ENGLISH NATURE

The status of terrestrial and freshwater invertebrate population monitoring in Britain and Ireland

A survey: Appendix B

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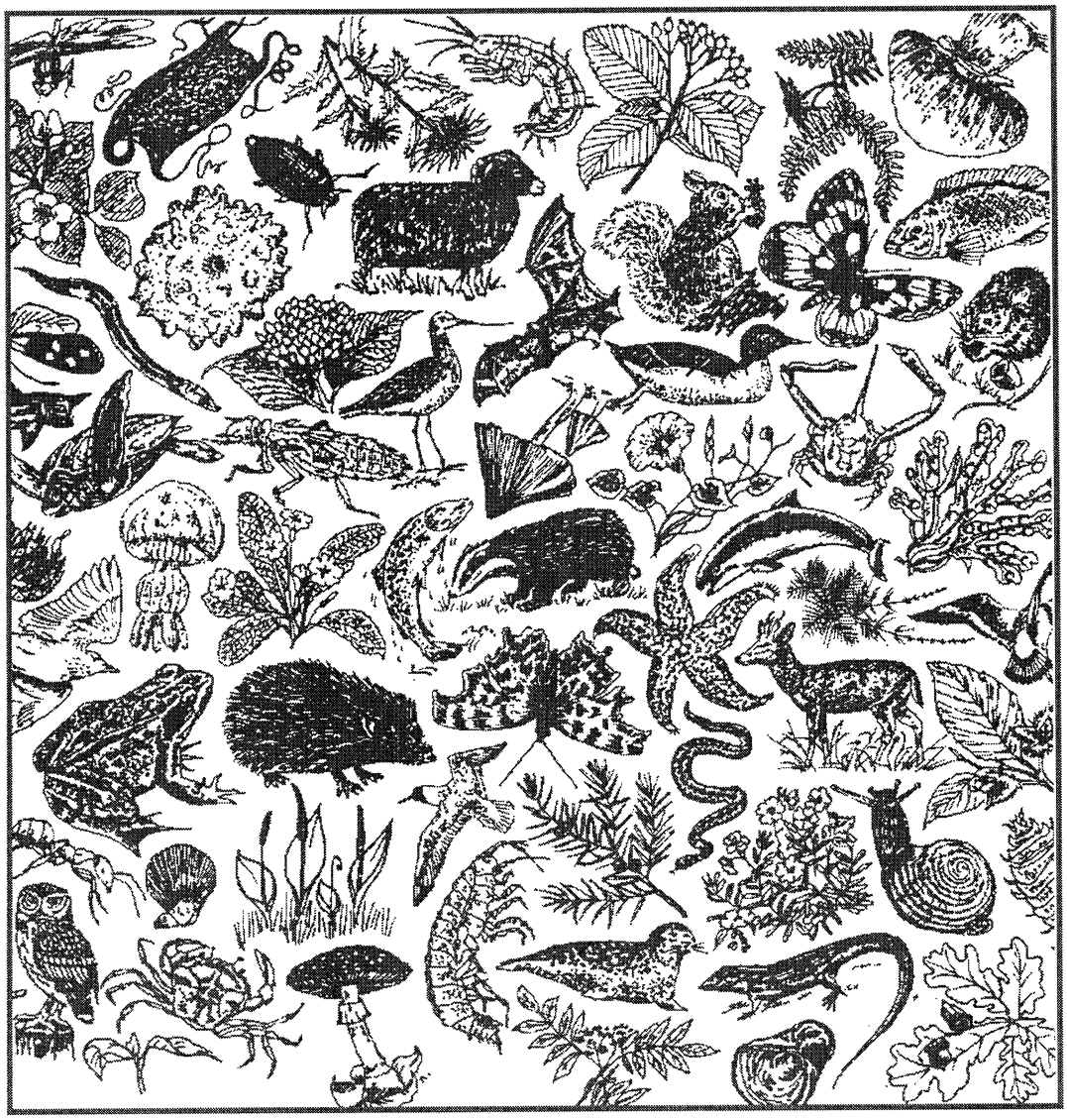

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for nature tomorrow

ENGLISH NATURE RESEARCH REPORTS
№ 25

The Status of Terrestrial and Freshwater Invertebrate Population Monitoring in Britain and Ireland: A Survey

Appendix B

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Introduction to appendix B

This appendix to the invertebrate population monitoring survey contains data from the computers, notably the R/LIST reports from AREV and some mapping files; it means little without part 1 of the report.

Contents

NB This appendix is not paginated.

01 SEP 1992STORAGE
NUMBER STORAGE TYPE.....

1 LOCAL MUSEUM

2 SOCIETY/TRUST OFFICE

3 HOME

4 BRC

5 EN

6 CCW

7 SNH

8 OTHER

9 NT OFFICES

METHODS01 SEP 1992
NUMBER METHOD NAME.....

1 DIRECT OBSERVATION

2 TOTAL CENSUS ETC.

3 TRANSECTS

4 WALKING, LOOKING, NO FIXED ROUTE

5 QUADRATS

6 SWEEP-NET

7 BEATING

8 HAND SEARCHING

9 SIEVE AND SORT

10 PITFALL TRAP

11 EXTRACTION FUNNELS OR SIMILAR

12 VACUUM SAMPLER (D-VAC)

13 SUCTION TRAP (AERIAL SAMPLER)

14 WATER TRAP

15 MALAISE TRAP

16 LIGHT TRAP

17 EMERGENCE TRAP

18 INTERCEPTION TRAP

19 AQUATIC SAMPLING

20 OTHER

01 SEP 1992PERSON.TYPE
KEY PERSON TYPE.....

1 RESEARCHER

2 N.R. WARDEN

3 FIELD CENTRE STAFF/TEACHER

4 CONSULTANT

5 COUNTY/SOCIETY RECORDER

6 AMATEUR NATURALIST

7 OTHER

01 SEP 1992OBJECTIVES
KEY OBJECTIVE.....

1 SPECIES/GROUP PROTECTION

2 SPECIES/GROUP INFORMATION OR RESEARCH

3 SITE MANAGEMENT

4 SITE PROTECTION

5 SITE EVALUATION

6 ENJOYMENT/RECREATION

7 COMPUTERIZED DATA BANK

8 UNCOMPUTERIZED DATA BANK

9 OTHER

01 SEP 1992STAGES
KEY STAGE.....

1 EGG

2 LARVA/IMMATURE

3 PUPA

4 EXUVIUM

5 ADULT

6 NO. OF NESTS

7 OTHER

LOCATION OF SITES MONITORING ARACHNIDA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 23 49 A
1 26 29 A
1 37 41 A
1 40 38 A
1 44 47 A
1 45 44 A
1 45 45 A
1 46 30 B
1 46 43 A
1 46 46 A
1 49 18 A
1 50 10 A
1 59 18 A
1 60 16 A

LOCATION OF SITES MONITORING COLEOPTERA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 23 49 A
1 24 50 A
1 26 29 A
1 32 35 A
1 32 64 B
1 35 17 A
1 35 73 A
1 40 38 A
1 40 41 A
1 41 39 A
1 41 56 A
1 44 20 B
1 45 40 A
1 46 12 A
1 46 30 B
1 46 40 A
1 47 24 A
1 47 40 A
1 47 41 A
1 49 18 A
1 50 18 A
1 51 10 A
1 51 15 A
1 51 30 B
1 52 19 A
1 53 17 A
1 54 10 A
1 55 15 A
1 58 29 A
1 59 18 A
1 60 16 A
2 32 35 A

LOCATION OF SITES MONITORING DIPTERA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 32 35 A
1 32 72 B
1 39 32 A
1 42 35 A
1 42 36 A
1 42 54 B
1 43 08 A
1 43 35 A
1 43 44 B
1 44 09 A
1 44 13 B
1 46 30 B
1 47 24 A
1 48 11 A
1 48 14 A
1 51 29 A
1 52 19 A
1 53 17 A
1 54 19 B
1 59 11 A
1 59 18 A
1 44 20 B

LOCATION OF SITES MONITORING HEMIPTERA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 23 68 B
1 25 66 B
1 25 67 B
1 26 37 A
1 35 17 A
1 37 53 B
1 40 38 A
1 46 43 B
1 48 14 A
1 49 16 B
1 52 19 A
1 53 17 A
1 54 10 A
1 59 18 A
1 60 15 A
1 60 16 A
2 32 35 A

LOCATION OF SITES MONITORING HYMENOPTERA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 23 21 A
1 26 29 A
1 39 08 B
1 46 30 N
1 46 37 A
1 46 43 B
1 47 24 A
1 48 11 A
1 52 19 A
1 59 18 A

LOCATION OF SITES MONITORING LEPIDOPTERA (MOTHS)
(OTHER THAN ROTHAMSTED)
%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN OTHER
1 16 02 A
1 23 49 A
1 24 56 A
1 25 37 A
1 26 29 A
1 30 49 B
1 31 70 A
1 35 17 A
1 36 53 B
1 40 54 A
1 40 83 A
1 43 08 A
1 43 33 A
1 44 20 B
1 45 33 A
1 45 35 A
1 46 17 A
1 46 30 B
1 46 43 B
1 49 16 B
1 50 14 B
1 52 19 A
1 53 13 A
1 56 32 A
1 60 14 A
2 32 35 A

LOCATION OF SITES MONITORING ODONATA: ANISOPTERA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 26 85 A
1 30 32 A
1 31 70 A
1 32 55 A
1 32 56 A
1 35 15 A
1 35 17 A
1 37 27 A
1 41 09 A
1 41 10 A
1 43 33 A
1 45 41 A
1 46 12 A
1 46 40 A
1 48 14 A
1 48 15 A
1 48 19 A
1 49 14 A
1 50 22 A
1 51 11 A
1 51 29 A
1 52 19 A
1 52 28 B
1 53 26 N
1 53 27 A
1 56 32 A
1 63 31 A
1 64 31 A
1 64 32 A

LOCATION OF SITES MONITORING ODONATA: ZYGOPTERA

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 26 85 A
1 31 70 A
1 32 55 A
1 32 56 A
1 35 17 A
1 43 33 A
1 45 41 A
1 46 40 A
1 48 14 A
1 48 15 A
1 48 19 A
1 49 14 A
1 50 22 A
1 51 11 A
1 51 29 A
1 52 19 A
1 52 28 B
1 53 26 N
1 53 27 A
1 56 32 A
1 63 31 A
1 64 31 A
1 64 32 A

LOCATION OF SITES MONITORING ODONATA (ANISOPTERA AND ZYGOPTERA)

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 26 85 A
1 30 32 A
1 31 70 A
1 32 55 A
1 32 56 A
1 35 15 A
1 35 17 A
1 37 27 A
1 41 09 A
1 41 10 A
1 43 33 A
1 45 41 A
1 46 12 A
1 46 40 A
1 48 14 A
1 48 15 A
1 48 19 A
1 49 14 A
1 50 22 A
1 51 11 A
1 51 29 A
1 52 19 A
1 52 28 B
1 53 26 N
1 53 27 A
1 56 32 A
1 63 31 A
1 64 31 A
1 64 32 A

HABITATS01 SEP 1992

NUMBER HABITAT NAME.....

1 CLIFF

2 SHINGLE

3 SAND DUNE

4 SALTMARSH

5 OPEN STANDING WATER

6 OPEN RUNNING WATER

7 CANAL

8 QUARRY, CHALK, GRAVEL PIT

9 INLAND ROCK

10 WATERSIDE VEGETATION

11 FEN (AND SWAMP)

12 BOG

13 MOUNTAIN AND MOORLAND

14 WET HEATH

15 DRY HEATH

16 ARABLE

17 GRASSLAND IMPROVED

18 GRASSLAND SEMI-IMPROVED

19 GRASSLAND UNIMPROVED

20 GRASSLAND ACID

21 GRASSLAND NEUTRAL

22 GRASSLAND CALCAREOUS

23 GRASSLAND GRAZED

24 GRASSLAND OTHER

25 WOODLAND DECIDUOUS

26 WOODLAND COPPICE

27 WOODLAND PARKLAND

28 WOODLAND CARR

29 WOODLAND CONIFEROUS

30 WOODLAND PLANTATION

31 WOODLAND CALEDONIAN PINE

32 WOODLAND MIXED

33 WOODLAND SCRUB

34 CHURCHYARDS

35 GARDEN

36 WALLS

37 HEDGEROW

38 ROADSIDE VEGETATION

39 WASTELAND

40 OTHER

41 URBAN
42 SUBURBAN
43 RURAL

22 SEP 1992SITES SITES SORTED BY KEY, LIT AND PERS

KEY. NAME	AREA	GRIDREF.	ALT1	ALT2	STATUS	AONB	ESA	NP	URB	VC	COUNTY
1 SANDON HALL GARDEN	14.2 HA	3395-28- 88	128		ESTATE					39	STAFFORDSHIRE
2 STRENSALL COMMON (YORKS WLT RESERVE)	40.5HA	4464-61- 15			CTR					62	NORTH YORKSHIRE
3 FARNHAM PARK	121.4HA	41839480 100			PARK					17	SURREY
4 SOUTH SHROPSHIRE		32------			NNR	AONB			URB	40	SHROPSHIRE
		33------			SSSI						
					NT						
					OTHER						
5 SHIRLEY POOL	16.4HA	44566120			SSSI					63	SOUTH YORKSHIRE
6 HETCHELL WOOD		44632005			LNR					63	SOUTH YORKSHIRE
7 ISLE OF MAN - VARIOUS SITES		24------			OTHER					71	ISLE OF MAN
8 HOLCOMBE MOOR TRAINING CAMP, LANCS.	259HA	34766156 220			MOD					59	LANCASHIRE
9 66 SCRAPTOFT LANE, LEICESTER		43624052			GARDEN					55	LEICESTERSHIRE
10 THE ROYAL HORTICULTURAL SOCIETY'S GARDENS, WISLEY					GARDEN					17	SURREY
					ESTATE						
11 HOPHURST FARM		51355384 115			OTHER					14	EAST SUSSEX
12 ABER VALLEY WOODS	1HA	236--7--			OTHER					49	GWYNEDD
13 CROMFORD CANAL LNR (WHATSTANDWELL TO AMBERPATE)	5HA3.2KM	43332543 84			LNR	AONB				57	DERBYSHIRE
		43350519			SSSI						
14 ROSE END MEADOWS RESERVE, CROMFORD	8HA	43293567 120		155	CTR					57	DERBYSHIRE
					OTHER						
15 HEATHER BANK GARDEN, MATLOCK	0.15HA	43295612 200			GARDEN					57	DERBYSHIRE

16 CHARTLEY MOSS	40HA	33025285 100			NNR		47	POWYS
17 ALL KNOWN SITES IN ESSEX, HERTS,BEDS AND BUCKS.					VARIABLE		20, 21	ESSEX, HERTS, BEDS,
18 SITES IN NORTH WEST (LANCS, CHESH, CUMB, MERSEY, GTR MANCH)	VARIABLE	33------ 34------			NNR LNR SSSI NT CTR RSPB	AONB ESA NP URB	58, 59	LANCS,CHESH,CUMB,MER
19 AGRICULTURAL RESEARCH INSTITUTE, N. IRELAND, HILLSBOROUGH, C	16.8HA	33242577 110		120	OTHER		H38	DOWN
20 NORTHERN IRELAND: APPROX TOP 20 QUALITY MIRES							H36,H3	
21 WARDEN POINT SHEPPEY	1HA	61019725 30			OTHER		15	KENT
22 PERRY WOOD	100HA	61045555 152			OTHER		15	KENT
23 MACKNADE, FAVERSHAM	0.1HA	61025596 38			OTHER		15	KENT
24 THRISLINGTON PLANTATION NNR	36HA	4531-32-			NNR OTHER		66	DURHAM
25 BARGALY LODGE		25461661 40			ESTATE		73	DUMFRIES AND GALLOWA
26 ENGLAND					OTHER	URB		
27 BARRY LINKS SSSI	1041.1HA	37540320 0		3	SSSI MOD		90	TAYSIDE
28 DERSINGHAM NATURE RESERVE	147.7HA	53675289 0		25	LNR SSSI		28	NORFOLK
29 NORFOLK NATURALIST TRUST RESERVES					NNR SSSI CTR	AONB ESA NP	27, 28	NORFOLK

30 RYE HARBOUR LNR & SSSI		5191-19- 0 5194-18-		LNR SSSI			14	EAST SUSSEX
31 TREBORTH BOTANIC GARDEN	4.1HA	23551711 40		SSSI ADJACEN AONB			49	GWYNEDD
32 NUNHEAD CEMETRY	20.2HA	51355755 30	60	PARK		URB	17	SURREY
33 SEASALTER	0.5KM ST	61065648 2		OTHER	ESA		15	KENT
34 MEADOW LANE GRAVEL PITS & ADJACENT MEADOW	300HA	52323708 <10		OTHER			16	CAMBRIDGE
35 ROUNDSTONE, FRESHWATER	0.2HA	40335871 10		SSSI ADJACEN GARDEN		URB	10	ISLE OF WIGHT
36 OYSTER WOOD, HEADLEY, SURREY	15HA	51199549 120		NT			17	SURREY
37 FORVIE NNR (A EUROPEAN BIOGENETIC RESERVE)	1000HA	48034289 0	57	NNR SSSI OTHER: SNH L EURO BIOGENE			93	GRAMPIAN
38 THUNDRY MEADOWS(SURREY WLT)/ CHARLES HILL SSSI	0.4HA	41895991 60		SSSI CTR			17	SURREY
39 THURSLEY NNR	323.7HA	41906415 60		NNR SSSI OTHER: BIOGE			17	SURREY
40 CEREAL FIELD	6.1HA	51045035 50		OTHER			13	WEST SUSSEX
41 LOWER MOOR RIVER	6.5KM	41104007 15 40126974	20	LNR SSSI			11	DORSET
42 SEVENOAKS WILDFOWL RESERVE	54.6HA	51520570 80		SSSI			16	KENT
43 GREAT BRITAIN (EXC. N. IRELAND)				OTHER: SUSCE			ALL	ALL
44 SCOTLAND (NORTH)				OTHER: SUSCE			ALL	ALL

45 ENGLAND (SOUTH WEST)				NNR LNR SSSI NT CTR RSPB	AONB ESA NP URB		SOUTH WEST
46 118 CARSINGTON CRESCENT, ALLESTREE	0.1HA	43338383 85		GARDEN	URB	57	DERBYSHIRE
47 FRIARGATE STATION, DERBY		43348363		OTHER	URB	57	DERBYSHIRE
48 BREADSALL CUTTING LNR		43385395		LNR		57	DERBYSHIRE
49 WOLLATON PARK	222.6HA	43533393		ESTATE		56	NOTTINGHAM
50 ALPORT DALE, N. DERBYSHIRE	200HA	43141903 260		OTHER	NP	57	DERBYSHIRE
51 BURE MARSHES NNR	415HA	63335165 <10		NNR SSSI	ESA NP	27	NORFOLK
52 LUDHAM MARSHES NNR	72HA	63405177 <10		NNR SSSI	ESA NP	27	NORFOLK
53 WINTERTON DUNES NNR	108HA	63490210 <10		NNR SSSI		27	NORFOLK
54 STANFORD BATTLE AREA	12000HA	528--9-- 0	50	MOD		28	NORFOLK
55 BLACKMOORFOOT RESERVOIR, HUDDERSFIELD, W. YORKS	40.9HA	44099130 260		SSSI	URB	63	WEST YORKSHIRE
56 THURSLEY NNR (SEE ALSO SITE 39 REC.46)	325.34HA	41906405 55	100	NNR SSSI OTHER: BIOGE		17	SURREY
57 BUCKINGHAM THICK COPSE NNR, NORTHANTS		42707432		NNR SSSI		32	NORTHAMPTONSHIRE
58 SHOEBURY OLD RANGES (FORMERLY PART OF SHOEBURY COMMON)	20HA	51927841 0		LNR		18	ESSEX

59	COATES CASTLE SSSI AND ENVIRONS	129.5HA	41989167	30	40	SSSI		13	WEST SUSSEX
60	#CONFIDENTIAL# WYE NNR, KENT (PLUS 1 OTHER CLASSIFIED SITE)	105.2HA	61081447	80	182	NNR SSSI	AONB	15	KENT
61	MID-WYE/UPPER-SEVERN/UPPER-USK CATCHMENTS					OTHER			
62	CORS GOCH NATURE RESERVE (LLANLLWCH)	19.4HA	22366186			SSSI CTR OTHER		44	DYFED
63	CLOSE HOUSE, HEDDON ON THE WALL, NORTHUMBERLAND. UNIVERSITY	0.56HA	45132657	10		OTHER		67	NORTHUMBERLAND
64	181 BROADWAY, PETERBOROUGH. GARDEN.		52196996	10		GARDEN		URB 31	CAMBRIDGESHIRE
65	WASKERLEY MOOR, MAGGLESWICK COMMON, EDMUNDBYERS, CO. DURHAM		450--4--	350	470	ESTATE		66	DURHAM
66	AYRES: 'BLUE POINT'/'BALLAKESH' (MANX NT) AND 'POINT OF AYRE		254--0--	1	30	NNR PENDING SSSI PENDING NT (MANX)	ESA	71	ISLE OF MAN
67	GLASSON MOSS NNR	242.8HA	35235605	10	15	NNR	AONB	70	CUMBRIA
68	WEDHOLME FLOW	809.4HA	35210535	10	15	NNR	AONB	70	CUMBRIA
69	CLOSE SARTFIELD	12.1HA	24360955			NNR (BUFFER LNR PENDING		71	ISLE OF MAN
70	WALDEGRAVE POOL,PRIDDY MINERIES RESERVE	0.8HA	31547515	250	275	SSSI CTR	AONB	6	SOMERSET
71	LOE BAR	12HA	10643240	0	10	SSSI NT		1	CORNWALL
72	UXBRIDGE- DENHAM DISUSED RAILWAY		51055867	35		OTHER		21	MIDDLESEX
73	CORS FOCHNO, DYFI NNR	550HA	2263-91-	5		NNR SSSI		46	DYFED

74	COED RHEIDOL NNR	220HA	22740778	220		NNR SSSI			46 DYFED
75	NEWTOWN RIFLE RANGE	323.7HA	4044-91-	0	50	SSSI MOD			10 ISLE OF WIGHT
76	SOMERSET MOORS, VARIOUS SITES			6		OTHER	AONB		6 SOMERSET
77	GUNTHORPE HAGG WOOD	10.5HA	43550547	142		OTHER			56 NOTTINGHAMSHIRE
78	PULPIT HILL	4HA	4283-04-			LNR SSSI			24 BUCKINGHAMSHIRE
79	SUNDON SPRINGS QUARRY		52043267			SSSI			30 BEDFORDSHIRE
80	AMBURY ROAD, HUNTINGDON		52237719 52238720			OTHER			31 CAMBRIDGESHIRE
81	DURHAM CITY WOODLAND		452--4--			OTHER			66 DURHAM
82	THORNE MOORS, S. YORKSHIRE		447--1--	3	5	NNR SSSI			63 SOUTH YORKSHIRE
83	HATFIELD MOORS, S. YORKSHIRE		446--0-- 447--0--	3	5	NNR SSSI			63 SOUTH YORKSHIRE
84	AMBURY ROAD, HUNTINGDON		52237720			OTHER			31 CAMBRIDGESHIRE
85	6 ROSCREA TERRACE, HUNTINGDON		52234719			GARDEN			31 CAMBRIDGESHIRE
86	CORNMILL STREAM AND OLD RIVER LEE SSSI		511--1--			SSSI			21 HERTFORDSHIRE
87	LAKE DISTRICT, NATIONAL TRUST PROPERTIES					SSSI NT		NP	69, 70 CUMBRIA
88	KINDER SCOUT, PEAK DISTRICT	1214.0HA	43072872	450	500	SSSI NT		NP	57 DERBYSHIRE
89	FARM HOUSE POND & ENVIRONS, CAMBRIDGE.	0.5HA	52364873	10		GARDEN			29 CAMBRIDGESHIRE

					OTHER			
90 HERTFORDSHIRE, VC 20.	170400HA	51250150	20	244	OTHER		20	HERTFORDSHIRE
91 HANTS WILDLIFE RESERVE (F. TRANSKAUCASICA), NEW FOREST GENER	0.4 HA(W		40		NNR CTR	AONB ESA NP	11	HAMPSHIRE
92 CISSBURY RING, WEST SUSSEX	1.6HA	51143083	120	160	NT	AONB	13	WEST SUSSEX
93 CHURCH HILL, WEST SUSSEX	1.6HA	51112089	90	125	OTHER	AONB	13	WEST SUSSEX
94 LOCH LEVEN NNR	1578.3HA	371--0--	105		NNR SSSI		85	TAYSIDE
95 FENNS/WHIXALL MOSSES.	884HA	33490365	90	96	NNR SSSI		40	SHROPSHIRE
96 RAHOY HILLS RESERVE	13.2KM	28690535	50	100	SSSI CTR		106	HIGHLAND
97 BURNHAM BEECHES, SEVENWAYS PLAIN AREA		41947846	75		SSSI		24	BUCKINGHAMSHIRE
98 MILL COPSE	5.7HA	40357890	2	10	OTHER		10	ISLE OF WIGHT
99 FARINGFORD FARM	71.6HA	40335862	25	75	OTHER		10	ISLE OF WIGHT
100 COPPETS WOOD & PRIVATE GARDEN ABUTTING RESERVE	19.1HA	51276916			LNR GARDEN		URB 21	GREATER LONDON
101 KINGLEY VALE NNR		41822108	<120		NNR	AONB	13	WEST SUSSEX
102 BASINGSTOKE CANAL	3.2KM	41843528	80		SSSI CTR MOD OTHER		12, 17	HAMPSHIRE, SURREY
103 CLUMBER PARK, NOTTINGHAMSHIRE.	1HA	43843738			NT		56	NOTTS
104 #CONFIDENTIAL# KENT: NO SPECIFIC LOCATION GIVEN.					ESTATE	AONB	15	KENT

105 BEWDLEY, RIVER SEVERN (AND NOW 2 OTHER NEARBY SITES).	0.05KM	32782762	17		OTHER	37	WORCESTERSHIRE
106 LEWES MEADOWLANDS	15HA	5142-09-	0	2	NNR PENDING	URB 14	EAST SUSSEX
107 LEWES MEADOWLANDS	15HA	5142-09-	0	2	LNR PENDING	URB 14	EAST SUSSEX
108 RIVER MEDINA (BELOW WEIR), IOW.		40503881	10	45	OTHER	10	ISLE OF WIGHT
109 RIVER CAULBOURNE, IOW.		40422867	10	45	OTHER	10	ISLE OF WIGHT
110 RODGE BROOK, IOW.		40422867	10	45	OTHER	10	ISLE OF WIGHT
111 MOORLANDS NATURE RESERVE (YORKSHIRE WILDLIFE TRUST).	6.9HA	4457-58-	15	19	CTR	62	NORTH YORKSHIRE
112 PILMOOR COMMON	16.2HA	4446-72-	22	24	OTHER	62	NORTH YORKSHIRE
113 SKIPWORTH COMMON	242.8HA	4465-37-	5	15	CTR	61	HUMBERSIDE
114 ASKHAM BOG, YORKSHIRE.	42.5HA	4457-47-	13	17	CTR	64	NORTH YORKSHIRE
115 LEIGH WOODS, AVON GORGE.		3155-73-			NNR SSSI NT	34	AVON
116 SPRING COTTAGE, KIMBERS LANE, MAIDENHEAD. GARDEN.	0.14HA	41884793	35		GARDEN	22	BERKSHIRE
117 SURREY, SEVERAL SITES. (STATUS UNCLEAR)					LNR SSSI CTR	17	SURREY
118 NEW FOREST					NNR SSSI NT	11	HAMPSHIRE
119 EMMETS HILL UNDERCLIFFE, DORSET.					LNR SSSI MOD	9	DORSET

120 OLD WINCHESTER HILL.	60HA	41647211 41640205	130	200	NNR SSSI	ESA	11	HAMPSHIRE
121 HARTSLOCK NATURE RESERVE	4.5HA	41698795			SSSI CTR	AONB	23	OXFORDSHIRE
122 MELTON WOOD, S. YORKS.	68.8HA	4451-03-			OTHER: FC		63	SOUTH YORKSHIRE
123 NASH'S SLOPE AND UPPER POND FIELDS, SILWOOD PARK.		4194-69-			OTHER		22	BERKSHIRE
124 SILWOOD PARK, BERKS.		4194-69-			OTHER		22	BERKSHIRE
125 BERNWOOD FOREST, OXFORDSHIRE, BUCKHINGHAMSHIRE.					OTHER		23, 24	BUCKINGHAMSHIRE, OXF
126 AN NNR, EAST SUSSEX.	49.50HA		100	150	NNR SSSI		14	EAST SUSSEX
127 18 STREAMS IN 10 KM RADIUS, UPPER RIVER TYWI, UPLAND WEST WA			250	500				
128 ELM SLOPE, SILWOOD PARK, BERKS.	0.14HA	4194-69-			OTHER		22	BERKSHIRE
129 LOCH BARDOWIE, GLASGOW.		26580736			OTHER		86	STRATHCLYDE
130 STONEHILL DOWN, PURBECK HILLS, DORSET.		3092-82-			SSSI		9	DORSET
131 SITE X, A SLOPE ON THE CULM MEASURES, SW ENGLAND.								
132 RIVER ELY, SOUTH WALES	0.01HA	31084763			OTHER		41	SOUTH GLAMORGAN
133 TENBY, SOUTH WALES		2213-00-			OTHER		45	DYFED
134 SIKE HILL, MOOR HOUSE NNR		35757328	549		NNR		70	CUMBRIA
135 ROSSDHU ESTATE, STRATHCLYDE		2636-89-			ESTATE		99	STRATHCLYDE
136 BEARSDEN, STRATHCLYDE		2652-72-			OTHER		99	STRATHCLYDE
137 GLASGOW		2659-65-			OTHER		77	STRATHCLYDE

138	LLYN BODGYLCHED, NE ANGLESEY. A FISHLESS EUTROPHIC LAKE.	10HA	23585770			OTHER	52	GWYNEDD
139	SKIPWORTH COMMON	0.26HA	44663380	5	15	CTR	61	HUMBERSIDE
140	LAKENHEATH WARREN	0.01HA	5277-79-	15	55	OTHER	26	SUFFOLK
141	WEETING HEATH NNR, BRECKLAND		5277-89-	15	55	NNR	28	NORFOLK
142	BAR HILL, CAMBRIDGE	142HA	5238-63-			OTHER	29	CAMBRIDGE
143	WOODWALTON FEN NNR, CAMBS.		5222-84-			NNR SSSI	29	CAMBRIDGESHIRE
144	GARSCUBE ESTATE, UNIVERSITY OF GLASGOW		2657-70-			ESTATE	77	STRATHCLYDE
145	UPPER SEEDS FIELD, WYTHAM WOODS, OXFORDSHIRE.	10HA	4247-08-			OTHER	23	OXFORDSHIRE
146	HOUGHALL FARM, DURHAM		45280403	30	40	OTHER	67	DURHAM
147	POMEROY FORESTRY SCHOOL, DANI, CO. TYRONE			180		OTHER	H36	TYRONE
148	GLENTRESS FOREST, NEAR PEEBLES, TWEEDALE		3628-41-	350		OTHER	78	BORDERS
149	PADDOCKMUIR WOOD, SCOTLAND	68HA	3722-20-			OTHER	89	TAYSIDE
150	A SITE ON THE DORSET-HAMPSHIRE BORDER	800HA				OTHER	9, 11	HAMPSHIRE, DORSET
151	RANMORE COMMON, DORKING, SURREY		51134504	183		OTHER	17	SURREY
152	WHITBY HARBOUR, YORKSHIRE	1HA	45953049	0		OTHER	62	NORTH YORKSHIRE
153	ROBIN HOOD'S BAY, YORKSHIRE	0.0096HA	45900110	0		OTHER	62	NORTH YORKSHIRE
154	CASTOR HANGLAND NNR, CAMBRIDGESHIRE		5312-01-			NNR	32	CAMBRIDGESHIRE
155	FOLLY HILL, BIRTLEY GREEN, BRAMLEY, SURREY		5100-44-			GARDEN	17	SURREY
156	RIVER ITCHEN, HYDE ABBEY, WINCHESTER		41485300			OTHER	11	HAMPSHIRE

