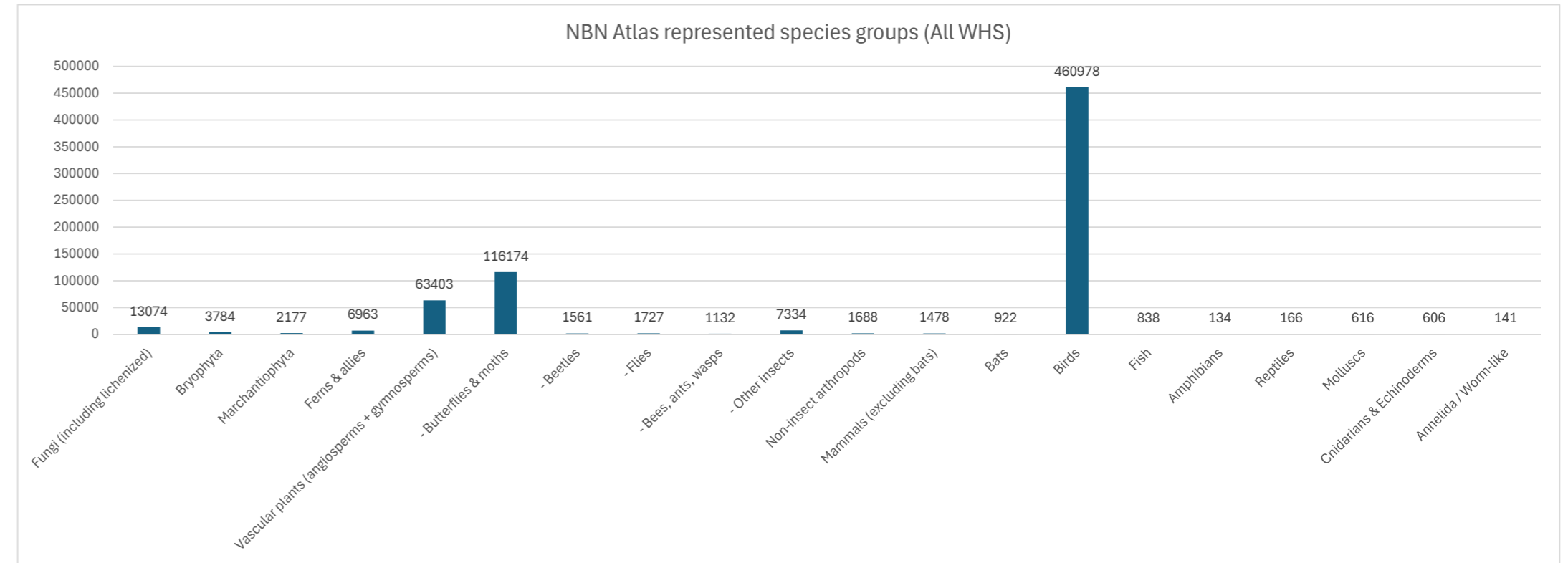


Summary

Birds, vascular plants and lepidoptera (butterflies and moths) are the groups most recorded in the WHS. All other species appear relatively under recorded. Main species groups with less than 1000 records for the WHS, where recording efforts may require the most increase in effort are bats, fish and amphibians and reptiles. Amphibians and reptiles seem particularly under recorded with less than 200 records each. The data shows that some areas contain significantly more records per hectare than other WHS areas and this is probably due to recorder effort in these areas (rather than a lack of species to record). A3ii seems to have the most recorder effort by quite some margin followed by A2. The next most recorded were A6ii, A3i, A5 and A10i. A10ii, A8i and A8ii, A5ii, A5i, A10ii were the poorest performing areas all with less than 2 records per Ha. A5ii was the worst performing at all with only 0.2 records per hectare. The picture follows a similar pattern for the NERC Act Section 41 species records, although there may be slightly less density of S41 species in urban areas and also in A4, Wendron District, although the reason for this isn't clear. No S41 species have been recorded in A5ii Wheal Peevor.

