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Biology Curators Group Newsletter

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A SURVEY OF SPECIES RECORDING SCHEMES IN LOCAL BIOLOGICAL RECORDS CENTRES DEREK WHITELEY

From time to time members receive requests from a number of sources for information or advice on how to keep records of local fauna and flora in a species orientated file. Sometimes enquiries are from embryo L.B.R.C.'s trying to embark on the most cost-efficient and time-efficient system when new curators pick the brains of the "old-timers". Others include naturalists, planners, conservationists etc. etc., and of course colleagues in neighbouring museums who always like to keep an eye on what the other folks are up to!

The "Handbook for Biological Records Centres" by S. W. Flood and F. H. Perring provides some guidance. It recommends that standard B.R.C. species list cards are marked for occurrence in each 10km square, and the use of species record cards with a county map printed on one side showing boundary of recording area and recording units e.g. tetrads. Localities for records can be entered on the reverse and the maps marked with dots etc.

Having tried several different card and loose-leaf formats as a recorder at Sheffield Museum and with the Sorby Nat. Hist. Society, I became interested in seeing how other museums function, and always made a point of sneaking a quick peep inside the filing cabinet on museum visits.

A brief survey seemed to be the answer, and consequently several appeals were made via the B.C.G. Newsletter and by personal contact for examples of recording paraphernalia.

The following is a slightly edited version of the replies to this appeal. At this point I would like to thank all museums and staff who took pains to answer yet another B.C.G. request for information, and express apologies to those who I didn't chase up for one reason or another. The results seem to represent a fair cross section of museums, both geographical and functional, and I hope this review will provide further ideas for some, inspiration for others, and interesting browsing to most of us.



BUCKINGHAMSHIRE COUNTY COUNCIL



Miss J. Royston (AYBCM) writes "Herewith a copy of the quarto cards used at AYBCM to record individual sightings of species. Any list of species from a site is filed separately under the site and not cross referenced yet."

```
CARD 2
  BADGER (Melek meles)
                 Cub, Short Heath farm JR)
 . 26.1<del>81</del>1970
                nr Addington (Exhib 1905)
> 25 iii 1971 Eythrope road. Seen at bend of road below Nursery spinney (AW)
  26 iii 1971 Waddesdon cross roads(Teacher)
     iii 1971 Abundant all along border of Ashrodge estate (Jil)
 7 iv 1971 Chartridge Lane- wood near 136 (E Humphreys)
                 138 Chartridge Lane (CDNHS Wendover SP 883067 (Arch map) & & Hardwick (BCM 85.10)
  3 iv 1971
     ix 1946
24 ii 1910
                 Spinney N of concord wood. Sett (BCM 137.46)
          1946
√26 i 1971
                 Bledlow Ridge SP 76 99 circa (day book)
                 Hawridge common (day book)
  5 v 1971
18 vi 1971
                 Speen (day book)
                 High Wycombe (day book)
  28 vi 1971
 28 vi 1971
18 x 1971
                 Chinnot Hill (day book
                 Aston Abbotts (day book)
Licence to hunt in N Bucks (WB)
         1292
         1925
1971
                 Creslow (WB)
                 SP 769179 Sett in covert. 5 young in 1971 (Mr. Feckett, 5000)
                 SP 797203 circa POssible sett (Mr Beckett, 5000)
          1971
                 Sett facing SW on cultivation terr ces SP 749137 in use (CNG)
          1971
                 SP 879109 sett about here (JG)
          1971
                 904118
          1971
  13 vi 1972 Ilmer - sent to Killingley (Via telephone SC)
  see The Grebe 1971-2
                 Amersham hill (CDNHS)
  11 vi 1972
 end July 1972 Near Latimer (CDNHS)
                 SP 774165 on A 41 at Fleet Marston (report)
 -30 ix 1972
 30 ix 1972
                 SP 723123 on Cuddington to Lower Winchendon Rd (report,
                 2 v big setts at Shenley (GH)
 /3 xi 1971
                 Marlow Su 855888 (day book)
  5 xi 1972
                 Aston Clinton (day book)
 30 xii 1971 Stoke Mandeville (day book)
10 vi 1972 Crows nest, Tring Hill (day book)
24 viii 1972 Grendon Rd, Ickford (day book)
                 Fleet Marston (day book)
  29 ix 1972
  \cdot 2 \times 1972
                 Cuddinton - L Winchendon Rd (day book)
   7 March 1973 SP 718348 (day book)
 21 May 1974 A413 Boswell.
                                    (Day book)
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City of Brutol Museum & Art Gallery

Robert Butler (Supervisor, Bristol Regional Environmental Records Centre) enclosed samples of home produced cards, and a very useful information sheet (reproduced here) on the function and activities of the B.R.E.R.C. In addition to these locally orientated species cards, Bristol also uses standard BRC species cards. Robert Butler adds "The Flora of Avon species list was produced by an Avon County Council MSC survey scheme. We are currently using it, but will shortly be extensively revising it."

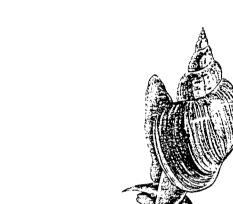
Flora of Avon species list	Site Name:	lebry Wa	men	Site No: 04-10
Date & Source 27 · 4 · 82	MUSEM Gid-Ref. &	Man No: Parish/D		Vice County:
Habitats: Linustr	ne Grasland + Iron	Be exempored	+ modern	waren
Abies alba	Amaranth caudatu	Aster tripolium		agnal Carex polyr
Abies grandis	Amelanch laevis	Astragal danicus		llgaris Carex pseudo
Abies procera Acer campestre	Ammophila arenar Anacampt pyramid	Astragal glycyph Athyri felix-fem		ustris Carex pul pium Carex re
Acer platanoides	Anagal aven/aven	Atriplex glabrius	. •	ldane Carex r
Acer pseudoplata	Anagal aven/foem	Atriplex hastata	· · · · · ·	sativa Carex ro
Achillea millefo	Anagalis minima	Atriplex patula		omera Carex ser
Achillea ptarmic	Anagalis tenella	Atropa bell donn	•	oatula Carex str
Acinos arvensis	Anemone nemorosa	Avena fatua	•	tundi Carex sylv
Aconitum napellu	Angelic sylvestr	Avena ludviciana	•	rachel Carex ves
Acorus calamus	Anisanth madrite Anisanth sterili	BALDELLI ranuncu Ballot nigr/foet		sativa Carex vu 1rs-pa Carlina vu
Adonis annua Adoxa moschateli	Anisanth sterili Antennar dioica	Barbarea interme	•	ırs-pa Carlina vu ımara Carpinus be
Aegopodi podagra	Anthemis arvensi	Barbarea stricta	and the second second second	exuos Carpobro e
lesculus carnea	Anthemis cotula	Barbarea verna		irsuta- Carum
Aesculus hippoca	Anthemis tinctor	Barbarea vulgari		patie Castanea
ethusa cynapium	Anthoxan odoratu	Bellis perennis	-Cardamin pı	atens Catabros aq
Agrimon eupatori	Anthrisc caucali	Berberis vulgari		draba Catapodi mar
Igrimoni procera	Anthrisc cerefol	Berteroa incana		nthoi Catapodi rig
gropyro caninum	Anthrisic sylvest	Berula erecta		utans Caucalis I
gropyro junceif	Anthylli vulnera	Beta vulgaris		nuiflo Caucalis pl
gropyro maritim	Antirrhi majus	Betonica officin		acuta Centaure cy formi Centaurea
Agropyro pungens Agropyro repens	Antirrhi orontum Apera spicata	Betula pendula Bidens cernua		enaria Centaure
Agropyro repens Agrostem githago	Aphanes arvensis	Bidens frondosa		nervis Centaure so
Agrost cani/cani	Aphanes microcar	Bidens tripartit		illaris Centauri er
Agrost cani/mont	Apium graveolens	Bilderdy convolv	•	phyll Centauri pu
Agrosti gigantea	Apium inundatum	Blackston perfol	Carex de	missa Centrant
Agrostis setacea	Apium nodiflorum	Blechnum spicant	Carex depau	
Agrostis stoloni	Aquilegi vulgari	Blysmus compress		andra Cephalan lo
Agrostis tenius	Arabidop thalian	Borago officinal		gitata Cerastiu ar istans Cerastiu di
Aira caryophylle Aira praecox	Arabis hirsuta Arabis stricta	Botrychi lunaria Brachipod pinnat		istans Cerastiu di sticha Cerastiu fo r
Ajuga reptans	Arctium lappa	Brachipod sylvati		divisa Cerastiu glo
Alchemil vulagg	Arctium minus	Brassica napus		ivulsa Cerastiu pun
Alchemil glabra	Arctium tormento	Brassica rapa		inata Cerastiu ser
Alchemi i vestita	Arenaria leptocl	Briza media	Carex	elata Cerastiu tor
Alchemil xanthoc	Arenaria serpyl	Bromus commutatu		tensa Ceratoph der
disma lanceolat	Armeria maritima	Bromus lepidus		f lacea Ceratoph sub
disma plant-aqu	Armoraci rustica	Bromus mollis	Carex	flava Ceterach of
Illiaria petiola	Arnoseri minima	Bromus racemosus		ormis Chaenorh r
Alium oleraceum Alium sphaeroce	Arrhenan elatius Artemesi absinth	Bromus secalinu Bromus thomini	Carex hos	hirta Chaeroph ten stiana Chamaecy lav
Allium sphaeroce	Artemesi maritim	Bryonia cretica		imilis Chamaecy leg
dlium vincale	Artemesi vulgari	Buddleja davidii		vigata Chamaeme n
Alnus glutinosa	Arum italicum	Bupleuru rotundi		ocarp Cheirant
Inus incana	Arum maculatum	Bupleuru tenuiss	-	ntana Chelidon i
Alnus viridis	Asparagu officin	Butomus umbellat		ricata Chenopod a
Mopecur bulbosu	Asperugo procumb	Buxus sempervire	Carex	nigra Chenopod box
Alopecur genicul	Asperula arvensi	CAKILE maritima		rubae Chenopod m
Alopecur myosuro	Asperula cynanch	Calamagr epigejo	* · · · · · · · · · · · · · · · · · ·	ovalis Chenopod po
Mopecur pratens	Asplenium adiant	Calamint nepeta		scens Chenopod ru
Althaea hirsuta	Asplenium marinu	Calamint sylvati Callitri interme		nicea Chenopod vi culata Chrysant seg
Althaea officina Althaea rosea	Asplen ruta-mura Asplenium tricho	Callitri interme Callitri obtusan	-	culata Chrysant seg ndula Chrysosp a
Alyssum alyssoid	Aster novi-belgi	Callitri platyca	_	ilifera Chrysosp or
ary south aly sould	Alator Hote-origi	cumini piatyca	Cater bin	inora City sosp Op

WHAT YOU CAN DO

It is not the policy of the centre to replace the existing system of data flow based on local and national recorders feeding information directly to specialist societies and the National Biological Records Centre, but rather to fill the gaps which exist in the data-gathering system and to provide a permanent archive for individual and society natural history records and official surveys.