157 CORONATION WOOD, EPPING FOREST, ESSEX	1HA	51411956 60	65	OTHER		18	ESSEX
158 LANGDALE FOREST, NORTH YORKS	9.3HA	3564-00-		OTHER		65	NORTH YORKSHIRE
159 WATCH LANE FLASH, SANDBACH, CHESHIRE		33729606		LNR SSSI		58	CHESHIRE
160 WIKE AND STAIRFOOT WOODS, LEEDS		443--4--		OTHER		64	WEST YORKSHIRE
161 HUGHENDEN PLAYING FIELDS, GLASGOW		2658-65-		OTHER		77	STRATHCLYDE
162 COSBY, LEICESTERSHIRE		425--9--		OTHER		55	LEICESTERSHIRE
163 EAST GOSCOTE, LEICESTERSHIRE		436--1--		OTHER		55	LEICESTERSHIRE
164 WHETSTONE, LEICESTERSHIRE		425--9--		OTHER		55	LEICESTERSHIRE
165 OADBY, LEICESTERSHIRE		426--9--		OTHER		55	LEICESTERSHIRE
166 OADBY 2		436--0--		OTHER		55	LEICESTERSHIRE
167 STOUGHTON, LEICESTERSHIRE		436--0--		OTHER		55	LEICESTERSHIRE
168 ST HARROLD, LEICESTERSHIRE		433--2--		OTHER		55	LEICESTERSHIRE
169 LEICESTER		436--0--		OTHER		55	LEICESTERSHIRE
170 WALCOTE, LEICESTERSHIRE		425--8--		OTHER		55	LEICESTERSHIRE
171 RIVER LAMBOURN, BAGNOR	0.1KM	4145-69-		OTHER		22	BERKSHIRE
172 NEWFOREST		41------		OTHER	NP	11	HAMPSHIRE
173 DRIGG, CUMBRIAN COAST		34049987 15		OTHER		70	CUMBRIA
174 LITTLE DUNN FELL, MOOR HOUSE NNR, CUMBRIA		35656310 215 35694325	610	NNR		70	CUMBRIA

25 SEP 1992TAXA

RECORD TYPE	FORMS	NUMBER	TAXON NAME	TAXON TYPE	DESCRIPTION
PERS	3	8	ANNELIDA: HIRUDINEA: GLOSSIPHONIIDAE	FAM	ORDER RHYNCHOBDELLIDA: HIRUDINEA, LEECHES
PERS	2	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	7	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	8	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	41	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	66	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	77	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	81	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	97	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	99	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	105	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	117	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	118	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	119	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	120	4	ARACHNIDA: ARANEAE (GENERAL)	ORD	SPIDERS IN GENERAL
PERS	48	45	ARACHNIDA: ARANEAE: LINYPHIIDAE	FAM	'MONEY' SPIDERS
PERS	81	57	ARACHNIDA: OPILIONES	ORD	HARVESTMEN
PERS	105	57	ARACHNIDA: OPILIONES	ORD	HARVESTMEN

PERS	31	1 ARTHROPODA (GENERAL)	PHY	ARTHROPODA IN GENERAL
PERS	83	1 ARTHROPODA (GENERAL)	PHY	ARTHROPODA IN GENERAL
PERS	84	1 ARTHROPODA (GENERAL)	PHY	ARTHROPODA IN GENERAL
PERS	21	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	40	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	44	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	58	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	62	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	63	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	65	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	66	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	74	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	77	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	97	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	105	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	109	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	115	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	121	28 COLEOPTERA (GENERAL)	ORD	BEETLES IN GENERAL
PERS	93	69 COLEOPTERA: BYRRHIDAE: CURIMOPSIS NIGRITA: RDB	SP	MIRE PILL BEETLE

PERS	21	27 COLEOPTERA: CARABIDAE	FAM	GROUND BEETLES
PERS	25	27 COLEOPTERA: CARABIDAE	FAM	GROUND BEETLES
PERS	34	27 COLEOPTERA: CARABIDAE	FAM	GROUND BEETLES
PERS	71	27 COLEOPTERA: CARABIDAE	FAM	GROUND BEETLES
PERS	81	27 COLEOPTERA: CARABIDAE	FAM	GROUND BEETLES
PERS	113	27 COLEOPTERA: CARABIDAE	FAM	GROUND BEETLES
PERS	91	67 COLEOPTERA: CARABIDAE: BEMBIDION HUMERALE: RDB	SP	A GROUND BEETLE
PERS	50	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	80	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	99	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	100	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	101	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	113	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	125	46 COLEOPTERA: LAMPYRIDAE: LAMPYRIS NOCTILUCA	SP	GLOW-WORMS
PERS	41	43 COLEOPTERA: LATHRIDIIDAE: CORTICARINA TRUNCATELLA	SP	A LATHRIDIID BEETLE
PERS	25	32 COLEOPTERA: STAPHYLINIDAE	FAM	ROVE BEETLES
PERS	127	32 COLEOPTERA: STAPHYLINIDAE	FAM	ROVE BEETLES
PERS	3	10 COLLEMBOLA (GENERAL)	ORD	SPRINGTAILS IN GENERAL
PERS	3	7 CRUSTACEA (GENERAL)	CLA	CRUSTACEA IN GENERAL
PERS	3	5 CRUSTACEA: CLADOCERA (GENERAL)	ORD	TYPE OF BRANCHIOPODAN CRUSTACEAN (DAPHNIA)

PERS	69	53	CRUSTACEA: DECAPODA: AUSTROPOTAMOBIUS PALLIPES: RDB	SP FRESHWATER CRAYFISH
PERS	105	78	CRUSTACEA: ISOPODA: ONISCIDEA	SOR TERRESTRIAL WOODLICE
PERS	122	73	DERMAPTERA (GENERAL)	ORD EARWIGS
PERS	122	74	DICTYOPTERA (GENERAL)	ORD COCKROACHES (AND MANTIDS)
PERS	105	77	DIPLOPODA (GENERAL)	CLA MILLIPEDES
PERS	40	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	65	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	66	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	106	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	107	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	108	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	109	41	DIPTERA (GENERAL)	ORD DIPTERA IN GENERAL
PERS	14	23	DIPTERA :BRACHYCERA (LARGER)	SOR FLIES SUCH AS HORSE-FLIES
PERS	16	23	DIPTERA :BRACHYCERA (LARGER)	SOR FLIES SUCH AS HORSE-FLIES
PERS	17	23	DIPTERA :BRACHYCERA (LARGER)	SOR FLIES SUCH AS HORSE-FLIES
PERS	72	23	DIPTERA :BRACHYCERA (LARGER)	SOR FLIES SUCH AS HORSE-FLIES
PERS	110	80	DIPTERA: CECIDOMYIIDAE: TAXOMYIA TAXI	SP YEW GALL MIDGE
PERS	3	14	DIPTERA: CHIRONOMIDAE	FAM NON-BITING MIDGES
PERS	1	3	DIPTERA: CONOPIDAE	FAM

PERS	16	3 DIPTERA: CONOPIDAE	FAM	
PERS	38	40 DIPTERA: DIXIDAE	FAM	MENISCUS MIDGES
PERS	14	24 DIPTERA: SCIOMYZIDAE	FAM	SNAIL-KILLING FLIES
PERS	16	24 DIPTERA: SCIOMYZIDAE	FAM	SNAIL-KILLING FLIES
PERS	1	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	14	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	15	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	16	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	17	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	20	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	53	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	72	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
PERS	23	29 DIPTERA: TIPULIDAE	FAM	CRANE-FLIES
PERS	3	6 EPHEMEROPTERA (GENERAL)	ORD	MAYFLIES IN GENERAL
PERS	40	42 HEMIPTERA (GENERAL)	ORD	HEMIPTERA IN GENERAL
PERS	66	42 HEMIPTERA (GENERAL)	ORD	HEMIPTERA IN GENERAL
PERS	109	42 HEMIPTERA (GENERAL)	ORD	HEMIPTERA IN GENERAL
PERS	115	42 HEMIPTERA (GENERAL)	ORD	HEMIPTERA IN GENERAL
PERS	13	22 HEMIPTERA: COCCOIDEA: CHIONASPIS SALICIS	SPP	CHIONASPIS SALICIS, A SCALE INSECT
PERS	3	12 HEMIPTERA: CORIXIDAE	FAM	WATER BUGS

PERS	97	72 HEMIPTERA: HETEROPTERA	SOR	TRUE BUGS
PERS	121	72 HEMIPTERA: HETEROPTERA	SOR	TRUE BUGS
PERS	3	13 HEMIPTERA: HETEROPTERA: GERRIDAE	FAM	WATER-BUGS: POND-SKATERS
PERS	113	84 HEMIPTERA: HETEROPTERA: SEHIRUS SPP.	GEN	SHIELD BUGS.
PERS	30	37 HEMIPTERA: HOMOPTERA: AUCHENORRYNCHA (ALL SPP)	SER	LEAFHOPPERS, ALL
PERS	28	35 HEMIPTERA: HOMOPTERA: GRAPHOCEPHALA FENNAHI	SP	RHODODENDRON LEAFHOPPER
PERS	29	36 HEMIPTERA: HOMOPTERA: MACROPSIS GRAMINAE	SP	LEAFHOPPER
PERS	24	30 HEMIPTERA: HOMOPTERA: PHILAENUS/NEOPHILAENUS	GEN	FROG-HOPPERS
PERS	26	33 HEMIPTERA:HOMOPTERA:CERCOPIS VULNERATA	SP	RED-AND-BLACK FROGHOPPER
PERS	27	34 HEMIPTERA:HOMOPTERA:ISSUS COLEOPTRATUS	SP	A LEAFHOPPER
PERS	65	49 HYMENOPTERA (GENERAL)	ORD	ANTS, BEES, WASPS ETC.
PERS	66	49 HYMENOPTERA (GENERAL)	ORD	ANTS, BEES, WASPS ETC.
PERS	109	49 HYMENOPTERA (GENERAL)	ORD	ANTS, BEES, WASPS ETC.
PERS	4	17 HYMENOPTERA: ACULEATA: APIS MELLIFERA	SP	HONEY BEE
PERS	4	18 HYMENOPTERA: ACULEATA: BOMBUS SPP	FAM	BUMBLE BEES
PERS	113	85 HYMENOPTERA: ACULEATA: BOMBUS TERRESTRIS	SPP	A BUMBLE BEE
PERS	81	56 HYMENOPTERA: ACULEATA: FORMICIDAE	FAM	ANTS
PERS	99	56 HYMENOPTERA: ACULEATA: FORMICIDAE	FAM	ANTS
PERS	124	56 HYMENOPTERA: ACULEATA: FORMICIDAE	FAM	ANTS

PERS	9	19 HYMENOPTERA: ACULEATA: SOLITARY WASPS AND BEES	FAM	SOLITARY WASPS AND BEES
PERS	9	20 HYMENOPTERA: ACULEATA: VESPINAE	FAM	SOCIAL WASPS
PERS	10	20 HYMENOPTERA: ACULEATA: VESPINAE	FAM	SOCIAL WASPS
PERS	110	82 HYMENOPTERA: PARASITICA: CHALCIDOIDEA: MESOPOLOBUS DIFFINIS	SP	A HYMENOPTERAN, YEW GALL MIDGE PARASITOID.
PERS	110	81 HYMENOPTERA: PARASITICA: CHALCIDOIDEA: TORYMUS NIGRITARSUS	SP	A HYMENOPTERAN, YEW GALL MIDGE PARASITOID.
PERS	112	83 HYMENOPTERA: PARASITICA: CYNIPIDAE: CYNIPS DIVISA	SP	GALL-MAKING WASP
PERS	70	54 HYMENOPTERA:ACULEATA:FORMICIDAE:FORMICA TRANSKAUCASICA: RDB	SP	A WOOD ANT
PERS	99	54 HYMENOPTERA:ACULEATA:FORMICIDAE:FORMICA TRANSKAUCASICA: RDB	SP	A WOOD ANT
PERS	103	75 INVERTEBRATES (GENERAL)		INVERTEBRATES IN GENERAL/UNSPECIFIED.
PERS	123	75 INVERTEBRATES (GENERAL)		INVERTEBRATES IN GENERAL/UNSPECIFIED.
PERS	126	75 INVERTEBRATES (GENERAL)		INVERTEBRATES IN GENERAL/UNSPECIFIED.
PERS	116	88 INVERTEBRATES FRESHWATER (GENERAL)		FRESHWATER INVERTEBRATES IN GENERAL.
PERS	51	47 LEPIDOPTERA: GEOMETRIDAE: BUPALUS PINIARIA	SP	BORDERED WHITE MOTH
PERS	96	71 LEPIDOPTERA: GEOMETRIDAE: EUSTROMA RETICULATUM: RDB	SP	NETTED CARPET MOTH
PERS	68	52 LEPIDOPTERA: GEOMETRIDAE: SIONA LINEATA: RDB	SP	BLACK-VEINED MOTH
PERS	12	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	22	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	32	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	36	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	37	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS

PERS	39	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	43	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	45	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	54	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	57	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	73	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	77	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	78	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	102	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	109	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	121	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	126	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
PERS	22	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
PERS	32	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
PERS	73	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
PERS	77	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
PERS	78	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
PERS	102	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
PERS	121	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS

PERS	82	58 LEPIDOPTERA: NOCTUIDAE: EUGRAPHE SUBROSEA: RDB	SP	ROSY MARSH MOTH
PERS	79	55 LEPIDOPTERA: NOCTUIDAE: LUPERINA NICKERLII LEECHI: RDB	SSP	SANDHILL RUSTIC, CORNISH SUBSPECIES
PERS	52	48 LEPIDOPTERA: NOCTUIDAE: PANOLIS FLAMMEA	SP	PINE BEAUTY MOTH
PERS	33	38 LEPIDOPTERA:MICROMOTHS:PHYLLONORYCTER LEUCOGRAPHELLA	SP	FIRETHORN LEAFMINER
PERS	90	66 MOLLUSCA: GASTROPODA: ARION DISTINCTUS	SP	GARDEN SLUG
PERS	90	65 MOLLUSCA: GASTROPODA: ARION FLAGELLUS	SP	DURHAM SLUG
PERS	87	61 MOLLUSCA: GASTROPODA: HELIX POMATIA	SP	THE ROMAN SNAIL
PERS	89	63 MOLLUSCA: GASTROPODA: LIMAX FLAVUS	SP	THE YELLOW SLUG
PERS	89	64 MOLLUSCA: GASTROPODA: LIMAX MACULATUS	SP	THE IRISH YELLOW SLUG
PERS	94	70 MOLLUSCA: GASTROPODA: TERRESTRIAL (GENERAL)	CLA	TERRESTRIAL SLUGS AND SNAILS IN GENERAL
PERS	109	79 NEUROPTERA (GENERAL)	ORD	LACEWINGS AND THEIR ALLIES
PERS	3	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	5	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	6	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	11	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	20	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	35	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	37	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	42	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	46	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES

PERS	47	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	55	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	56	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	59	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	60	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	61	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	64	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	72	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	75	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	76	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	88	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	95	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	98	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	102	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	104	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	109	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	111	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	121	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
PERS	126	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES

PERS	85	59	ODONATA: ANISOPTERA: CORDULIA AENEA	SP DOWNY EMERALD DRAGONFLY
PERS	114	87	ODONATA: ANISOPTERA: GOMPHUS VULGATISSIMUS	SP CLUB-TAIL DRAGONFLY
PERS	18	25	ODONATA: ANISOPTERA: LEUCORRHINIA DUBIA	SP WHITE-FACED DARTER
PERS	37	25	ODONATA: ANISOPTERA: LEUCORRHINIA DUBIA	SP WHITE-FACED DARTER
PERS	42	44	ODONATA: ANISOPTERA: LIBELLULA FULVA	SP SCARCE CHASER
PERS	49	44	ODONATA: ANISOPTERA: LIBELLULA FULVA	SP SCARCE CHASER
PERS	104	76	ODONATA: ANISOPTERA: ORTHETRUM COERULESCENS	SP KEELED SKIMMER DRAGONFLY
PERS	3	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	5	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	6	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	11	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	20	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	35	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	42	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	46	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	47	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	55	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	56	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	59	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES
PERS	60	15	ODONATA: ZYGOPTERA	SOR DAMSELFLIES

PERS	61	15 ODONATA: ZYGOPTERA
PERS	64	15 ODONATA: ZYGOPTERA
PERS	72	15 ODONATA: ZYGOPTERA
PERS	75	15 ODONATA: ZYGOPTERA
PERS	76	15 ODONATA: ZYGOPTERA
PERS	88	15 ODONATA: ZYGOPTERA
PERS	95	15 ODONATA: ZYGOPTERA
PERS	98	15 ODONATA: ZYGOPTERA
PERS	102	15 ODONATA: ZYGOPTERA
PERS	104	15 ODONATA: ZYGOPTERA
PERS	109	15 ODONATA: ZYGOPTERA
PERS	111	15 ODONATA: ZYGOPTERA
PERS	121	15 ODONATA: ZYGOPTERA
PERS	86	60 ODONATA: ZYGOPTERA: COENAGRION PULCHELLUM
PERS	88	62 ODONATA: ZYGOPTERA: ISCHNURA PUMILIO
PERS	19	26 ODONATA: ZYGOPTERA: PLATYCNEMIS PENNIPES
PERS	11	39 ORTHOPTERA (GENERAL)
PERS	37	39 ORTHOPTERA (GENERAL)
PERS	66	39 ORTHOPTERA (GENERAL)

SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SOR	DAMSELFLIES
SP	VARIABLE DAMSELFLY
SP	SCARCE BLUE-TAILED DAMSELFLY
SP	WHITE-LEGGED DAMSELFLY
ORD	GRASSHOPPPERS, CRICKETS, ETC. IN GENERAL
ORD	GRASSHOPPPERS, CRICKETS, ETC. IN GENERAL
ORD	GRASSHOPPPERS, CRICKETS, ETC. IN GENERAL

PERS	121	39	ORTHOPTERA (GENERAL)	ORD GRASSHOPPPERS, CRICKETS, ETC. IN GENERAL
PERS	122	39	ORTHOPTERA (GENERAL)	ORD GRASSHOPPPERS, CRICKETS, ETC. IN GENERAL
PERS	67	51	ORTHOPTERA: GRYLLUS CAMPESTRIS	SP FIELD CRICKET
PERS	113	86	ORTHOPTERA: TETRIX SPP.	GEN GROUNDHOPPERS
PERS	3	9	PLATYHELMINTHES (GENERAL)	PHY FLATWORMS IN GENERAL
PERS	65	50	PLECOPTERA (GENERAL)	ORD STONEFLIES
PERS	92	68	THYSANURA: LEPISMA SACCHARINA	SP SILVERFISH
PERS	3	11	TRICHOPTERA (GENERAL)	ORD CADDISFLIES IN GENERAL
LIT	139	98	ANNELIDA: HIRUDINEA: ERPOBDELLA OCTOLATA	SP ORDER PHARYNGOBDELLIDA: HIRUDINEA; A FW LEECH
LIT	149	57	ARACHNIDA: OPILIONES	ORD HARVESTMEN
LIT	171	1	ARTHROPODA (GENERAL)	PHY ARTHROPODA IN GENERAL
LIT	149	104	CHILOPODA (GENERAL)	CLA CENTIPEDES IN GENERAL
LIT	150	28	COLEOPTERA (GENERAL)	ORD BEETLES IN GENERAL
LIT	158	28	COLEOPTERA (GENERAL)	ORD BEETLES IN GENERAL
LIT	166	28	COLEOPTERA (GENERAL)	ORD BEETLES IN GENERAL
LIT	163	113	COLEOPTERA: CHRYSOMELIDAE: GASTROPHYSA POLYGONI	SP A LEAF BEETLE
LIT	150	105	COLEOPTERA: COCCINELLIDAE	FAM LADYBIRDS
LIT	160	111	COLEOPTERA: CURCULIONOIDEA: RHYNCHAENUS FAGI	SP BEECH WEEVIL
LIT	161	111	COLEOPTERA: CURCULIONOIDEA: RHYNCHAENUS FAGI	SP BEECH WEEVIL
LIT	144	10	COLLEMBOLA (GENERAL)	ORD SPRINGTAILS IN GENERAL

LIT	164	10 COLLEMBOLA (GENERAL)	ORD	SPRINGTAILS IN GENERAL
LIT	143	102 CRUSTACEA: CLADOCERA: DAPHNIA MAGNA	SP	DAPHNIA
LIT	145	103 CRUSTACEA: ISOPODA: ONISCIDEA: ARMADILLIDIUM VULGARE	SP	A TERRESTRIAL WOODLOUSE
LIT	146	103 CRUSTACEA: ISOPODA: ONISCIDEA: ARMADILLIDIUM VULGARE	SP	A TERRESTRIAL WOODLOUSE
LIT	165	114 CRUSTACEA: ONISCIDEA: LIGIA OCEANICA	SP	SEA SLATER
LIT	149	77 DIPLOPODA (GENERAL)	CLA	MILLIPEDES
LIT	158	41 DIPTERA (GENERAL)	ORD	DIPTERA IN GENERAL
LIT	162	112 DIPTERA: CULICIDAE: AEDES PUNCTOR	SP	A WOODLAND MOSQUITO
LIT	168	115 DIPTERA: DIXIDAE: DIXA NEBULOSA	SP	A MENISCUS MIDGE
LIT	173	118 DIPTERA: DROSOPHILIDAE: DROSOPHILA SPP.	GEN	FRUIT FLIES
LIT	159	110 DIPTERA: SCATHOPHAGIDAE: SCATHOPHAGA STERCORARIA	SP	YELLOW DUNG FLY
LIT	169	116 DIPTERA: SCATOPSIDAE: APILOSCATOPSE SCUTELLATA	SP	A SCATOPSID FLY
LIT	156	2 DIPTERA: SYRPHIDAE	FAM	HOVERFLIES
LIT	176	124 EPHEMEROPTERA: EPHEMERIDAE: EPHEMERA DANICA	SP	A MAYFLY
LIT	144	42 HEMIPTERA (GENERAL)	ORD	HEMIPTERA IN GENERAL
LIT	154	108 HEMIPTERA: HETEROPTERA: ANTHOCORIS GALLARUM-ULMI	SP	AN ANTHOCORID BUG
LIT	174	119 HEMIPTERA: HETEROPTERA: MIRIDAE: BLEPHARIDOPTERUS ANGULATUS	SP	BLACK-KNEED CAPSID
LIT	130	91 HEMIPTERA: HOMOPTERA: ALEUROTRACHELUS JELINEKII	SP	VIBURNAM WHITEFLY
LIT	142	101 HEMIPTERA: HOMOPTERA: APHIDIDAE: DREPANOSIPHUM PLATANOIDIS	SP	SYCAMORE APHID

LIT	174	120 HEMIPTERA: HOMOPTERA: APHIDIDAE: EUCALLIPTERUS TILLIAE	SP	LIME APHID
LIT	136	37 HEMIPTERA: HOMOPTERA: AUCHENORRYNCHA (ALL SPP)	SER	LEAFHOPPERS, ALL
LIT	170	117 HEMIPTERA: HOMOPTERA: COCCIDAE: PARTHENOLECANIUM SPP.	GEN	COCCID BUGS
LIT	141	100 HEMIPTERA: HOMOPTERA: PSYLLOIDEA: STROPHINGIA ERICAE	SP	A PSYLLID (ERICACEOUS)
LIT	144	49 HYMENOPTERA (GENERAL)	ORD	ANTS, BEES, WASPS ETC.
LIT	131	92 HYMENOPTERA: ACULEATA: (WASPS AND BEES IN GENERAL)	SOR	WASPS AND BEES IN GENERAL
LIT	153	92 HYMENOPTERA: ACULEATA: (WASPS AND BEES IN GENERAL)	SOR	WASPS AND BEES IN GENERAL
LIT	129	90 HYMENOPTERA: PARASITICA: CYNIPIDAE: ANDRICUS QUERCUSCALICIS	SP	CYNIPID GALL WASP (ALIEN).
LIT	157	109 HYMENOPTERA: PARASITICA: ICHNEUMONOIDEA: ICHNEUMONIDAE	FAM	ICHNEUMON WASPS.
LIT	152	107 HYMENOPTERA: SYMPHYTA (GENERAL)	SCL	SAWFLIES IN GENERAL
LIT	138	96 HYMENOPTERA:ACULEATA:FORMICIDAE:MYRMICA SABULETI	SP	A GRASSLAND ANT
LIT	138	97 HYMENOPTERA:ACULEATA:FORMICIDAE:MYRMICA SCABRINODIS	SP	A GRASSLAND ANT
LIT	172	75 INVERTEBRATES (GENERAL)		INVERTEBRATES IN GENERAL/UNSPECIFIED.
LIT	128	89 LEPIDOPTERA: ARCTIIDAE: TYRIA JACOBAEAE	SP	CINNABAR MOTH
LIT	178	126 LEPIDOPTERA: COLEOPHORIDAE: COLEOPHORA ALTICOLLELA	SP	A CASE-BEARING MICROMOTH
LIT	177	125 LEPIDOPTERA: ENNOMINAE: PACHYCNEMIA HIPPOCASTANARIA	SP	HORSE CHESNUT MOTH
LIT	134	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
LIT	144	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
LIT	155	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS
LIT	167	21 LEPIDOPTERA: MACROMOTHS	ORD	MACROMOTHS

LIT	144	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
LIT	158	31 LEPIDOPTERA: MICROMOTHS	SOR	MICROMOTHS
LIT	140	99 MOLLUSCA: GASTROPODA: THEBA PISANA	SP	A SNAIL
LIT	151	79 NEUROPTERA (GENERAL)	ORD	LACEWINGS AND THEIR ALLIES
LIT	147	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
LIT	148	16 ODONATA: ANISOPTERA	SOR	TRUE DRAGONFLIES
LIT	135	94 ODONATA: ANISOPTERA: CORDULEGASTER BOLTONI	SP	GOLDEN-RINGED DRAGONFLY
LIT	147	15 ODONATA: ZYGOPTERA	SOR	DAMSELFLIES
LIT	148	15 ODONATA: ZYGOPTERA	SOR	DAMSELFLIES
LIT	132	93 ORTHOPTERA:TETTIGONIIDAE:DECTICUS VERRUCIVORUS:RDB	SP	WART-BITER, BUSH-CRICKET.
LIT	133	93 ORTHOPTERA:TETTIGONIIDAE:DECTICUS VERRUCIVORUS:RDB	SP	WART-BITER, BUSH-CRICKET.
LIT	137	95 PLATYHELMINTHES:TURBELLARIA:TRICLADIDA:BDELLOCEPHALA PUNCTAT	SP	A TRICLAD FLATWORM (RARE - NOT RDB).
LIT	151	106 PSOCOPTERA (GENERAL)	ORD	BOOK-, BARK-, DUST-LICE
LIT	164	106 PSOCOPTERA (GENERAL)	ORD	BOOK-, BARK-, DUST-LICE
LIT	175	122 SIPHONAPTERA: CERATOPHYLLUS FARRENI	SP	FLEA
LIT	175	121 SIPHONAPTERA: CERATOPHYLLUS HIRUNDINIS	SP	FLEA
LIT	175	123 SIPHONAPTERA: CERATOPHYLLUS RUSTICUS	SP	A FLEA

Key.....	START YEAR	END YEAR	PRACT USE YET
84			YES
4			YES
117	1976	1980	YES
119	1961	1981	YES
120	1960	1983	YES
2	1960	1985	YES
3	1984	1987	YES
79	1987	1989	YES
14	1981	1991	YES
33	1990	1993	YES
21	1992	2022	YES
37		ON GOING	YES
99		ON GOING	YES
78		ON GOING	YES
124	1948	ON GOING	YES
51	1954	ON GOING	YES
109	1961	ON GOING	YES
110	1966	ON GOING	YES
67	1974	ON GOING	YES
52	1976	ON GOING	YES
10	1977	ON GOING	YES
63	1978	ON GOING	YES
91	1979	ON GOING	YES
45	1979	ON GOING	YES
85	1980	ON GOING	YES
53	1980	ON GOING	YES
55	1982	ON GOING	YES
54	1982	ON GOING	YES
38	1982	ON GOING	YES
56	1982	ON GOING	YES
31	1982	ON GOING	YES
20	1983	ON GOING	YES
98	1984	ON GOING	YES
97	1984	ON GOING	YES
47	1984	ON GOING	YES
40	1985	ON GOING	YES
114	1985	ON GOING	YES
127	1985	ON GOING	YES
95	1986	ON GOING	YES
39	1986	ON GOING	YES
64	1986	ON GOING	YES
81	1986	ON GOING	YES
46	1986	ON GOING	YES
116	1987	ON GOING	YES
93	1987	ON GOING	YES
61	1987	ON GOING	YES
15	1988	ON GOING	YES
77	1988	ON GOING	YES
82	1988	ON GOING	YES
16	1988	ON GOING	YES
89	1988	ON GOING	YES
68	1988	ON GOING	YES
49	1989	ON GOING	YES
111	1989	ON GOING	YES
57	1989	ON GOING	YES
102	1990	ON GOING	YES

65	1990	ON	GOING	YES
7	1990	ON	GOING	YES
96	1990	ON	GOING	YES
122	1990	ON	GOING	YES
42	1991	ON	GOING	YES
80	1991	ON	GOING	YES
101	1991	ON	GOING	YES
113	1991	ON	GOING	YES
100	1991	ON	GOING	YES
125	1992	ON	GOING	YES

Key.....	START YEAR	END YEAR	PRACT USE YET
103			NO
74			NO
126			NO
69			NO
5	1986	ON GOING	NO
118	1979	1982	NO
90	1979	1982	NO
58	1979	1989	NO
75	1981	1991	NO
83	1987	1991	NO
17	1981	1992	NO
88	1988	1992	NO
44	1989	1992	NO
48	1990	1992	NO
73	1991	1993	NO
19	1992	1993?	NO
25	1992	1996	NO
23	1992	2022	NO
22	1992	2022	NO
24	1992	2022	NO
36		ON GOING	NO
35		ON GOING	NO
104		ON GOING	NO
123	1964	ON GOING	NO
13	1971	ON GOING	NO
87	1971	ON GOING	NO
86	1980	ON GOING	NO
71	1981	ON GOING	NO
26	1983	ON GOING	NO
27	1984	ON GOING	NO
30	1984	ON GOING	NO
94	1984	ON GOING	NO
28	1984	ON GOING	NO
62	1987	ON GOING	NO
59	1987	ON GOING	NO
60	1987	ON GOING	NO
50	1988	ON GOING	NO
18	1988	ON GOING	NO
92	1989	ON GOING	NO
43	1989	ON GOING	NO
105	1990	ON GOING	NO
34	1990	ON GOING	NO
29	1990	ON GOING	NO
72	1990	ON GOING	NO
6	1990	ON GOING	NO
121	1990	ON GOING	NO
41	1990	ON GOING	NO
115	1991	ON GOING	NO
12	1991	ON GOING	NO
1	1991	ON GOING	NO
66	1991	ON GOING	NO
76	1992	ON GOING	NO
107	1992	ON GOING	NO
106	1992	ON GOING	NO
70	1992	ON GOING	NO
32	1992	ON GOING	NO