Main taxonomic groups in NBN and number of WHS records

Major Group	Count
Fungi (including lichenized)	13074
- Lichenized fungi	3,000 (approx.)
- Non-lichen fungi	10074
Bryophyta	3784
Marchantiophyta	2177
Ferns & allies	6963
Vascular plants (angiosperms + gymnosperms)	63403
Insects	127928
- Butterflies & moths	116174
- Beetles	1561
- Flies	1727
- Bees, ants, wasps	1132
- Other insects	7334
Non-insect arthropods	1688
Mammals (excluding bats)	1478
Bats	922
Birds	460978
Fish	838
Amphibians	134
Reptiles	166
Molluscs	616
Cnidarians & Echinoderms	606
Annelida / Worm-like	141

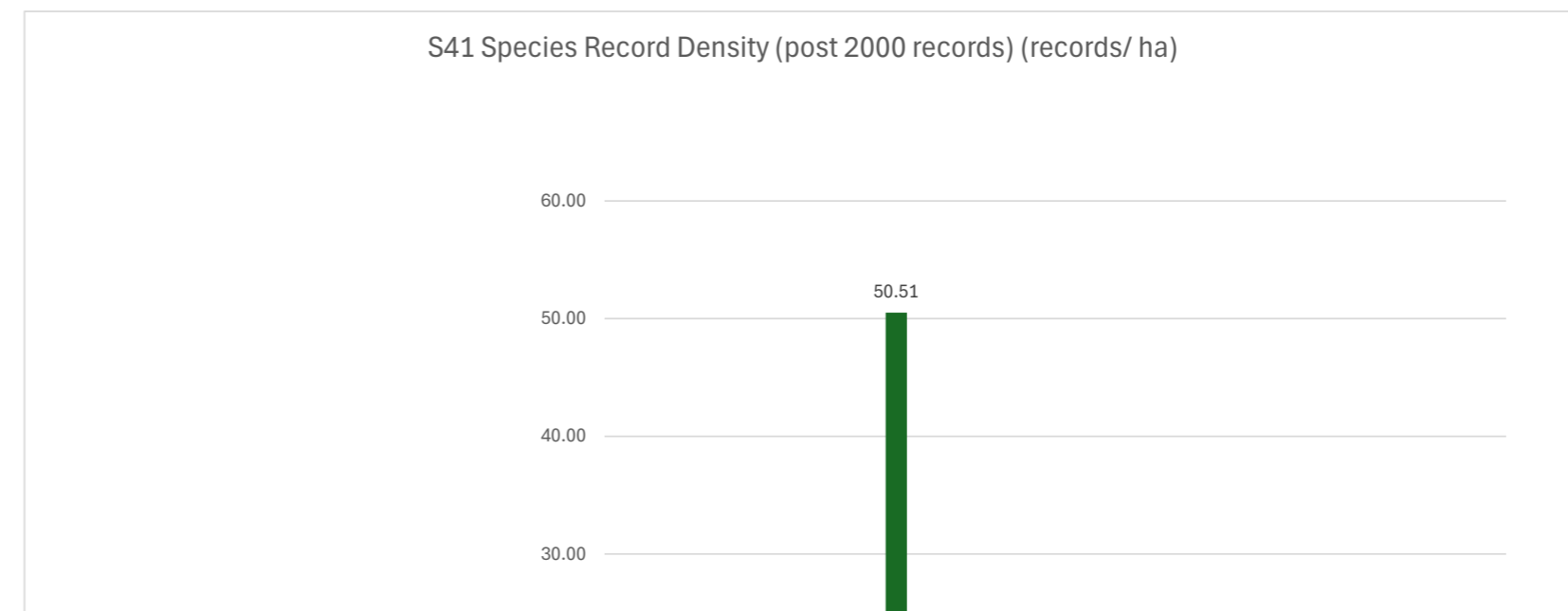


Summary table of Main taxonomic groups in NBN and number of WHS records

Major Group	Major Group	Count
Fungi (including lichenized)	Fungi & lichens	13074
Bryophyta	Mosses	3784
Marchantiophyta	Liverworts	2177
Ferns & allies	Ferns & horsetails	6963
Vascular plants (angiosperms + gymnosperms)	Flowering plants & conifers	63403
- Butterflies & moths	Lepidoptera	116174
- Beetles	Coleoptera	1561
- Flies	Diptera	1727
- Bees, ants, wasps	Hymenoptera	1132
- Other insects	Odonata, Hemiptera, Orthoptera	7334
Non-insect arthropods	Spiders, mites, crustaceans, mill	1688
Mammals (excluding bats)	Rodents, carnivores, hoofed mar	1478
Bats	Chiroptera	922
Birds	Birds	460978
Fish	Bony fishes & sharks	838
Amphibians	Frogs & salamanders	134
Reptiles	Lizards, snakes, turtles	166
Molluscs	Snails, clams, octopus	616
Cnidarians & Echinoderms	Jellyfish, corals, starfish	606
Annelida / Worm-like	Worms & relatives	141