For individuals and groups who are keen to contribute biological records, there are projects run by the centre (see B.R.E.R.C. newsletters) for which recording cards will be made available alternatively, individuals and groups are encouraged to record for any species or sites in which they are interested. The centre will be glad to advise on surveying methods and to provide specimen recording cards where required.

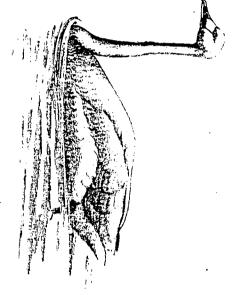




We can be contacted at:

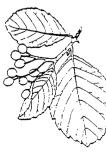
City of Bristol Museum & Art Gallery, Natural History Section, Queen's Road, Bristol BS8 1RL

Tel: (0272) 299771

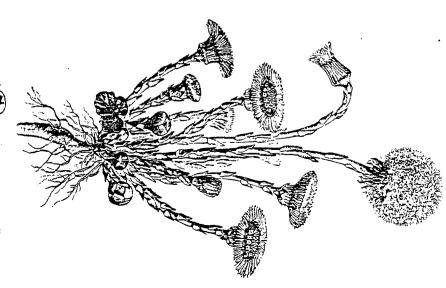


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March 1982



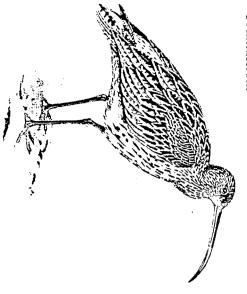
Bristol Regional Environmental Records Centre



City of Bristol (Muzeum & Art Gallery

WHAT IS B.R.E.R.C.?

- * It is the Bristol Regional Environmental Records Centre.
- for information on the status and distribution of plants and animals in the region.
- It aims to maintain and update a record of local sites of natural history and geological interest.
- It is a regional link with the National Biological Records Centre at Monkswood, Cambridgeshire.
- * It aims to act in an impartial manner concerning the collection and release of information (with necessary restrictions on sensitive data).
- It is maintained by the staff of the Natural History section of the City of Bristol Museum and Art Gallery and, currently, by staff employed on a Community Enterprise Project funded by the Manpower Services Commission.





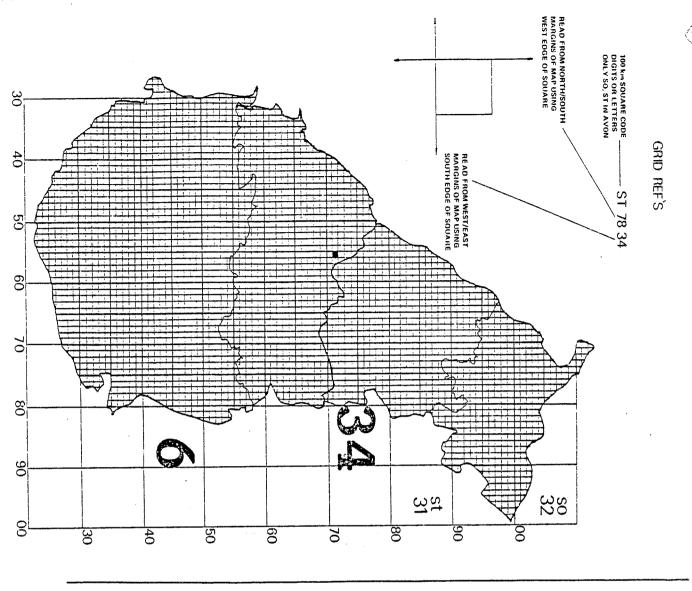
WHAT IS THE FUNCTION OF B.R.E.R.C.?

- * To provide a permanent archive for the deposition and management of natural history records which are based on field records, museum collections and published works amassed by individuals, societies and official surveys.
- * To encourage and co-ordinate biological recording by developing a liaison between individuals and organisations.
- * To co-operate with relevant bodies including the local wildlife trusts and planning departments with the aim of identifying sites of significance for conservation and education and to monitor threatened sites or species.
- To make available information for research.
- * To promote the publication of atlases, guides, surveys and scientific works to disseminate information and to promote a better understanding of wildlife in the region.

WHAT DOES B.R.E.R.C. DO?

- * Stores information on both cards and a computer which ensures the maximum use of the data through an extensive system of cross references.
- * Offers help and advice concerning collecting, recording and identifying flora and fauna.
- * Maintains a bibliography of the natural history of the region.
- * Encourages standardised recording in the region.
- * Preparcs information in response to enquiries.
- * Maintains a directory of local specialists and recorders.





ROYAL ALBERT MEMORIAL MUSEUM



Exeter

Kelvin Boot at Exeter Museum uses a home-produced 8" x 5" multi-record card, cross referenced to a site file. Species check-lists are used in a site file.

Species are mapped at the tetrad level, with at least two maps indicating distribution during the period 1950-1976, and more recent records.

Three sorts of hand-outs are provided to encourage the general public or naturalist to submit records

- a) a species recording form
- b) a habitat survey sheet for locality studies
- c) forms for special surveys

Grassland, Heath and Moorland

- 1. (a) Name and point locality of site
 - (b) National Grid Reference
 - (c) Name and address of recorder(s)
 - (d) Sketch map to indicate survey area as part of overall district

- (e) Date(s) of visits (with time of day)
- (f) Outstanding interest(s)
- (g) Land ownership/management, to include recent objectives and activity (approximately the last 50 years)
- 2. Description underline accordingly
 - (a) Grassland type; eg. open pasture, arable, grazing land, tall grasses (5' or more), short grasses (6"or less), bunch grasses in clumps, sod-formers with underground rhizomes, non-grassy herbs, woody plants, parkland, scrub, heather, gorse, open heath, moorland
 - (b) Margin; eg. abrupt, diffuse, continual grassland, fence or hedge, wall, water, etc.
 - (c) Soil; eg. acid, peat, alluvium, sand, loam, clay
 - (d) Adjacent land use; eg. scrub, arable, cultivated or rough pasture, marsh or fen, road, rail, river, quarry, seashore, clifftop, housing, industry, military, etc.
 - (e) Additional habitats and microhabitats; eg. ditch, banks, paths, rock outcrops, scree, boulders, marsh, pond, stream, river, lake, canal, buildings, isolated trees, dung-pats, etc.
 - (f) Comment on any features of particular geological interest

3. Natural History Status

Please tick the relevant groups being investigated, and add any comments as a footnote. Separate species can then be written on the relevant group species lists that are subsequently attached.

PLANT GROUPS ANIMAL GROUPS

TREES BIRDS

FLOWERS MAMMALS

SHRUBS/GORSE/HEATHER ARTHROPODS (insects, etc.)

GRASSES

LICHEN REPTILES

FUNGAE AMPHIBIANS

ALGAE

FERNS WORMS

MOSSES MOLLUSCS (slugs, snails, etc.)

Comments

4. (a) Pollution Is there known or visible pollution? (State whether industrial or domestic, effluent or 'solid' - including tipping - the source if known, and whether pollution is permanent or occasional).

(b) Amenity ie. recreational use of the area; eg. nature trails, picnicing, camping, angling, swimming, boating, organised sport, casual use by children. If such use is made by an organised club, please give the name if known.

Further Comments

Biological Field Databank

GROUP:

Group Species Record Sheet

- 1. (a) Name and point locality of survey site:
 - (b) National Grid Reference:
 - (c) Name and address of recorder:

		();
	SPECIES DETAILS	(continue overleaf)
Date	Species name	Comments; eg. very common, common, rare, stage of development, sex, interesting points of behaviour, whether feeding, etc.
	·	

NORTH HERTFORDSHIRE DISTRICT COUNCIL

MUSEUMS SERVICES

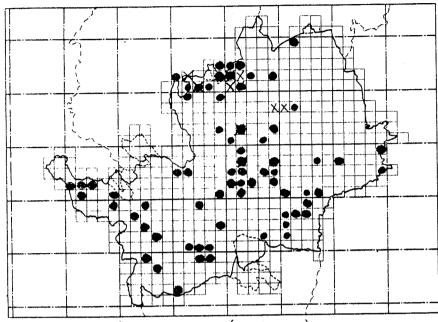
Brian Sawford (North Herts.) writes "I enclose photocopies indicating the system that we operate. This scheme has been found to be very easy to use, both by ourselves and the various researchers, recorders, etc. that make and take data.