11	1992 ON GOING	NO
8	1992 ON GOING	NO
108	1992 ON GOING	NO

16 SEP 1992CONTACTS LITERATURE

RECORD TYPE	KEY	NAME	ORGANISATION	ADDRESS	POSTCODE
LIT	96	ADAMS, J.	UNIVERSITY OF LONDON	ZOOLOGY DEPT. UNIVERSITY OF LONDON KING'S COLLEGE STRAND, LONDON	WC2R 2LS
LIT	104	AL-DABBAGH, K. Y. AND BLOCK, W.	LEICESTER UNIVERSITY	DEPT. OF ZOOLOGY SCHOOL OF BIOLOGICAL SCIENCES LEICESTER UNIVERSITY LEICESTER	LE1 7RH
PERS PERS LIT	7	ARCHER, DR M. E.	UNIVERSITY COLLEGE OF RIPON AND YORK ST	UNIVERSITY COLLEGE OF RIPON AN LORD MAYOR'S WALK YORK	YO3 7EX
LIT	116	BRETHERTON, R. F.		FOLLY HILL BIRTLEY GREEN BRAMLEY, GUILDFORD SURREY	GU5 0LE
LIT	102	CARVALHO, G. R. AND CRISP, D. J.*	NERC UNIT OF MARINE INVERTEBRATE BIOLOGY	NERC UNIT OF MARINE INVERTEBRA MENAI BRIDGE GWYNEDD WALES	
LIT	92	CHERRIL, A. J. AND BROWN, V. K.*	IMPERIAL COLLEGE, LONDON UNIVERSITY	CENTRE FOR POPULATION BIOLOGY IMPERIAL COLLEGE, SILWOOD PARK ASCOT, BERKS	SL5 7PY
LIT	124	CLARK, F. AND MCNEIL, D. A. C.	UNIVERSITY OF LEICESTER	DEPT. OF ZOOLOGY UNIVERSITY OF LEICESTER UNIVERSITY ROAD LEICESTER	LE1 7RH
LIT	99	COWIE, R. H.	UNIVERSITY OF LIVERPOOL	DEPT. OF ZOOLOGY UNIVERSITY OF LIVERPOOL	L69 3BX

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LIT	88 CRAWLEY, M. J. AND GILLMAN, M. P.	IMPERIAL COLLEGE, LONDON UNIVERSITY	CENTRE FOR POPULATION BIOLOGY DEPT. PURE AND APPLIED BIOLOGY IMPERIAL COLLEGE, SILWOOD PARK ASCOT, BERKSHIRE	SL5 7PY
LIT LIT	110 DAY, K. R. AND WATT, A. D.	UNIVERSITY OF ULSTER	DEPT. OF BIOLOGY UNIVERSITY OF ULSTER AT COLERA NORTHERN IRELAND	BT52 1SA
LIT	97 ELMES, G. W. AND WARDLAW, J. C.	ITE	THE INSTITUTE OF TERRESTRIAL E FURZEBROOK RESEARCH STATION WAREHAM DORSET	
LIT	109 GIBBONS, D. S.	UNIVERSITY OF DURHAM	ZOOLOGY DEPARTMENT UNIVERSITY OF DURHAM	
LIT	123 GLEN, D. M. AND BARLOW, N. D.	UNIVERSITY OF GLASGOW	DEPT. OF ZOOLOGY UNIVERSITY OF GLASGOW	
LIT	91 HAES, E. C. M., CHERRILL, A. J. AND BROW	IMPERIAL COLLEGE, LONDON UNIVERSITY.	CENTRE FOR POPULATION BIOLOGY IMPERIAL COLLEGE, SILWOOD PARK ASCOT, BERKS	SL5 7PY
LIT	89 HAILS, R.S. AND CRAWLEY, M. J.	IMPERIAL COLLEGE, LONDON UNIVERSITY	CENTRE FOR POPULATION BIOLOGY IMPERIAL COLLEGE SILWOOD PARK ASCOT, BERKSHIRE.	SL5 7PY
LIT	105 HASSEL, M. AND DANGERFIELD, J. M.	UNIVERSITY OF EAST ANGLIA	SCHOOL OF ENVIRONMENTAL SCIENC UNIVERSITY OF EAST ANGLIA NORWICH	NR4 7TJ
LIT	93 HATCHER, P. E.	OXFORD POLYTECHNIC	SCHOOL OF BIOLOGICAL AND MOLEC OXFORD POLYTECHNIC HEADINGTON OXFORD	OX4 2BP

LIT	119 KOMEILI BIRJANDI, A.	IMPERIAL COLLEGE, LONDON UNIVERSITY	IMPERIAL COLLEGE SILWOOD PARK ASCOT, BERKS	SL5 7PY
LIT	103 LAWTON, J. H. AND GASTON, K. J.	UNIVERSITY OF YORK	DEPT. OF BIOLOGY UNIVERSITY OF YORK YORK	YO1 5DD
LIT	126 MAJERUS, M. E. N.	CAMBRIDGE UNIVERSITY	DEPT. OF GENETICS DOWNING STREET CAMBRIDGE	
PERS LIT LIT	66 MOORE, DR. NORMAN W.	(RETIRED NCC)	THE FARMHOUSE SWAVESEY CAMBRIDGE	CB4 5RA
LIT	115 MORRIS, M. G. AND RISPIN, W. E.	ITE	ITE FURZEBROOK RESEARCH STATION FURZEBROOK WAREHAM, DORSET	
LIT	98 MURPHY, P. M. AND LEARNER, M. A.	UWIST	DEPT. OF APPLIED BIOLOGY UWIST KING EDWARD VII AVENUE CARDIFF, SOUTH GLAMORGAN WALES	
LIT	94 ORMEROD, S. J.*, WEATHERLEY, N. S. AND M	UNIVERSITY OF WALES COLLEGE OF CARDIFF	CATCHMENT RESEARCH GROUP SCHOOL OF PURE AND APPLIED BIO UNIVERSITY OF WALES COLLEGE OF CARDIFF	CF1 3NX
LIT LIT LIT LIT LIT LIT	107 OWEN, DR. J.		66 SCRAPTOFT LANE LEICESTER	LE5 1HU

LIT
LIT

LIT	111 PACKER, M. J. AND CORBET, P. S.	UNIVERSITY OF DUNDEE	DEPT. OF BIOLOGICAL SCIENCES UNIVERSITY OF DUNDEE
LIT	106 PARKER, N. J. B.	UNIVERSITY OF GLASGOW	DEPT. OF ZOOLOGY UNIVERSITY OF GLASGOW
LIT	117 PEACH, W. J. AND KINSLER, R. A.	LEICESTER POLYTECHNIC	SCHOOL OF LIFE SCIENCES LE7 9SU LEICESTER POLYTECHNIC SCRAPTOFT LEICESTER
LIT	127 RANDALL, M. G. M.	UNIVERSITY OF DURHAM	DEPT. OF ZOOLOGY UNIVERSITY OF DURHAM SOUTH ROAD DURHAM CITY
LIT	121 SAVAGE, A. A.	CREWE AND ALSAGER COLLEGE OF HIGHER EDUC	CREWE AND ALSAGER COLLEGE OF H CW1 1DU CREWE CHESHIRE
LIT	118 SEDDON, A. M.	NORTH EAST LONDON POLYTECHNIC	DEPT. OF BIOLOGY E15 4LZ NORTH EAST LONDON POLYTECHNIC ROMFORD ROAD LONDON
LIT	122 SHORROCKS, B AND CHARLESWORTH, P.	UNIVERSITY OF LEEDS	DEPT. OF PURE AND APPLIED BIOL LS2 9JT UNIVERSITY OF LEEDS
LIT	112 SOTHERTON, N. W.	THE GAME CONSERVANCY	THE GAME CONSERVANCY FORDINGBRIDGE HAMPSHIRE
LIT	90 SOUTHWOOD, T. R. E., HASSEL, M. P., READ	IMPERIAL COLLEGE, LONDON UNIVERSITY	DEPT. OF PURE AND APPLIED BIOL SL5 7PY IMPERIAL COLLEGE, SILWOOD PARK ASCOT, BERKS

LIT	108 STERLING, P. H., GIBSON, C. W. D.*, AND	IMPERIAL COLLEGE, LONDON UNIVERSITY.	IMPERIAL COLLEGE SILWOOD PARK ASCOT, BERKS	SL5 7PY
LIT	120 SUDD, J. H. AND QAYYUM K. LODHI, A.	UNIVERSITY OF HULL	DEPT. OF ZOOLOGY UNIVERSITY OF HULL HULL	HU6 7RX
LIT	113 TURNER, B. D.	UNIVERSITY OF LONDON	DEPT. OF ZOOLOGY KING'S COLLEGE LONDON	
LIT	95 WALOFF, N. AND THOMPSON, P.	IMPERIAL COLLEGE, LONDON UNIVERSITY	IMPERIAL COLLEGE, SILWOOD PARK ASCOT, BERKS	SL5 7PY
LIT	101 WELLINGS, P. W., CHAMBERS, R. J., DIXON,	UNIVERSITY OF EAST ANGLIA	SCHOOL OF BIOLOGICAL SCIENCES UNIVERSITY OF EAST ANGLIA NORWICH	NR4 7TJ
LIT	100 WHITTAKER, J. B.	UNIVERSITY OF LANCASTER	DEPT. OF BIOLOGICAL SCIENCES UNIVERSITY OF LANCASTER LANCASTER	LA1 4YQ
LIT	114 WILLOWS, R. I.	NERC, INSTITUTE FOR MARINE ENVIRONMENTAL	NERC INSTITUTE FOR MARINE ENVIRONME PROSPECT PLACE THE HOE PLYMOUTH	PL1 3DH
LIT	125 WRIGHT, J. F., HILEY, P. D. AND BERRIE,	FBA	FBA RIVER LABORATORY EAST STOKE WAREHAM, DORSET	

16 SEP 1992REFS LITERATURE

KEY	AUTHOR	YEAR	TITLE	JOURNAL	VOLPAGE
63	ADAMS, J.	1980	THE ROLE OF COMPETITION IN THE POPULATION DYNAMICS OF A FRESHWATE FLATWORM, BDELLOCEPHALA PUNCTATA (TURBELLARIA, TRICLADIDA).	JOURNAL OF ANIMAL ECOLOGY.	49, 565-579.
71	AL-DABBAGH, K. Y. AND BLOCK, W	1981	POPULATION ECOLOGY OF A TERRESTRIAL ISOPOD IN TWO BRECKLAND GRASS HEATHS.	JOURNAL OF ANIMAL ECOLOGY.	50, 61-77.
57	ARCHER, M. E.	1988	THE ACULEATE WASP AND BEE ASSEMBLAGE (HYMENOPTERA: ACULEATA) OF A WOODLAND: BERNWOOD FOREST IN THE ENGLISH MIDLANDS.	THE ENTOMOLOGIST.	107(1), 24-33.
81	ARCHER, M. E.	1990	THE SOLITARY ACULEATE WASPS AND BEES (HYMENOPTERA: ACULEATA) OF AN ENGLISH SUBURBAN GARDEN.	ENTOMOLOGIST'S GAZETTE.	41, 129-142.
77	ARCHER, M. E.	1990	SEASONAL FLIGHT ACTIVITY OF SOCIAL VESPINAE (HYM.,VESPIDAE) AS MONITORED BY MALAISE TRAP CATCHES.	ENTOMOLOGIST'S MONTHLY MAGAZINE.	126, 179-184
89	BRETHERTON, R. F.	1983	SPRING IN THE MOTH TRAP, 1981 AND 1982: A CONTRAST.	ENTOMOLOGIST'S GAZETTE.	34, 13-16.
69	CARVALHO, G. R. AND CRISP, D.	1987	THE CLONAL ECOLOGY OF DAPHNIA MAGNA (CRUSTACEA: CLADOCERA). I. TEMPORAL CHANGES IN THE CLONAL STRUCTURE OF A NATURAL POPULATION.	JOURNAL OF ANIMAL ECOLOGY.	56, 453-468.
59	CHERRILL, A. J. AND BROWN, V.	1990	THE LIFE-CYCLE AND DISTRIBUTION OF THE WART-BITER DECTICUS VERRUCIVORUS (L.) (ORTHOPTERA: TETTIGONIIDAE) IN A CHALK GRASSLAND IN SOUTHERN ENGLAND.	BIOLOGICAL CONSERVATION.	53, 125-143.
97	CLARK, F. AND MCNEIL, D. A. C.	1991	TEMPORAL VARIATION IN THE POPULATION DENSITIES OF FLEAS IN HOUSE MARTIN NESTS (DELICHON U. URBICA (LINNAEUS)) IN LEICESTERSHIRE, U.K.	ENTOMOLOGIST'S GAZETTE.	42, 281-288.
66	COWIE, R. H.	1984	THE LIFE-CYCLE AND PRODUCTIVITY OF THE LAND SNAIL THEBA PISANA (MOLLUSCA: HELICIDAE).	JOURNAL OF ANIMAL ECOLOGY.	53, 311-325.
54	CRAWLEY, M.J AND GILLMAN, M. P	1989	POPULATION DYNAMICS OF CINNABAR MOTH AND RAGWORT IN GRASSLAND.	JOURNAL OF ANIMAL ECOLOGY.	58, 1035-1050.
83	DAY, K. R. AND WATT, A. D.	1989	POPULATION STUDIES OF THE BEECH LEAF MINING WEEVIL (RHYNCHAENUS FAGI) IN IRELAND AND SCOTLAND.	ECOLOGICAL ENTOMOLOGY.	14, 23-30.

64 ELMES, G. W. AND WARDLAW, J. C 1982 A POPULATION STUDY OF THE ANTS MYRMICA SABULETI AND MYRMICA SCABRINODIS, LIVING AT TWO SITES IN THE SOUTH OF ENGLAND. I. A COMPARISON OF COLONY POPULATIONS. JOURNAL OF ANIMAL ECOLOGY. 51, 651-664.

82 GIBBONS, D. S. 1987 THE CAUSES OF SEASONAL CHANGES IN NUMBERS OF THE YELLOW DUNG FLY, SCATHOPHAGA STERCORARIA (DIPTERA: SCATHOPHAGIDAE). ECOLOGICAL ENTOMOLOGY. 12, 173-185.

96 GLEN, D. M. AND BARLOW, N. D. 1980 INTERACTION OF A POPULATION OF THE BLACK-KNEED CAPSID, BLEPHARIDOPTERUS AGULATUS, AND ITS PREY, THE LIME APHID. ECOLOGICAL ENTOMOLOGY. 5, 335-344.

58 HAES, E. C. M., CHERRIL, A. J. 1990 METEOROLOGICAL CORRELATES OF WART-BITER (ORTHOPTERA: TETTIGONIIDA ABUNDANCE. THE ENTOMOLOGIST. 109(2), 93-99.

55 HAILS, R. S. AND CRAWLEY, M. J 1991 THE POPULATION DYNAMICS OF AN ALIEN INSECT: ANDRICUS QUERCUSCALIC (HYMENOPTERA: CYNIPIDAE). JOURNAL OF ANIMAL ECOLOGY. 60, 545-562.

72 HASSEL, M. AND DANGERFIELD, J. 1990 DENSITY-DEPENDENT PROCESSES IN THE POPULATION DYNAMICS OF ARMADILLIDIUM VULGARE (ISOPODA: ONISCIDAE). JOURNAL OF ANIMAL ECOLOGY. 59, 941-958.

60 HATCHER, P. E. 1991 THE CONIFER-FEEDING MACROLEPIDOPTERA FAUNA OF AN ENGLISH WOODLAND AS DETERMINED BY LARVAL SAMPLING. THE ENTOMOLOGIST. 110(1), 11-23.

92 KOMEILI BIRJANDI, A. 1981 BIOLOGY AND ECOLOGY OF PARTHENOLECANIUM SPP. (HEM.,COCCIDAE). ENTOMOLOGIST'S MONTHLY MAGAZINE. 117, 47-57.

70 LAWTON, J. H. AND GASTON, K. J 1989 TEMPORAL PATTERNS IN THE HERBIVOROUS INSECTS OF BRACKEN: A TEST O COMMUNITY PREDICTABILITY. JOURNAL OF ANIMAL ECOLOGY. 58, 1021-1034.

99 MAJERUS, M. E. N. 1981 THE INHERITANCE AND MAINTENANCE OF THE MELANIC FORM NIGRESCENS OF PACHYCNEMIA HIPPOCASTANARIA (LEPIDOPTERA: ENNOMINAE). ECOLOGICAL ENTOMOLOGY. 6, 417-422.

73 MOORE, N. W. 1990 FROM ARABLE FARM TO NEW TOWN: CHANGES IN FLORA AND FAUNA DURING THE DEVELOPMENT OF BAR HILL, CAMBRIDGESHIRE FROM 1966 TO 1988. NATURE IN CAMBRIDESHIRE. 32, 27-58.

74 MOORE, N. W. 1991 THE DEVELOPMENT OF DRAGONFLY COMMUNITIES AND THE CONSEQUENCES OF TERRITORIAL BEHAVIOUR: A 27 YEAR STUDY ON SMALL PONDS AT WOODWALT FEN, CAMBRIDGESHIRE, UNITED KINGDOM. ODONATOLOGICA. 20(2), 203-231.

88 MORRIS, M. G. AND RISPIN, W. E 1988 A BEETLE FAUNA OF OOLITHIC LIMESTONE GRASSLAND, AND THE RESPONSES BIOLOGICAL CONSERVATION. 43, 87-105.

OF SPECIES TO CONSERVATION MANAGEMENT BY DIFFERENT CUTTING REGIME

65 MURPHY, P. M. AND LEARNER, M. 1982 THE LIFE-HISTORY AND PRODUCTION OF THE LEECH ERPOBDELLA OCTOCULAT (HIRUDINEA, ERPOBDELLIDAE) IN THE RIVER ELY, SOUTH WALES. JOURNAL OF ANIMAL ECOLOGY. 51, 57-67.

61 ORMEROD, S. J., WEATHERLEY, N. 1990 THE INFLUENCE OF CONIFER PLANTATIONS ON THE DISTRIBUTION OF THE GOLDEN RINGED DRAGONFLY CORDULEGASTER BOLTONI (ODONATA) IN UPLAND WALES. BIOLOGICAL CONSERVATION. 53, 241-251.

80 OWEN, D. F. 1989 HOW TO MONITOR ANNUAL FLUCTUATIONS IN NUMBERS OF THE IMMIGRANT MO AUTOGRAPHA GAMMA (L.)(LEPIDOPTERA: NOCTUIDAE). ENTOMOLOGIST'S GAZETTE. 40, 197-198.

76 OWEN, D. F. 1991 OPILIONES (ARACHNIDA) AT A SINGLE SITE: TEN YEARS OF MONITORING. ENTOMOLOGIST'S MONTHLY MAGAZINE. 127, 107-108.

75 OWEN, J. 1991 THE ECOLOGY OF A GARDEN: THE FIRST FIFTEEN YEARS. BOOK. CUP. 403PP.

84 PACKER, M. J. AND CORBET, P. S 1989 SEASONAL EMERGENCE, HOST-SEEKING ACTIVITY, AGE COMPOSITION AND REPRODUCTIVE BIOLOGY OF THE MOSQUITO AEDES PUNCTOR. ECOLOGICAL ENTOMOLOGY. 14, 433-442.

78 PARKER, N. J. B. 1984 BIOLOGY AND BIONOMICS IN SCOTLAND OF ANTHOCORIS GALLARUM-ULMI. ECOLOGICAL ENTOMOLOGY. 9, 55-67.

90 PEACH, W. J. AND KINSLER, R. A 1988 SEASONAL CHANGES OF SEX RATIO IN DIXA NEBULOSA MEIGEN (DIPT., DIXIDAE). ENTOMOLOGIST'S MONTHLY MAGAZINE. 124, 83-86.

100 RANDALL, M. G. M. 1982 THE DYNAMICS OF AN INSECT POPULATION THROUGHOUT ITS ALTITUDINAL DISTRIBUTION: COLEOPHORA ALTICOLELLA (LEPIDOPTERA) IN NORTHERN ENGLAND. JOURNAL OF ANIMAL ECOLOGY. 51, 993-1016.

94 SAVAGE, A. A. 1985 THE BIOLOGY AND MANAGEMENT OF AN INLAND SALINE LAKE. BIOLOGICAL CONSERVATION. 31, 107-123.

91 SEDDON, A. M. 1985 LIFE-HISTORY AND POPULATION BIOLOGY OF APILOSCATOPSE SCUTELLATA (LOEW) (DIPT., SCATOPSIDAE) WITH NOTES ON THE FINAL INSTAR LARVA. ENTOMOLOGIST'S MONTHLY MAGAZINE. 121, 45-52.

95 SHORROCKS, B. AND CHARLESWORTH 1980 THE DISTRIBUTION AND ABUNDANCE OF THE BRITISH FUNGAL-BREEDING DROSOPHILA. ECOLOGICAL ENTOMOLOGY. 5, 61-78.

85 SOTHERTON, N. W. 1982 OBSERVATIONS ON THE BIOLOGY AND ECOLOGY OF THE CHRYSOMELID BEETLE GASTROPHYSA POLGONI IN CEREAL FIELDS. ECOLOGICAL ENTOMOLOGY. 7, 197-206.

56	SOUTHWOOD, T. R. E., HASSEL, M	1989	POPULATION DYNAMICS OF THE VIBURNAM WHITEFLY (ALEUROTRACHELUS JELINEKII).	JOURNAL OF ANIMAL ECOLOGY.	58, 921-942.
79	STERLING, P. H., GIBSON, C. W.	1992	LEAF MINER ASSEMBLIES: EFFECTS OF PLANT SUCCESSION AND GRAZING MANAGEMENT.	ECOLOGICAL ENTOMOLOGY.	17, 167-178.
93	SUDD, J. H. AND QAYYUM K. LODH	1981	THE DISTRIBUTION OF FORAGING WORKERS OF THE WOOD-ANT FORMICA LUGUBRIS ZETTERSTEDT (HYMENOPTERA: FORMICIDAE) AND THEIR EFFECT ON THE NUMBERS AND DIVERSITY OF OTHER ARTHROPODA.	BIOLOGICAL CONSERVATION.	20, 133-145.
86	TURNER, B. D.	1983	ANNUAL RESPIRATION AND PRODUCTION ESTIMATES FOR COLLEMBOLAN AND PSOCOPTERAN EPIPHYTE HERBIVORES ON LARCH TREES IN SOUTHERN ENGLAND.	ECOLOGICAL ENTOMOLOGY.	8, 213-228.
62	WALOFF, N. AND THOMPSON, P.	1980	CENSUS DATA OF POPULATIONS OF SOME LEAFHOPPERS (AUCHENORRHYNCHA, HOMOPTERA) OF ACIDIC GRASSLAND.	JOURNAL OF ANIMAL ECOLOGY.	49, 395-416.
68	WELLINGS, P. W., CHAMBERS, R.	1985	SYCAMORE APHID NUMBERS AND POPULATION DENSITY. I. SOME PATTERNS.	JOURNAL OF ANIMAL ECOLOGY.	54, 411-424.
67	WHITTAKER, J. B.	1985	POPULATION CYCLES OVER A 16- YEAR PERIOD IN AN UPLAND RACE OF STROPHINGIA ERICAE (HOMOPTERA: PSYLLOIDEA) ON CALLUNA VULGARIS.	JOURNAL OF ANIMAL ECOLOGY.	54, 311-321.
87	WILLOWS, R. I.	1987	POPULATION DYNAMICS AND LIFE HISTORY OF TWO CONTRASTING POPULATIO OF LIGIA OCEANICA (CRUSTACEA: ONISCIDEA) IN THE ROCKY SUBLITTORAL	JOURNAL OF ANIMAL ECOLOGY.	56, 315-330.
98	WRIGHT, J. F., HILEY, P. D. AN	1981	A 9-YEAR STUDY OF THE LIFE-CYCLE OF EPHEMERA DANICA MULL. (EPHEMERIDAE:EPHEMEROPTERA) IN THE RIVER LAMBOURN, ENGLAND.	ECOLOGICAL ENTOMOLOGY.	6, 321-331.

16 SEP 1992SITES LITERATURE

RECORD TYPE	KEY	NAME	AREA	GRIDREF.	ALT1	ALT2	STATUS	AONB ESA NP URB	VC	COUNTY
LIT	127	18 STREAMS IN 10 KM RADIUS, UPPER RIVER TYWI, UPLAND WEST WA			250	500				
PERS	9	66 SCRAPTOFT LANE, LEICESTER		43624052			GARDEN		55	LEICESTERSHIRE
LIT										
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LIT										
LIT	150	A SITE ON THE DORSET-HAMPSHIRE BORDER	800HA				OTHER		9, 11	HAMPSHIRE, DORSET
LIT	126	AN NNR, EAST SUSSEX.	49.50HA		100	150	NNR		14	EAST SUSSEX
LIT							SSSI			
LIT	142	BAR HILL, CAMBRIDGE	142HA	5238-63-			OTHER		29	CAMBRIDGE
LIT	136	BEARSDEN, STRATHCLYDE		2652-72-			OTHER		99	STRATHCLYDE
LIT	125	BERNWOOD FOREST, OXFORDSHIRE, BUCKHINGHAMSHIRE.					OTHER		23, 24	BUCKINGHAMSHIRE, OXF
LIT										
LIT	154	CASTOR HANGLAND NNR, CAMBRIDGESHIRE		5312-01-			NNR		32	CAMBRIDGESHIRE
LIT	157	CORONATION WOOD, EPPING FOREST, ESSEX	1HA	51411956	60	65	OTHER		18	ESSEX
LIT	162	COSBY, LEICESTERSHIRE		425--9--			OTHER		55	LEICESTERSHIRE
LIT	173	DRIGG, CUMBRIAN COAST		34049987	15		OTHER		70	CUMBRIA
LIT	163	EAST GOSCOTE, LEICESTERSHIRE		436--1--			OTHER		55	LEICESTERSHIRE
LIT	128	ELM SLOPE, SILWOOD PARK, BERKS.	0.14HA	4194-69-			OTHER		22	BERKSHIRE

LIT	155 FOLLY HILL, BIRTLEY GREEN, BRAMLEY, SURREY		5100-44-			GARDEN		17 SURREY
LIT	144 GARSCUBE ESTATE, UNIVERSITY OF GLASGOW		2657-70-			ESTATE		77 STRATHCLYDE
LIT								
LIT	137 GLASGOW		2659-65-			OTHER		77 STRATHCLYDE
LIT	148 GLENTRESS FOREST, NEAR PEEBLES, TWEEDALE		3628-41-	350		OTHER		78 BORDERS
LIT	146 HOUGHALL FARM, DURHAM		45280403	30	40	OTHER		67 DURHAM
LIT	161 HUGHENDEN PLAYING FIELDS, GLASGOW		2658-65-			OTHER		77 STRATHCLYDE
LIT	140 LAKENHEATH WARREN	0.01HA	5277-79-	15	55	OTHER		26 SUFFOLK
LIT	158 LANGDALE FOREST, NORTH YORKS	9.3HA	3564-00-			OTHER		65 NORTH YORKSHIRE
LIT	169 LEICESTER		436--0--			OTHER		55 LEICESTERSHIRE
LIT	174 LITTLE DUNN FELL, MOOR HOUSE NNR, CUMBRIA		35656310 35694325	215	610	NNR		70 CUMBRIA
LIT	138 LLYN BODGYLCHED, NE ANGLESEY. A FISHLESS EUTROPHIC LAKE.	10HA	23585770			OTHER		52 GWYNEDD
LIT	129 LOCH BARDOWIE, GLASGOW.		26580736			OTHER		86 STRATHCLYDE
LIT	123 NASH'S SLOPE AND UPPER POND FIELDS, SILWOOD PARK.		4194-69-			OTHER		22 BERKSHIRE
LIT	172 NEWFOREST		41------			OTHER	NP	11 HAMPSHIRE
LIT	166 OADBY 2		436--0--			OTHER		55 LEICESTERSHIRE
LIT	165 OADBY, LEICESTERSHIRE		426--9--			OTHER		55 LEICESTERSHIRE
LIT	149 PADDOCKMUIR WOOD, SCOTLAND	68HA	3722-20-			OTHER		89 TAYSIDE
LIT	147 POMEROY FORESTRY SCHOOL, DANI, CO. TYRONE			180		OTHER		H36 TYRONE

LIT	151 RANMORE COMMON, DORKING, SURREY		51134504 183		OTHER	17	SURREY
LIT	132 RIVER ELY, SOUTH WALES	0.01HA	31084763		OTHER	41	SOUTH GLAMORGAN
LIT	156 RIVER ITCHEN, HYDE ABBEY, WINCHESTER		41485300		OTHER	11	HAMPSHIRE
LIT	171 RIVER LAMBOURN, BAGNOR	0.1KM	4145-69-		OTHER	22	BERKSHIRE
LIT	153 ROBIN HOOD'S BAY, YORKSHIRE	0.0096HA	45900110 0		OTHER	62	NORTH YORKSHIRE
LIT	135 ROSSDHU ESTATE, STRATHCLYDE		2636-89-		ESTATE	99	STRATHCLYDE
LIT	134 SIKE HILL, MOOR HOUSE NNR		35757328 549		NNR	70	CUMBRIA
LIT	124 SILWOOD PARK, BERKS.		4194-69-		OTHER	22	BERKSHIRE
LIT							
LIT							
LIT	131 SITE X, A SLOPE ON THE CULM MEASURES, SW ENGLAND.						
LIT	139 SKIPWORTH COMMON	0.26HA	44663380 5	15	CTR	61	HUMBERSIDE
LIT	168 ST HARROLD, LEICESTERSHIRE		433--2--		OTHER	55	LEICESTERSHIRE
LIT	130 STONEHILL DOWN, PURBECK HILLS, DORSET.		3092-82-		SSSI	9	DORSET
LIT	167 STOUGHTON, LEICESTERSHIRE		436--0--		OTHER	55	LEICESTERSHIRE
LIT	133 TENBY, SOUTH WALES		2213-00-		OTHER	45	DYFED
LIT	145 UPPER SEEDS FIELD, WYTHAM WOODS, OXFORDSHIRE.	10HA	4247-08-		OTHER	23	OXFORDSHIRE
LIT	170 WALCOTE, LEICESTERSHIRE		425--8--		OTHER	55	LEICESTERSHIRE
LIT	159 WATCH LANE FLASH, SANDBACH, CHESHIRE		33729606		LNR SSSI	58	CHESHIRE
LIT	141 WEETING HEATH NNR, BRECKLAND		5277-89- 15	55	NNR	28	NORFOLK