S41 Species as an indicator of recording effort (post 2000 records)

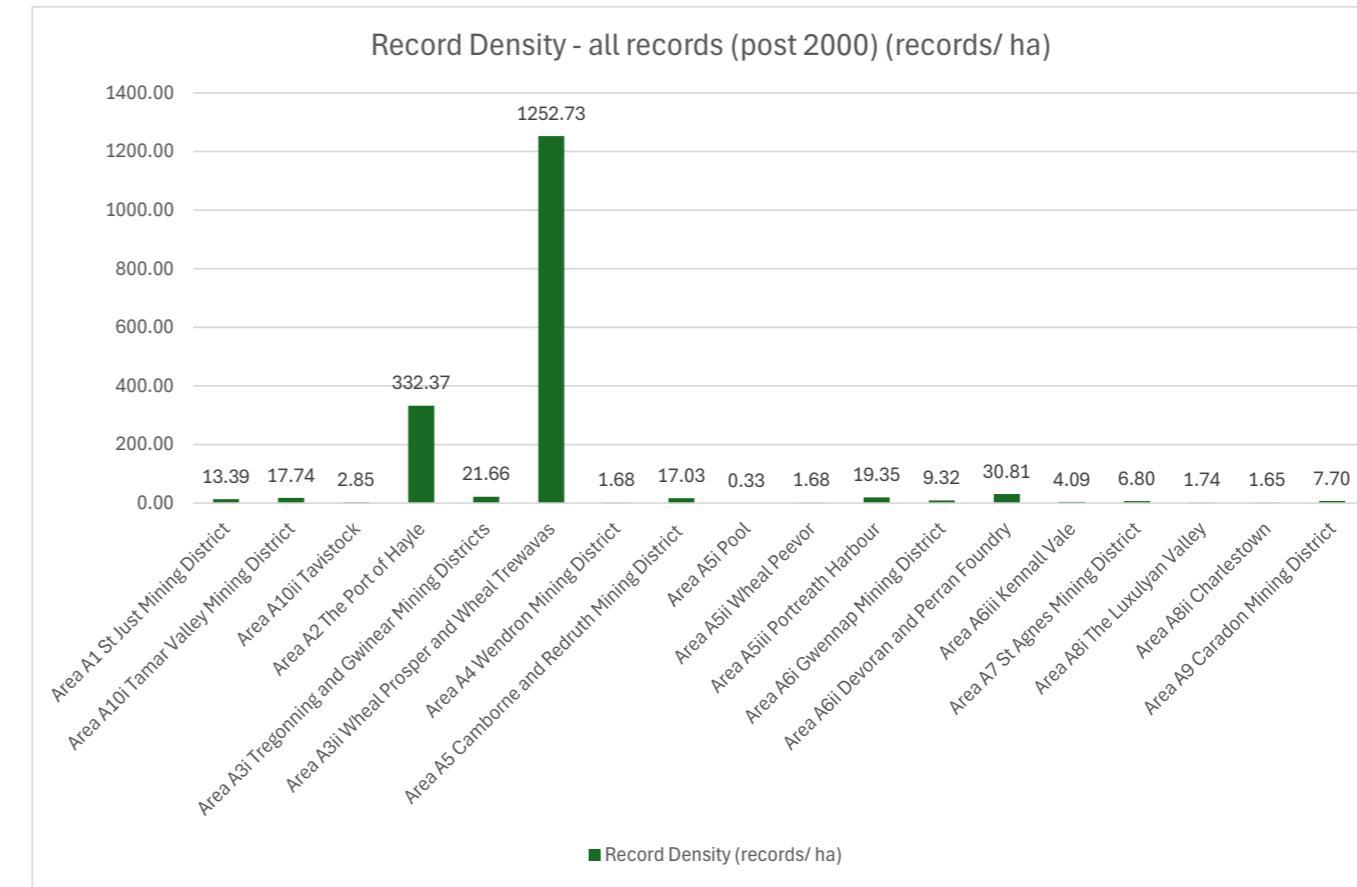
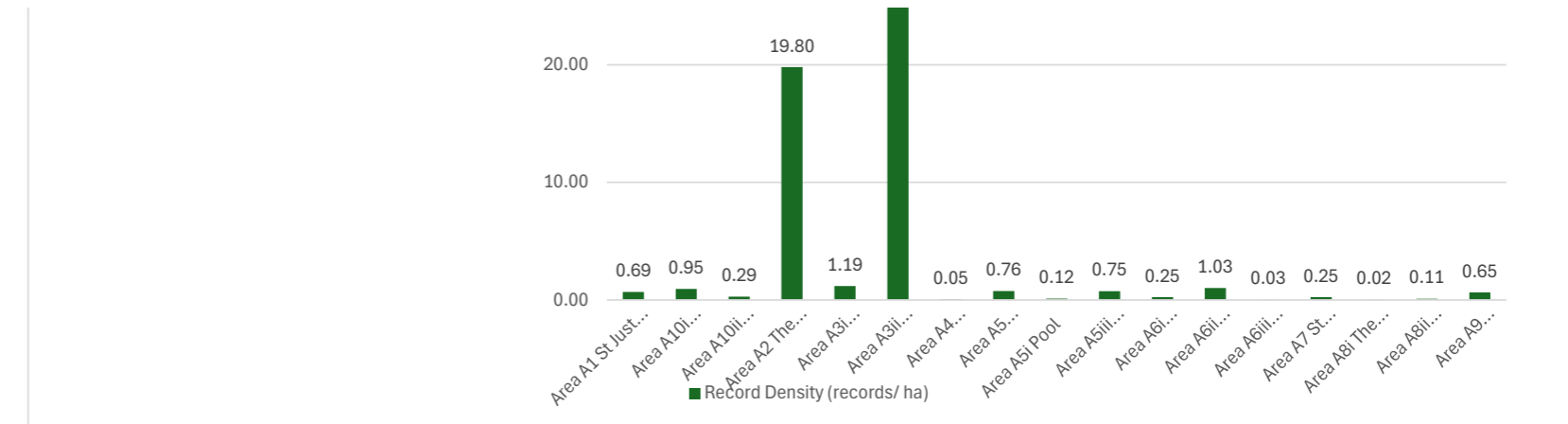
WHS Area	No of Records	Area Ha	Record Density (records/ha)
Area A1 St Just Mining District	1834	2672.42	0.69
Area A10i Tamar Valley Mining District	3854	4072.36	0.95
Area A10ii Tavistock	23	79.69	0.29
Area A2 The Port of Hayle	4099	207.01	19.80
Area A3i Tregonning and Gwinear Mining Districts	5260	4434.51	1.19
Area A3ii Wheal Prosper and Wheal Trewas	2458	48.66	50.51