Most data are post-1974 (when the biological data bank was set up), although some earlier records are annotated either by open circles or crosses. We have established a biological recording forum for Hertfordshire that facilitates close contacts with County recorders and national networks, and ensures positive data movement. For some groups we act as County recorders and for others we receive duplicate records. In conjunction with the species distribution we also maintain biological and geological sites files for northern Hertfordshire, which contain a mixture of standard species record cards, maps, photographs, etc.

For vascular plants you will note that two maps are used, the smaller has been taken from the extant County Flora, and the larger indicates post-Flora records on a 2x2 Km basis. This facilitates our work as BSBI vice county recorders. Using such integrated data we also have established habitat assessment regimes for relatively rapid evaluation of sites in conjunction with various planning and conservation requirements.

Polygonia c-album

Norton Common (1922) - Ray Palmer Hine (2 records from Letchworth, I from nc. William (1953). R. Edwards 'prior to 1838 abundant in Heats' ... Illustrations of But. Eutomology - I.H. Stephens. nr. 4:tchin (21/9/21) - N. T. Easton Jour. LNHS (2). Baldock Rd, Lethworth (-19135) ". Lethworth (61747)-S. Bourdan, T. LNHS (T). Knebworth (27/147) .. Mr. Wellem (1945) Rau. W. Greenham THAHS XXII (A) Pirton (1971) C. Burton THAHS 27(4) (TL 13/K) TL 21/I Welwyn. 1945. R. Ferry. TL 22/G Knebworth Woods. 1946 R. Ferry. TL23/L.B Ddock 23/8/76. B.D. Sawford Th 13/0 Oughton Head, 20/6/76. W.O. Morris The 12/W By Hitch Wood, 30.6.76 T. James. TL 13/0 Oughton Head, 19 9.75 T.J. Th 31/T Cold Christmas 1.8.76 T.J. Th 30/C Home Farm, Newyate St. 1972, T.J. Th 30/B Cuffley occasional 1970+ 7. J. TL 13/F. Distan (1976). C. Burton TL 23 B. Letchworth (1976) B.R. Sawford. TL 21/X Branfield Park Wood. 24.4.77. T. James. Th. 22/Q. Astonibury Wood (1974) Tombine & Bertran Th 22/0. Actorbains (1977). Tousking a Buston TL 21/C Dowdello Wood, 15/4/79 T. Vames. TL23/B. Norton Common Hull 80. BRS. Th 30 I Broxbourne Woods, 21/7/21. CM Taxes.



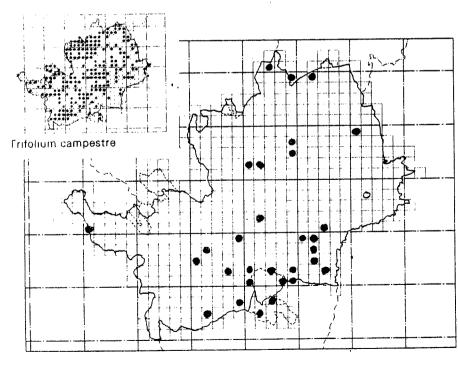
TL 31/K Hertford Heath 29.8.77. T.J. (+ Balls Wood).

Th 22/A Graffings Wood. 4.9.77. T.J.
Th 32/I Watering place Green. 20.11.1977 TJ.

TLIS K. Pirton, several (25/5/77). C. Burton. TLIZ/T leknide way in Telegraph Hill (198/79). BRS.

Triolkin Radiot (1970) B. Wildridge TRIO/PU Radiot)

Thioff. Brichet Wood (1979). B. Wildridge.



Trifolium campestre. 192.21

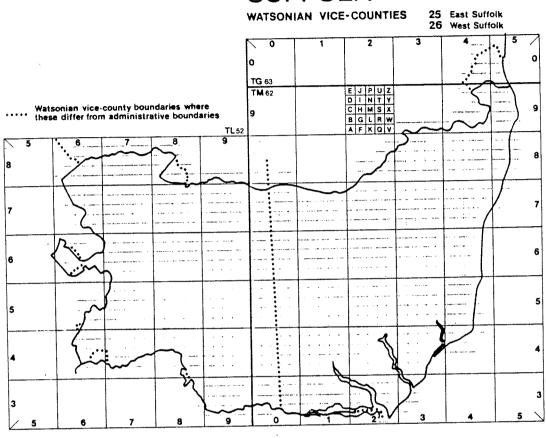
(1674). J. Killick. TL30/E TL 23/Z Slive Banck, Ashvell. 11.9.77 T.J. Tr 33 7. Hitches Valley (27/7/78) BRS/TJ The 42/E green lane, E. of Spanksfield. 1/7/79. TS. TL 24 K. Ashwell Sawage Fam 25/7/79 TJ. Th 31/K. Balls Wood 1978/9. P. Maddox. Th Hill. Hadham Towers (1953-1970). J. Fielding

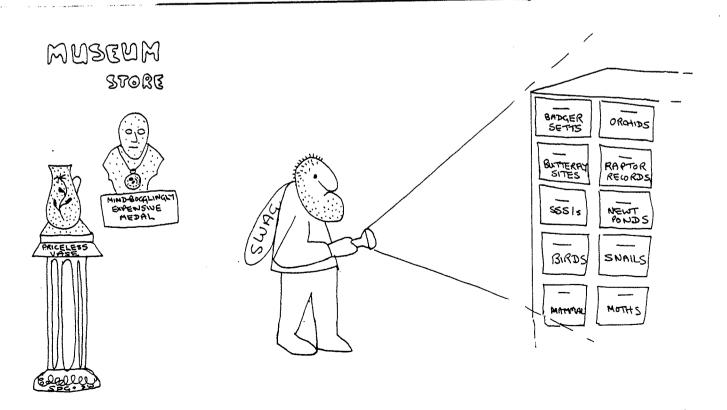


BOROUGH OF IPSWICH

Howard Mendel (Ipswich Museum) and the S.B.R.C. use B.R.C. GEN 7° s in conjunction with the home-produced distribution map card.

SUFFOLK







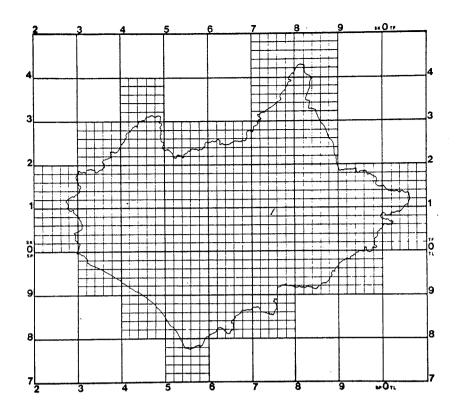


Museums, Art Galleries & Records Service.

Donald Hall-Smith (Leicestershire Museums) sent the following completed examples of their Sighting Card, Species Record Card and Species Map Card together with general information on the Leicestershire Lepidoptera Recording Scheme.

	Leicestershire Biological Records Centre SIGHTING CARD Locality (including parish, if known) Towaes 472, STANGEY ST, ME4TON MOWA	Sequential Number Acquisition Number Z 68./982. / 263
Order	Map Reference S K 7 5 3 I 9 3 Name Mr. W. Tow4 & L Tow4 & <	Date/s 29-3-1982 Phone 92-213555-
	SPECIES SEEN - Enter only one species on each line Tineola bisselliella (Eng. N= 2407-1482)	5+1= 2 3 (c.
		MA 56

1980;



	e	Source	78-9								M.45.
	DEC 156		U								
No. 3	14805	Reported by	Mr. W. Towle								
	Clothes	Date	29-3-1982								
1,10 & bissorty Hus	Common name <u>common</u>	Locality	Queen st. Melton Moubray								
Genus Species Authority	Comm	Map Ref.	5K 753/93								

BUTTERFLIES AND MOTHS IN LEICESTERSHIRE

LEICESTERSHIRE LEPIDOPTERA RECORDING SCHEME

The last published account of Leicestershire butterflies and moths (lepidoptera) was the Victoria History of the County of Leicester (1907) (V.C.H.). Leicestershire has changed a lot since then, particularly in the way the land is used and managed. As a result some of the species recorded in 1907 can no longer be found in the county; others not in the V.C.H. have been recorded recently.

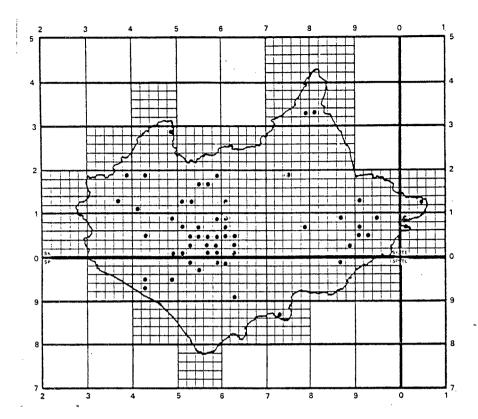
In 1954, H.A. Buckler brought together many of the records from the 1930s and 1940s and compared them with the V.C.H. listings. Changes had already taken place. About 90 of the species on the 1907 list had not been recorded subsequently, but nearly 40 new species had been added. However, it must be remembered that when both lists were compiled only a small number of people were observing and recording lepidoptera so only certain areas of the county were covered.

At the national level, recording since 1964 has been coordinated by the Biological Records Centre at Monks Wood Experimental Station in Cambridgeshire. The system which they use is based on the 10 kilometre squares (squares with sides of 10 kilometres) of the Ordnance Survey National Grid. Data for the butterflies and some of the moths have already been published. in the form of distribution maps. These maps reveal a lack of information for parts of Leicestershire, even for the most common species.