LIT						
LIT	164 WHETSTONE, LEICESTERSHIRE		425--9--	OTHER	55	LEICESTERSHIRE
LIT	152 WHITBY HARBOUR, YORKSHIRE	1HA	45953049 0	OTHER	62	NORTH YORKSHIRE
LIT	160 WIKE AND STAIRFOOT WOODS, LEEDS		443--4--	OTHER	64	WEST YORKSHIRE
LIT	143 WOODWALTON FEN NNR, CAMBS.		5222-84-	NNR SSSI	29	CAMBRIDGESHIRE

16 SEP 1992FORMS LITERATURE

KEY	CON	TAX	STAGES	SIT	PUBLICATIONS	PUBLICATION TYPE.....	REFS	NUMBER	O	OBJ	COMMENTS.....
128	88	89	1 5	123	YES	PAPER		54	2 3		EXTENDS FROM RAGWORT BIOCONTROL STUDIES IN NEW ZEALAND.
129	89	90	1 5 7	124	YES	PAPER		55	2		INVASION DYNAMICS. EFFECTS OF ALIEN ON ITS NATIVE HOST AND ITS' ARTHROPOD GUILD.
130	90	91	1 2 5	124	YES	PAPER		56	2		
131	7	92	5	125	YES	PAPER		57	2		
132	91	93	5	126	YES	PAPER		58	1 2		
133	92	93	2 5	126	YES	PAPERS		59	1 2 3 4		
134	93	21	2	125	YES	PAPER		60	2 3 5		
135	94	94	2	127	YES	PAPER		61	1 2 3		
136	95	37	2 5	128	YES	PAPER		62	2		
137	96	95	2 5	129	YES	PAPER		63	2		
138	97	96 97	5 6	130 131	YES	PAPERS		64	1 2 3		SITE X, LAST KNOWN LARGE BLUE BUTTERFLY SITE. PARASITIC ON MYRMICA SABULETI.
139	98	98	2 5	132	YES	PAPER		65	2		
140	99	99	5	133	YES	PAPER		66	2		
141	100	100	2 5	134	YES	PAPER		67	2		
142	101	101	2 5 	135 136 137	YES	PAPERS		68	2		
143	102	102	5	138	YES	PAPERS		69	2		
144	103	42 10	1 2	139	YES	PAPER		70	2		COMMUNITY ECOLOGY

49 3
31 5
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145 104 103 2 140 YES PAPER
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146 105 103 2 141 YES PAPER
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147 66 15 5 142 YES PAPER
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148 66 15 4 143 YES PAPER
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149 107 77 5 9 YES PAPERS, BOOK
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150 107 28 5 9 YES BOOK
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151 107 79 5 9 YES BOOK
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152 107 107 5 9 YES BOOK

153 107 92 5 9 YES BOOK

154 106 108 1 144 YES PAPER
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155 107 21 5 9 YES BOOK

156 107 2 5 9 YES BOOK

157 107 109 5 9 YES BOOK

158 108 28 2 145 YES PAPER
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41

159 109 110 5 146 YES PAPER

160 110 111 2 147 YES PAPER
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71 2
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72 2 GRAZING MANAGEMENT
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73 2 CHARTING THE CHANGE AS ARABLE
3 LAND BECOMES NEW TOWN
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161	110	111- 3	2	148 YES	PAPER	83 2
162	111	112	5	149 YES	PAPER	84 2
163	112	113	1 2 3 5	150 YES	PAPER	85 1 PROTECTION OF NON-PEST CEREAL 2 SPP. 3
164	113	10 106	2 5	151 YES	PAPER	86 2
165	114	114	2 5	152 YES 153	PAPER	87 2
166	115	28	2 5	154 YES	PAPER	88 1 2 3 4
167	116	21	5	155 YES	PAPER	89 2 6
168	117	115	2	156 YES	PAPER	90 2
169	118	116	2 3 5	157 YES	PAPER	91 2
170	119	117	2 5	124 YES	PAPER	92 2
171	120	1	2 5	158 YES	PAPER	93 2
172	121	75	2 5	159 YES	PAPER	94 2 3 4
173	122	118	5	160 YES	PAPER	95 2
174	123	119 120	2 5	161 YES 144	PAPER	96 2 PREDATOR-PREY INTERACTIONS - BIOCONTROL?
175	124	121 122 123	2 5	162 YES 163 164 165 166 167 168 169 170	PAPER	97 2
176	125	124	2	171 YES	PAPER	98 2
177	126	125	5	172 YES	PAPER	99 2 GENETICS
178	127	126	1	174 YES	PAPER	100 2

16 SEP 1992FORMS LITERATURE

KEY	CON	TAX	STAGES	SIT	HABITATS	CODE	HABITAT COMMENT
128	88	89		1	123		19
				5			20
							43
129	89	90		1	124		25 TREES: QUERCUS ROBUR
				5			27
				7			43
130	90	91		1	124		27
				2			43
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131	7	92		5	125		29
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132	91	93		5	126		19
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133	92	93		2	126		19 GRAZED: CATTLE, PREVIOUSLY SHEEP.
				5			22
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134	93	21		2	125		29
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135	94	94		2	127		6 WOODLAND DECIDUOUS: 1 STREAM OUT OF 18
							10
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136	95	37		2	128		20
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137	96	95		2	129		5 OPEN STANDING WATER: MESOTROPHIC LAKE.
				5			43
138	97	96		5	130		19
		97		6	131		22
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139	98	98		2	132		6
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140	99	99	5 133
141	100	100	2 134
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142	101	101	2 135
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143	102	102	5 138
144	103	42	1 139
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145	104	103	2 140
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146	105	103	2 141
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147	66	15	5 142
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149	107	77	5 9
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153	107	92	5 9

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15	GRASSLAND GRAZED: HEAVY WEETING, LIGHT LAKENHEATH (RABBITS)
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156	107	2	5 9
157	107	109	5 9
158	108	28	2 145
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159	109	110	5 146
160	110	111	2 147
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161	110	111	2 148
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162	111	112	5 149
163	112	113	1 150
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164	113	10	2 151
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165	114	114	2 152
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166	115	28	2 154
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167	116	21	5 155
168	117	115	2 156
169	118	116	2 157
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36	WALL: COASTAL/HARBOUR
43	
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32	
43	
27	BROOM PLANTS

		5	43
171	120	1	2 158	29
			5	43
172	121	75	2 159	5 OPEN STANDING WATER: INLAND SALINE LAKE
			5	43
173	122	118	5 160	25
				29
				32
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174	123	119	2 161	25
		120	5 144	42
175	124	121	2 162	40 OTHER: BUILDINGS
		122	5 163	41
		123	164	42
			165	43
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176	125	124	2 171	6
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177	126	125	5 172	15
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178	127	126	1 174	13 PARTLY ARABLE BUT MAINLY JUNCUS SQUARROSUS
			2 173	16
				43

16 SEP 1992FORMS LITERATURE

KEY	CON	TAX	STAGES	SIT	METHODS	METHOD COMMENTS
128	88	89		1	123	1
				5		5 PLOTS 10 BY 10M. MINIMUM OF 4, MAX OF 12.
						8 PLOTS DIVIDED INTO 2 BY 2M SQUARES BY STRING, SYSTEMATIC SEARCH
129	89	90		1	124	8 SEE OTHER.TECH.COMMENTS AND ORIGINAL FORM.
				5		
				7		
130	90	91		1	124	1
				2		2 SCORED EACH LEAF FOR LARVAL INSTARS AND OVA.
				5		
131	7	92		5	125	15 5 TRAPS
132	91	93		5	126	1
						4 EQUAL TIME SPENT ON EACH VISIT
133	92	93		2	126	3 SEE OTHER.TECH.COMMENTS AND PAPER.
				5		5 1 M SQ. BOX QUADRATS.
134	93	21		2	125	7 1.05 BY 0.70 M CANVAS TRAY.
135	94	94		2	127	19 KICK/SWEEPS. SEE OTHER.TECH.COMMENTS
136	95	37		2	128	6 WHEN D-VAC UNAVAILABLE, NYMPHS 20 STROKES = ADULTS 8 = 1 D-VAC.
				5		12 NYMPH/ADULT POPS. 17 RANDOM SAMPLES/WEEK = 1.53 M SQ. = 0.11% OF STUDY AREA.
						13 2 OF 46 CM DIAMETER, 1.2 M AGL. 1 OF 23 CM DIAM, 9.1 M AGL (LATTER DISCONTINUED POST
						20 STICKY TRAP: 20, CYLINDRICAL - 10 AT 1 M AGL, 10 AT 1.75 M AGL.
137	96	95		2	129	1
				5		5 POP. DENSITY. SEE OTHER.TECH.COMMENTS
						8 TIMED. QUALITATIVE BUT ROUGH DENSITY AND POP. STRUCTURE GUIDE.
138	97	96		5	130	1 SEE OTHER.TECH.COMMENTS
		97		6	131	2
						20
139	98	98		2	132	19 CYLINDER SAMPLER. SEE OTHER.TECH.COMMENTS
				5		
140	99	99		5	133	1
						4
141	100	100		2	134	11 TULLGREN FUNNELS
				5		
142	101	101		2	135	20 SEE OTHER.TECH.COMMENTS
				5	136	
					137	
143	102	102		5	138	19 SWEEPING WITH A LONG-HANDLED NET
144	103	42		1	139	20 SEE OTHER.TECH.COMMENTS
		10		2		
		49		3		
		31		5		

21	7	
145 104 103	2 140	10 PRESERVATIVE: ETHYLENE GLYCOL 6 CM DIAMETER, 1 M INTERVALS
	5 141	11 SPLIT-FUNNEL HEAT EXTRACTOR, 80% EFFICIENT
146 105 103	2 141	11 HIGH-GRADIENT EXTRACTOR FUNNEL
	5	
147 66 15	5 142	1
16		3 ROUND PERIMETER OF POND
148 66 15	4 143	1
16	5	3
	7	
149 107 77	5 9	10 PRESERVATIVE FORMALDEHYDE
57		
104		
150 107 28	5 9	10 PRESERVATIVE FORMALIN. ESP. CARABIDS, STAPHYLINIDS, CIRCULIONIDS.
105		15 COCCINELIDAE MAINLY
		16
151 107 79	5 9	15 ETHANOL COLLECTOR
106		
152 107 107	5 9	15 ETHANOL COLLECTOR
153 107 92	5 9	15 ETHANOL COLLECTOR
154 106 108	1 144	6 HERBS
	2	7 TREES
	5	
155 107 21	5 9	15 MAIN TECHNIQUE. ETHANOL COLLECTOR.
		16 ONLY USED OCCASIONALLY. CAUGHT THE MOST SPP. BUT POP. CHANGE DATA POOR
		20 1975 MAINLY. BAITED TRAP WITH FERMENTING APPLE.
156 107 2	5 9	15 ETHANOL COLLECTOR
157 107 109	5 9	15 ETHANOL COLLECTOR
158 108 28	2 145	5 FOUR 1 M SQ. WITHIN EACH TREATMENT PADDOCK.
31		8 SPP. ID FROM MINES OR REARED IN LAB.
41		
159 109 110	5 146	1 SEE OTHER.TECH.COMMENTS
		6
160 110 111	2 147	20 SEE OTHER.TECH.COMMENTS
	3	
161 110 111	2 148	20 SEE OTHER.TECH.COMMENTS
	3	
162 111 112	5 149	17 2M BY 1M BY 1.5M CAGE OVER DRAINAGE DITCH
		20 HUMAN BAIT; HOST SEEKING FEMALES
163 112 113	1 150	5 40 TIMES 1M SQ.
	2	11 SEE OTHR.TECH.COMMENTS

	3	
	5	
164 113 10	2 151	7 50 BY 100 CM. 20 BEATS = 1 SAMPLE, 30 SAMPLES, 1/TREE.
106	5	
165 114 114	2 152	1
	5 153	2
		5
166 115 28	2 154	11 BERLESE FUNNELS, HEAT EXTRACTION
	5	12
167 116 21	5 155	16 NOT OPERATED IF DUSK TEMP. BELOW 45F.
168 117 115	2 156	8
169 118 116	2 157	9 SOIL SAMPLES
	3	17
	5	
170 119 117	2 124	8 SEE OTHER.TECH.COMMENTS
	5	
171 120 1	2 158	10 SURFACE FAUNA
	5	11 TULLGREN FUNNELS, SOIL FAUNA
		12 HEATHER AND SHORT GRASS FAUNA
172 121 75	2 159	19 HAND NET
	5	
173 122 118	5 160	20 BAIT TRAPS
174 123 119	2 161	20 RANDOMLY SELECTING LEAVES
120	5 144	
175 124 121	2 162	8 FOR HOUSE-MARTIN NESTS
122	5 163	
123	164	
	165	
	166	
	167	
	168	
	169	
	170	
176 125 124	2 171	19 LAMBOURN SAMPLER
177 126 125	5 172	8 IN HEATHER AND ON TREE TRUNKS
		16 MV. ROBINSON.
178 127 126	1 174	1
	2 173	3 ACROSS ALTITUDINAL RANGE, SANDY-ARABLE-MOOR.
		5 PERMANENT 2M BY 2M QUADRATS.
		20 OVA FROM JUNCUS INFLORESCENCES

16 SEP 1992FORMS LITERATURE

KEY	CON	TAX	STAGES	SIT	MONTHS	FREQUENCY.....	START YEAR	END YEAR	CONTINUOUS	CONT	COMMENT.....	OTHER TECH COMMENTS.....
128	88	89	1 5	123 5 6 7	5	DAILY	1981	1988	YES			FIRST MALES DETECTED IN LIGHT TRAP, THEN SYSTEMATIC SEARCH FOR ADULTS AND EGGS. MARK AND RECAPTURE (1-2-4-7 NUMBER SYSTEM). NUMBER OF EGG BATCHES AND NUMBER OF EGGS/BATCH OR REMAINING/BATCH NOTED ALL RAGWORT PLANTS MAPPED THERFORE SPATIAL DISTRIBUTION OF BATCHES KNOWN. CONCLUSION RAGWORT DYNAMICS NOT CONTROLLED BY MOTHS, SO BIOCONTROL DOUBTFUL.
129	89	90	1 5 7	124 2 3 4 9 10 11			1981	1991	NO		SEXUAL GENERATION ON QUERCUS CERRIS 1983-86, 89-, ONLY.	GALL SAMPLING. AGAMIC GENERATION ON QUERCUS ROBUR SAMPLED IN AUTUMN. 50 SHOOTS SELECTED AT RANDOM TO ASSESS ACORN DENSITY. 100 ACORNS SELECTED AT RANDOM TO ESTIMATE GALLING RATES. FALLING ACORNS ALSO COLLECTED IN DUSTBINS. SEXUAL GENERATION ON Q. CERRIS MONITORED BY COUNTING THE NUMBER OF EGGS PER MALE BUD IN THE SPRING FROM THE ONSET OF AGAMIC EMERGENCE, IN TWIG SAMPLES. PARASITOIDS ALSO MONITORED. 36 Q. ROBUR. 5 Q. CERRIS
130	90	91	1 2 5	124 4 5 7 8			1962	ON GOING	NO		1962-1979, 1984 ON	3 VIBURNAM BUSHES, EACH ISOLATED FROM THE OTHERS. WHITEFLY SHOW LITTLE MIGRATION. BUSH B, 1969/70 EVERY LEAF COUNTED. 70/71 TO 75/76 EVERY 3RD LEAF COUNTED. 76/77 TO 77/78 EVERY 15TH LEAF. 78/79 EVERY 25TH LEAF. THIS WAS DONE APRIL/MAY FOR LARVAE. JULY/AUGUST AFTER OVIPOSITION HAD CEASED EGGS WERE

									COUNTED ON 30 LEAVES IN A MORE DETAILED LIFE TABLE STUDY. THIS WAS USED TO EST. THE NUMBER OF ADULTS EGGS IN TOTAL.
131	7	92	5	125	4 5 6 7 8 9	WEEKLY	1980	1982	YES	4354 SPECIMENS OF 72 SPP. IN 3 YEARS. 42.7% VESPIDAE, 41.0% APIDAE 10.0% SOLITARY BEES, 6.2% SOLITARY WASPS.
132	91	93	5	126	7 8 9	3 TIMES/YEAR	1969	1987	YES	POP. ANALYSIS. NOT STRICTLY QUANTITIVE. 1) ONLY ADULTS INCLUDED 2) MALES AND FEMALES POOLED 3) OBSERVATIONS MADE FROM JULY TO SEPTEMBER INCLUSIVE. 4) DATA TAKEN IN UNFAVOURABLE CONDITIONS OMITTED. ABUNDANCE = NO. OF ADULTS THAT YEAR DIVIDED BY NUMBER OF VISITS THAT YEAR. RELATED TO METEOROLOGICAL DATA FROM EASTBOURNE - DIVIDED INTO THREE PERIODS 1) 15 OCT - 14 APR (EGGS),2) 15 APR - 30 JUNE (NYMPHS),3) 1 JULY - 14 OCT (ADULT) - TOTAL RAINFALL, MEAN TEMP., SUNSHINE HOURS.
133	92	93	2 5	126	4 5 6 7 8 9 10	WEEKLY	1987	1988	YES	TRANSECTS 1-3, 55M APART ON EAST-FACING SLOPE. TRANSECTS 4+5 ON SOUTH-FACING SLOPE 60M APART. TRANSECTS 60, 55, 60, 115, 110 M LONG RESPECTIVELY AND 15 M WIDE. BOX-QUADRATS POSITIONED BY RANDOM-NUMBER COORDINATE GENERATION. EQUAL NUMBERS OF QUADRATS ON EACH TRANSECT ON EACH OCCASSION BUT VARIED FROM 45 - 156. BY JUNE/JULY DENSITY TOO LOW SO CENTRAL 5 M

								STRIP OF TRANSECTS WALKED. ACRIDID GRASSHOPPPER ALSO MONITORED IN 1988
134	93	21	2 125 4 5 6 7 8 9 10 11 12	WEEKLY	1986 1988	YES		BEATING, 2 M HIGH, FOLIAGE COVERS ENTIRE TRAY. BRANCHES TAPPED 5 TIMES WITH 1.5 M BROOM HANDLE, MOVED TO NEW AND UNDISTURBED FOLIAGE - REPEAT 5 TIMES - 1 BEAT. 6 BEATS/CONIFER SP. 1986. 1987 ON 10 BEATS/SP. TREES 20-35 YEARS OLD (OR ELSE TOO LARGE).
135	94	94	2 127 4	YEARLY	1985 1989	YES	ALSO SUMMER (JULY) 1985	KICK/SWEEPS - MARGINS 1 MINUTE (JUNCUS AND SPHAGNUM), SILT. RIFFLES 2 MINUTES, DISTURBING BED 10 TO 20 CM DEEP. USING A HAND-NET OF 0.9 MM MESH, 230 BY 255 FRAME OVER A 20 TO 30 M STRETCH OF STREAM
136	95	37	2 128 4 5 5 6 7 8 9 10	WEEKLY	1972 1977	YES		SUCTION TRAPS MONITOR DISPERSAL. STICKY TRAPS SUPPLEMENT SUCTION TRAPS, THROUGHOUT AREA.
137	96	95	2 129 1 5 2 3 4 5 6 7 8 9 10 11	MONTHLY	1976 1978	YES		QUADRATS FOR POP. DENSITY. PLASTIC WEB-NETTING POTS DROPPED LOSELY INTO LOCH. ALL STONES UNDERNEATH COLLECTED (1 M SQ.), BASKETS REPLACED. NO OTHER SAMPLING WITHIN 10 M. AVOIDS PROBLEMS OF RECOLON-IZATION AND UNUSUAL ATTRACTIVENESS ASSOCIATED WITH ARTIFICIAL SUB-STRATA. HAND SEARCHING, TIMED, ROUGH GUIDE TO POP. DENSITY AND STRUCTURE.

				12					NORTH AND SOUTH SHORES SAMPLED TO SEE EFFECTS OF ASPECT AND EXPOSURE. STONES COLLECTED RANDOMLY FROM SHALLOW LITORAL FOR 2 HOURS - TIME TO COLLECT AROUND 100 INDIVIDUALS ON AVERAGE. SEE FORM FOR DETAILS.
138	97	96	5	130 7	YEARLY	1978 1980	YES	STONEHILL 1978-1980, SITE X 1979-1980.	STONEHILL DOWN 1978, EXHAUSTIVE SEARCHING OF 2 DISTINCT PLOTS. 1979 AND 1980, RANDOM SAMPLING OF AREA INBETWEEN. SITE X, SAMPLES FROM 4 GLADES WERE COMBINED. SUGAR BAITS SCATTERED DENSELY OVER AREA, BRIGHTLY COLOURED BREADCRUMBS FED TO ATTRACTED WORKERS. NEST LOCATED, DUG-UP, TAKEN TO LAB FOR CENSUS. SAMPLED IN JULY BECAUSE OVERWINTERED LARVAE MATURED AND ASSIGNED CASTE - SOCIAL STRUCTURE IN SPRING LIKELY TO BE IMPORTANT TO THE LARGE BLUE. AFTER AN ANALYSIS USING PITFALLS IT WAS DECIDED TO TAKE THE DUG-OUT COLONY TO = THE WHOLE COLONY (IE FORAGERS IGNORED).
		97	6	131					
139	98	98	2	132 1	>MONTHLY	1977 1978	YES	MARCH 1977 TO JULY 1978 22 TIMES IN 17 MONTHS.	CYLINDER SAMPLER: (INTERNAL AREA 0.09 M SQ., MESH 400 MICRONS OR 24/CM). 4 SAMPLING UNITS (=0.09 M SQ.) DETERMINED BY STRATIFIED RANDOM SAMPLING DESIGN. (ON 2 OCCASIONS 12 SAMPLING UNITS USED).
			5	2					
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
140	99	99	5	133 1	2-7 TIMES/YEAR	1977 1981	YES	JUNE 1977 TO JULY 1981	A 1 KM STRECTCH OF CLIFF-TOP, 10

		2					SAMPLES FROM THE SAME SITES ON 23 OCCASIONS. (HOWEVER ON 2 OCCASIONS THIS DID NOT OCCUR - 1 JUNE 1977 ONLY 5 SAMPLES, 11 JULY 1980 ONLY 6 SAMPLES - MULTIPLIED UP TO COMPARE WITH OTHER SAMPLES). SIZE-FREQUENCY DISTRIBUTIONS MADE. (LIFE CYCLES WERE COMPARED WITH POPS IN OTHER PARTS OF EUROPE).
		3					
		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
141 100 100	2 134	1	FORTNIGHTLY/6 T	1968 1983	NO	GAP BETWEEN JULY 1971 AND NOVEMBER 1972	10/1968 TO 7/1971, 72 RANDOM SAMPLES OF GREEN SHOOTS OF CALLUNA ON EACH SAMPLING OCCASION AT 2 WEEK INTERVALS. 11/72 TO 11/83, 20 RANDOM SAMPLES ON 49 OCCASIONS. PSYLLIDS EXTRACTED USING TULLGREN FUNNELS. HIGH ALTITUDE RACES SHOW A 2 YEAR LIFE CYCLE AND 2 GENETICALLY DISTINCT POPULATIONS.
	5	2					
		3					
		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
142 101 101	2 135		WEEKLY	1965 1974	YES		SYCAMORE TREES. 4 AT ROSSDHU, 2 AT BEARSDEN, 2 AT GLASGOW. SAMPLED EVERY 7 DAYS THROUGHOUT EACH SEASON APHIDS ON 8 RANDOMLY SELECTED LEAVES FROM LOWER CANOPY COUNTED IN SITU. CLASSIFIED INTO 5 GROUPS: I-III INSTARS, IV INSTARS, ADULT VIRGINOPARAE, OVIPARAE AND MALES. APART FROM THE POPULATION DATA THE TIMING OF THE BUD-BREAK, EGG-HATCH AND LEAF-FALL WERE NOTED.
	5 136						
	137						
143 102 102	5 138	1	FORTNIGHTLY/MON	1981 1983	YES	7/1981 TO 7/1982 FORTNIGHTLY	LAKE ONLY 0.6 M DEEP ON AVERAGE SO

			2				7/1982 TO 7/1983 MONTHLY	TOO SHALLOW TO PERMIT CONVENTIONAL VERTICAL HAULS. 6 SAMPLING SITES IN VARIOUS TYPES OF LOCATION ACCESSED BY DINGHY OR WADING. LONG-HANDLED NET 0.28 M DIAMETER, MESH SIZE 0.001 BY 0.002 M. CONSTANT VOLUME OF WATER SAMPLED BY SWEEPING HORIZONTALLY THROUGH AN ARC OF 2-4 M TO A MAX DEPTH OF 0.5 M. DAPHNIA CONCENTRATED IN 100 ML OF FILTERED LAKE WATER, SORTED AND COUNTED. (100 FEMALES WERE SORTED AND THE NO. OF PARTHENOGENETIC AND EPHIPPIAL (SEXUAL) EGGS COUNTED. DIFFERENT DAPHNIA CLONES WERE ALSO PROPORTIONED BY ELECTROPHORESIS. D. MAGNA IS A DIPLOID CYCLIC PARTHENOGENETIC - INCIDENCE OF SEXUALITY APPEARS TO BE ENVIRONMENTALLY CONTROLLED).
			3					
			4					
			5					
			6					
			7					
			8					
			9					
			10					
			11					
			12					
144	103	42	1	139	5	FORTNIGHTLY	1980 1986 YES	RANDOMLY SELECTING 20 OR MORE FRONDS FROM THE BRACKEN AREA AND ANALYSING THE NUMBER AND TYPE OF EACH SPECIES PRESENT PER FROND. EVERY 2-3 WEEKS FROM MAY TO SEPTEMBER, BEING CAREFUL INITIALLY NOT TO DISLODGE CATERPILLARS OR FLYING ADULTS (NOT SO EASY, ESP. FOR PETROPHORA CHLOROSATA (LEPIDOPTERA). PERFORMED ON OPEN AND WOODY SITES.
		10	2		6			
		49	3		7			
		31	5		8			
		21	7		9			
145	104	103	2	140	1	MONTHLY	1973 1975 YES	APRIL 1973 TO AUGUST 1975 EXTRACTION FUNNEL CATCHES COLLECTED INTO SAT. TRISODIUM ORTHOPHOSPHATE. AT EACH SITE, A GRID 14 BY 7.5 M CONTAINING 20 3.5 BY 3.5 M STRATA, EACH CONTAINING 49 SAMPLING UNITS EACH 0.25 M SQ. ON EACH OCCASION
			5	141	2			
					3			
					4			
					5			
					6			

				7					ONE RANDOM SAMPLE/STRATUM (IE 20 REPLICATES), USING 11 CM DIAMETER BY 5 CM DEEP CIRCULAR METAL CORER. EXTRACTION WITHIN 6 HOURS OF COLLECTION.
				8					
				9					
				10					
				11					
				12					
146	105	103	2	141		1977	1986	YES	AUGUST 1977 TO JULY 1986	SOIL CORES AND A HIGH-GRADIENT EXTRACTOR. STUDIES ALSO MADE USING RABBIT EXCLOSURES TO REMOVE GRAZING PRESSURE AND FEEDING FIXED QUADRATS WITH RABBIT FOOD OR COMMINUTED ALDER LITTER TO ASSESS FOOD QUALITY VERSES DENSITY EFFECTS ON POP NO.S/ AGE STRUCTURE. HAS SHOWN IMPORTANCE OF INTRA-SPECIFIC COMPETITION IN REGULATING POP IN DECOMPOSERS VIA NATALITY AS OPPOSED TO DENSITY DEPENDENT FACTORS SUCH AS PREDATION (ISOPODS RARELY SUFFER DISEASE).
			5							
147	66	15	5	142	3		1966	1983	YES	POND ONLY APPEARED IN 1974 AND NO. OF SPP. OF DRAGONFLY INCREASED FROM 3 MIGRANT SPP. TO 10 RESIDENT.
		16			4					
					5					
					6					
					7					
					8					
					9					
					10					
148	66	15	4	143	5	FORTNIGHTLY	1961	1988	YES	IS ON GOING UNDER THE WARDEN MR. RON HAROLD. OTHER COMMITTMENTS GET IN THE WAY OF THE FORTNIGHTLY DATES. TERRITORIAL MALES COUNTED ACCORDING TO BDS GUIDELINES, CIRCLING THE 23 SMALL PONDS APPROXIMATELY FORTNIGHTLY. EXUVIAE ONLY COUNTED FOR AESHNID SPP. AS TOO TIME CONSUMING. AN IDEA OF BREEDING SUCCESS WAS GAINED BY LOOKING AT EARLY TENERAL INSECTS AT WATERS
		16	5		6					
			7		7					
					8					
					9					
					10					

							EDGE (VALID AS THEY WILL AVOID WATER WHEN THEY FLY). GROSS POP CHANGES CALCULATED FROM MAXIMAL NO.S OF INSECTS OBSERVED EACH YEAR (ADULTS,TENERALS,EXUVIAE) AS VISITS VARIED IN NUMBER EACH YEAR, SO DID ACCURACY. MAXIMAL NO.S OF MALES MAY BE MISSED UNLESS RECORDS MADE AT LEAST FORTNIGHTLY. EXUVIAE SHOULD BE COUNTED WEEKLY. SEE PAPER AND FORM.
149	107	77	5	9 4	FORTNIGHTLY	1980 ON GOING YES	CENTIPEDE ID BY A. J. RUNDLE. MILLEPEDE ID BY D. T. RICHARDSON. OPILIONES ID BY J. H. P. SANKEY.
		57		5			
		104		6			
				7			
				8			
				9			
				10			
150	107	28	5	9 4	FORTNIGHTLY	1979 ON GOING YES ALSO WINTER 1985/6	8 PITFALLS IN 4 DIFFERENT PARTS OF THE GARDEN AND 3 BELOW MALAISE TRAP FOR BEETLES THAT FLY IN AND WALK AWAY.
		105		5			
				6			
				7			
				8			
				9			
				10			
151	107	79	5	9 4	WEEKLY	1983 ON GOING YES	
		106		5			
				6			
				7			
				8			
				9			
				10			
152	107	107	5	9 4	WEEKLY	1981 ON GOING YES	
				5			
				6			

				7						
				8						
				9						
				10						
153	107	92	5	9	4	MONTHLY	1972	1986	NO	SOCIAL WASPS 72-86, SOCIAL BEES 72-77, 82-86, SOLITARY ACULEATA 75-86. PROBABLY CONTINUES.	ID BY M. E. ARCHER, UNIVERSITY COLLEGE OF RIPON AND YORK ST JOHN.
					5						
					6						
					7						
					8						
					9						
					10						
154	106	108	1	144	4	DAILY	1973	1975	YES		EQUAL PERIODS OF TIME SPENT ON EACH PLANT SP. ANTHOCORIS GALLARUM-ULMI LIVES ON ELM FEEDING ON THE LEAF ROLL-GALL APHIDS SCHIZONEURA ULMI AND S. PATCHAE.
			2		5						
			5		6						
					7						
					8						
					9						
155	107	21	5	9	4	WEEKLY	1972	ON GOING	YES		MALAISE TRAP RUN YEARLY, CATCHES FEWER SPP. THAN MV LIGHT BUT IS UNSELECTIVE. MICROMOTH SPP. ALSO LISTED FOR MV BUT POPS ONLY FOR MACROMOTHS. HAVE SHOWN INTERESTING FLUCTUATIONS.
					5						
					6						
					7						
					8						
					9						
					10						
156	107	2	5	9	4	WEEKLY	1972	ON GOING	YES	OTHER DIPTERA AT VARIOUS PERIODS MANY OF WHICH NEED ID.	EXCELLENT DATA. IN FIRST 15 YEARS 43749 INDIVIDUALS OF 91 SPP. CAUGHT AN INDEX OF DIVERSITY WAS WORKED OUT = THE PROBABILITY OF AN INDIVIDUAL BEING SAMPLED BEING DIFFERENT TO THE PREVIOUS SAMPLE. THIS INDEX ROSE AND FELL BUT IS NOT DIRECTLY RELATED TO CHANGES IN THE NEUMBER OF INDIVIDUALS. THE NUMBER OF SPECIES IS ALSO IMPORTANT.
					5						
					6						
					7						
					8						
					9						
					10						

157	107	109	5	9 4 5 6 7 8 9 10	WEEKLY	1972 1973	YES		SORTED INTO SPP. BUT NOT ID FURTHER THAN GENUS WITH A NUMBER FOR EACH SP. IN THE GENUS. NO. OF INDIVIDUALS RECORDED. 6445 INDIVIDUALS OF 455 SPP. CAUGHT IN 2 YEARS. ID BY TOWNES, AMERICAN ENTOMOLOGICAL INSTITUTE.
158	108	28 31 41	2	145 4 5 6 7 8 9	MONTHLY	1986 1989	YES	MAY ADDED 1987, APRIL ADDED 1989. JULY ONLY 1988.	3 TREATMENTS (UNGRAZED CONTROLS, SHORT PERIOD SPRING AND SHORT PERIOD AUTUMN GRAZING) APPLIED IN 2 SQUARE 3 BY 3 GRIDS OF 30 BY 30 M PADDOCKS, ARRANGED AS A LATIN SQUARE. 2 OTHER TREATMENTS (CONTINUOUS AUTUMN, AND SPRING AND AUTUMN) WERE APPLIED TO LARGER AREAS OUTSIDE PADDOCKS.
159	109	110	5	146 4 5 6 7 8 9 10 11	EVERY 4 DAYS	1964 1985	YES		ALL FLIES COUNTED ON 40 FRESH COW PATS (WHERE POSSIBLE) AND THE ZONE (1 M) AROUND THEM IN WHICH FLIES WERE FOUND. 50-55 MINUTES WERE ALLOWED, LEAVING 5-10 MINUTES FOR SWEEPING FOR FLIES IN UNGRAZED AREAS OF THE FIELDS 30-50 M AWAY AND NEARBY WOODLAND, ALSO RECORDING OF TEMP., WEATHER ETC. A POP INDEX WAS WORKED OUT BASED UPON THE DIFFERENT BEHAVIOURS OF MALES AND FEMALES - SEE PAPER.
160	110	111	2	147 6 3	YEARLY	1977 1987	YES		POMEROY. 15 TREES, 3 IN EACH OF 5 LOCALITIES. 100 RANDOM LEAVES = 1 SAMPLE. A PRESELECTED BRANCH WAS TAKEN AT 2-6 M ABOVE GROUND LEVEL. 3-5 SAMPLES/TREE IN THE 2ND WEEK OF JUNE. MINES EXAMINED IN THE LAB FOR WEEVILS.