Area A4 Wendron Mining District	69	1261.46	0.05
Area A5 Camborne and Redruth Mining District	1019	1333.61	0.76
Area A5i Pool	3	24.28	0.12
Area A5iii Portreath Harbour	8	10.70	0.75
Area A6i Gwennap Mining District	678	2713.13	0.25
Area A6ii Devoran and Perran Foundry	305	296.19	1.03
Area A6iii Kennall Vale	1	37.70	0.03
Area A7 St Agnes Mining District	310	1227.98	0.25
Area A8i The Luxulyan Valley	5	238.47	0.02
Area A8ii Charlestown	4	35.68	0.11
Area A9 Caradon Mining District	933	1436.87	0.65
Record spatially falls outside the WHS boundary	15163		

Recording effort - all records (post 2000 records)

WHS Area	No of Records	Area Ha	Record Density (records/ha)
Area A1 St Just Mining District	35779	2672.42	13.39
Area A10i Tamar Valley Mining District	72255	4072.36	17.74
Area A10ii Tavistock	227	79.69	2.85
Area A2 The Port of Hayle	68804	207.01	332.37
Area A3i Tregonning and Gwinnear Mining Districts	96034	4434.51	21.66
Area A3ii Wheal Prosper and Wheal Trewavas	60962	48.66	1252.73
Area A4 Wendron Mining District	2123	1261.46	1.68
Area A5 Camborne and Redruth Mining District	22712	1333.61	17.03
Area A5i Pool	8	24.28	0.33
Area A5ii Wheal Peevor	18	10.70	1.68
Area A5iii Portreath Harbour	207	10.70	19.35
Area A6i Gwennap Mining District	25278	2713.13	9.32
Area A6ii Devoran and Perran Foundry	9127	296.19	30.81
Area A6iii Kennall Vale	154	37.70	4.09
Area A7 St Agnes Mining District	8355	1227.98	6.80
Area A8i The Luxulyan Valley	416	238.47	1.74
Area A8ii Charlestown	59	35.68	1.65
Area A9 Caradon Mining District	11070	1436.87	7.70
Records spatially falls outside the WHS boundary	283583		