10km square distribution maps are not sufficiently precise to provide the more detailed information required by people interested in studying and conserving lepidoptera in Leicestershire. To supply this more precise information the Leicestershire Lepidoptera Recording Scheme was established at the Museum in 1977. This scheme is based on 'tetrad' distribution maps. A tetrad is the area enclosed by a 2km x 2 km square (i.e. FOUR square kilometres), thus every 10 km square is divided into 25 tetrads. There are 41 10 km squares which contain 713 tetrads wholly or partly within our county.

The tetrad distribution map for the elephant hawk-moth <u>Deilephila elpenor</u> is shown overpage. The larvae (caterpillars) of this moth feed on willow herb and other common plants. Food is therefore abundant throughout the county and one would expect a corresponding county-wide distribution of moths. However the distribution shown on the map indicates the main concentration in the city and its suburbs. Is this really what happens or are city dwellers more observant and curious than people who live out in the county?

Tetrad distribution map for the elephant hawk-moth in Leicestershire. A dot is put in each tetrad for which at least one record has been received.



So far we have received records of 46 species which were not recorded in either the V.C.H. or the Buckler list; even so records from some parts of the county are few or non-existent.

To be successful the Leicestershire Lepidoptera Recording Scheme requires field workers, recorders and a coordinator.

The field workers range from casual observers who bring specimens to the Museum for identification or only note butterflies which they see in their gardens to dedicated amateurs who are happy to sit all night with a generator-powered light, catching moths, at some remote spot in the county.

The recorders collate the information received from the field workers and then mark up the maps. Previous knowledge of Lepidoptera is not essential.

The scheme is being coordinated by an Assistant Keeper in the Biology Section at the New Walk Museum, Lt. Col. Donald Hall-Smith.

We need your help with this scheme.

If you are a Lepidopterist may we have access to your records?

If you are interested and you live in a poorly recorded part of the county then let us know about any Lepidoptera which you see and can positively identify - such as butterflies in your garden.

If you would like to help us with the work of transferring and mapping records then come to the Museum for an hour or two and give us a hand.

Anyone who would like to help in any way should contact Donald Hall-Smith at the New Walk Museum or by phone: Leicester 554100 Ext.288.

LEICESTERSHIRE LEPIDOPTERA RECORDING SCHEME

Notes for Observers

The information needed from observers for any sighting is as follows.

Name of locality, including the parish if known

The name of the parish is required for the main record cards. If it is known to the observer and entered on the sighting card this will help the recorder who transfers the information from the sighting card to the main record cards.

Map reference

A six figure map reference should be given if possible. A four figure reference is the minimum requirement to enable the appropriate tetrad to be identified. Advice on how to work out map references is given on a separate sheet. If the sighting is in your garden and you do not have a map from which to obtain the map reference please enter the full postal address in the Locality box.

Date(s) of sighting(s)

A periodic list for one locality covering any length of time during a calendar year is just as useful as separate lists for each date of sighting during that year. When a periodic list is prepared in subsequent years it is helpful if species not seen in previous years are marked, may be with *. The distribution maps are initiated at 10 yearly intervals therefore when lists which cover more than one year are prepared it will be helpful if sightings during different decades are kept separate e.g. 1 Jan 1970 to 31 Dec 1979, 1 Jan 1980 to 31 Dec 1989.

Name and address of the observer. Telephone number if on the phone.

List of species seen.

The scientific names used for the scheme are those given in "A Check List of British Insects, Part 2: Lepidoptera", 1972, by Kloet and Hincks. The English names used are those given in "Butterflies of the British Isles" by R. South and the two volumes of "Moths of the British Isles" by R. South. Both scientific and English names are shown in "A Recorders Log Book or Label List of British Butterflies and Moths" by J.D. Bradley and D.S. Fletcher, 1979, published by Curwen Books. It costs about £2.00.

The main record cards and dot maps are filed in alphabetical order by genus and also alphabetically by species within genera. Whenever possible lists of species should be in alphabetical order, preferably by scientific names but lists of English names can be used.

A specimen of the Sighting Cards which are available to observers is attached. Would observers who are working in the Biological Records Centre scheme please let us have their B.R.C. cards to copy before they send them to the B.R.C.

LEICESTERSHIRE LEPIDOPTERA RECORDING SCHEME

Notes for Recorders

(Revised June 1981)

Main record cards are divided into butterflies (rhopalocera), the larger moths (macro heterocera) and the smaller moths (micro heterocera).

Main record cards and tetrad maps are filed in the above three groups in alphabetical order by genus and also alphabetically by species within genera.

The publications etc. which it may be necessary to use

The BRC RA8 Master Card and supplementary card

NOTE The smaller moths are not on these cards

A BRC RA8 record card which has been annotated and amended. When a main record card and tetrad map have been prepared for a species the appropriate mark is put against the species number on this card. Where necessary the names have been altered to agree with current usage.

A species not on the BRC RAS Master Card is entered on the supplementary card when a main record card and a tetrad map for it have been prepared. They are in BRC numerical order.

The smaller moths Master Card

This shows the smaller moths, with B & F number, for which main record cards and tetrad maps have been prepared.

BRC Indices of English Names and Scientific Names

This consists of the following alphabetically arranged lists:English names with scientific names and BRC code numbers for
Butterflies
The larger moths

Scientific names with BRC code numbers for The larger moths

Bradley & Fletcher (B & F) = "A Recorder's Log Book or Label List, 1979"

This is a systematic list of the current scientific names of all the British Lepidoptera and the commonly used English names. There have been some amendments to the Kloet & Hincks names.

Kloet & Hincks = "A Check List of British Insects, Part 2: Lepidoptera",
1972 by Kloet & Hincks.

This is a list of the scientific names of the British Lepidoptera arranged in systematic order and includes synonyms.

Gazetteer of Leicestershire

This contains alphabetical list of place names, parishes and districts and their map references.

Maps, Ordnance Survey 1:50,000, Sheets 128, 129, 139, 140 and 141. Street map of Leicester, 4 inches to 1 mile (1:15,840)

RECORDING PROCEDURE

To enable the name used on the sighting card to be connected with the correct main record card it is necessary to allocate the appropriate BRC or B & F number to it. This number is then found on the applicable Master card (if not already done, the appropriate mark is put on the Master Card) and the name shown is then selected from the main record card and tetrad map file.

The appropriate entries are made on the main record card.

The tetrad map card is to be marked by putting a number in the appropriate tetrad and this number is entered below the map reference in the Map Ref. box on the main record card and ringed thus 5. The numbers are to run sequentially from 1. If subsequent records are received for an already numbered tetrad the original number is to be used for them also.

When the necessary entries have been made on the main record card and the tetrad map card, a red mark is put against the name on the sighting card. When all of the species reported on the sighting card have been dealt with there will be a red mark against each name, the sighting card sequential number is then ringed with red.

Finally the map showing all tetrads from which records have been received is to be marked.

A "Recorder's Flowchart" is available.

D.H. Hall-Smith June 1981

LEICESTERSHIRE LEPIDOPTERA RECORDING SCHEME

Initial preparation of cards for each species

A. MAIN RECORD CARD

In the boxes at the top enter the following

Order - Lep.

Genus - Generic name

Species - Specific name

Authority - The approved abbreviation of the name of the author of the specific name

Common Name - The English name commonly used

Card Number - Sequential number from 1 and the decade below the number

Checklist Number - BRC number and below it B & F number. For the smaller moths there will only be the B & F number

With the top of the card moved to the left and the right margin now horizontal at the top; at the top left enter the Genus, Species, B & F number and BRC number (B & F number only for the smaller moths).

B. TETRAD MAP CARDS

Along the top edge enter Genus, Species, B & F number and BRC number (B & F number only for the smaller moths).

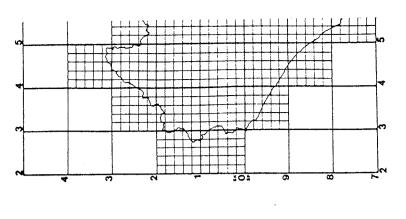
Below 'Leicestershire' enter the decade, e.g. 1980s.

Genus, Species, Che Aglais urti	cae	umbe B8	15	93	BRC	2
number 593	Source					
Check list number BRC 2 B&F 1593						
Card No. 1	Reported by					
seshell	Date		-			
Aglais urticae Linn. Small Tortoiseshell	Locality					
GenusSpeciesAuthorityCommon name	3					
	Map Ref.					