161 110 111	2 148 6 3 7	FORTNIGHTLY	1984 1987	YES		GLENTRESS (SEE ALSO RECORD 160). SINGLE BEECH BRANCH SAMPLES OF 100-500 LEAVES FROM 2-6 M ABOVE GROUND LEVEL FROM 30 TREES SELECTED AT RANDOM ALONG THE SAME TRANSECT. SAMPLING 2-4 TIMES IN JUNE AND JULY. MINES EXAMINED FOR WEEVILS IN THE LAB.
162 111 112	5 149 4 5 6 7 8 9	DAILY	1984 1985	YES		HUMAN BAIT DOWN-WIND AT RANDOM SITES, EVERY 3 DAYS, 1.5 TO 0.5 HOURS BEFORE SUNSET, FEMALES POOTED FROM BAIT. EMERGENCE CAGES EMPTIED DAILY AT 9.00 TO 9.30 AM UNTIL 10 DAYS CONSEQUITIVE NON-EMERGENCE.
163 112 113	1 150 1 2 2 3 3 5 4 5 6 7 8 9 10 11 12	2-5 TIMES/WEEK	1977 1979	YES		QUADRATS. 40 TIMES 1 M SQ. PLACED RANDOMLY IN EACH OF 3 CEREAL FIELDS OF 200 M BY 200 M. EXTRACTION. SOIL CORES, 0.05 M SQ. AND 15 CM DEEP. 60 PLACED RANDOMLY PER FIELD ON EACH OCASSION. BEETLES EXTRACTED USING A FLOTATION TECHNIQUE.
164 113 10 106	2 151 1 5 2 3 4 5 6 7 8 9	WEEKLY	1976 1978	YES	8/1976 TO 10/1978	SPECIAL BEATING TRAY - POLYTHENE FUNNEL LEADING TO POLYBAGS TO CATCH AND KILL ARTHROPODS (CHLOROFORM). SHORT SIDES OF TRAY EQUALLY BISECTED BY MAIN BRANCHES OF LARCH TREES. CATCHES FROZEN WITHIN 6 HOURS. 10 SAMPLES FROM THE BASAL CM OF THE MAIN BRANCH, 10 FROM TIP AND 10 (5+5) FROM TREES IN THE MIDDLE

			10					OF THE 3 ROWS OF LARCHES.
			11					
			12					
165	114	114	2 152 1	MONTHLY	1979 1982	YES	ROBIN HOOD'S BAY 7/79-10/82	ROBIN HOOD'S BAY. 108 PLANAR
			5 153 2				WHITBY HARBOUR 2/80-9/81	QUADRATS EACH 0.25 M SQ.
			3					DIVIDED VERTICALLY INTO 9 BLOCKS.
			4					ON EACH OCCASION 3 QUADRATS IN EACH
			5					BLOCK (27) WERE CHECKED FOR ALL
			6					VISIBLE SLATERS WHICH WERE CAUGHT
			7					AND SEXED IF POSSIBLE. DATA
			8					COMBINED FOR 2-3 ADJACENT NIGHTS TO
			9					GIVE LARGE SAMPLE SIZES FOR SIZE-
			10					FREQUENCY ANALYSES.
			11					WHITBY HARBOUR. ALL VISIBLE SLATERS
			12					COLLECTED FROM ENTIRE WALL LENGTH.
								MARK AND RECAPTURE ALSO PERFORMED
								AT ROBIN HOOD'S BAY TO ANALYSE
								DISPERSION.
166	115	28	2 154 1	4 TIMES/YEAR	1972 1975	YES		16 PLOTS, EACH 16 BY 12 M IN A
			5 2					RANDOMISED BLOCK DESIGN OF 4
			3					REPLICATES OF 4 TREATMENTS:
			4					1) CUTTING IN MAY
			5					2) CUTTING IN JULY
			6					3) CUTTING IN MAY AND JULY
			7					4) UNTREATED
			8					PLOTS SEPERATED BY 2 M GUARD STRIPS
			9					OF UNCUT GRASSLAND.
			10					CIRCULAR TURVES OF 0.071 M SQ. WERE
			11					REMOVED FROM RANDOM CARTESIAN
			12					COORDINATES IN 1973-74 AND HEAT
								EXTRACTED. THOUGH THEY SAMPLED
								LESS AREA THE SOIL SAMPLES GAVE
								HIGHER FIGURES THAN THE D-VAC
								WHICH IS BIASED AGAINST LARGER
								SPECIES - HENCE D-VAC DATA LARGELY
								DISCARDED.

167	116	21	5 155 2 3 4 5 6	DAILY	1981 1982	YES	TRAP PROBABLY RUNS ALL YEAR AND IS ON GOING BUT THE PAPER DOES NOT ELUCIDATE THIS.
168	117	115	2 156 1 2 3 4 5 6 7 8 9 10 11 12	1-2 TIMES/MONTH	1983 1985	NO	NOT 1984	'SANDWICH BOX' TECHNIQUE OF DISNEY (1975). PATCHY DISTRIBUTION THEREFORE SAMPLING AT SITES OF HIGHEST DENSITY. POP DENSITY SCORED ON AN ORDINAL SCALE OF 0-5: 0 = NO LARVAE 1 = 1-5 LARVAE/10 DIPS 2 = 6-10 LARVAE/10 DIPS 3 = 1-5 LARVAE/DIP 4 = 6-10 LARVAE/DIP 5 = >10 LARVAE/DIP
169	118	116	2 157 1 3 2 5 3 4 5 6 7 8 9 10 11 12	WEEKLY/MONTHLY	1975 1977	YES	SOIL SAMPLES. 25 CM BY 6 CM DEEP THROUGHOUT WOOD ON AN UNBIASED STRATIFIED RANDOM DESIGN RESULTING IN 10 SECTORS FROM WHICH 2 SAMPLE UNITS WERE TAKEN ON EACH OCCASION USING A RANDOM WALK. FORTNIGHTLY MARCH TO NOVEMBER 1975. MONTHLY NOV 1975 TO MARCH 1977. WET SEIVING AND HAND SORTING. EMERGENCE TRAP. 0.25 M SQ. BASE, POLYTHENE COLLECTING BOTTLE WITH 70% ETHANOL 5% GLYCEROL. 4 TRAPS PLACED RANDOMLY IN THE WOOD. RELOCATED MONTHLY TO PREVENT LONG-TERM CHANGES IN THE SOIL ENVIRONMENT BENEATH THEM. EMPTIED WEEKLY IN SPRING, SUMMER AND AUTUMN. FORTNIGHTLY IN WINTER.
170	119	117	2 124 1		1974 1975	YES	4/1974-12/1975	BROOM BUSHES DIVIDED INTO 3

			5	2						HORIZONTAL LEVELS - UPPER, MIDDLE AND LOWER. FROM EVERY FIFTH BUSH 2 GREEN SHOOTS FROM EACH LEVEL SELECTED RANDOMLY. 30-32 BUSHES SAMPLED ON EACH OCCASION = 80-96 SUBSAMPLES. TO ESTIMATE THE NUMBER OF COCCIDS ON BRANCHES, 12 BUSHES CHOSEN AT RANDOM. LENGTH OF ONE BRANCH IN EACH BUSH MEASURED AND THE NUMBER OF COCCIDS ON DIFFERENT CATEGORIES OF THE BRANCH RECORDED (4 CATEGORIES ACCORDING TO THE THICKNESS OF A BRANCH). USING THE WEIGHT OF GREEN BROOM IN SAMPLES AND IN THE FIELD (MEASURED BY ARMFULLS) AND WITH THE DATA FOR LENGTH OF BRANCHES; THE TOTAL POP WAS ESTIMATED.
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						
171	120	1	2	158	1	FORTNIGHTLY	1975	1977	YES	PITFALL TRAPS. 10 LINES OF 4 TRAPS, 2 ON RIDGES, 2 IN FURROWS. 4-7 M APART, 20-35 M LONG. HALF IN A REGION WHERE ANTS FORMICA LUGUBRIS COMMON IN 1972 AND HALF IN A REGION WHERE THERE WERE VERY FEW NESTS. D-VAC. USED ON HEATHER AND SHORT GRASS. SOIL SAMPLES FROM NEAR AND BETWEEN TRAP LINES.
			5	2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						
172	121	75	2	159	1	MONTHLY	1969	1979	YES	HAND NET. 500 CM SQ., RECTANGULAR. MESH 7.5 /CM. STANDARD 2 M SWEEP. 4 STATIONS IN LITTORAL ZONE, 10 SWEEPS/STATION/VISIT. RELATED DATA TO WATER CHARACTER-ISTICS.
			5	2						
				3						
				4						
				5						
				6						
				7						

		8					
		9					
		10					
		11					
		12					
173 122 118	5 160	1	MONTHLY	1974 1976	YES		BAIT TRAPS OF CHOPPED, FERMENTING BANANA AND MALT (1 WEEK OLD). A DOZEN TRAPS AT VARIOUS LOCATIONS IN EACH WOOD. LIDS LEFT HALF ON BOXES AND PUSHED ON AFTER 2 HOURS. THE FLIES WERE ANEASTHETIZED WITH CO2. SEASONAL AND SPATIAL CHANGES WERE NOTED.
		2					
		3					
		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
174 123 119	2 161	5	WEEKLY	1965 1974	YES		NUMBERS OF APHIDS AND CAPSIDS COUNTED ON EIGHTY RANDOMLY SELECTED LEAVES ON EACH TREE. 1 TREE AT GARSCUBE. 1-4 AT HUGHENDEN: 1 TREE IN 1974, 2 TREES 1965-66, 3 TREES 1967, 68 AND 73, AND 4 TREES 1969-72.
120	5 144	6					
		7					
		8					
		9					
175 124 121	2 162			1977 1985	NO	1977/88 (30 NESTS) 1984/85 (42 NESTS)	HOUSE MARTIN NESTS, CRUMBLED AND SOIL VOLUME MEASURED TO RELATE LUMEN VOLUME TO THE NUMBER OF FLEAS. OTHER VARIABLES SUCH AS NEST POSITIONS AND AGGREGATION OF NESTS TAKEN INTO ACCOUNT.
122	5 163						
123	164						
	165						
	166						
	167						
	168						
	169						
	170						
176 125 124	2 171	6	6-MONTHLY	1971 1979	YES	MONTHLY MARCH 1971 TO FEB 1972 6-MONTHLY (JUNE, DECEMBER)	LAMBOURN SAMPLER. 5 STRATIFIED RANDOM SAMPLING UNITS OF 0.05 M SQ.
		12					

						1972-1979	TAKEN ON EACH OF 5 MAJOR BIOTOPES AT EACH SITE (2 SITES OF 50 M LENGTH EACH). BIOTOPES: GRAVEL, RANUNCULUS, BERULA, CALLITRICHE AND SILT.
177 126 125	5 172 4 5 8 9	2 TIMES/YEAR	1975 1980	YES			TO EXAMINE FREQUENCY AND GENETICS OF THE MELANIC FORM.
178 127 126	1 174 6 2 173 7 8 9 10 11	WEEKLY	1977 1979	YES	MONTHLY IN OCTOBER AND NOVEMBER		PERMANENT 2M BY 2M QUADRATS AT EACH SITE. NUMBER OF LARVAE, THEIR CASES AND MOVEMENT (BY MARKING CASES) WAS RECORDED WEEKLY UNTIL SEPTEMBER, THEN ONCE IN OCTOBER AND NOVEMBER. THIS WAS RELATED TO VARIOUS PARAMETERS OF THE HOST JUNCUS SQUARROSUS THAT WERE MEASURED. THREE GENERATIONS OF LARVAE WERE COVERED. OVA WERE MEASURED FROM SAMPLES OF INFLORESCENCES TAKEN UNTIL MAXIMUM OVA DENSITY WAS REACHED.

16 SEP 1992FORMS LITERATURE

KEY	CON	TAX	STAGES	SITES	TAXON POS COMMENTS.....	TAXON NEG COMMENTS.....
128	88	89	1 5	123	CONSPICUOUS, EASILY IDENTIFIED, DAY FLYING, FEMALES FAIRLY SEDENTARY. EGG BATCHES BEST POP. DENSITY EST.	LABOUR INTENSIVE, DAILY HAND-NETTING.
129	89	90	1 5 7	124	EASILY LOCATED BECAUSE RESTRICTED TO HOST PLANT AND GALLS ARE SESSILE EASY TO SAMPLE YEAR AFTER YEAR. TECHNIQUE COULD BE APPLIED TO ALL BRITISH GALL-MAKERS.	SMALL. REQUIRES SOME ID SKILL, ESP. OF THE SEXUAL GEN. ON MALE FLOWERS IN CATKINS.
130	90	91	1 2 5	124	POP. ISOLATED TO A PARTICULAR BUSH, EASILY ISOLATED AND STUDIED IN DETAIL. CAN SAY ALOT ABOUT ALIENS.	BOTH INSECT AND PLANT (VIBURNUM TINUS) ARE ALIEN.
131	7	92	5	125	YES	SELECTIVITY OF MALAISE TRAPS BETWEEN GROUPS IS UNCLEAR.
132	91	93	5	126	YES, BIG, NOISY AND EASY TO LOCATE. SEASONAL.	REQUIRE HOT AND SUNNY WEATHER, PROTECTED SP., TERRAIN - VERY STEEP SLOPE.
133	92	93	2 5	126	YES, SEE RECORD 132.	SEE RECORD 132.
134	93	21	2	125	YES, FAIRLY STATIC (DON'T FLY). UNDERSTUDIED, RELATIVELY FEW SPP.	BEATING IS NOT ACCURATE WHEN IT IS WET OR WINDY. HAVE TO REAR LARVAE FOR ID AND VIABILITY ON FOODPLANT. LARVAE PREFER TOPS OF CONIFERS - SO THE EDGES ARE BEATEN - POSSIBLE EDGE EFFECTS/UNREPRESENTATIVE SPECIES.
135	94	94	2	127	YES. EFFECTS OF CONIFEROUS FORESTRY AND BANKSIDE MANAGEMENT ON TEMP., PH, PREY SPP. ETC.	LARVAL ID.
136	95	37	2 5	128	EASY TO SAMPLE, ACTIVE, FECUND.	MIGRATORY, DISPERSIVE.
137	96	95	2 5	129	YES	AQUATIC, LOCH FROZEN IN WINTER
138	97	96 97	5 6	130 131	YES, AFFECTED BY SUN-HOURS IE TEMP. AND VEGETATION STRUCTURE. ONCE ESTABLISHED NESTS ARE FAIRLY STATIC FOR THE SEASON.	COMPLEX LIFE-CYCLE AND POP. PARAMETERS (COLONY VS INDIVIDUAL).
139	98	98	2 5	132	YES. EASILY SAMPLED.	LENGTH OF LIFE-CYCLE AND DEVELOPMENT TIME SEEMS TO VARY BETWEEN LOCALITIES - PROBABLY BECAUSE OF TEMPERATURE.
140	99	99	5	133	EASY TO SEE, FAIRLY SEDENTARY.	REQUIRE DAMP. AESTIVATE IN HOT/DRY HIBERNATE IN COLD.
141	100	100	2	134	EASY TO SAMPLE AND OCCUR IN	SMALL, SEPERATION OF INSTARS

		5	RELATIVELY HIGH DENSITIES.	PROBABLY IMPORTANT - VERY TIME CONSUMING. DESTRUCTIVE SAMPLING (PROBABLY NOT A PROBLEM).
142	101 101	2 5	135 NO 136 137	YES, SMALL, REQUIRE SPECIALIST ID (THOUGH PERHAPS SYCAMORE APHIDS ARE EASIER THAN MOST APHIDS), SEXING STAGING/GENERATION DIFFICULT - COMPLEX LIFE-HISTORYS. REQUIRE INTENSIVE MONITORING.
143	102 102	5	138 EASY TO SAMPLE, ABUNDANT AND FEW SPP., IMPORTANT PLANKTON IN BASE OF FOOD CHAINS, COULD IT INDICATE ENVIRONMENTAL CONDITIONS -ACID RAIN TEMP, ETC?	CLONAL ECOLOGY MAY BE OF MORE INTEREST THAN STRAIGHT POPS. ID OF CLONES REQUIRES SPECIALIST TECHNIQUES. SMALL.
144	103 42 10 49 31 21	1 2 3 5 7	139 SMALL AND WELL DESCRIBED COMMUNITY THAT IS FAIRLY STABLE FROM YEAR TO YEAR, 'HOMOGENOUS' HABITAT, EASY TO SAMPLE.	RANGE OF SPECIES TO IDENTIFY, MANY ARE MINERS OR GALL-MAKERS. MANY FLY OFF OR DROP TO THE GROUND WHEN DISTURBED.
145	104 103	2 5	140 YES. POORLY ADAPTED TO TERRESTRIAL 141 LIFE, THEREFORE AFFECTED BY ENVIRONMENTAL FACTORS SUCH AS MOISTURE AND HENCE GRAZING PRESSURE.	EXTRACTION IS DESTRUCTIVE AND TIME CONSUMING.
146	105 103	2 5	141 PRESENT THROUGHOUT THE YEAR, SEPERABLE INTO AGE-CLASSES - AGE STRUCTURE CAN INDICATE BREEDING HEALTH.	DESTRUCTIVE SAMPLING OF HABITAT. 2 YEAR-LIFE CYCLE WITH CYCLICAL RECRUITMENT - LARGE ONE YEAR, SMALL THE NEXT ETC.
147	66 15 16	5	142 CONCLUSIONS CAN BE DRAWN ABOUT EXTINCTIONS, ARRIVALS AND MAJOR CHANGES IN ABUNDANCE - NOT MINOR CHANGES (SEE P48).	
148	66 15 16	4 5 7	143 LARGE, ATTRACTIVE AND RELATIVELY EASY TO IDENTIFY, INTERESTING BEHAVIOUR. REQUIRE NICE, HOT, SUNNY DAYS, THEREFORE ENJOYABLE.	REQUIRE FINE CONDITIONS. OBSERVER MAY CAUSE TERRITORIAL MALES TO LEAVE OR HAVE TERRITORIAL ENCOUNTERS AND LEAVE. COUNTS OF ANISOPTERA ON SMALL PONDS EST. TO BE 100 % ACCURATE AND ZYGOPTERA 80% - WHEN DENSITIES HIGH, INDIVIDUALS MAY BE MISSED OR COUNTED TWICE.
149	107 77 57 104	5	9 OPILIONES YES. TEND TO FOLLOW OPPOSITE TRENDS TO INSECTS, BEING MOST ABUNDANT IN COOL DAMP YEARS.	OPILIONES. NOT ALL SPP. CAUGHT IN PITFALLS (OFTEN) AS THEY, LIKE SPIDERS, USE THE WHOLE VEGETATIONAL STRUCTURE.
150	107 28 105	5	9 YES	COCCINELLIDS TEND TO FLY IN FROM OUTSIDE IN VARIABLE NUMBERS - SWARMS IN 1975 AND 1976.
151	107 79 106	5	9 LACEWINGS PROBABLY USEFUL.	PSOCIDS AND PSOCIFORM NEUROPTERA VERY SMALL AND DIFFICULT TO ID.

152	107	107 .	5	9 YES. LARVAE ARE ECOLOGICALLY VERY SIMILAR TO LEPIDOPTERA.	
153	107	92	5	9 MALAISE TRAP PROBABLY EFFICIENT AT MEASURING INSECT ACTIVITY.	DOESN'T MEASURE NO. OF NESTS OR NEST SIZE - JUST NO. OF INDIVIDUALS
154	106	108	1 2 5	144 YES. RELATIVELY RESTRICTED TO ELM WHERE THE HOST SPP. ARE FOUND.	RELATIVELY RARE, SO INTENSIVE SAMPLING REQUIRED.
155	107	21	5	9 YES. MALAISE TRAP RUN EVERY NIGHT, WEATHER INDEPENDENT, GIVES INTERESTING RUNS AND ANNUAL NUMBERS	INITIAL DIIFICULTIES IN ID OF MOTHS WET IN ALCOHOL.
156	107	2	5	9 YES. PROBABLY AN UNSELECTED SAMPLE IN THE MALAISE TRAP. MAJORITY OF GARDEN SPP. HAD MANY MORE FEMALES THAN MALES. 80% OF SPP. CAUGHT WITHIN THE FIRST 2 YEARS.	COMPLEX INTERACTIONS OF HOVERFLIES WITH VERY DIFFERENT LARVAL HABITS (ADULTS ALL TEND TO BE LOOKING FOR POLLEN AND NECTAR AND THE FEMALES OVIPOSITION SITES). SHEER NUMBERS - TIME. ID KEYS.
157	107	109	5	9 YES. NICHE SPECIFIC MORE THAN HOST SPECIFIC, SO REFLECT HABITAT STRUCTURAL HETEROGENEITY IN THEIR DIVERSITY.	AFFECTED BY NUMEROUS FACTORS AND DIFFERENT SPP. WILL VARY IN NUMBER FROM YEAR TO YEAR AS HOSTS ARE DIFFERENTIALLY SUCCESSFUL. ID - VAST NO.S OF SPP. ALL OCCURING IN RELATIVELY LOW NUMBERS (RELATIVELY RARE YET VERY COMMON).
158	108	28 31 41	2	145 YES. SPECIALIZED GROUP, COMMUNITY CHANGES IN RELATION TO VEGETATION COMPOSITION AND STRUCTURE. CAN BE DIRECTLY RELATED TO VEGETATION DATA	ID.
159	109	110	5	146 YES. NATALITY GREATLY AFFECTED BY SUMMER HUMIDITY AND TEMP.	COMPLEX BEHAVIOUR - DIFFERENT PARTS OF THE POP WILL BE ON AND OFF DUNG AT VARIOUS TIMES. HENCE SAMPLING EVERY 4 DAYS - FEMALES TAKE 6-7 DAYS TO MATURE ANOTHER BATCH OF EGGS AND SO DO NOT RETURN TO THE DUNG FOR A WEEK.
160	110	111	2 3	147 YES. EASILY SAMPLED. RELATIVELY SMALL YEAR TO YEAR CHANGES IN POP DENSITY.	POP BEHAVIOUR VAGUELY CYCLIC - BUT REQUIRES FURTHER DETAILED STUDY!
161	110	111	2 3	148 YES. EASILY SAMPLED. RELATIVELY SMALL YEAR TO YEAR CHANGES IN POP DENSITY.	POP BEHAVIOUR VAGUELY CYCLIC - BUT REQUIRES FURTHER DETAILED STUDY!
162	111	112	5	149 LEVELS OF HOST SEEKING FEMALES MAY BE USEFUL.	EMERGENCE NUMBER AFFECTED BY DILUTION OF DITCHES BY RAIN OR CONVERSELY CONCENTRATION BY LACK OF RAIN, AND BY NUTRIENT INFLUXES OR LATE HATCHING COHORTS.
163	112	113	1 2 3 5	150 YES. POOR DISPERSAL POWERS. REPRESENTATIVE OF SPP. FOUND IN CEREALS AND LIKELY TO BE VULNERABLE TO CHANGES IN AGRICULTURAL	STUDY FIELDS TEND TO GET PLOUGHED AND TURNED TO DIFFERENT CROPS.

					PRACTICES.	
164	113	10 106	2 5	151	YES. INTERESTING DYNAMICS. EPIPHYTE HERBIVORES AND SO NON-DISPERSIVE, MAJOR FOOD SOURCE AT BASE OF FOOD CHAIN.	SAMPLING BY BEATING CAN ONLY BE DONE IN DRY WEATHER THEREFORE BREAKS POSSIBLE.
165	114	114	2 5	152 153	CONSPICUOUS, LARGE, ACTIVE.	NIGHT SURVEYS NEAR WATER.
166	115	28	2 5	154	MOSTLY LARGE AND FAIRLY EASY TO ID. COMMUNITY AFFECTED BY MANAGEMENT, THE SPP. HAVE A WIDE DIVERSITY OF HABITAT REQUIREMENTS.	D-VAC INEFFICIENT FOR LARGER SPP. TURF EXTRACTION DESTRUCTIVE.
167	116	21	5	155	YES	NO
168	117	115	2	156	FAIRLY EASY TO SAMPLE AND ID BUT SEE TAXON.NEG.COMMENTS	PATCHY DISTRIBUTION OF LARVAE.
169	118	116	2 3 5	157	YES. APPEAR TO BE VERY SUSCEPTIBLE TO ENVIRONMENTAL FACTORS SUCH AS DRYING OF THEIR HABITAT.	LARVAE MAY TEND TO AGGREGATE AFTER HATCHING THROUGH WINTER AND BE MISSED IN SAMPLING.
170	119	117	2 5	124	NO	BUSHES DENSE AND HARD TO TOTALLY CENSUS?
171	120	1	2 5	158		
172	121	75	2 5	159	YES. USED FOR MANAGEMENT DECISIONS ON THE SALINE LAKE - CONSERVATION IS DEPENDENT UPON THE MAINTENANCE OF A STABLE WATER LEVEL.	
173	122	118	5	160		COMPLEX COMPETITIONS BETWEEN SPP.
174	123	119 120	2 5	161 144	EASY TO SAMPLE - LARGELY RESTRICTED TO HOST.	LOW DENSITY OF THE CAPSID AND EXPLOSIVE POP CHANGES AND COMPLEX LIFE-HISTORY OF THE APHID.
175	124	121 122 123	2 5	162 163 164 165 166 167 168 169 170	YES. RESTRICTED TO NESTS.	SPECIALIST GROUP. INNACCESSIBLE NESTS OF HOUSE MARTINS. UNPLEASANT.
176	125	124	2	171	EASY TO SAMPLE AND RELATIVELY EASY TO ID.	POORLY STUDIED. 2 YEAR LIFE-CYCLE - BUT THIS IS STILL DEBATABLE. DANGERS OF RIVER SAMPLING.
177	126	125	5	172	AS ANY MACROMOTH	AS ANY MACROMOTH
178	127	126	1 2	174 173	YES. AFFECTED BY ENVIRONMENTAL FACTORS EG LOW DENSITY AT HIGH ALTITUDE, DUE TO FEWER FLOWERS	

SETTING SEED. LARVAE RESTRICTED TO HOST.