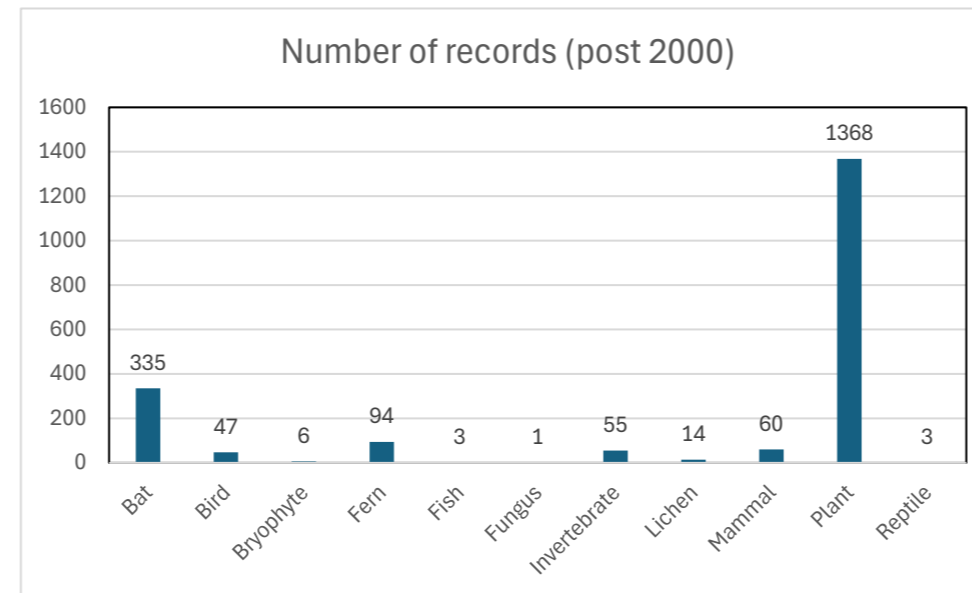
Summary

The DBRC holds 1986 post 2000 records for the Devon side of WHS area 10, Tamar Valley. Vascular plants are by far the most recorded species with bats also recording quite highly. There are relatively few records for all other taxa, although ferns seem to feature, presumably due to the well wooded nature of this landscape. Amphibians are notably absent from the records.

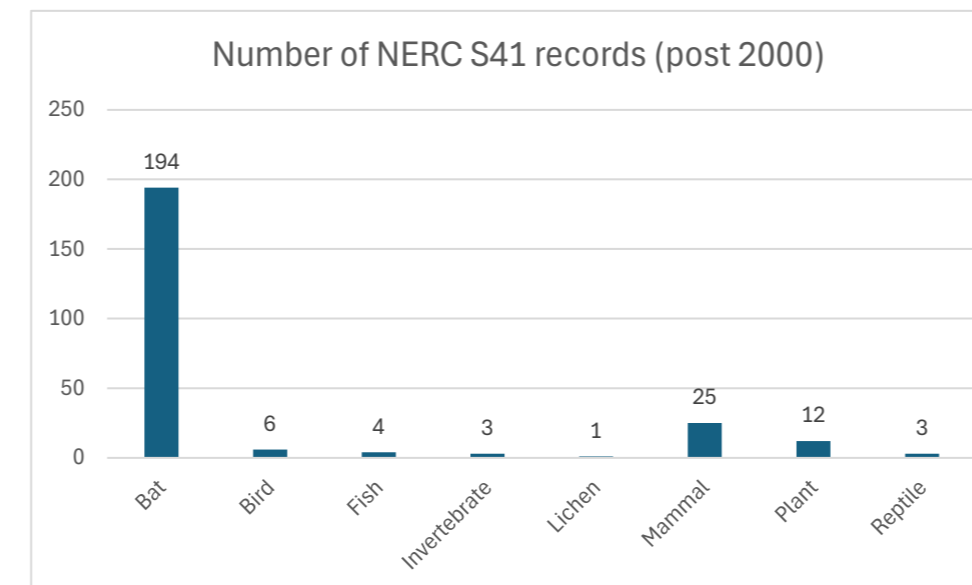
Bats are the most significantly recorded S41 group, with other mammals like Otter and Harvest Mouse. There are no Water Vole records. There are significantly fewer protected species records.