Order Lep.	Мар					

Aglais urticae B&F 1593 BRC 2

Leicestershire

1980s

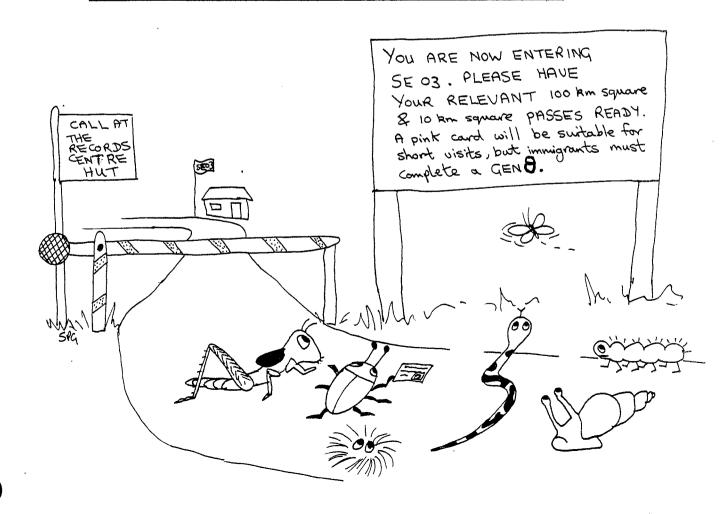


Hereford Pity Museums

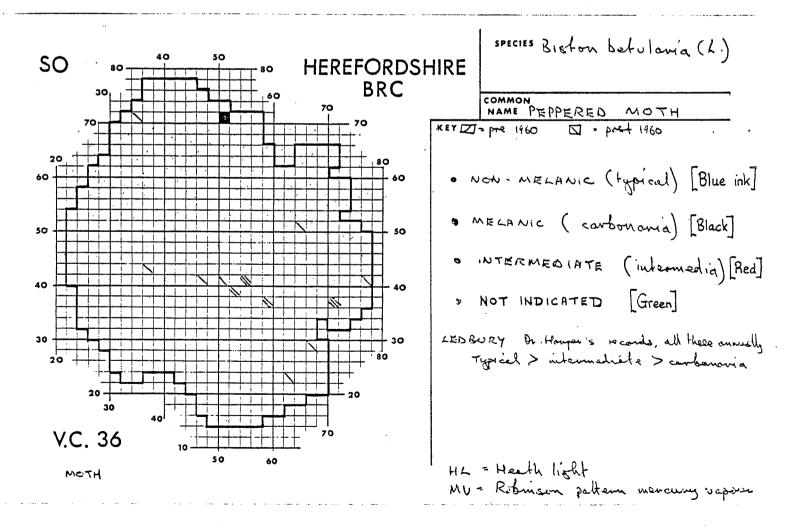
Jonathan Cooter from Hereford City Museums sent a sample card for the Herefordshire lepidoptera scheme, using different coloured inks for records of the different forms of the Peppered Moth. (I have annotated the black and white photocopy for those who are interested B = Blue Bk = Black R = Red G = Green - ed.). Jonathan writes "This is typical of the lepidoptera, but of course the different colours used with this species are unique. As yet we have not searched the literature but see a few problems in this - it was (from 1874 to about the 1940's) the done thing to record by Parish (in which case we record the ref. for the church) or by "Woolhope Divisions" - a device used by the Woolhope Naturalists Field Club, mainly for plants. Any 10km sq. records are noted and the square shaded in lightly with lead pencil. For very common species - small tortoiseshell, "whites" etc., we assume they occur throughout the 10km sq. and leave it at that, but note the locality, of course.

At present the lepidoptera records we have amassed reflect the areas in which Dr. Harper and Dr. Miles live, plus a few extras, mostly made up of "night ops" that Dr. Harper and I have made. At present Dr. Harper is getting ten years intensive recording of micros into an order that others, apart from himself, can understand. These will then be added to our BRC cards.

We concentrate on insects — birds have been recorded for years by the Ornithological Club, plants by the Bot. Soc. and I see no point, other than centralising records, for duplicating these groups. We have access to each other's records.



S.	SPECIES BISHOW B	butuloma (h.)	HEREFORDSHIRE	HIRE BRC
			۷.۷	V.C. 36
00	COMMON NAME PEP	PEPPERED MOTH	STATUS RES	RESIDENT
	GRID REF.	HABITAT/LOCALITY	RECORDER	DATE
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	76.40 B.	Brilish Comp 30 HL	M. Horper	21.04.1972
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	66 · 28 B.		M. Houper	18.11.1972
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Merseyside County Council

John Edmondson (Dept. of Botany) sent an example of a "home-produced" species card for flowering plants and ferns.

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Clem Fisher and Cliff Bradley (Dept. of Vertebrate Zoology) sent the following summary of vertebrate recording activities in the north-west.

Biological Recording in the NW of England

Mammals -

Publication in Mammal Review of the first set of provisional distribution maps for British mammals (Corbet 1971) showed that a great deal remained to be learned about even the most common species. It was at this time that the Department of Vertebrate Zoology, MERSEYSIDE COUNTY MUSEUMS was asked by the Nature Conservancy Council to accept responsibility for mammal recording in the northwestern region of the country; essentially vice-counties 58, 59 and 60. Since then a network of contributors has been built up, including many amateur naturalists, who regularly forward records and sometimes specimens to the Museum.

Each record received by the Museum is entered on two (old style) Biological Records Centre computer cards, one to the filed in a species index and the other in a geographical index. The record is then added to the appropriate distribution maps, of which there are five for each species. One map shows the total recorded distribution of the species in Merseyside, Lancashire, Cheshire and Greater Manchester on a 2km² grid. Three further maps break this information down by date class for the periods pre 1970, 1970-1979 and 1980 onwards. A fifth map records the data on a 10km² basis. New 10km² records are forwarded to the Biological Records Centre at regular intervals, for incorporation into the national data bank.

During the past two years, helped by a Manpower Services Commission Scheme, it has been possible to extend this project to include a review of the literature for older records, and fieldwork within Merseyside to investigate previously under recorded areas. As a result the distribution maps now give a truer picture of species' occurrence, where previously they perhaps revealed more about the distribution of recorders (and of their favourite hostelries).

Freshwater fish -

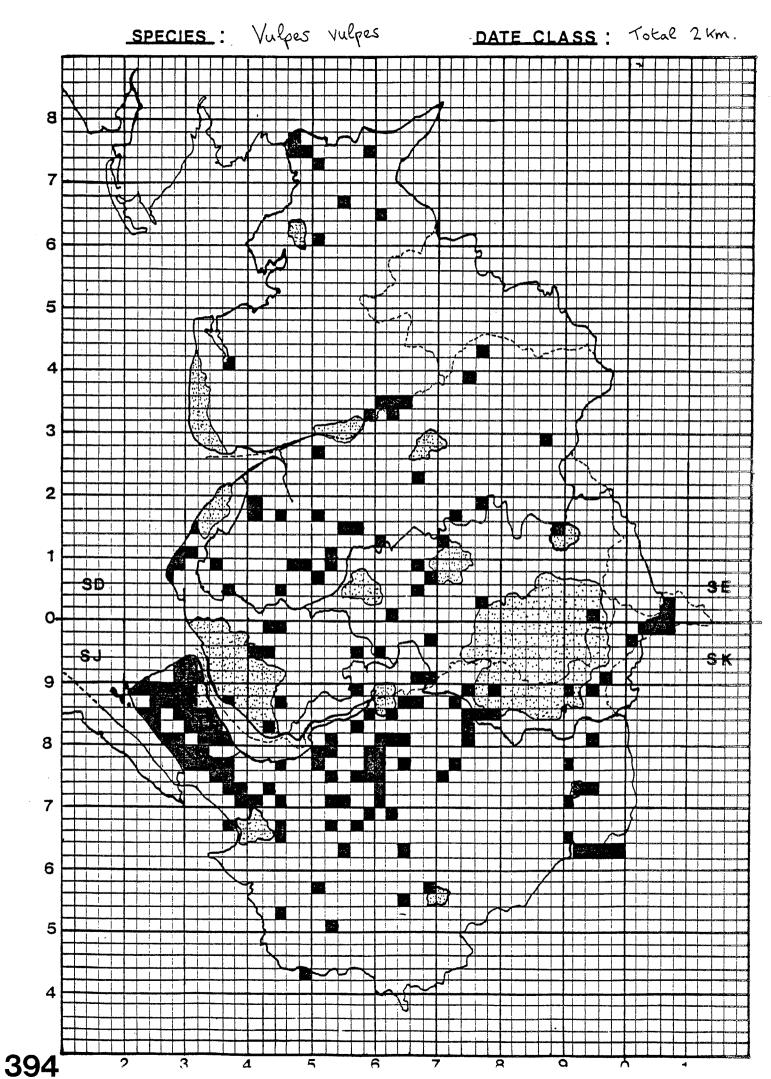
Biological recording in the N.W. of England was extended in April 1981 with the introduction of a scheme to document the distribution of freshwater fish in Merseyside. A great deal of information has since been obtained by circulating a questionnaire to the secretaries of local angling clubs and this data is currently being supplemented by walking river and canal banks to discover what anglers are catching. Knowledge of the smaller species which are of little interest to most anglers is proving more difficult to acquire and a need for additional fieldwork by Museum staff is clearly evident.

Each record obtained is entered on a (new style) BRC computer card, which is field in a species index, and plotted on 1km and 10km distribution maps.

The task of processing incoming mammal and fish records is largely a matter of routine and presents few difficulties apart from the time which it consumes. Here again, the Museum benefits from the participation of Manpower Services Commission personnel. The chief problem is in contacting people who are willing and competent to contribute to the schemes and in maintaining their interest once this has been stimulated. Recorders are most easily recruited by personal contact so that a considerable amount of public relations work is involved. This approach has now been supplemented by preparing a travelling exhibition on biological recording which can be lent to Country Parks, schools and other centres of interest in the northwest. We have plans also to advertise our activities through the publications of local natural history societies and the regional news media.

HG S	ORDER NO. SPECIES NO. GENUS & SPECIES	SUB-SPECIES etcs	
* 7	Sorex o	caneus	
	GRIG REFERENCE VICE COUNTRY LOC	ALITY	TITUDE:
_ ***	25-32		-57
, .	5 3 8 9 6 7 33-35 5 9 35		m
	HABITAE DAT		C_NO
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	[2]	6 0 8 1 9 8 2 Survey Team	
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MERSEYSIDE COUNTY MUSEUMS



Name and address of observer:	Mamm Mer	Mammal Recording Scheme: Lancs and Cheshire Species Index. Tetrad in Merseyside & Gt. Manchester. Tetrad Card . 10k master												
	Count			Year(s		10k.	map	. R ew R	ed ca ecord	rd.				
	Speci	e s:				For (J1110	cial	Use.					