02 SEP 1992SITES

KEY.	NAME	AREA	GRIDREF.	ALT1	ALT2	STATUS	AONB	ESA	NP	URB	VC	COUNTY
104	#CONFIDENTIAL# KENT: NO SPECIFIC LOCATION GIVEN.					ESTATE	AONB				15	KENT
60	#CONFIDENTIAL# WYE NNR, KENT (PLUS 1 OTHER CLASSIFIED SITE)	105.2HA	61081447	80	182	NNR SSSI	AONB				15	KENT
46	118 CARSINGTON CRESCENT, ALLESTREE	0.1HA	43338383	85		GARDEN				URB	57	DERBYSHIRE
64	181 BROADWAY, PETERBOROUGH. GARDEN.		52196996	10		GARDEN				URB	31	CAMBRIDGESHIRE
85	6 ROSCREA TERRACE, HUNTINGDON		52234719			GARDEN					31	CAMBRIDGESHIRE
9	66 SCRAPTOFT LANE, LEICESTER		43624056			GARDEN					55	LEICESTERSHIRE
12	ABER VALLEY WOODS	1HA	236--7--			OTHER					49	GWYNEDD
19	AGRICULTURAL RESEARCH INSTITUTE, N. IRELAND, HILLSBOROUGH, C	16.8HA	33242577	110	120	OTHER					H38	DOWN
17	ALL KNOWN SITES IN ESSEX, HERTS,BEDS AND BUCKS.					VARIABLE					20, 21	ESSEX, HERTS, BEDS,
50	ALPORT DALE, N. DERBYSHIRE	200HA	43141903	260		OTHER			NP		57	DERBYSHIRE
80	AMBURY ROAD, HUNTINGDON		52237719 52238720			OTHER					31	CAMBRIDGESHIRE
84	AMBURY ROAD, HUNTINGDON		52237720			OTHER					31	CAMBRIDGESHIRE
114	ASKHAM BOG, YORKSHIRE.	42.5HA	4457-47-	13	17	CTR					64	NORTH YORKSHIRE
66	AYRES: 'BLUE POINT'/'BALLAKESH' (MANX NT) AND 'POINT OF AYRE		254--0--	1	30	NNR PENDING SSSI PENDING NT (MANX)		ESA			71	ISLE OF MAN
25	BARGALY LODGE		25461661	40		ESTATE					73	DUMFRIES AND GALLOWA
27	BARRY LINKS SSSI	1041.1HA	37540320	0	3	SSSI					90	TAYSIDE

					MOD				
102 BASINGSTOKE CANAL	3.2KM	41843528	80		SSSI CTR MOD OTHER			12, 17	HAMPSHIRE, SURREY
105 BEWDLEY, RIVER SEVERN (AND NOW 2 OTHER NEARBY SITES).	0.05KM	32782762	17		OTHER			37	WORCESTERSHIRE
55 BLACKMOORFOOT RESERVOIR, HUDDERSFIELD, W. YORKS	40.9HA	44099130	260		SSSI		URB	63	WEST YORKSHIRE
48 BREADSALL CUTTING LNR		43385395			LNR			57	DERBYSHIRE
57 BUCKINGHAM THICK COPSE NNR, NORTHANTS		42707432			NNR SSSI			32	NORTHAMPTONSHIRE
51 BURE MARSHES NNR	415HA	63335165	<10		NNR SSSI	ESA NP		27	NORFOLK
97 BURNHAM BEECHES, SEVENWAYS PLAIN AREA		41947846	75		SSSI			24	BUCKINGHAMSHIRE
40 CEREAL FIELD	6.1HA	51045035	50		OTHER			13	WEST SUSSEX
16 CHARTLEY MOSS	40HA	33025285	100		NNR			47	POWYS
93 CHURCH HILL, WEST SUSSEX	1.6HA	51112089	90	125	OTHER	AONB		13	WEST SUSSEX
92 CISSBURY RING, WEST SUSSEX	1.6HA	51143083	120	180	NT	AONB		13	WEST SUSSEX
63 CLOSE HOUSE, HEDDON ON THE WALL, NORTHUMBERLAND. UNIVERSITY	0.56HA	45132657	10		OTHER			67	NORTHUMBERLAND
69 CLOSE SARTFIELD	12.1HA	24360955			NNR (BUFFER LNR PENDING			71	ISLE OF MAN
103 CLUMBER PARK, NOTTINGHAMSHIRE.	1HA	43643738			NT			56	NOTTS
59 COATES CASTLE SSSI AND ENVIRONS	129.5HA	41989167	30	40	SSSI			13	WEST SUSSEX
74 COED RHEIDOL NNR	220HA	22740778	220		NNR			46	DYFED

					SSSI			
100 COPPETS WOOD & PRIVATE GARDEN ABUTTING RESERVE	19.1HA	51276916			LNR GARDEN		URB 21	GREATER LONDON
86 CORNMILL STREAM AND OLD RIVER LEE SSSI		511--1--			SSSI		21	HERTFORDSHIRE
73 CORS FOCHNO, DYFI NNR	550HA	2263-91- 5			NNR SSSI		46	DYFED
62 CORS GOCH NATURE RESERVE (LLANLLWCH)	19.4HA	22366186			SSSI CTR OTHER		44	DYFED
13 CROMFORD CANAL LNR (WHATSTANDWELL TO AMBERPATE)	5HA3.2KM	43332543 84 43350519			LNR SSSI	AONB	57	DERBYSHIRE
28 DERSINGHAM NATURE RESERVE	147.7HA	53675289 0		25	LNR SSSI		28	NORFOLK
81 DURHAM CITY WOODLAND		452--4--			OTHER		66	DURHAM
119 EMMETS HILL UNDERCLIFFE, DORSET.					LNR SSSI MOD		9	DORSET
26 ENGLAND					OTHER		URB	
45 ENGLAND (SOUTH WEST)					NNR LNR SSSI NT CTR RSPB	AONB ESA NP	URB	SOUTH WEST
99 FARINGFORD FARM	71.6HA	40335862 25		75	OTHER		10	ISLE OF WIGHT
89 FARM HOUSE POND & ENVIRONS, CAMBRIDGE.	0.5HA	52364673 10			GARDEN OTHER		29	CAMBRIDGESHIRE

3	FARNHAM PARK	121.4HA	41839480	100		PARK		17	SURREY
95	FENNS/WHIXALL MOSSES.	884HA	33490365	90	96	NNR SSSI		40	SHROPSHIRE
37	FORVIE NNR (A EUROPEAN BIOGENETIC RESERVE)	1000HA	48034289	0	57	NNR SSSI OTHER: SNH L EURO BIOGENE		93	GRAMPIAN
47	FRIARGATE STATION, DERBY		43348363			OTHER	URB	57	DERBYSHIRE
67	GLASSON MOSS NNR	242.8HA	35235605	10	15	NNR	AONB	70	CUMBRIA
43	GREAT BRITAIN (EXC. N. IRELAND)					OTHER: SUSCE		ALL	ALL
77	GUNTHORPE HAGG WOOD	10.5HA	43550547	142		OTHER		56	NOTTINGHAMSHIRE
91	HANTS WILDLIFE RESERVE (F. TRANSKAUCASICA), NEW FOREST GENER	0.4 HA(W		40		NNR CTR	AONB ESA NP	11	HAMPSHIRE
121	HARTSLOCK NATURE RESERVE	4.5HA	41698795			SSSI CTR	AONB	23	OXFORDSHIRE
83	HATFIELD MOORS, S. YORKSHIRE		446--0-- 3 447--0--		5	NNR SSSI		63	SOUTH YORKSHIRE
15	HEATHER BANK GARDEN, MATLOCK	0.15HA	43295812	200		GARDEN		57	DERBYSHIRE
90	HERTFORDSHIRE, VC 20.	170400HA	51250150	20	244	OTHER		20	HERTFORDSHIRE
6	HETCHELL WOOD		44632005			LNR		63	SOUTH YORKSHIRE
8	HOLCOMBE MOOR TRAINING CAMP, LANCS.	259HA	34766156	220		MOD		59	LANCASHIRE
11	HOPHURST FARM		51355384	115		OTHER		14	EAST SUSSEX
7	ISLE OF MAN - VARIOUS SITES		24------			OTHER		71	ISLE OF MAN

88 KINDER SCOUT, PEAK DISTRICT	1214.0HA	43072872	450	500	SSSI NT		NP	57	DERBYSHIRE
101 KINGLEY VALE NNR		41822108	<120		NNR	AONB		13	WEST SUSSEX
87 LAKE DISTRICT, NATIONAL TRUST PROPERTIES					SSSI NT		NP	69, 70	CUMBRIA
115 LEIGH WOODS, AVON GORGE.		3155-73-			NNR SSSI NT			34	AVON
106 LEWES MEADOWLANDS	15HA	5142-09-	0	2	NNR PENDING		URB	14	EAST SUSSEX
107 LEWES MEADOWLANDS	15HA	5142-09-	0	2	LNR PENDING		URB	14	EAST SUSSEX
94 LOCH LEVEN NNR	1578.3HA	371--0--	105		NNR SSSI			85	TAYSIDE
71 LOE BAR	12HA	10643240	0	10	SSSI NT			1	CORNWALL
41 LOWER MOOR RIVER	6.5KM	41104007 40126974	15	20	LNR SSSI			11	DORSET
52 LUDHAM MARSHES NNR	72HA	63405177	<10		NNR SSSI		ESA NP	27	NORFOLK
23 MACKNADE, FAVERSHAM	0.1HA	61025596	38		OTHER			15	KENT
34 MEADOW LANE GRAVEL PITS & ADJACENT MEADOW	300HA	52323708	<10		OTHER			16	CAMBRIDGE
122 MELTON WOOD, S. YORKS.	68.8HA	4451-03-			OTHER: FC			63	SOUTH YORKSHIRE
61 MID-WYE/UPPER-SEVERN/UPPER-USK CATCHMENTS					OTHER				
98 MILL COPSE	5.7HA	40357890	2	10	OTHER			10	ISLE OF WIGHT

111	MOORLANDS NATURE RESERVE (YORKSHIRE WILDLIFE TRUST).	6.9HA	4457-58-	15	19	CTR		62	NORTH YORKSHIRE
118	NEW FOREST					NNR SSSI NT		11	HAMPSHIRE
75	NEWTOWN RIFLE RANGE	323.7HA	4044-91-	0	50	SSSI MOD		10	ISLE OF WIGHT
29	NORFOLK NATURALIST TRUST RESERVES					NNR SSSI CTR	AONB ESA NP	27, 28	NORFOLK
20	NORTHERN IRELAND: APPROX TOP 20 QUALITY MIRES							M36,M3	
32	NUNHEAD CEMETRY	20.2HA	51355755	30	60	PARK	URB	17	SURREY
120	OLD WINCHESTER HILL.	60HA	41647211 41640205	130	200	NNR SSSI	ESA	11	HAMPSHIRE
36	OYSTER WOOD, HEADLEY, SURREY	15HA	51199549	120		NT		17	SURREY
22	PERRY WOOD	100HA	61045555	152		OTHER		15	KENT
112	PILMOOR COMMON	16.2HA	4446-72-	22	24	OTHER		62	NORTH YORKSHIRE
78	PULPIT HILL	4HA	4283-04-			LNR SSSI		24	BUCKINGHAMSHIRE
96	RAHOY HILLS RESERVE	13.2KM	28690535	50	100	SSSI CTR		106	HIGHLAND
109	RIVER CAULBOURNE, IOW.		40422867	10	45	OTHER		10	ISLE OF WIGHT
108	RIVER MEDINA (BELOW WEIR), IOW.		40503881	10	45	OTHER		10	ISLE OF WIGHT
110	RODGE BROOK, IOW.		40422867	10	45	OTHER		10	ISLE OF WIGHT
14	ROSE END MEADOWS RESERVE, CROMFORD	8HA	43293567	120	155	CTR		57	DERBYSHIRE

					OTHER				
35	ROUNDSTONE, FRESHWATER	0.2HA	40335871	10	SSSI ADJACEN GARDEN		URB	10	ISLE OF WIGHT
30	RYE HARBOUR LNR & SSSI		5191-19- 5194-18-	0	LNR SSSI			14	EAST SUSSEX
1	SANDON HALL GARDEN	14.2 HA	3395-28-	88 128	ESTATE			39	STAFFORDSHIRE
44	SCOTLAND (NORTH)				OTHER: SUSCE			ALL	ALL
33	SEASALTER	0.5KM ST	61065648	2	OTHER	ESA		15	KENT
42	SEVENOAKS WILDFOWL RESERVE	54.6HA	51520570	80	SSSI			16	KENT
5	SHIRLEY POOL	16.4HA	44566120		SSSI			63	SOUTH YORKSHIRE
58	SHOEBURY OLD RANGES (FORMERLY PART OF SHOEBURY COMMON)	20HA	51927841	0	LNR			18	ESSEX
18	SITES IN NORTH WEST (LANCS, CHESH, CUMB, MERSEY, GTR MANCH)	VARIABLE	33------ 34------		NNR LNR SSSI NT CTR RSPB	AONB ESA NP	URB	58, 59	LANCS,CHESH,CUMB,MER
113	SKIPWORTH COMMON	242.8HA	4465-37-	5 15	CTR			61	HUMBERSIDE
76	SOMERSET MOORS, VARIOUS SITES			6	OTHER	AONB		6	SOMERSET
4	SOUTH SHROPSHIRE		32------ 33------		NNR SSSI NT OTHER	AONB	URB	40	SHROPSHIRE
116	SPRING COTTAGE, KIMBERS LANE, MAIDENHEAD. GARDEN.	0.14HA	41884793	35	GARDEN			22	BERKSHIRE
54	STANFORD BATTLE AREA	12000HA	528--9--	0 50	MOD			28	NORFOLK

2 STRENSALL COMMON (YORKS WLT RESERVE)	40.5HA	4464-61- 15			CTR	62	NORTH YORKSHIRE
79 SUNDON SPRINGS QUARRY		52043267			SSSI	30	BEDFORDSHIRE
117 SURREY, SEVERAL SITES. (STATUS UNCLEAR)					LNR SSSI CTR	17	SURREY
10 THE ROYAL HORTICULTURAL SOCIETY'S GARDENS, WISLEY					GARDEN ESTATE	17	SURREY
82 THORNE MOORS, S. YORKSHIRE		447--1-- 3		5	NNR SSSI	63	SOUTH YORKSHIRE
24 THRISLINGTON PLANTATION NNR	36HA	4531-32-			NNR OTHER	66	DURHAM
38 THUNDRY MEADOWS(SURREY WLT)/ CHARLES HILL SSSI	0.4HA	41895991 60			SSSI CTR	17	SURREY
39 THURSLEY NNR	323.7HA	41906415 60			NNR SSSI OTHER: BIOGE	17	SURREY
56 THURSLEY NNR (SEE ALSO SITE 39 REC.46)	325.34HA	41906405 55		100	NNR SSSI OTHER: BIOGE	17	SURREY
31 TREBORTH BOTANIC GARDEN	4.1HA	23551711 40			SSSI ADJACEN AONB	49	GWYNEDD
72 UXBRIDGE- DENHAM DISUSED RAILWAY		51055867 35			OTHER	21	MIDDLESEX
70 WALDEGRAVE POOL,PRIDDY MINERIES RESERVE	0.8HA	31547515 250		275	SSSI AONB CTR	6	SOMERSET
21 WARDEN POINT SHEPPEY	1HA	61019725 30			OTHER	15	KENT
65 WASKERLEY MOOR, MAGGLESWICK COMMON, EDMUNDBYERS, CO. DURHAM		450--4-- 350		470	ESTATE	66	DURHAM

68 WEDHOLME FLOW	809.4HA	35210535	10	15	NNR	AONB	70	CUMBRIA
53 WINTERTON DUNES NNR	108HA	63490210	<10		NNR SSSI		27	NORFOLK
49 WOLLATON PARK	222.6HA	43533393			ESTATE		56	NOTTINGHAM

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12 COLESHAW, TIM	ENGLISH NATURE	ENGLISH NATURE	SY4 4TW	074377 611	210 074377 303

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4 HAND, PAUL	BEES AND TREES	36 ROCK LANE LUDLOW SHROPSHIRE	SY8 1ST	0584 876039		
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80 HODGE, PETER J.		8 HARVARD ROAD RINGMER LEWES EAST SUSSEX	BN8 5HJ 0273 812047	
86 HOLDEN, SIMON	BBONT	BBONT (OXON) 3 CHURCH COWLEY ROAD ROSE HILL OXFORD	OX4 3JR 0865 775476	0865 711301
21 HOLMS, PHILIP J.	ENGLISH NATURE	5 DAWES LANE SNETTISHAM KINGS LYNN NORFOLK	PE31 7PU 0485 542572	
68 HOWARD, ROBERT AND JULIE	1992 GLOW WORM SURVEY	ROSEMARY CORNER 31 STEEP LANE FINDON, WORTHING WEST SUSSEX	BN14 OUE 0903 872252	
25 JONES, RICHARD A.		13 BELLWOOD ROAD NUNHEAD LONDON	SE15 3DE 071 732 2440	071 277 8725
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28 KNILL-JONES, SAMUEL A.	BRIT. ENTOM & NAT. HIST. SOC.	ROUNDSTONE 2 SCHOOL GREEN ROAD FRESHWATER ISLE OF WIGHT	PO40 9AL 0983 75 2805	
69 LAUDER, ALAN	SCOTTISH NATURAL HERITAGE	SNH, LOCH LEVEN LABORATORY THE PIER KINROSS TAYSIDE	KY13 OHT 0577 864439	0577 865166

36 LEVY, E. T. & D. A.	NCC, HOVERFLY SCHEME SOUTH-WES	9 CHILTON GROVE YEOVIL SOMERSET	BA21 4AN	YEOVIL 75824	
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54 MAWBY, FRANK	ENGLISH NATURE	WAYSIDE KIRKBRIDE CARLISLE	CA5 5JR	06973 51517	
18 MCCLEANY, JIM		BEECHMOUNT, CUNNINGHAME TERRAC NEWTON STEWART WIGTOWNSHIRE	DG8 6DY	0671 2412	
13 MCGEENEY, ANDREW		12 LINCOLNSFIELD EPPING ESSEX	CM16 5DY	0992 573661	0992 573661
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78 NEWCOMBE, MARTIN		WINDY CORNER PARK GATE ELHAM, CANTERBURY KENT	CT4 6NE	0303 840490	
43 NOBES, SIMON	ENGLISH NATURE	COUNTRYSIDE MANAGEMENT CENTRE COLDHARBOUR FARM WYE ASHFORD, KENT	TN25 5DB	0233 812525	0233 812520
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57 SCAGELL, ROBIN	1992 GLOW WORM SURVEY	1 MILVERTON DRIVE ICKENHAM UXBRIDGE MIDDLESEX	UB10 8PP 0895 637463	
5 SERGEANT, CHRISTOPHER R.		10 PACKINGTON ROAD CANTLEY DONCASTER SOUTH YORKSHIRE	DN4 6TZ 0302 531140	
17 SHEPPARD, DAVID	ENGLISH NATURE	ENGLISH NATURE NORTHMINSTER HOUSE PETERBOROUGH CAMBS	PE1 1UA 0733 340345	2314 0733 68834
48 SLATER, DR. F. M.	UNIVERSITY OF WALES COLLEGE OF	LLYSDINAM FIELD CENTRE SCHOOL OF PURE AND APPLIED BIO UNIVERSITY OF WALES COLLEGE OF NEWBRIDGE- ON - WYE, LLANDRIND POWYS	LD1 6ND 059789 308	
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73 TELFER, DEREK	ISLE OF WIGHT NATURAL HISTORY	131 MEDINA PARK FOLLY ROAD EAST COWES ISLE OF WIGHT	PO32 6NF 0983 291371	
11 THORPE, EILEEN	DERBYSHIRE WILDLIFE TRUST	HEATHER BANK QUARRY BANK SMEDLEY STREET WEST MATLOCK, DERBYSHIRE	DE4 3LF 0629 584416	
31 THURNER, MIKE	BDS - HANTS & SURREY BORDERS	LITTLETON FARMHOUSE LITTLETON GUILDFORD SURREY	GU3 1HW 0483 304949	0483 304949

70 TILLING, STEPHEN	FIELD STUDIES COUNCIL	THE HAWTHORNS RACECOURSE LANE SHREWSBURY SHROPSHIRE	SY3 5BJ	0743 850370	
32 TOPPING, DR. C. J.	HORTICULTURE RESEARCH INTERNAT	H.R.I. WORTHING ROAD LITTLEHAMPTON WEST SUSSEX	BN17 6LP	0903 716123	2348 0903 726780
34 TYLER, JOHN	SEVENOAKS WILDFOWL RESERVE	SEVENOAKS WILDFOWL RESERVE BRADBOURNE VALE ROAD SEVENOAKS KENT	TN13 3DH	0732 456407	
84 VERDCOURT, BERNARD		C/O ROYAL BOTANIC GARDEN KEW RICHMOND SURREY	TW9 3AB		
44 WARNE, A. C.	J.N.C.C.	J.N.C.C. MONKSTONE HOUSE CITY ROAD PETERBOROUGH	PE1 1JY	0733 62626	0733 555948
83 WIDGERY, JOHN		21 FIELD VIEW ROAD POTTERS BAR HERTS	EN6 2NA	0707 42708	
26 WILLIAMS, ALEX		40 PRESTON PARK FAVERSHAM KENT	ME13 8LN	0795 536539	
33 WINSLAND, DAVID		2 STOURFIELD ROAD BOURNEMOUTH	BH5 2AR	0703 282442	0703 282422
35 WINTER, TIM	THE FORESTRY AUTHORITY	THE FORESTRY AUTHORITY RESEARCH DIVISION	GU10 4LH	0420 22255	229 0420 23653

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6 WRIGHT, JAMES		32 WYTHBURN CRESCENT CARR MILL ST HELENS MERSEYSIDE	WA11 7HD	NONE
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3	ARCHER, M. E.	1985	POPULATION DYNAMICS OF THE SOCIAL WASPS, V. GERMANICA (HYMENOPTERA: VESPIDAE), IN	JOURNAL OF ANIMAL ECOLOGY	54, 473-486
4	ARCHER, M. E.	1990	SEASONAL FLIGHT ACTIVITIES OF SOCIAL VES AS MONITORED BY MALAISE TRAP CATCHES.	ENTOMOLOGIST'S MONTHLY MAGAZINE	126, 179-184
5	ARCHER, M. E.	1990	THE SOLITARY ACULEATE WASPS AND BEES (HY OF AN ENGLISH SUBURBAN GARDEN.	ENTOMOLOGIST'S GAZETTE	41, 129-142
46	AVERILL, M. T.	1989	EMERGENCE ATTITUDES IN GOMPHUS VULGATISS	JOURNAL BRITISH DRAGONFLY SOCIETY.	5, 37-39
44	CAMERON, R. A. D. AND REDFERN,	1978	POPULATION DYNAMICS OF TWO HYMENOPTERAN MIDGE TAXOMYIA TAXI (INCHBALD).	ECOLOGICAL ENTOMOLOGY	3, 265-272
32	CHAM, S. A.	1990	A STUDY OF ISCHNURA PUMILIO WITH PARTICU OF MATURITY OF THE FEMALE FORM AURINTIAC	J. BR. DRAGONFLY SOC.	6 NO.2, 42-44
33	CHAM, S. A.	1991	THE SCARCE BLUE-TAILED DAMSELFLY, ISCHNU PREFERENCES IN SOUTH-EAST ENGLAND.	J. BR. DRAGONFLY SOC.	7 NO.1, 18-25
29	CHATER, A. O.	1988	THE ANTS OF CORS FOCHNO (22/69), 1986-19	DYFED INVERTEBRATE GROUP NEWSLETTER	10, 10-12
22	DENTON, M. L.	1991	A GRASSPILE AT BLACKMOORFOOT RESERVOIR	THE BULLETIN	16, 14-15
23	DENTON, M. L.		VAR. ARTICLES ON BLACKMOORFOOT BEETLES	THE NATURALIST	111, 91-96; 113, 147
34	EVERSHAM, B. AND GREEN, S. V.	1989	THE IRISH YELLOW SLUG (LIMAX MACULATUS(K NEW TO HUNTINGDONSHIRE.	REPORT HUNTINGDON FAUNA & FLORA SOC. 41ST.	41ST (1989), 13-21
36	EVERSHAM, B. C.	1990	CHANGES IN THE MOLLUSC FAUNA OF A HUNTIN	REPORT HUNTS. FAUNA & FLORA SOC. 43RD.	43RD 1990, 32-38
48	FITTER AND SMITH		A WOOD NAMED ASKHAM.		
30	FOWLES, A. P.	1988	THE HARVESTMEN OF CORS FOCHNO, 1986-1988	DYFED INVERTEBRATE NEWSLETTER	11, 10-12

31 FOWLES, A. P.	1987	AN INVESTIGATION OF THE EFFECTS OF FIRE FAUNA OF A COASTAL RAISED MIRE.	DYFED INVERTEBRATE NEWSLETTER	8, 4-8
8 GOLDIE-SMITH, E. K.	1989	LABORATORY REARING AND EGG DEVELOPMENT I (DIPTERA: DIXIDAE)	ENTOMOLOGIST'S GAZETTE	40, 53-65
9 GOLDIE-SMITH, E. K.	1982-6	A LIMNOLOGICAL STUDY OF THE SSSI AND LNR		
10 GOLDIE-SMITH, E. K.	1987	AQUATIC INVERTEBRATES. (1982-6).	THE HASTINGS AND EAST SUSSEX NATURALIST	13: 3-10
7 GOLDIE-SMITH, K. E.	1989	THE EGGS OF DIXELLA AESTIVALIS (MEIGEN), EGGS OF THREE OTHER SPECIES OF DIXELLA (	ENTOMOLOGIST'S MONTHLY MAGAZINE	125, 107-117
35 HEAVER, D. AND EVERSHAM, B. C.	1991	THORNE AND HATFIELD MOORS INVERTEBRATE S VOL. II, APPENDIX II, PT.1, 8PP. INC. 2 THORNE AND HATFIELD MOORS CONSERVATION F		
47 HERBERT, R. J. H.	1991	THREE ISLE OF WIGHT STREAMS: OBSERVATION THE RIVER CAUL BOURNE, LUKELY BROOK, AND	PROC. ISLE OF WIGHT NAT. HIST. ARCHAEOL. SOC.	10(PUB.1991): 85-111
11 JONES, R. A.	1992	SYCAMORE - AN UNDERRATED PABLUM FOR INSE ASSOCIATED WITH IT.	ENTOMOLOGIST'S RECORD AND JOURNAL OF VARIATION	104, IN PRESS
14 KNILL-JONES, S. A.	1991	A COMPARISON OF THE EARLY SPRING EMERGEN 1989-1991 TAKEN AT FRESHWATER, ISLE OF W LIGHT	BRITISH JOURNAL OF ENTOMOLOGY AND NATURAL HISTORY	4, 129-131
17 LEVY, E. T. & D. A.	1992	DORSET HOVERFLIES (IN PRINT): DERC		
24 LUFF, M. L.	1990?	SPATIAL AND TEMPORAL STABILITY OF CARABI GRASS/ARABLE MOSAIC	THE ROLE OF GROUND BEETLES IN ECOLOGICAL AND ENVIRONMENTAL S	INTERCEPT LTD: ANDOV
13 MILNE, B. S.	1990	THE DRAGONFLY FAUNA OF A HUNTINGDONSHIRE	HUNTS. FLORA AND FAUNA SOCIETY. ANNUAL REPORT 1990	1990, 17-21
38 MOORE, N. W.	1991	THE DEVELOPMENT OF DRAGONFLY COMMUNITIES TERRITORIAL BEHAVIOUR: A 27 YEAR STUDY O FEN, CAMBRIDGESHIRE, UNITED KINGDOM.	ODONATOLOGICA	20(2), 203-231
39 MOORE, N. W.	1987	THE BIRD OF TIME.	BOOK: CAMBRIDGE UNIVERSITY PRESS, CAMBRIDGE.	290PP.

40	MOORE, N. W.	1953	POPULATION DENSITY IN ADULT DRAGONFLIES	JOURNAL OF ANIMAL ECOLOGY.	22, 344-359
41	MOORE, N. W.	1975	BUTTERFLY TRANSECTS IN A LINEAR HABITAT	ENTOMOLOGIST'S GAZETTE.	26, 71-78
42	MOORE, N. W. AND CORBET, P. S.	1990	GUIDELINES FOR MONITORING DRAGONFLY POPU	JOURNAL BRITISH DRAGONFLY SOCIETY.	6, 21-23
18	ORPE, K. J.			JOURNAL OF THE DERBYSHIRE ENTOMOLOGICAL SOCIETY	
43	REDFERN, M. AND CAMERON, R. A.	1978	POPULATION DYNAMICS OF THE YEW GALL MIDG (DIPTERA: CECIDOMYIIDAE).	ECOLOGICAL ENTOMOLOGY	3, 251-263
6	SHEPPARD, D. A.	1990	CHANGES IN THE FAUNA OF MAGNESIAN LIMEST TRANSPLANTATION: PRELIMINARY OBSERVATION PLANTATIONS	CALCAREOUS GRASSLANDS - ECOLOGY AND MANAGEMENT (BES/NCC SYMP	171-172
45	SITCH, T. A., GREWCOCK, D. A.	1988	FACTORS AFFECTING COMPONENTS OF FITNESS	OECOLOGIA	
1	SMITH, C. J.		LECTURES TO YWT MEETINGS AND NOTES REGARDING SPIDERS ON STRENSALL COMMON, Y	YORKSHIRE WILDLIFE TRUST NEWSLETTERS	
26	SPALDING, A.	1991	A PLEA FOR LEGAL PROTECTION FOR THE SAND NICKERLII LEECHI) (LEP: NOCTUIDAE) AT IT	ENTOMOLOGIST'S REC. J. VAR.	103, P250
27	SPALDING, A.	1991	NOTES ON THE POPULATION OF LUPERINA NICK (LEPIDOPTERA: NOCTUIDAE) AT ITS SITE IN	THE BRITISH JOURNAL OF ENTOMOLOGY & NATURAL HISTORY.	4, 133-137
28	SPALDING, A.	1991.	NOTES ON THE BEHAVIOUR OF LUPERINA NICKE RUSTIC, LEP: NOCTUIDAE) AT ITS SITE IN C	ENTOMOLOGIST'S REC. J. VAR.	103, 323-325
25	STUBBS, A. E.	1991	A METHOD FOR MONITORING GARDEN HOVERFLIE	DIPTERISTS DIGEST	10, 26-39
37	THE NATIONAL TRUST, HIGH PEAK	1986	KINDER: THE FIRST FOUR YEARS (1982-1986)	NT BOOK	
21	VILES, I	1991	MACROLEPIDOPTERA RECORDING AT WOLLATON P	JOURNAL OF THE DERBYSHIRE ENTOMOLOGICAL SOCIETY	SUMMER 1991, 19-20
49	WIDGERY, J.	1991	A PROVISIONAL COMMENTARY ON THE STATUS O AND RELATED INSECTS (ORTHOPTEROIDS) IN H	HERTFORDSHIRE NATURAL HISTORY SOCIETY TRANSACTIONS.	31(1, MAY), 18-24

50 WIDGERY, J.	1991	THE COLONISATION OF ORTHOPTERA ON ARABLE	HERTFORDSHIRE NATURAL HISTORY SOCIETY TRANSACTIONS.	31(1. MAY), 40
51 WIDGERY, J.	1991	THE NORTHWARD SPREAD OF ROESEL'S BUSH CR IN HERTFORDSHIRE.	HERTFORDSHIRE NATURAL HISTORY SOCIETY TRANSACTIONS.	31(1. MAY), 39
52 WIDGERY, J.	1992	STRIPE-WINGED GRASSHOPPER (STENOBOTHRUS HERTFORDSHIRE AFTER PERIOD OF 30 YEARS.	HERTFORDSHIRE NATURAL HISTORY SOCIETY TRANSACTIONS.	31(3. MAY), 185-186
53 WIDGERY, J.	1991	THE POSSIBLE IMMINENT ARRIVAL OF A NEW S HERTFORDSHIRE.	HERTFORDSHIRE NATURAL HISTORY SOCIETY NEWSLETTER.	NO. 15. AUTUMN 1991.
12 WILLIAMS, A.	1991	CORTICARINA TRUNCATELLA (MANN.)(LATHRIDI	COLEOPTERIST'S NEWSLETTER	44/5, 8-9
15 WINTER, T	1955-		FORESTRY COMMISSION: REPORT ON FORESTRY RESEARCH (1955-)	
16 WINTER, T	1977-		FORESTRY COMMISSION REPORT ON FORESTRY RESEARCH (1977-)	
2 WRIGHT, JAMES	1992	VARIOUS ARTICLES DEALING WITH IOM SPIDER	IOM NAT. HIST. & ANTIQUARIAN SOCIETY REPORT (1992)	
19 WRIGHT, S	1992	HYLOICUS PINASTRI, L., THE PINE-HAWK MOT	THE ENTOMOLOGIST'S RECORD AND JOURNAL OF VARIATION	PENDING
20 WRIGHT, S.	1990	BLEDIUS GERMANICUS WAGNER (COL.:STAPHYLI	THE ENTOMOLOGIST'S RECORD AND JOURNAL OF VARIATION	102, P226