Recording effort is reasonably low from the DBRC dataset in comparison to some other WHS areas for NBN and is a little lower than some WHS areas for ERICA recorders.

Taxon	Number of records (post 2000)
Bat	335
Bird	47
Bryophyte	6
Fern	94
Fish	3
Fungus	1
Invertebrate	55
Lichen	14
Mammal	60
Plant	1368
Reptile	3
Total	1986



Taxon	Number of NERC S41 records (post 2000)
Bat	194
Bird	6
Fish	4
Invertebrate	3
Lichen	1
Mammal	25
Plant	12
Reptile	3
Grand Total	248



Approximate area of Devon side of WHS Area 10 = 1486.69Ha	
Density of recorder effort (all post 2000 records)	1.34
Density of recorder effort (S41 post 2000 records)	0.17

Summary
 Similar to NBN, the greatest numbers of records are of vascular plants, followed by moths (micro and macro). Fungi are the next most recorded group, followed by mosses and then beetles and spiders. Similar to NBN, amphibians and reptiles are among the lowest recorded groups.
 Recorder effort is slightly different to the effort reflected by NBN, indicative of the different recorders feeding into each database, although A2 is high for both sets with 8 and 5 being the next highest for ERICA. Unlike NBN, areas 3 has the lowest record density, closely followed by 10

Species	1	2	3	4	5	6	7	8	9	10	Totals
Amphibians	3	2	5	2	7	6	3	3	3	3	37
Araneae - Spiders	114	32	17	32	34	160	122	34	102	112	759
Bryopsida (Musci) - Mosses	199	33	93	69	233	248	86	24	140	73	1198
Chilopoda - Centipedes	4	1	2		6	1	3	2		2	21
Coleoptera - Beetles	258	27	71	17	65	62	75	26	10	75	686
Flowering plants and ferns	855	694	1138	616	1869	1832	823	575	560	835	9797
Fungi	74	33	181	13	219	176	31	230	182	296	1435
Hepatics - Liverworts	70	2	41	9	54	87	26	7	43	30	369
Hymenoptera - Aculeata - Ants, Bees & Wasps	124	43	56	13	57	52	83	5	6	38	477
Lepidoptera - Butterflies	34	25	62	25	81	83	29	59	28	36	462
Lichens	129	5	149	6	40	32	57	55	52	33	558
Macrolepidoptera - Larger Moths	322	191	279	236	429	525	131	367	173	418	3071
Mammals	32	16	28	11	52	31	26	20	18	29	263
Microlepidoptera - Micro Moths	154	64	109	93	195	219	83	271	80	272	1540
Odonata - Dragonflies & Damselflies	18	13	19	16	27	30	15	24	17	19	198
Pisces (= Osteichthyes) - Bony Fish	12	8	12	1	21	7	19	1	2	8	91
Reptiles	6	5	5	2	4	5	8	3	3	3	44
Grand Total	2408	1194	2267	1161	3393	3556	1620	1706	1419	2282	21066

All post 2000 records

WHS Area	No of records	Area Ha	Density (Records per ha)
1	2670	2672.42	1.00
2	1334	207.01	6.44
3	2136	4483.18	0.48
4	1001	809.48	1.24
5	3109	1395.90	2.23
6	3308	3049.67	1.08
7	1675	1227.98	1.36
8	1396	275.10	5.07
9	1282	1436.87	0.89
10	2222	2665*	0.83

*area of Cornwall side of area 10

NERC S41 Species (post 2000 records)

WHS Area	Number of records	Area ha	Record density (records/ ha)
1	61	2672.42	0.02
2	32	207.01	0.15
3	52	4483.18	0.01
4	30	809.48	0.04
5	60	1395.90	0.04
6	50	3049.67	0.02
7	32	1227.98	0.03
8	31	275.10	0.11
9	35	1436.87	0.02
10	64	2665	0.02