Locality and Habitat	Vice County	Date	No.	Nature of Record	Remarks	Grid Ref . 100 East North								
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Please return to: C. T. FISHER, VERTEBRATE ZOOLOGY DEPT., MERSEYSIDE COUNTY MUSEUMS, WILLIAM BROWN STREET, LIVERPOOL, L3 8EN.

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North Wales

New.

Joan Morgan (University College of North Wales) writes "I enclose two examples of one species recording cards. Virtually every specimen from North Wales in our collection is recorded on card, so that these have accumulated to an impressive number over the years and are of increasing value (ref. Biology Curators Group Newsletter Vol.2 No.8 p.372).

SPECIES CHRYSOPA CILIATA	DATE: 5.10.69
	TYPE REF:
OCALITY: Llyn-y-parc, ALTITUDE	650'
ORID REF. SH 79 58	
NATURE OF HABITAT: beater for willow	
REPRODUCTIVE DATA: Several Carrae Cost	ed with debris.
1 presented 9.10.69. Adult.	emapod 25.10.70
NOTES ON SIZE ABUNDANCE, Etc. Several Des	Q
)	41 - 41
OBSERVER:	M.J. Mongoch
SPECIES (TAENIOCAMPA) MUNDA	DATE: 7.4.1860
	TYPE REF:
Twinspot Quaken	
THEY THOSTOR	-
Flinti.	
GRID REF.	
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GRID REF. NATURE OF HABITAT:	
GRID REF. NATURE OF HABITAT: REPRODUCTIVE DATA:	

Oxfordshire County Council



John Campbell (Oxfordshire) writes "Records normally come in on the B.R.C. species cards. We do have a casual slip (below) for odd records. We have kept it as simple as possible, no altitude etc."

Species			
Grid Ref.			
Date			

Comments and place.

Name & Address of Observer

OCC Dept. Museum Ser., Biological Recording Scheme, Woodstock, Oxford

Lichens

Where possible we show the substrate, also for bryophytes etc.

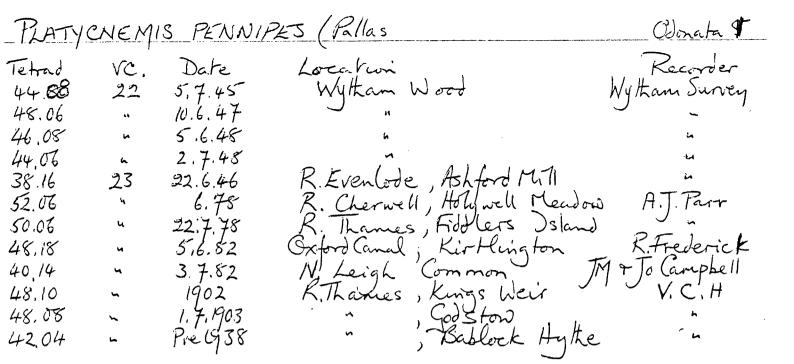
DERM	ATOCA	HRPON MIN	NIATUM (L) Mann	Lichens
Tetrad	VC	Date	Location and Substrates	Recorder
28.18	23	9,12.76	AsceH-n-Wychwood. Ashestos	Jm Campbell
36.08	**	27.7.76	Cogges Cotswold Slate	J
30,18	4	30.10.76	Ascett -u-Wychwood "	u
22,00	22	11.74	Little Faringdon.	HTM Sowen
26.10	23	12.9.78	Widford M.71	In Campbell.
4/1	ч	1968	Church Handborough	HTM Bowen In Campbell. HTM Bowen

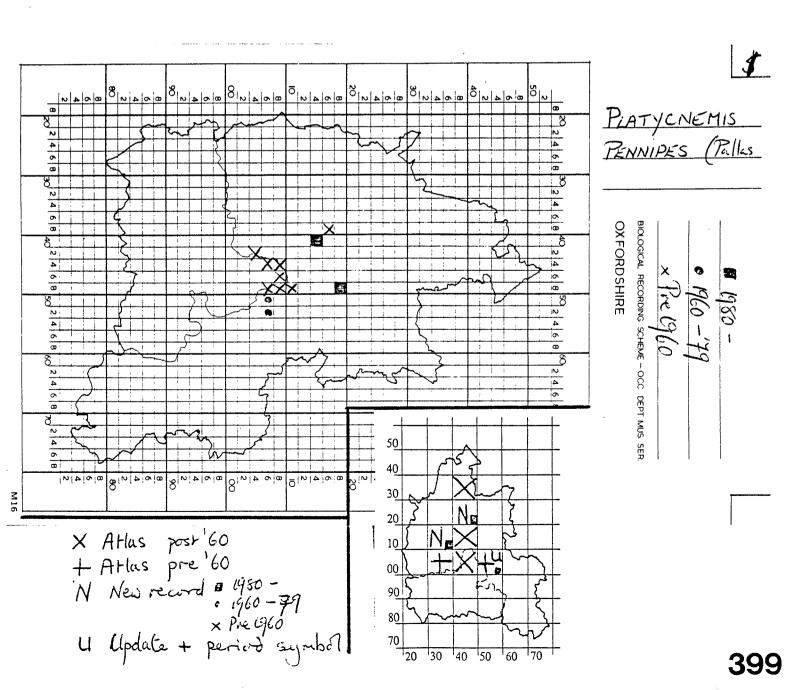
Mammals

The Nature of the record is given e.g. footprint, skull or whatever.

Odonata

This card shows the variety of sources, including the Victoria County History, Wytham Ecological Survey of Charles Elton, the Hope collections at the University Museum etc. On the reverse of the map there is the 10km. grid. Usually we stamp it on, but the clarity is not always that great. Where there is an atlas, the data is transferred so that new and updated records at the 10km. square level are easily apparent. Our tetrads are shown as four figures. I do not find any advantage in using a letter, and I am sure it would muddle many of our recorders.





ROTHERHAM METROPOLITAN BOROUGH COUNCIL

Recording Cards for Biological Records

Bill Ely, of Rotherham Museum, uses the B.R.C. record cards for his local data bank, using one set of cards (or more accurately, papers) for each site. He had also produced a number of cards for other groups, to a similar format to the B.R.C. ones but more basic. The following have been produced so far:-

Coleoptera - Histeroidea

Staphylinoidea (excluding Staphylinidae and Pselaphidae)
Staphylinidae I (subfamilies Micropeplinae to Steninae)
Staphylinidae II (subfamilies Euaesthetinae to Tachyporinae)

Pselaphidae and Scarabaeiformia

Dascilliformia Curculionoidea

Diptera -

Nematocera I (Psychodidae, Dixidae, Chaoboridae, Culicidae, Thaumaleidae, Ceratopogonidae, Simuliidae, Bibionidae and Scatopsidae).

Chironomidae Empididae

Dolichopodidae and Lonchopteridae

Pipunculidae and Conopidae

Siphonaptera

Hymenoptera - Symphyta.

Bill is willing to supply a sample of each of these cards on receipt of an s.a.e. (at least $9" \times 5"$). Please state which ones you require. If you do not have reprographic facilities then contact Bill to see if he can help.

Have you produced any recording forms which have improved or simplified your biological records? Can you make copies available to other curators? If so, Bill is willing to act as a clearing house for this information, or else burst into print yourself!

Coleoptera		XXX	pustulatus
		xxx Cytilus	sericeus
Dascilliformia		xxx Morychus	aeneus
		xxx Porcinolus	murinus
Dascillidae		xxx Simplocaria	maculosa
		ххх	semistriata
xxx Dascillus	cervinus	xxx Syncalypta	setigera
Clambidae		ххх	spinosa
xxx Calyptomerus	dubius	ххх	striatopunctata
xxx Clambus	armadillo	Psephenidae	
XXX	evae	xxx Eubria	palustris
xxx	nigrellus	Heteroceridae	
XXX	nigriclavis	xxx Heterocerus	fenestratus
xxx	pallidulus	ххх	flexnosns
ххх	pubescens	кхх	fossor
XXX	punctulus	ххх	fusculus
xxx	radula	ххх	hispidulus
Eucinetidae		xxx	marginatus
xxx Eucinetus	meridionalis	жж	maritimus
Scirtidae		ких	obsoletus
xxx Cyphon	coarctatus	Limnichidae	
XXX	hilaris	xxx Limnichus	pygmaeus
ххх	ochraceus	Dryopidae	
xxx	padi	xxx Dryops	anglicanus
ххх	palustris	жж	auriculatus
ххх	pragmiteticola	жж	ernesti
ххх	pubescens	xxx	griseus
ххх	punctipennis	ххх	luridus
xxx	variabilis	ххх	nitidulus
xxx Elodes	marginata	ххх	striatelius
ххх	minuta	xxx Helichus	substriatus
xxx Hydrocyphon	deflexicollis	Elmidae	
xxx Microcara	testacea	xxx Elmis	aenca
xxx Prionocyphon	serricornis	xxx Esolus	parallelepipedus
xxx Scirtes	hiemisphaericus	xxx Limnius	volckmari
XXX	orbicularis	xxx Macronychus	quadrituberculatus
Byrrhidae		xxx Normandia	nitens
xxx Byrrhus	arietinus	xxx Oulimnius	rivularis
xxx	fasciatus	xxx	troglodytes
XXX	pilula	XXX	tuberculatus

City of Sheffield



Museums Department

Sheffield City Museum has a flexible species index which can take cards of different sizes from various sources and integrate them into the same system. The main types used are:-

- 1. B.R.C. 80-column "pink" cards. Used for many years for individual records of vertebrates and invertebrates. They are very versatile, and can be filed in date order, species order, grid-reference order or any other required order and re-shuffled to suit immediate needs. The major disadvantage is the time required to enter several thousand records onto pink cards. We now use pink cards only for rarities, and special records where details of habitat and precise locations are required. Hence they are very useful for recording Badger setts (see example) and similar observations.