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SIT	O	OBJ	COMMENTS.....	PRACT	USE YET	PRACT COMMENT.....	BMS	OTHER MONIT	OTHER MONIT COMMENT.....
1	1	2	2	1	6			NO			NO	DON'T KNOW	
		3	5		7								
2	2	4	5	2	1			YES		NATURE RESERVE MANAGEMENT PLAN	NO	YES	ALL (BOTANY, BIRDS, REPTILES, INSECTS).
					2								
					3								
					4								
3	3	5	2	3	1		COLONIZATION, POP FLUCTS IN	YES		WAVERLEY BOROUGH COUNCIL	NO	YES	
		6	5		2	2	RECENTLY CLEARED PONDS.						
		7			3								
		9			5								
		10											
		11											
		12											
		13											
		14											
		15											
		16											
		8											
4	4	17	5	4	1			YES			NO	YES	
		18			2								
					3								
					5								
					6								
					7								
					8								
5	5	15	4	5	1			NO			NO	DON'T KNOW	DONCASTER MUSEUM MAY LOOK AT SITE
		16	5		6								
6	5	16	4	6	6			NO			NO	NO	
		15	5										

7	6	4	5	7	1 2 3 4 5		YES	MANX TRUST FOR NATURE CONSERVATION MANX GOVERNMENT MANX MUSEUM AND NATIONAL TRUST	NO	YES	VAR. AT VAR.SITES INC.BIRDS,BEETLES
8	6	4	5	8	1 2 3 4 5		NO		NO	DON'T KNOW	
9	7	19 20	5	9	2				NO	YES	ALL PLANTS AND ANIMALS
10	7	20	6	10	2		YES	POP. DYNAMICS IS PROVING IMPORTANT TO SIMILAR WORK OCCURING IN NEW ZEALAND	NO	DON'T KNOW	
11	8	16 15 39	5	117	1 2 3 4 5	RESEARCH.	NO		NO	DON'T KNOW	
12	9	21	5	11	3 5 6 7		NO		NO	NO	
13	10	22	1 4 5	12	2 9	TEACHING EXERCISE	NO		NO	NO	
14	11	2 24 23	5	13	1 3 4 6 8	IDENTIFICATION OF LOCAL HABITATS; WITHIN THE WHOLE.	YES	CANAL MANAGEMENT GROUP DERBYSHIRE WILDLIFE TRUST	NO	YES	VEGETATION

					9						
15	11	2	5	14	1 HABITAT INFO WITHIN THE SITE 2 AND ITS CONTINUITY. 3 6 8 9	YES	DERBYSHIRE WILDLIFE TRUST	NO	YES	VEGETAION, BUTTERFLIES
16	11	23 2 24 3	5	14	1 HABITAT INFO WITHIN THE SITE 2 AND ITS CONTINUITY. 3 6 8 9	YES	DERBYSHIRE WILDLIFE TRUST: BASE-LINE INFO FOR MONITORING	NO	YES	VEGETATION, BUTTERFLIES
17	11	2 23	5	15	2 6 8	NO		NO	YES	VEGETATION (CHANGE)
18	12	25	4	16	1 MONITOR EFFECTS OF BOG 2 RESTORATION MANAGEMENT ON 3 L. DUBIA NO.S.	NO		NO	YES	VEGETATION
19	13	26	2 5	17	1 TO DETERMINE HABITAT 2 REQUIREMENTS, PARTICULARLY PRESENCE AND TYPE OF VEGETATION BY RIVER SITES. ALSO SEXUAL MATURITY BY VAR. LACTEA AND THE EFFECTS OF POLLUTION ON THE POPULATION.	NO	HOPE IT WILL BE FOR RIVER MANAGEMENT.	NO	YES	ASSOCIATED VEGETATION, IN AND NEAR WATER.
20	14	2 15 16	5 4 2	18	1 2 3 4 5 6 7	YES	BRC(>10% OF NATIONAL RECORDS), GROUNDWORK (OLDHAM & ROCHDALE), STOCKPORT, VARIOUS RESERVES, NT, GTR. MANCH. COUNTRYSIDE UNIT.	NO	YES	

21	15	27 28	5	19	2 7 9	ENVIRONMENTAL MONITORING	YES	EXPANSION OF THE IRISH LIST OF COLEOPTERA [RA].	NO	YES	FULL ECN MONITORING SITE
22	15	31 21	5	19	2 7	ENVIRONMENTAL MONITORING	NO		NO	YES	FULL ECN MONITORING SITE
23	15	29	2	19	2 7	ENVIRONMENTAL MONITORING	NO		NO	YES	FULL ECN MONITORING SITE
24	15	30	2 5	19	2 7	ENVIRONMENTAL MONITORING	NO		NO	YES	FULL ECN MONITORING SITE
25	15	27 32	5	20	4 5 7 9	EVALUATE CARABIDS/STAPHYLINIDS AS INDICATORS OF MIRE QUALITY, AND DETECT ANY DELETERIOUS TRENDS IN SPP. DIVERSITY.	NO		NO	NO	
26	16	33	5	21	2 6 8	GENETIC	NO		NO	DON'T KNOW	
27	16	34	2 5	22	2 6		NO		NO	NO	
28	16	35	1 5	22	2		NO		NO	NO	
29	16	36	1	23	2 6		NO		NO	NO	
30	16	37	5	22	2 6		NO		NO	NO	
31	17	1	2 3 5	24	3 4 5 9	CHARACTERISATION	YES	ENGLISH NATURE	NO	YES	VEGETATION

32	18	21 31	5	25	2 7		NO		NO	YES	VEGETATION, BLACKGROUSE, NIGHTJARS.
33	19	38	1 2 3 5	26	2 7 9	MONITORING SPREAD OF THE ALIEN	YES		NO		
34	20	27	5	27	2 5 7		NO		NO	DON'T KNOW	
35	21	15 16	5	28	1 2 3 4 5		NO		YES	YES	CBS,RARE PLANT SURVEY (VEGETATION), HYDROLOGY.
36	21	21	5	28	1 2 3 4 5		NO		NO	YES	CBS,RARE PLANT SURVEY (VEGETATION), HYDROLOGY.
37	22	21 25 16 39	2 4 5	29	1 3 8		YES	TRUST STAFF - MANAGEMENT PROGRAMMES	YES	YES	
38	23	40	1 2 3 4 5	30	1 2 3 4 6 7 8 9	UNIQUE STUDY OF DIXIDAE EGGS	YES	WARDEN	NO	YES	VEGETATION, BIRDS, SPIDERS

39	24	21	5	31	2 6 8 9	TEACHING AND DEMONSTRATION TO GROUPS.	YES	RESEARCH STUDENTS AT UCNW	NO	YES	BIRDS, MAMMALS, VEGETATION, SOIL INVERTEBRATES.
40	25	28 42 41	5	32	3 4 5 6		YES	PUBLIC RELATIONS/AWARENESS OF SITE. LOCAL CONS. VOLUNTEERS ASKED TO MAKE USE OF HABITAT AND INVERT INFO	NO	YES	BIRDS, VEGETATION, FUNGI.
41	26	4 43	5	33	1 2 5 6		NO	NO BUT TALK OF TURNING THE AREA INTO A CAR PARK	NO	YES	BIRDS
42	27	15 16 44	4 5 7	34	1 2 5 6 9	PRIMARY OBJECTIVE: ASSESS IMPACT OF MULTIRECREATIONAL USAGE.	YES	ODONATA RECORDING SCHEME	NO	YES	NATIONAL WILDFOWL COUNTS, BIRDS SINCE 1961.
43	28	21	5	35	1 5 6		NO		YES	DON'T KNOW	
44	29	28	5	36	6 7 9	ASSESSMENT OF TRAPPING PROCEDURE.	NO	RESULTS BEING WRITTEN UP	NO	DON'T KNOW	
45	30	21	5	37	1 2 3 4 5		YES	DR M. YOUNG, ZOOL. DEPT. UNIV. ABERDEEN. SNH AS RESERVE MANAGERS (PREVIOUSLY NCC THEN NCCS).	NO	YES	BMS; BEECHED, BREEDING & LEAD POISONED BIRD SURVEYS; WEATHER RECORDING.
46	31	15 16	5	38	2 3 6 7	BRC-ORS	YES	SURREY WLT, SURREY COUNTY COUNCIL ENGLISH NATURE(LEWES), BRC-ORS	NO	NO	AD HOC SURVEYS

					9						
47	31	15	5	39	2	BRC-ORS	YES	ENGLISH NATURE, BRC-ORS	NO	YES	EN MON FOR OTHER GROUPS
		16			3						
					6						
					7						
					8						
					9						
48	32	45	2	40	2		NO		NO	NO	
			5								
49	33	44	2	41	1		YES	EN	NO	YES	VEGETATION
			4		2						
			5		3						
					4						
					5						
					6						
50	34	46	5	42	3		NO		NO	YES	BIRDS, VEGETATION, INVERTEBRATES
					8						
51	35	47	3	43	3	PEST MONITORING	YES	FOREST MANAGERS	NO	DON'T KNOW	
					9						
52	35	48	3	44	3	PEST MONITORING	YES	FOREST MANAGERS	NO	DON'T KNOW	
					9						
53	36	2	5	45	1		YES	'DORSET HOVERFLIES' IN PRINT	NO	YES	SOMERSET INVERTEBRATES GROUP
					2						
					3						
					4						
					5						
					6						
					7						
					8						
54	37	21	5	46	6		YES	DERBYSHIRE ENTOMOLOGICAL SOCIETY JOURNAL.	NO	NO	
					8						

55	37	15 16	5	47	6 8		YES	DERBYSHIRE ENTOMOLOGICAL SOCIETY JOURNAL.	YES	NO	
56	37	16 15	5	48	6 8		YES	DERBYSHIRE ENTOMOLOGICAL SOCIETY JOURNAL.	YES	YES	BIRDS (DERBYSHIRE COLLEGE OF AGRIC. 0332 831345).
57	38	21	5	49	1 EDUCATION 2 3 4 5 6 8 9		YES	1. NOTTS CITY COUNCIL(MANAGEMENT PL PLAN). 2. EN (ESP. PAUL WARING - RARER BRITISH MACROMOTH REVIEW). 3. DERBYSHIRE ENTOM. SOCIETY. 4. GENERAL PUBLIC. 5. ADRIAN RILEY (PUGS AND BARRED RE	NO	YES	BIRDS, VEGETATION
58	39	28	5	50	6		NO		NO	NO	
59	40	15 16	5	51	1 3 5 9	1. 1 RDB SP - A. ISOCETES. 9. HOPE TO USE INFO TO INDICATE CHANGES IN WATER QUALITY/AQUATIC COMMUNITIES WITHIN THE RESERVE.	NO	WILL BE OF USE TO SITE MANAGER (R. SOUTHWOOD)	NO	YES	VEGETATION (FEN & AQUATIC).
60	40	16 15	5	52	1 3 5 9	1. 1 RDB SP. - A. ISOCETES 2. HOPED TO USE INFO TO INDICATE WATER QUALITY CHANGES.	NO	WILL BE OF USE TO SITE MANAGER (R. SOUTHWOOD).	NO	YES	BREEDING WADERS,AQUATIC VEGETATION, WATER QUALITY (PH, CONDUCTIVITY).
61	40	16 15	5	53	1 3 5 9	UNCOMMON SPP. PRESENT (A. JUNCEA), ODONATA ACTING AS PREDATORS OF NATTERJACK TOAD TADPOLES - BUT CONTROLS NOT ENVISAGED OTHER THAN RESITING OF POOLS.	YES	SITE MANAGER - MANAGING POOLS FOR NATTERJACK TOADS/OTHER FW SPP.	NO	YES	BREEDING BIRDS (LITTTLE TERN, NIGHTJAR, STONECHAT ETC), NATTERJACK TOADS.
62	41	28	5	54	2 3		NO		NO	YES	BIRDS, OTHERS

63	42	28		5	55	2 3 4 5	YES		NO YES	ALL LIFE FORMS
64	43	16 15		4 5	56	1 2 3	YES	RESERVE MANAGER	NO YES	FIXED POINT PHOTOGRAPHY, BREEDING BIRDS SPOT COUNTS.
65	44	28 49 50 41		5	57	2 3 5	YES	SITE MANAGER, CHIEF SITE MANAGER	NO DON'T KNOW	
66	45	28 42 39 49 41 4		5	58	2	NO		NO YES	VEGETATION, BIRDS
67	46	51		2 5	59	1 2 3 4 5	YES	INCLUDED IN EN SPECIES RECOVERY PROGRAMME.	NO YES	VEGETATION AND GENERAL HABITAT
68	47	52		1 2 3 5	60	1 2 3	YES	SITE MANAGERS, LEPIDOPTERISTS	YES YES	SWARD HEIGHT CHANGES/DENSITY OF LARVAL FOOD PLANT IN RELATION TO MANAGEMENT.
69	48	53		2 5	61	2	NO		NO NO	
70	49	54		5 6	62	2 3 5	NO		NO YES	VEGETATION (QUADRATS), WATER-TABLE (DIPWELLS).

71	50	27	5	63	2		NO		NO	NO		
72	51	16 15 2 23	5	64	2	GROUP INFO: SHORT & LONG TERM CLIMATIC TRENDS. POPULATION FLUCTUATIONS & PERIODICITY. MOBILITY & MIGRATION. ASSESSMENT OF NATURE OF RESIDENT GARDEN FAUNA. INTERPRETATION OF RESULTS FROM CASUAL VISTS TO CONSERVATION SITES. DEVELOPMENT OF MONITORING METHODOLOGIES FOR HOVERFLIES AND OTHER FLIES.	NO		NO	NO		
73	52	21 31	2	65	2 3	POSSIBLE IMPLICATIONS FOR MANAGEMENT.	NO		NO	NO		
74	53	28	2 5	66	2 3 4 5 7 8		NO		NO	YES	VEGETATION, LEPIDOPTERA	
75	54	16 15	5	67	2 3		NO		NO	YES	VEGETATION, WATER TABLE	
76	54	15 16	5	68	2 3		NO		NO	YES	BIRDS, WATER TABLE	
77	53	21 31 28 4	2 5	69	2 3 5 7		YES		NO	YES	VEGETATION (PROGRESS OF MEADOW RESEEDING), BIRDS (MIST NETTING).	
78	55	21 31	5	77	5 6 7		YES	LOCAL AND NATIONAL RECORDERS	NO	YES	BIRDS	

79	56	55	2 3 5	71	1 2 3	YES	NT SITE SURVEY AND MANAGEMENT PLAN	NO	YES	VEGETATION
80	57	46	2 5	72	1 2 6 7	YES	CONSULTATION BY HOVE COUNCIL OVER LIGHTING OF KNOWN GLOW WORM SITES	NO	NO	
81	58	57 27 4 56	5	73	1 2 3	YES	CCW	NO	YES	VEGETATION, HYDROLOGY
82	58	58	2	73	1 3	YES	CCW	NO	YES	VEGETATION, HYDROLOGY
83	58	1	5	74	2 3	NO		NO	NO	
84	59	1		75	2 3 4 5 8	YES	MOD MANAGEMENT	NO	YES	VEGETATION, ALL FAUNA
85	60	59	4 5	70	1 2 3	YES	DECISION ON WATER LEVEL IN WALDEGRAVE POOL BY SOMERSET TRUST FOR NATURE CONSERVATION	NO	YES	VEGETATION
86	60	60	4 5	76	1 2	NO		NO	NO	
87	61	61	5	78	1	NO		NO	YES	BBONT
88	62	16 62 15	2 4 5	79	2	NO		NO	NO	

89	63	63 64	2 5	80	2 6	AUTECOLOGY: ONLY KNOWN SITE IN BRITAIN WHERE THESE TWO CLOSELY RELATED SPECIES OCCUR TOGETHER.	YES	ITE SUBPROJECT SET UP 1989. PAPER IN HUNTS FLORA & FAUNA REPORT.	NO	YES	LICHENS & BRYOPHYTES (% COVER OF EACH SP. ALONG WALL). TEMP. AND EVAPOTRANSPIRATION EACH VISIT.
90	63	66 65	1 2 5 7	81	2		NO		NO	YES	VEGETATION QUADRATS, LEAF-LITTER DEPTH AND COMPOSITION.
91	63	67	5	82 83	1 2 3 4 5		YES	EN SITE DEFENCE. RDB UPDATE.	NO	YES	VEGETATION (COMPOSITION,STRUCTURE), HYDROLOGY (MONIT. BY NNR WARDEN), COMMON BIRD CENSUS.
92	63	68	2 5	84	2	AUTECOLOGY: NOTHING PUBLISHED ON OUT-DOOR POPULATIONS OF THIS USUALLY DOMESTIC INSECT.	NO		NO	YES	SLUGS SEE REC. 89
93	63	69	2 3 5	83 82	1 2 3 4		YES	SITE DEFENCE. JNCC QUINQUENNIAL REVIEW OF WILDLIFE AND COUNTRYSIDE ACT.	NO	YES	VEGETATION (COMPOSITION, STRUCTURE)
94	63	70	2 5	85	2		NO		NO	YES	VEGETATION (SPECIES COMPOSITION, STRUCTURE).
95	64	15 16	5	86	3		YES	EN AND LEA VALLEY PARKS AUTHORITY	NO	YES	INVERTEBRATES, VEGETATION, BIRDS.
96	65	71	2	87	1 3 4		YES	NT - SITE MANAGEMENT	NO	YES	VEGETATION
97	65	28 4 72	2 5	88	1 3 4		YES	REACTIONS OF INVERTS. TO CHANGED GRAZING PRESSURE.	NO	YES	VEGETATION, BIRDS.

98	66	15	5	89	1		YES	IN MAKING COMPARISONS WITH ANOTHER LONG-TERM STUDY (REF.38, 39). REFINING BR. DRAGONFLY SOC. MONIT. GUIDLINES.	NO	YES	VEGETATION, BUTTERFLIES, BIRDS, MAM
		16	7		2						
					6						
99	67	54	2	91	1		YES	ONCE BY NCC.	NO	YES	ALL FLORA AND FAUNA.
		56	5		4						
		4			5						
		46			6						
100	68	46	5	92	2		YES	DR. KEITH ANDREWS.	NO	YES	NIGHTJAR.
					8						
101	68	46	5	93	2		YES	DR. KEITH ANDREWS.	NO	YES	NIGHTJAR.
					8						
102	69	31	5	94	1		YES	RESERVE WARDEN - CREATION OF NEW HABITATS FOR ODONATA.		YES	WILDFOWL COUNTS, WILDFOWL BREEDING CENSUSES.
		21			3						
		15									
		16									
103	70	75	2	95	1	OTHER: BASELINE SURVEY.	NO	SP. RECORDS NOT AVAILABLE YET.	NO	YES	VEGETATION OF SAMPLING AREAS.
			5		2						
					3						
					5						
					9						
104	71	76	4	96	2		NO		YES	YES	CBC IN ANEUOS WOOD, VEGETATION (TRANSECT AND QUADRATS).
		15	5		3						
		16			5						
					8						
105	72	78	5	97	3		NO		NO	YES	VEGETATION (DETAILED SURVEY).
		4									
		77									
		28									
		57									

106	73	41		5	98	4 5		NO		NO	YES	VEGETATION, BIRDS, INSECTS.
107	73	41		5	75	3 5		NO		NO	YES	VEGETATION, BIRDS.
108	73	41		5	99	5		NO		NO	DON'T KNOW	
109	74	28 42 21 41 79 15 16 49		2 3 4 5 6	100	1 2 5 6	GARDEN SURVEY	YES	FAUNAL LISTS PROVIDED BASED UPON OVER 20 YEARS MONITORING HELPED SECURE COPPETS WOOD AS AN LNR.	NO	YES	BIRDS, VEGETATION, HISTORIC ASSESSMENT.
110	75	80 81 82		2 3	101	2 8		YES	ELUCIDATION OF INSECT POP. DYNAMICS AND SPP. INTERACTIONS.	NO	DON'T KNOW	
111	76	15 16		4 5	102	1 2 3 4 5		YES		NO	YES	VEGETATION (AQUATIC - DECLINE DUE TO 'RESTORATION' AND INCREASED RECREATION).
112	77	83		5 7	103	2				NO	DON'T KNOW	
113	78	27 46 84 85 86		2 3 5	104	1 2 3 4 5 7		YES	SITE MANAGEMENT	NO	YES	BIRDS, VEGETATION.
114	79	87		4	105	1 2		YES	EMERGENCE ATTITUDES ALREADY CONFIRMED.	NO	YES	WATER QUALITY BY NRA.

					5							
					7							
115	80	42	5	107	2		NO	WILL BE FOR EDUCATION	NO	YES	BIRDS, VEGETATION, DRAGONFLIES.	
		28			3							
					5							
116	81	88	2	108	2	EDUCATION (STUDENT FIELDWORK	YES	EDUCATIONAL WITH 'A' LEVEL STUDENTS	NO	DON'T KNOW		
			5	109	4	EXERCISES).						
				110	7							
					9							
117	2	4	5	111	1		YES	MANAGEMENT POLICY DATA.	NO	YES	ALL LIFE-FORMS.	
					2							
					3							
					4							
118	2	4	5	112	2		NO	INTERESTING COMPARISON WITH 19TH CENTURY SPP. LISTS.	NO	DON'T KNOW		
					4							
119	2	4	5	113	1		YES	MANAGEMENT PLAN BY YORKS. WILDLIFE TRUST.	NO	YES	ALL LIFE-FORMS.	
					2							
					3							
					4							
					5							
120	2	4	5	114	3		YES	MANAGEMENT COMMITTEE OF ASKHAM BOG NR.	NO	YES	ALL RELEVANT LIFE-FORMS.	
					4							
					5							
121	82	28	5	115	2	COPPICING RECENTLY RE-	NO		NO	YES	BY EN RESERVE WARDEN.	
		21			3	INTRODUCED, CASUAL OBSERVATION						
		72			5	ON THE EFFECT ON INVERTEBRATES						
		15			6							
		39										
		16										
		31										
122	83	74	2	90	2		YES	COMPILATION OF COUNTY AND NATIONAL	NO	NO		

		39	5	5			ATLASES.			
		73		6						
123	84	75	5	116	6		NO		NO	YES	VEGETATION
124	8	56	6	118	1	RESEARCH	YES	NEW FOREST KEEPERS.	NO	YES	LEPIDOPTERA, VEGETATION, OTHER INSECTS - NEW FOREST RECORDERS GROUP.
				119	2						
					3						
					4						
					5						
125	85	46	5	120	1		YES	MANAGEMENT: CONSIDERATION OF CHANGING GRAZING ROUTINE ON NNR.	NO	YES	BUTTERFLIES, GROUND INVERTEBRATES.
					3						
					4						
					6						
126	86	21	5	121	1		NO		NO	YES	VEGETATION, BUTTERFLIES(BBCS FORMS) BIRDS, MAMMALS, HERPTILES.
		75			2						
		16			4						
127	87	32	5	122	2		YES	FORESTRY COMMISION - GENERAL INFO. WILDLIFE OF MELTON WOOD BY D. CARROL - PUBLISHED 1987.	NO	NO	
					5						
					6						
					8						

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SIT	HABITATS	CODE	HABITAT COMMENT
1	1	2	2	1		17	
		3	5			19	
						25	
						27	
2	2	4	5	2		12	
						14	
						15	
						20	
						23	
						29	
						32	
						33	
						38	
						43	
3	3	5	2	3		5	
		6	5			2727	
		7				42	
		9					
		10					
		11					
		12					
		13					
		14					
		15					
		16					
		8					
4	4	17	5	4		13	
		18				16	
						19	
						25	
						26	
						34	
						35	
						37	
						39	
						41	
						43	
5	5	15	4	5		5	
		16	5			25	
						43	
6	5	16	4	6		5	
		15	5			25	
						42	
7	6	4	5	7		1	
						2	
						3	
						4	
						5	
						6	
						8	

					11	
					12	
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					35	
					36	
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					38	
					39	
					41	
					42	
					43	
8	6	4	5	8	5	
					12	
					13	
					17	
					19	
					33	
					43	
9	7	19	5	9		
		20				
10	7	20	6	10		
11	8	16	5	117	7	CODES SELECTED FROM A COMPOUNDED FORM.
		15			25	
		39			42	
12	9	21	5	11	18	
					23	
					25	
					32	
					35	
					37	
					43	
13	10	22	1	12	25	
			4		43	
			5			
14	11	2	5	13	7	OTHER GRASSLAND: ROTATIONAL MOWING
		24			10	
		23			19	
					21	
					24	
					25	
					33	
					36	
					43	
15	11	2	5	14	19	GRASSLAND OTHER: PARTLY HAYFIELDS
					21	
					22	

					24
					25
					36
					37
					42
16	11	23	5	14	19 GRASSLAND OTHER: PARTLY HAYFIELDS
		2			21
		24			22
		3			24
					25
					36
					37
					42
17	11	2	5	15	18 GRASSLAND OTHER: MOWN AUTUMN/WINTER
		23			21
					24
					25
					33
					35
					36
					43
18	12	25	4	16	12
					43
19	13	26	2	17	6
			5		7
					10
					17
					18
					19
					23
					43
20	14	2	5	18	1
		15	4		2
		16	2		3
					4
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				39
				41
				42
				43
21	15	27	5 19	17
		28		18
				21
				23
				24
				27
				36
				43
22	15	31	5 19	17 GRASSLAND OTHER: SILAGE
		21		18
				21
				23
				24
				27
				36
				43
23	15	29	2 19	17
				18
				21
				23
				24
				27
				36
				43
24	15	30	2 19	17 GRASSLAND OTHER: SILAGE
			5	18
				21
				23
				24
				27
				36
				43
25	15	27	5 20	11
		32		12
				28
				43
26	16	33	5 21	19 ON CLIFF TOP FALLING INTO SEA
				43

27	16	34	2	22	26
			5		43
28	16	35	1	22	26
			5		43
29	16	36	1	23	37
					38
					43
30	16	37	5	22	26
					43
31	17	1	2	24	18
			3		19
			5		22
					24
					43
32	18	21	5	25	6
		31			10
					18
					23
					27
					30
					32
					35
					38
					43
33	19	38	1	26	35 OTHER: CIVIC AMENITIES
			2		40
			3		41
			5		42
34	20	27	5	27	3
					11
					14
					15
					20
					21
					25
					33
					43
35	21	15	5	28	5
		16			12
					14
					15
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					29
					32
					33
					43
36	21	21	5	28	5
					12
					14
					15

					25	
					29	
					32	
					33	
					43	
37	22	21	2	29	5	
		25	4		11	
		16	5		14	
		39			15	
					43	
38	23	40	1	30	5	
			2		6	
			3		7	
			4		10	
			5		23	
					27	
					43	
39	24	21	5	31	19	GRASSLAND OTHER: MOWN AT DIFFERENT TIMES TO CREATE DIFFERENT SWARD TYP
					21	
					24	
					25	
					27	
					29	
					32	
					33	
					35	
					40	
					43	
40	25	28	5	32	25	WOODLAND MAINLY SECONDARY
		42			33	
		41			34	
					41	
41	26	4	5	33	2	SHINGLE: FINE; SAND & TINY PIECES OF SEA-SHELL
		43			4	
					43	
42	27	15	4	34	5	
		16	5		6	
		44	7		8	
					10	
					17	
					21	
					23	
					33	
					37	
					39	
					43	
43	28	21	5	35	20	
					27	
					35	
					37	
					38	
					42	

44	29	28	5	36	25	
					43	
45	30	21	5	37	1	13 MOORLAND: COASTAL NOT MOUNTAIN
					3	
					4	
					5	
					6	
					10	
					13	
					14	
					15	
					19	
					20	
					43	
46	31	15	5	38	5	
		16			6	
					10	
					11	
					15	
					18	
					19	
					21	
					23	
					28	
					43	
47	31	15	5	39	5	
		16			6	
					12	
					14	
					15	
					20	
					43	
48	32	45	2	40	16	
			5		43	
49	33	44	2	41	6	
			4		10	
			5		43	
50	34	46	5	42	10	
					18	
					25	
					39	
					43	
51	35	47	3	43	29	SUSCEPTIBLE PINE PLANTATIONS
					30	
					43	
52	35	48	3	44	29	SUSCEPTIBLE PINE PLANTATIONS
					30	
					43	
53	36	2	5	45	1	'ALL' QUOTED ON FORM!
					2	
					3	

					4	
					5	
					6	
					7	
					8	
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					10	
					11	
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					35	
					36	
					37	
					38	
					39	
					40	
					41	
					42	
					43	
54	37	21	5	46	35	
					41	
55	37	15	5	47	40	OTHER: DISUSED RAILWAY LINE
		16			41	
56	37	16	5	48	40	OTHER: DISUSED RAILWAY LINE
		15			41	
57	38	21	5	49	5	
					6	
					10	
					11	
					17	
					18	
					20	
					21	
					23	
					27	

					28
					32
					33
					36
					42
58	39	28	5	50	9
					12
					13
					14
					20
					23
					25
					28
					29
					43
59	40	15	5	51	5
		16			7
					11
					28
					33
					43
60	40	16	5	52	7
		15			11
					18
					19
					21
					23
					28
					43
61	40	16	5	53	3
		15			5
					14
					15
					33
					43
62	41	28	5	54	5
					6
					10
					11
					15
					19
					20
					23
					25
					27
					28
					29
					32
					33
					43
63	42	28	5	55	6
					10
					12
					19

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                                    20
                                    23
                                    25
                                    33
                                    43

64  43  16      4  56               5
        15      5                    6
                                    12
                                    14
                                    15
                                    43

65  44  28      5  57               25
        49                          43
        50
        41

66  45  28      5  58                3 SAND DUNE: LONG STABILISED
        42                          42
        39
        49
        41
         4

67  46  51      2  59               18 GRAZED: RABBIT
                5                   19
                                    20
                                    23
                                    43

68  47  52      1  60               18
                2                   19
                3                   21
                5                   22
                                    23
                                    43

69  48  53      2  61                6
                5                   43

70  49  54      5  62               12
                6                   14
                                    43

71  50  27      5  63               16 RURAL: SEMI-RURAL?
                                    19
                                    43

72  51  16      5  64               35
        15                          42
         2
        23

73  52  21      2  65               13
        31                          43

74  53  28      2  66                3 GRASSLAND OTHER:REAR DUNE; OTHER:LICHEN HEATH(USNEA ARTICULATA,CLADONIA SP.,HYP
                5                   15
                                    19
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					21
					24
					40
					43
75	54	16	5	67	12
		15			43
76	54	15	5	68	12
		16			43
77	53	21	2	69	5
		31	5		6
		28			10
		4			11
					12
					14
					15
					19
					20
					28
					33
					37
					43
78	55	21	5	77	18
		31			20
					25
					29
					32
					33
					43
79	56	55	2	71	2
			3		43
			5		
80	57	46	2	72	5 OTHER: DISUSED RAILWAY LINE
			5		10
					40
					43
81	58	57	5	73	12
		27			43
		4			
		56			
82	58	58	2	73	12
					43
83	58	1	5	74	25
					26
					43
84	59	1		75	4
					5
					10
					19
					21
					25