- 2. Several years ago, we changed to 8" x 5" multi-record filing cards which were found to be easier and quicker to enter, without too much loss of information. They can be photocopied for circulation to neighbouring recorders. At the same time, the twelve or so "Recorders" in the Zoology Section of the Sorby Nat. Hist. Society got their heads together and jointly designed an 8" x 5" card which is used for all zoological groups. It can be easily integrated into the museum's file (see example) either as a card or a photocopy.
- 3. More recently we have switched to A5 size cards produced by B.R.C. (GEN 7). They have the additional advantage of compatability with national recording schemes, and can be photocopied directly onto A4 card for sending to recorders. Duplicate M.D.A. NATURAL HISTORY SPECIMEN cards can be inserted into this file where relevant, thus integrating museum specimens with records.
- 4. Standard B.R.C. species check-lists are used for summarising records within a 10km. square, and entering data into the site files.
- 5. Most species are mapped at the $1 \, \mathrm{km}^2$ level, and maps are published quite as frequently.

For further information on zoological recording practices see

Whiteley D. (1978) "Vertebrate Recording Schemes at Sheffield Museum" $\underline{\text{B.C.G. Newsletter}}$ $\underline{\text{Vol. 1. no.9}}$ p.17-23 and

Garland S. P. and Whiteley D. (1980) "Local Invertebrate Recording Schemes at Sheffield Museum" B.C.G. Newsletter Vol.2. No.7 p.300-311

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Grid Reference	v c.	Collector/	Determiner	Locality		Date	Sex
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SK 187972 Midhope	Moor	1	Seen		3.4.1982	C.Marsden	
SK 164966 Upper D	erwent	1	seen		\ 8	.,	
SK 31. 90. Wadsley	Commor	1. 1 caught b	oy cat		20.8.1983	B.StClair	
SK SI. 75. Creswell -	Clowr	re railway cultin	g. Lizard on c	inder track	1983	J. Russell	
		ginglow ct. b			1983	S.Johnson	1
		, Upper Derwe		one in <u>Calluna</u>	7.5.1983	D.Whiteles	
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SK 29.83. Limb V	alley	"Dry Heath" re	ported by visi	itors	1983	museum.	
SK 28.79. Blacka	Moor	. frequ. in	Kestrel pellets.	(ref. pellet file)	1982	D.Whitela	D.W.
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	Badger	j sett	
	CRID REFERENCE: VICE COUNTY: 25-327 Derbys:	LOCALITY	ALTITUDE ft.
	43 123XYZ 33-35 057	Fox House, Longshaw (No.3	
	open moorland	DATE RECORDER'S NAME 60 - 64	REC.NO.
	Calluna Festuca	10121982 D. Whiteley.	
	65 2 3 3 70 1 2 3 4		STIES
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City of Stoke-on-Trent



Geoff Halfpenny of Staffordshire Biological Records Centre uses $8" \times 5"$ standard BRC cards (check-lists) for all groups where available, together with standard recording slips for each individual record, combined with 1km. and 10km. distribution maps.

NAME OF SPECIES:	:
10 km sq, reference (map reference preferred):	-
Habitat (brief comment):	•
Date (please state Pre 1940; 1940-60; 1961 onwards):	-
Your name, address and any comment regarding the records:	
Standard species record slip - completed in duplicate or triplicate 1 copy - species file, 1 copy 10km g. file, 1 copy-site file	
1 copy-species file, 1 copy loka of file, 1 copy-site file	-

One recording format apparently unique to Staffordshire is the "Monthly input" sheet illustrated overleaf.

In addition, Geoff writes "We are hoping shortly to computerise our records as I have a thirteen strong Environmental Survey team starting on 31st August 1982 to record the geology and biology of the city during the next twelve months and this will add impetus to our work."

monthly input.

CITY MUSEUM & ART GALLERY, BETHESDA STREET, HANLEY, STOKE-ON-TRENT STAFFORDSHIRE BIOLOGICAL RECORDS CENTRE

Species Records

Month/Year

		IN	OUI
31	Fungi		
B2	Algae		
B3	Lichens		
B4	Mosses		
B5	Liverworts	,	
B6	Flowering Plants and Ferns		
Z1	Protozoa		
72	Sponges (Freshwater porifera)		
Z3	Cnidaria		
Z4	Platyhelminthes		
Z5	Aschelminthes		
Z6	Mollusca		
Z 7	Annelida		
Z8	Arachnida		
Z9	Crustacea		
ZIO	Myriapoda		
Z11	Thysanura /Diplura		
Z12	Ephemeroptera		
Z13	Odonata		
Z14	Plecoptera		
Z15	Dictyoptera		
Z16	Orthoptera		
Z17	Dermaptera		
Z18	Psocoptera		
Z19	Mallophaga		
Z20 Z21	Anoplura		
$\frac{721}{222}$	Thysanoptera		
723	Hemiptera Neuroptova		
Z24	Neuroptera Coleoptera		
	Mecoptera		
Z25	Trichoptera		
<u>726</u>	Lepidoptera Lepidoptera		
<u>Z27</u> Z28	Diptera		
	Siphonaptera		
Z29 Z30	Hymenoptera		
<u> 230</u> 231	Fish		
$\frac{7.31}{232}$	Amphibians		
Z33	Reptiles		
433 734	Birds		
Z35	Marmals		1

236 Minor phyla. (Tardigrada, Bryozoa) acanthocephala, mesozoa)

TOTAL:

Files relating to each of these categories are located in each 10Km sq. file.

John Bainbridge of Tyne and Wear writes "I enclose a short article about some of the species recording cards we use in Sunderland Museum. Perhaps people will be interested in our home produced equivalent of B.R.C.'s GEN 7 card, - the main theme of the article."

Species Records and Recording Cards in use at Sunderland Museum

The North East Environmental Records Centre set up at Sunderland Museum to serve the counties of Tyne and Wear, Durham and Cleveland* utilises many of the recording cards available from the Biological Records Centre and others that have been constructed along similar lines to BRC cards either to serve some particular purpose or with a species context more likely to be encountered in the North East. An example of the former type is the use of the pink terrestrial and yellow marine Individual record card plus the use of Field Cards for groups such as Butterflies, Bumble bees, Moths etc., whilst an example of a home produced ware is the Flowering Plant Field Card Fig. 1.

At a recent meeting of recorders it was decided to produce a card (Fig.2) which would take a batch of records pertaining to one particular species, thereby lessening the cost, and the bulk in storage, of using the pink or yellow Individual Records Cards for all records. Although it can be used in the field, it is really suited to collating the records sent in by different recorders, records from literature searches or those taken from Museum records. It is printed on both sides but with 'Species' and 'check list Name and Number' deleted from the reverse. Each card can hold twenty entries.

In order to complete this recording card fully the recorder or compiler would need to refer to the card which shows the boundaries of the area served by the North East Environmental Records Centre and the tetrads contained within them. Fig.3.

Many of the records which we receive tend to be taken randomly and not organised on a tetrad basis but where this is the case, such as in the Durham Flora project, the tetrads are coded according to the system accredited to Dr. Dony. For example tetrad 12M would lie within the 10 Kilometre square bounded by the lines 10 Easting and 20 Northing with the tetrads assigned A to Z omitting O, A being the first tetrad in the South-west corner of the square and the rest following in an ascending order within each column.

At the time I was unaware that B.R.C. produced such a card (GEN 7.) and recommended readers in their Booklet 'Instructions for Recorders' to use the pink or yellow cards "only when it is desirable to give more information about a specimen than is allowed for on Field Cards".

Readers may like to compare our card Fig.2 to that of BRC's card coded Gen 7.

*Cleveland now has its own Environmental Records Centre.

Fig. 1. Flowering Plant Card.

Front. The column H is to record the subdivision of a locality into ecological areas. These are coded and recorded on the reverse side.

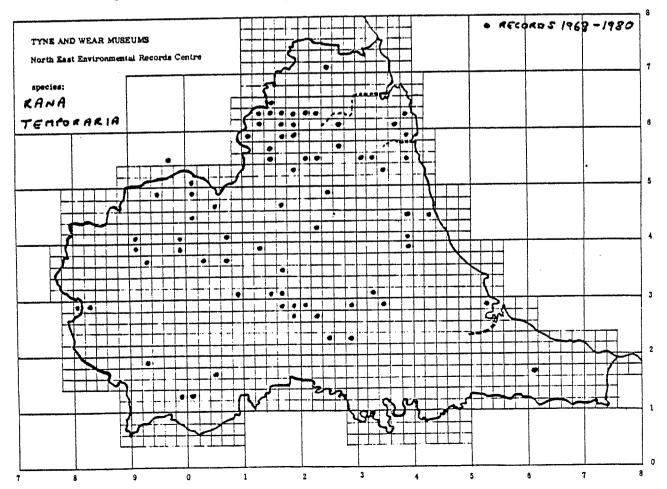
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	CMARZYY FLUS	Name Off TCB PRJB	Date(s) 34tt July 81	H Species H Species	hex Flaga Louis prate Constant Fraga Louis even	Galeo of Calab	Gailu apar odos Dalu Saxa	Geran diss Natus scab scab	fort control c	2000 mg	pare Heder ne Vvrrn oder ne vulg Herac Leng Nvrn oder rinaju Hiera per Sin Narra Sin N	TOUR CONTROL C	mura Horde num Dka Cris Hyaci nons Pagas Scop Hyper per Pagas	Total Series Constitution of the Constitution	Impat dian man man man man man man man man man m		200 62/09 0000 0000 0000 0000 0000 0000 0000	obsc Knaut des Poten anse	Lapsa comm Tept Lanx dec. Sier Latiny mont Princ, veri	heli Lemna mino Prune arris nemo Leoni auto Prunu arris	Leuca Aung Pres and Const.	
	CMARZYY FLUS	Name Off TCB PRJB	35 K Date(s) 39 tt 7 my 81	Species H Species	hex Flaga Louis prate Constant Fraga Louis even	demi Galeo ori culos ecolos ec	Gailu apar odos Dalu Saxa	Geran diss Natus scab scab	fort control c	alou Geum Marou Ma	pare Heder ne Vvrrn oder ne vulg Herac Leng Nvrn oder rinaju Hiera per Sin Narra Sin N	ave avel olio digi nasi notri notri casi notri n	mura Horde num Dka Cris Hyaci nons Pagas Scop Hyper per Pagas	Total Series Constitution of the Constitution	Hex Hex Both Plant plant adult	Carry	2000 COVOT AOCH AOCH ACCOMPANA (1920)	obsc Knaut des Poten anse	Huy Lapsa comm Teor palu Larix deci Sier Sier Sylv Lainy moni Princ, veri	heli Lemna mino Prune arris nemo Leoni auto Prunu arris	arun Leuca zuig Pres abun giga under zuig Pres abun giga abun gerar zuig Pres abun gerar zuig zuig zuig zuig zuig zuig zuig zuig	
	CMARZYY FLUS	Name Off TCB PRJB	5 35 K Date(s) 39th July 81	H Species H Species	Carda Nex File manage Louis Pras Fraga Louis Pras Pras exce	Carex dem Galeo or color echi	And Cailu apar odor nigr cailu cono	Centa Caran diss Natus scab	Ceras, font cost cost cost cost cost cost cost cos	One-op alou Geum riva Verbu Chris coop coop rivar rivar coop coop coop coop coop coop coop coo	Conop maju Hiera perp Nyrrn 900:	Convolution of the control of the co	Cymba mura Hyao rons Papa. Cyns scop Hyper per Peras	Dactyl Tara Dactyl Phic. Phic. Dactyl Topic Const. Description 1000 Const. Des	Digit purp impat glan plant Dryco acut acut pose	Eleco Dalo Cario C	Epilo angu con con Poygo av con cons	Obsc. Knaut albe Poten anse	Equis Huy Lapsa comm — zeor palu Larix dec sier sylv Latiny mont Prim, ven	Eupho heli Lemna mino Prune acris Euphr nemo Leoni auto Pruna acris	Festu arun Leuca zuig Pres abun giga Ligus zuig Pres abun zugus zuig Pres abun zugus zuig zuig zuig zuig zuig zuig zuig zuig	
	CMARZYY FLUS	Name Off TCB PRJB	505 35 K Date(s) 39th July 81	Species H Species	Carda Nex File manage Louis Pras Fraga Louis Pras Pras exce	Carex dem Galeo or color echi	And Cailu apar odor nigr cailu cono	Centa Caran diss Natus scab	Ceras, font cost cost cost cost cost cost cost cos	One-op alou Geum riva Verbu Chris coop coop rivar rivar coop coop coop coop coop coop coop coo	Conop maju Hiera perp Nyrrn 900:	Convolution of the control of the co	Cymba mura Hyao rons Papa. Cyns scop Hyper per Peras	Dactyl Tara Dactyl Phic. Phic. Dactyl Topic Const. Description 1000 Const. Des	Digit purp impat glan plant Dryco acut acut pose	Eleco Dalo Cario C	Epilo angu con con Poygo av con cons	Obsc. Knaut albe Poten anse	Equis Huy Lapsa comm — zeor palu Larix dec sier sylv Latiny mont Prim, ven	Eupho heli Lemna mino Prune acris Euphr nemo Leoni auto Pruna acris	arun Leuca zuig Pres abun giga under Zeiter zuig Pres abun gega under Zeiter zuig Pres abun gegen zu	
	CMARZYY FLUS	Tetrad Name Off TCB PRJB	505 35 K Date(s) 39th July 81	H Species H Species	Carda Nex File manage Louis Pras Fraga Louis Pras Pras exce	Carex dem Galeo or color echi	Gailu apar odos Dalu Saxa	Centa Caran diss Natus scab	Ceras, font cost cost cost cost cost cost cost cos	One-op alou Geum riva Verbu Chris coop coop rivar rivar coop coop coop coop coop coop coop coo	Port Cono maju Hiera Team Nymm odisi Arve Cono maju Hiera Team Nardu Sta	Sylv Crata mono Area palo tos avel por con	Cymba mura Hyao rons Papa. Cyns scop Hyper per Peras	Dactyl Tara Dactyl Phic. Phic. Dactyl Topic Const. Description 1000 Const. Des	Hex Hex Both Plant plant adult	Eleco Dalo Cario C	Spic Epilo angua coch spira acc angua coch spira acc angua coch spira acc angua coch spira acc acc acc acc acc acc acc acc acc a	hord/ Hamin albo Poten arise	Figure Capsa Comming Team Silver Salver Salv	Eupho heli Lemna mino Prune acris Euphr nemo Leoni auto Pruna acris	Septi Festu arun Leuca Aug Stan Stan Stan Stan Stan Stan Stan Stan	S S S S S S S S S S S S S S S S S S S
	SMILL MARSHY FLUS	Name Off TCB PRJB	5 35 K Date(s) 39th July 81	Species H Species	Carda Nex File manage Louis Pras Fraga Louis Pras Pras exce	ptar Cardu adan rumar diri Eddo nose Carex demi Galeo or eddo poda	And Cailu apar odor nigr cailu cono	vine Centa Cab Geran diss Natus orae scab	Ceras, font cost cost cost cost cost cost cost cos	Agri, One-to alou Geum (178 / 1787). Date Coop (178 / 1787). Coo	Port Cono maju Hiera Team Nymm odisi Arve Cono maju Hiera Team Nardu Sta	Sylv Crats mono control avel pilo top control avel control avel pilo top control control avel control control control avel control control top control control top control top control control top control control top control	Cymba mura Hyao rons Papa. Cyns scop Hyper per Peras	macu Dactyii Tarah puro Puro Phacu Phacu Dactyio Tuch Phacu	Digit purp impat glan plant Dryco acut acut pose	nend Stero Dato Ochin Greno Carin Carino Car	Epilo angu con con Poygo av con cons	hord/ Hamin albo Poten arise	Equis Huy Lapsa comm — zeor palu Larix dec sier sylv Latiny mont Prim, ven	stag Eupho heli Lemna mino Prune ming prune ming pept Lemna mino Prune ming pept Leont auto Prunu avru	Selv Festu arun Leuca Aulg Pres and Ban Goda Ligus Aulg Pres and Ban Goda Ligus Aulg Pres and Ban Goda Control	

Fig. 2. Species Record Card. Equivalent to that produced by BRC known as GEN 7.

Species V	ipera b	ronus (Adder	-)		•	Check List Name	and Number
Site	District	County	Grid Ref	Tetrad	V.C.	Date	Det. by & Date	Reference
Rawley		Dutham	NZ 087479		66	1960	Gent, C.J	Vasc. XLVI
The Sneep		hetham	NZ 49		66	21.5.1960	<i>J</i>	Vasc XLV
Burn		Dushawa	N2 36		66	29.7.1961	_	Vax XLVI
mitsley Fell	1	Aisham	N 093348	l i	66	3.87.1977	P. Howard	,
jelssi de	Gatorhead	Type	NZ 176589		66	3.8.4179	J. Rushin	
ot Buldan	Sindeland	Tyrea	AIZ 366614		1	1	P.S Duis	TWC145:
								-
	 						······································	

Fig. 3. Species Distribution/Tetrad Map.

This card shows the boundary of the area originally served by the North East Environmental Records Centre. It is used to plot the distribution of species down to tetrad level.



Summary

It is obvious, even from this minority cross-section of museum record centres, that a wide variety of cards and sheets with different layouts are currently in use, although the actual information recorded by each centre is fairly consistent. Home-produced multi-record 8" x 5" and A5 sized cards seem to be the current trend, with less emphasis on standard B.R.C. cards nowadays, than a few years ago. County tetrad maps appear to have developed as the "norm" although some museums with small mapping areas, for example 'non-county' district museums at Sheffield and Rotherham use finer 1km. squares as the basic unit.

Further Information

Centres which are not represented in this survey may feel that they can contribute additional ideas, examples and experiences. If there is sufficient demand and additional new material it may be possible to compile a supplement to this report. Museums which 'dipped out' and now wish to contribute should contact the author.

Also, the editors would be pleased to receive letters and comments concerning the contents of this report, particularly from museums which benefit from or have found a disadvantage in any of the ideas expressed here!

PEGIES NO.	ORDER NO. SPECIES NO. GENUS & SPECIES	SUB-SPECIES etc. No. Summer pelage
	Whiteley derek	blonde
4	GRIO REFERENCE VICE COUNTY LOCALITY The Porter (25-32)	altitude 11.
	4 3 3 3 5 8 5 7 33-35 0 6 3 & Hunters Bar &	Sheffield FFF m
	TAT mainly Urban Occasionally 60-66	RECORDER'S NAMES CITY CO. 65-68
	extends range into woodland 22091983	FILM
****** ******	RARLITY RAPE EXT. CONE STATUS NAT INT. ESC. MIG. CAS. SOURCE FLO. MUS. LIT.	a <u>single</u> male sighted occasional
	STAGE OVA LARV PUPA SKIN SKEL ADDITIONAL DATA 72 1 +2 +3 4 5 6 7 8 80	Seen with (a) female(s), but
	DETAILS OF SOURCE EXPERT 73 - 78 77 - 79	little chance of a breeding colony establishing.
**		RED DATA BOOK SPECES