					26
					33
					37
					39
					43
85	60	59	4	70	5
			5		43
86	60	60	4	76	5
			5		43
87	61	61	5	78	22
					33
					43
88	62	16	2	79	40 OTHER: SPRING LINE SEEPAGE
		62	4		42
		15	5		
89	63	63	2	80	36
		64	5		42
90	63	66	1	81	25
		65	2		42
			5		
			7		
91	63	67	5	82	12
				83	14
					43
92	63	68	2	84	36
			5		42
93	63	69	2	83	12
			3	82	14
			5		43
94	63	70	2	85	35
			5		42
95	64	15	5	86	6
		16			42
96	65	71	2	87	6
					10
					25
					26
					27
					28
					43
97	65	28	2	88	12
		4	5		13
		72			20
					23
					43
98	66	15	5	89	5 GRASSLAND UNIMPROVED: ORIGINALLY

		16	7		10
					19
					21
					30
					35
					37
					43
99	67	54	2	91	12
		56	5		14
		4			15
		46			20
					29
					32
					35
					37
					43
100	68	46	5	92	19
					22
					43
101	68	46	5	93	19
					22
					33
					43
102	69	31	5	94	5
		21			10
		15			11
		16			18
					19
					23
					28
					33
					43
103	70	75	2	95	12
			5		14
					43
104	71	76	4	96	12
		15	5		13
		16			14
					19
					20
					23
					25
					32
					43
105	72	78	5	97	25
		4			43
		77			
		28			
		57			
106	73	41	5	98	32
					37
					43

107	73	41	5	75	43
					4
					5
					19
					26
					37
					36
108	73	41	5	99	17
					22
					23
					25
					36
					37
					43
109	74	28	2	100	10
		42	3		25
		21	4		33
		41	5		35
		79	6		42
		15			
		16			
		49			
110	75	80	2	101	29 CONIFEROUS: NATURAL YEW (3 TREE COMPRISE THE HABITAT!)
		81	3		43
		82			
111	76	15	4	102	7
		16	5		43
112	77	83	5	103	27
			7		43
113	78	27	2	104	8 GRASSLAND OTHER: WARREN.
		46	3		16
		84	5		17
		85			18
		86			19
					21
					22
					23
					24
					25
					26
					27
					29
					30
					32
					33
					37
					38
					43
114	79	87	4	105	10
					43
115	80	42	5	107	5 OPEN STANDING WATER: DYKES

		28			10
					19
					21
					23
					42
116	81	88	2	108	6
			5	109	41
				110	43
117	2	4	5	111	25
					29
					30
					32
					43
118	2	4	5	112	10
					14
					32
					33
					43
119	2	4	5	113	5
					10
					12
					14
					15
					19
					23
					28
					30
					33
					43
120	2	4	5	114	10
					11
					12
					19
					25
					28
					43
121	82	28	5	115	4
		21			10
		72			22
		15			25
		39			26
		16			42
		31			
122	83	74	2	90	8
		39	5		10
		73			15
					16
					17
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					23
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					34
					35
					37
					38
					39
					41
					42
					43
123	84	75	5	116	27 PARKLAND: ABUTS GARDEN.
					35
					37
					38
					39
					43
124	8	56	6	118	1 CLIFF: UNDERCLIFFE.
				119	12
					14
					15
					19
					22
					23
					25
					43
125	85	46	5	120	18
					19
					22
					43
126	86	21	5	121	19
		75			22
		16			43
127	87	32	5	122	25
					29
					30
					32
					36
					37
					43

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SIT	METHODS	METHOD COMMENTS
1	1	2	2	1	1	
		3	5		4	ADULTS/LARVAE?
					8	LARVAE?
					15	(ADULTS) MAIN TECHNIQUE
2	2	4	5	2	1	
					3	
					6	
					7	BIRCH
					8	
					9	
					10	PRESERVATIVE DIL. ETHYLENE GLYCOL
3	3	5	2	3	1	
		6	5		6	
		7			9	
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		8				
4	4	17	5	4	1	
		18			4	
5	5	15	4	5	3	
		16	5		4	
6	5	16	4	6	2	
		15	5		3	
7	6	4	5	7	1	
					4	
					6	2ND MOST IMPORTANT TECHNIQUE
					7	3RD MOST IMPORTANT TECHNIQUE
					8	MOST IMPORTANT TECHNIQUE
					9	
8	6	4	5	8	1	
					4	
					6	
					8	MOST USED TECHNIQUE
9	7	19	5	9	15	
		20				
10	7	20	6	10	1	
11	8	16	5	117	1	
		15			2	
		39				

12	9	21	5	11	16 ROBINSON MV TRAP
13	10	22	1	12	5 4CM SQUARE
			4		
			5		
14	11	2	5	13	1
		24			4
		23			6
15	11	2	5	14	1
					4
					6
16	11	23	5	14	1
		2			4
		24			6 PROB MOST USEFUL METHOD FOR THESE GROUPS
		3			
17	11	2	5	15	1
		23			3
18	12	25	4	16	1 EXUVIA COLLECTED WEEKLY BY HAND/BOAT FROM ALL OPEN WATER BODIES ON RESERVE
19	13	26	2	17	1
			5		2
					19 NETS TO SEARCH FOR LARVAE
					20 CATCHING ALL MATING PAIRS TO CONFIRM FEMALE VARIETY
20	14	2	5	18	1
		15	4		4
		16	2		6
					7
					8 LARVAE
					9 LARVAE
					15 STANDARD DESIGN, GREY CENTRE, WHITE ROOF
					19 FOR GROUPS OTHER THAN SYRPHIDAE
21	15	27	5	19	10 PRESERVATIVE: ETHYLENE GLYCOL
		28			
22	15	31	5	19	16 ROTHAMSTED PATTERN, MOTHS ONLY
		21			
23	15	29	2	19	3 SOIL CORES FOR LARVAE
24	15	30	2	19	4 COUNTING SPITTLES FOR LARVAE
			5		5 COUNTING SPITTLES FOR LARVAE
					6 ADULTS
25	15	27	5	20	3
		32			5
					8
					9
26	16	33	5	21	1
					2
27	16	34	2	22	7
			5		

28	16	35	1	22	7 ADULTS
			5		8 EGGS
29	16	36	1	23	2
30	16	37	5	22	7 5-10 BEATS PER HOST PLANT
					8 100 LEAVES BY 3 REPLICATES
31	17	1	2	24	6
			3		10 PRESERVATIVE
			5		12
32	18	21	5	25	16
		31			
33	19	38	1	26	1
			2		2
			3		3
			5		
34	20	27	5	27	10 PRESERVATIVE
35	21	15	5	28	1
		16			3
36	21	21	5	28	16
37	22	21	2	29	1
		25	4		3
		16	5		4
		39			6
					9
					10
					12
					14 WHITE & YELLOW, ROUND WASHING-UP BOWLS
					15
					16
38	23	40	1	30	1
			2		4
			3		19 POND NET
			4		
			5		
39	24	21	5	31	1
					16 ROBINSON
40	25	28	5	32	1
		42			4
		41			6
					7
					8
					9
					16 #CURIOUS!?#
41	26	4	5	33	8
		43			9
					10 PRESERVATIVE: 20% ETHYL ALCOHOL IN SMALL YOGHURT CONTAINERS COVERED WITH TIDAL DETRIT

42	27	15	4	34	1
		16	5		3
		44	7		4
					8
43	28	21	5	35	16
44	29	28	5	36	18
45	30	21	5	37	1 DAY FLYING SPP
					2 LIGHT TRAP
					4 DIRECT OBSERVATION AND LARVAL SEARCH
					16 ROBINSON MV AND OCCASIONALLY HEATH
46	31	15	5	38	1
		16			4
47	31	15	5	39	3
		16			
48	32	45	2	40	5
			5		12
					13
					14 WHITE, 1 METER SQUARE
49	33	44	2	41	1
			4		2
			5		3
					9
					19 NETTING LARVAE
50	34	46	5	42	3
51	35	47	3	43	3
					8 PUPAL COUNTS IN PINE LITTER, 10 TIMES 25CM SQUARE PLOTS/TRANSECT
52	35	48	3	44	3
					8 PUPAL COUNTS IN PINE LITTER, 10 TIMES 25 CM SQUARE PLOTS/TRANSECT
53	36	2	5	45	1
					4
					6
					15 LIMITED USE
54	37	21	5	46	16 M.V.
55	37	15	5	47	3 BMS
		16			
56	37	16	5	48	3 BMS
		15			
57	38	21	5	49	16 ROBINSON M.V.
58	39	28	5	50	6
					7
					9
59	40	15	5	51	1 ESTIMATES OF NUMBERS MADE OVER SEVERAL DAYS MID-MONTH
		16			4 RECORDED ON BRC CARDS, USING THEIR CATEGORIES OF ABUNDANCE.

60	40	16	5	52	1 ESTIMATES OF NO.S MADE OVER SEVERAL DAYS EACH MONTH.
		15			4 ALL DYKES COVERED. RECORDS ON BRC CARDS
61	40	16	5	53	1
		15			2 WEEKLY TOTAL COUNTS AT EACH OF 12 POOLS
62	41	28	5	54	1
					4
					6
					7
					8
					9
					10
					11
					17
					18
63	42	28	5	55	1
					4
					6
					7
					8
					9
					10 PRESERVATIVE
					16
					19 WATER NET
					20 GRASS TRAPS
64	43	16	4	56	3 COUNT BASIS OF 1,2-5,6-10,11-20,21-100.NOTED ADULT,COP-PAIR,OVIPOSITING FEMALE. 45MIN
		15	5		4 FOR EXUVIUM COUNTS - LEUCORRHINIA DUBIA
65	44	28	5	57	6
		49			10 PRESERVATIVE
		50			14 WHITE
		41			15 MAIN METHOD
					18 AS PART OF MALAISE
66	45	28	5	58	10 PRESERVATIVE: ETHYLENE GLYCOL, WATER, DETERGENT
		42			
		39			
		49			
		41			
		4			
67	46	51	2	59	1
			5		3 FIXED ROUTE, SINGING MALE & BURROWS
					5 VEGETATION & GRAZING, MICRO-DISTRIBUTION
					8
68	47	52	1	60	1
			2		2 SEMI-FIXED ALL SITE COVER AT DUSK, COUNTING ADULTS ON AND OFF TRANSECT
			3		3 DAYTIME RECORDS OF ADULTS ON BMS DAYS
			5		6 LARVAL PRESENCE/ABSENCE - EQUAL NO. OF SWEEPS/SET DISTANCE
					8 LATE INSTAR LARVAE AND PUPAE
69	48	53	2	61	19 VARIOUS
			5		
70	49	54	5	62	20 INTRODUCING TIP OF CANE INTO POSSIBLE SITES

71	50	27	5	63	10 NO PRESERVATIVE, 2M LONG PLASTIC SQUARE SECTION GUTTER TRAYS
72	51	16	5	64	4 A 'FLEXIBLE' TRANSECT
		15			
		2			
		23			
73	52	21	2	65	1 APPLIED TO SEVERAL LAYER SPECIES
		31			6 MAIN MON. TECHNIQUE.
74	53	28	2	66	1
			5		4
					6
					10 PRESERVATIVE
75	54	16	5	67	1 COUNT OF ALL INSECTS SEEN USING BMS METHODS
		15			3 TRANSECT AROUND 20 LAGOONS DUG AS FIREBREAKS BETWEEN 1978-83. AS THEY MATURE DIFF. PO
76	54	15	5	68	1 COUNT ALL INSECTS USING BMS METHODS
		16			3 SEE REC. 75
77	53	21	2	69	1
		31	5		4
		28			10 PRESERVATIVE
		4			16
					19 NETTING ETC
78	55	21	5	77	1
		31			16 SEVERAL
79	56	55	2	71	1 OBSERVATION OF BEHAVIOUR
			3		2 TOTAL SEARCH OF AREA FOR ADULTS
			5		5 SEARCH BY QUADRATS FOR ADULTS & LARVAE
					16 OCCASIONAL USE: HEATH & MV LAMP
80	57	46	2	72	1
			5		2
					3 STANDARD ROUTE WALKED
81	58	57	5	73	10 PRESERVATIVE
		27			
		4			
		56			
82	58	58	2	73	1
					3
83	58	1	5	74	10 PRESERVATIVE
84	59	1		75	1
					4
					6
					7
					8
					16
					20 REMOVAL OF STRIP LIGHTING COVERS IN BARRACKS, MONTHLY, PRODUCES SCORES OF MOTHS.

85	60	59	4	70	1	
			5		4	
86	60	60	4	76	1	
			5		3	
87	61	61	5	78	4	
					1	
88	62	16	2	79	1	
		62	4		2	
		15	5			
89	63	63	2	80	2	
		64	5			
90	63	66	1	81	1	
		65	2		3	MOSTLY: NOCTURNAL TRANSECT WITH FIXED SECTIONS FOR COUNTS OF INDIVIDUALS.
			5		5	PARTLY: SEARCHED 1M QUADRATS, COUNTED & MEASURED ALL OF BOTH SPP.
			7		8	
91	63	67	5	82	1	
				83	5	SEE 'OTHER.TECH.COMMENTS'
					9	
					10	PRESERVATIVE: 20% ETHYLENE GLYCOL.
92	63	68	2	84	2	
			5			
93	63	69	2	83	1	(TRANSECTS) DIRECT SEARCH OF SUITABLE VEGETATION. PRE-1992, RECORDED NO.S FOUND IN 1M
			3	82	5	(SEE METHOD 1) AT EACH OF UPTO 20 SUBSITES. ABOUT 6 SUBSITES REVISITED SEVERAL TIMES.
			5		7	
					8	DURING 1990, INTENSIVE SAMPLING TURNED UP V. SMALL NO.S OF C. NIGRITA.
					9	
					10	PRESERVATIVE: 20% ETHYLENE GLYCOL.
					11	IN 1992,V. FEW ADULTS FINDABLE IN FIELD SO 10 CM BY 10 CM TURFS DUG UP; LAMP-HEAT= LA
94	63	70	2	85	1	
			5		5	NOCTURNAL SEARCH FOR ACTIVE ANIMALS OF WHOLE GARDEN; ASSESS DENSITY IN 1M SQ. QUADRAT
					8	DAYTIME SEARCH UNDER STONES IN VEGETATION, COMPOST ETC.
					9	
					10	PRESERVATIVE: 20% ETHYLENE GLYCOL, 5% BORAX.
					20	DIGGING FOR SUB-TERRANEAN SPP.
95	64	15	5	86	1	
		16			2	
96	65	71	2	87	1	
					2	
					4	
					8	
97	65	28	2	88	10	PRESERVATIVE. FOUR LINES OF TEN TRAPS, EACH LINE IN DIFFERENT VEGETATION TYPE.
		4	5			
		72				
98	66	15	5	89	2	PART OF AREA.
		16	7		3	ROUTINE WALK WITHIN 1 HOUR OF NOON ON FINE DAYS.

99	67	54	2	91	1
		56	5		6
		4			7
		46			8
100	68	46	5	92	1
					4
101	68	46	5	93	1
					4
102	69	31	5	94	1
		21			4
		15			6
		16			16
103	70	75	2	95	6 STANDARDISED: 50 SWEEPS IN SAMPLE AREA.
			5		10 PRESERVATIVE: ETHYLENE GLYCOL, NEAT, 2CM. 20ML POLYPROPYLENE CATERING CUPS.
					14 WHITE, 15 BY 25CM (W BY L), 6CM DEEP.
104	71	76	4	96	1
		15	5		3
		16			4
105	72	78	5	97	10 PRESERVATIVE: 4% FORMALIN, 5ML, AND DETERGENT.
		4			
		77			
		28			
		57			
106	73	41	5	98	1
					4
					6
					7
					8
107	73	41	5	75	1
					3
					4
					6
					7
					8
108	73	41	5	99	1
					4
					6
					7
					8
109	74	28	2	100	1
		42	3		4
		21	4		6
		41	5		7
		79	6		8
		15			10
		16			16 OPEN HOUSE WINDOWS WITH LIGHTS ON!
		49			19 OCCASIONAL NET-DIPPING & REARING IN AQUARIUM.
110	75	80	2	101	20 STANDARDIZED COLLECTING OF GALLS FROM CLIPPED BRANCHES TO EXPRESS DENSITY/1000 SHOOTS
		81	3		

		82			
111	76	15	4	102	1
		16	5		4
					8 SOME RECORDS FROM SYSTEMATICALLY SEARCHING 100M LENGTHS OF MARGINAL VEGETATION FOR EX
112	77	83	5	103	20 STRATIFIED SAMPLING OF LEAVES WITH GALLS.
			7		
113	78	27	2	104	1 NO./UNIT AREA (STATISTICAL).
		46	3		2
		84	5		3
		85			4
		86			6
					7
					8
					9
					10 NO PRESERVATIVE.
					11
					16
					17
114	79	87	4	105	1
					2 DIRECT TOTAL EMERGENCE CENSUS.
					3
115	80	42	5	107	1
		28			4
					6
					8
					19 POND-NETTING.
116	81	88	2	108	1 PRESENCE/ABSENCE DATA ONLY.
			5	109	19 KICK SAMPLING; 2 MINUTES, STANDARD D-FRAME POND NET, 1MM MESH.
				110	
117	2	4	5	111	1
					4
					6
					7
					8
					9
					10 PRESERVATIVE: ETHYLENE GLYCOL
118	2	4	5	112	1
					4
					6
					7
					8
					9
					10 PRESERVATIVE: ETHYLENE GLYCOL. IN WET HEATH AND POND-SIDE VEGETATION.
119	2	4	5	113	1
					3
					4
					5
					6
					7
					8
					9

					10	PRESERVATIVE: ETHYLENE GLYCOL. LINES OF TRAPS IN VARIOUS HABITATS.
120	2	4	5	114	1	
					2	
					3	
					4	
					6	
					7	
					8	
					9	
					10	PRESERVATIVE: ETHYLENE GLYCOL. 1980-1983.
121	82	28	5	115	1	
		21			4	
		72			6	
		15			7	
		39			16	
		16				
		31				
122	83	74	2	90	1	
		39	5		3	
		73			4	
					6	
					7	
					20	BAT DETECTOR FOR ORTHOPTERA.
123	84	75	5	116	1	
					5	
					6	
					8	
124	8	56	6	118	1	
				119	2	
					20	MAPPING ANTS NESTS, RETURN TO SAME NESTS IN SUCCESSIVE YEARS.
125	85	46	5	120	3	3KM. SEE OTHER.TECH.COMMENTS.
126	86	21	5	121	1	
		75			3	ODONATA.
		16			6	
					16	MACROMOTHS.
127	87	32	5	122	4	
					6	
					7	
					8	
					9	
					10	PRESERVATIVE
					11	

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SIT	MONTHS	FREQUENCY.....	START YEAR	END YEAR	CONTINUOUS	CONT COMMENT.....	OTHER TECH COMMENTS.....
1	1	2	2	1	5	DAILY/ALTERNATE	1991	ON GOING	NO	BREAKS WHILST ON HOLIDAY	
		3	5		6						
					7						
					8						
					9						
2	2	4	5	2	1	MONTHLY (IRREGU	1960	1985	YES	SPASMODIC MANUAL COLLECTION 60-85 RIGOROUS PITFALL & MANUAL 79-81	PITFALL TRAPPING & SIMULTANEOUS COLLECTION BY DETRITOUS SIFTING ETC CARRIED OUT ALONG TRANSECTS (10 TRAPS/100 YARDS) VAR. HABITATS MOSTLY CALLUNA AT VAR. GROWTH STAGE
					2						
					3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
3	3	5	2	3	3	MONTHLY	1984	1987	YES		
		6	5		4						
		7			5						
		9			6						
		10			7						
		11			8						
		12			9						
		13			10						
		14									
		15									
		16									
		8									
4	4	17	5	4	4				NO		MORPHOMETRIC ASSESSMENT OF APIS MEL
		18			5						
					6						

				7					
				8					
				9					
5	5	15	4	5 5	MONTHLY	1986 ON GOING YES		ONLY PARTS OF THE SITE ARE ACCESSIBLE	
		16	5	6					
				7					
				8					
6	5	16	4	6 7	MONTHLY	1990 ON GOING YES			
		15	5	8					
				9					
				10					
				11					
7	6	4	5	7 5	FUND PERMITTING	1990 ON GOING NO	DEPENDS ON FINANCIAL RESOURCES		
				6					
				7					
				8					
				9					
8	6	4	5	8 1	MONTHLY	1992 ON GOING YES			
				2					
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
9	7	19	5	9 4	MONTHLY	1972 ON GOING YES			
		20		5					
				6					
				7					
				8					

				9						
				10						
10	7	20	6	10		YEARLY	1977	ON GOING	YES	
11	8	16	5	117	3	IRREGULAR	1992	ON GOING	YES	NOT ALL SITES?
		15			4					
		39			5					
					6					
					7					
					8					
					9					
					10					
					11					
12	9	21	5	11	1	WEEKLY	1991	ON GOING	YES	SUMMER- TRAP RUN AT LEAST WEEKLY, IF HEAVY RAIN NOT FORECAST. WINTER- TRAP RUN 1-2 TIMES MONTHLY, WHEN WEATHER SUITABLE. SPECIES MONITORING FOR MANY YEARS, NUMBERS ONLY SINCE END 1991
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
13	10	22	1	12	1	YEARLY	1971	ON GOING	YES	SCALE INSECTS ARE COUNTED IN ASH BARK SAMPLES FROM THE SAME AREA EACH YEAR AND ARE USED IN A POP. DYNAMICS PRACTICAL EXERCISE.
			4		2					
			5		11					
					12					
14	11	2	5	13	4	FORTNIGHTLY	1981	1991	NO	MISSED 1989,90, BECAUSE OTHER PROJECTS. TRANSECTS TRIED 1981-83 BUT LOW ACCURACY ON THIS SITE BECAUSE OF HIGH DENSITIES OF SOME SYRPHIDS - BUT GAVE INFO ABOUT PHENOLOGY, FEEDING ETC.
		24			5					
		23			6					
					7					
					8					
					9					

15	11	2	5	14	4	FORTNIGHLTY	1988 ON GOING	YES		TRANSECTS WERE TRIED 1988-89, BUT NOT AS A MONITORING EXERCISE
					5					
					6					
					7					
					8					
16	11	23	5	14	4	FORTNIGHTLY	1988 ON GOING	YES		
		2			5					
		24			6					
		3			7					
					8					
17	11	2	5	15	3	3-5 TIMES/WEEK	1981 1992	YES		RE TRANSECTS. ALWAYS USING A PARTICULAR TIME OF DAY MAY MISS SOME SPP. FEEDING ACTIVITY MAY BE REL. TO TIME OF ANTHERS OF PARTICULAR FLOWERS, WHICH VARIES. COUNTS SPREAD OVER A RANGE OF TIMES BUT THESE ARE PURELY OPPORTUNE.
		23			4					
					5					
					6					
					7					
					8					
					9					
					10					
18	12	25	4	16	5	WEEKLY	1988 ON GOING	YES		
					6					
19	13	26	2	17	6	WEEKLY	1992 1993?	NO	DEPENDS UPON TIME AVAILABLE HASN'T BEEN GOING LONG ENOUGH FOR THIS TO MEAN MUCH.	1992 IS A PILOT STUDY, MORE TIME TO BE SPENT IN 1993
			5		5					
					7					
					8					
20	14	2	5	18	2	1-2 TIMES/WEEK	1983 ON GOING	NO	HAVE ALSO MADE USE OF PRE 1983 DATA FROM MUSEUM COLLECTIONS (1900 ON).	AN ATTEMPT IS BEING MADE TO VISIT ALL TETRADS IN THE REGION.
		15	4		3					
		16	2		4					
					5					
					6					
					7					
					8					
					9					
					10					

			11					
21	15	27 28	5 19	5 6 7 8 9 10	FORTNIGHTLY	1992 2022	YES	4 BY 10 TRAPS IN TRANSECTS; 10M BETWEEN TRAPS. ONE OF 8 BRITISH NERC-FUNDED ECN (ENVIRONMENTAL CHANGE NETWORK) SITE
22	15	31 21	5 19	5 6 7 8 9 10	DAILY	1992 2022	YES	ONE OF 8 BRITISH NERC-FUNDED ECN (ENVIRONMENTAL CHANGE NETWORK) SITE
23	15	29	2 19	5 6 7 8 9 10	YEARLY	1992 2022	YES	ONE OF 8 BRITISH NERC-FUNDED ECN (ENVIRONMENTAL CHANGE NETWORK)SITES
24	15	30	2 19 5	5 6 7 8 9 10	YEARLY	1992 2022	YES	ONE OF 8 BRITISH NERC-FUNDED ECN (ENVIRONMENTAL CHANGE NETWORK)SITES
25	15	27 32	5 20	1 2 3 12	YEARLY	1992 1996	NO	MONITORING THE ARRAY OF SITES WILL BE CONDUCTED EVERY 3 OR 5 YEARS TO ASSESS CHANGES IN THE SITES.	IN MILD WINTER/SPRING CONDITIONS OVER-WINTERING IMAGOS MAY BE SUCCESSFULLY SAMPLED BY TREADING, SIEVE-SORTING ETC OF TUSSOCKS.
26	16	33	5 21	5 6 7	WEEKLY	1983 ON GOING	YES	TRANSECTS HAVE SHOWN THAT >99% OF INDIVIDUALS WERE <3M OFF PATHS THEREFORE FOOTPATHS WALKED ON EACH VISIT.

27	16	34	2	22	1	FORTNIGHTLY	1984 ON GOING YES	ALL INSTARS RECORDED INITIALLY BUT IN LAST THREE YEARS ONLY IV. V. AND ADULT TO MEASURE RESIDENT POP
			5		2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
28	16	35	1	22	1	FORTNIGHTLY	1984 ON GOING YES	
			5		2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
29	16	36	1	23	3	YEARLY	1990 ON GOING YES	EGG COUNTS/BUD/STEM BY DISSECTION UNDER MICROSCOPE
					4			
30	16	37	5	22	1	FORTNIGHTLY	1984 ON GOING YES	
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			

				10					
				11					
				12					
31	17	1	2	24	5	MONTHLY	1982 ON GOING NO	1982, 85, 88 RECORDED	PROJECT TO MONITOR EFFECT OF TURF TRANSLOCATION COMPARED WITH NEARBY CONTROL AREA ON SAME SITE
			3		6				
			5		7				
					8				
					9				
32	18	21	5	25	1	WEEKLY	1992 ON GOING YES		
		31			2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
33	19	38	1	26	1	MONTHLY	1990 1993 YES		
			2		2				
			3		3				
			5		4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
34	20	27	5	27	4	FORTNIGHTLY	1990 ON GOING YES		USED DETRENDED CORRESPONDENCE ANALYSIS (DECORANA) TO LOOK AT HABITAT DIFFERENCES
					5				
					6				

					7						
					8						
					9						
					10						
35	21	15	5	28	6	WEEKLY	ON GOING	YES			
		16			7						
					8						
					9						
36	21	21	5	28	6	WEEKLY	ON GOING	YES			
					7						
					8						
					9						
37	22	21	2	29	4	IRREGULAR	ON GOING	YES			
		25	4		5						
		16	5		6						
		39			7						
					8						
					9						
					10						
38	23	40	1	30	1	IRREGULAR	1982	ON GOING	NO	INTERRUPTED 1) TO STUDY SITES IN KENT AND SUSSEX TRUSTS. 2) BECAUSE OF PERSONAL PROBLEMS IN THE HOUSING MARKET.	MENISCUS MIDGE LARVAE HANG IN THE SURFACE FILM AND PUPA AND EGGS ARE IN IT, USUALLY ABOVE THE SURFACE OF THE WATER, WHERE IT IS DRAWN UP MARGINAL, EMERGENT VEGETATION.
			2		2						
			3		3						
			4		4						
			5		5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
39	24	21	5	31	1	DAILY	1986	ON GOING	NO	1988, 1989, MISSED	"ON SITE" METEOROLOGICAL DATA AVAIL SPECIES AND NO. OF INDIVIDUALS RECO
					2						
					3						

					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
40	25	28	5	32	1	FORTNIGHTLY	1985 ON GOING YES			
		42			2					
		41			3					
					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
41	26	4	5	33	4	MONTHLY	1990 ON GOING NO	VERY DRY SUMMERS HAVE MADE IT VERY DIFFICULT TO FIND INVERTS - DYKES HAVE DRIED UP	PITFALLS CATCH MANY BEETLES AND SPIDERS BUT NOT MANY CORTICARINA. WEATHER CAN BE WINDY AND COLD OR VERY HOT. OFTEN BEST TO COLLECT A BAG OF RAKINGS AND TAKE HOME TO SEIVE, TO PREVENT BLOWING AWAY!	
		43			5					
					6					
					7					
					8					
					9					
					10					
42	27	15	4	34	4	3 TIMES/WEEK	1991 ON GOING YES		QUANTIFICATION BASED ON CODES ADOPTED BY THE ODONATA RECORDING SCHEME. CODE RANGE EXTENDED TO COPE WITH LARGER NUMBERS.	
		16	5		5					
		44	7		6					
					7					
					8					
					9					
					10					
					11					

43	28	21	5	35	1	DAILY	1989 ON GOING	YES	NO.S AND SPECIES TAKEN IN THESE MONTHS HAVE BEEN NOTED OVER THE LAST FOUR YEARS
					2				
					3				
					4				
					10				
					11				
					12				
44	29	28	5	36	1	FORTNIGHTLY	1989 1992	YES	A TOTAL OF 10500 SPECIMENS COVERING 489 SPECIES TRAPPED. DATA PROVIDE ASSESSMENT OF PERFORMANCE OF INTERCEPTION TRAP
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
45	30	21	5	37	1	DAILY	1979 ON GOING	YES	DAILY MON FROM APRIL TO SEPTEMBER, SPASMODICALLY:WHEN WEATHER SUITABLE AT OTHER TIMES
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
46	31	15	5	38	4	FORTNIGHTLY	1986 ON GOING	YES	
		16			5				
					6				
					7				

				8					
				9					
				10					
				11					
47	31	15	5	39 4	FORTNIGHTLY	1984 ON GOING YES		INFORMAL 1984-1991, FOR EN 1992 ON	
		16		5					
				6					
				7					
				8					
				9					
				10					
				11					
48	32	45	2	40 1	FORTNIGHTLY/MON	1990 1992	NO	DENSITY SAMPLING OF 1 FIELD 4/90-12/90, 2ND FIELD 1/91-12/91 CONTINUOUS AERIAL SAMPLING	CONTINUOUS SUCTION(AERIAL) SAMPLING FOR 2 YEARS. ONLY ONE YEAR OF CONTINUOUS DENSITY ESTIMATES FOR 2 SITES
			5	2					
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
49	33	44	2	41 3	WEEKLY	1989 ON GOING YES			WEATHER DEPENDENT. 1990 WAS A DISASTROUS SPRING. OTHER ODONATA MONITORED TOO USING ORS GUIDELINES. PART EN CONTRACT TO MON ABOVE AND BELOW A SEWAGE OUTLET DRIED IN 1992
			4	4					
			5	5					
				6					
				7					
				8					
				9					
				10					
50	34	46	5	42 6	2-3 TIMES/WEEK	1988 ON GOING YES			
				7					
				8					

51	35	47	3	43	1 2 3	ANNUAL	1954 ON GOING YES	IN SUSCEPTIBLE PLANTATIONS, I.E. >25 YEARS OLD.	
52	35	48	3	44	10 11	ANNUAL	1976 ON GOING NO	SUSCEPTIBLE PLANTATIONS VARY IN LOCATION FROM YEAR TO YEAR.	
53	36	2	5	45	3 4 5 6 7 8 9 10	2-3 TIMES/WEEK	1980 ON GOING YES		RECORD ADULT HOVERFLIES VISUALLY AND WITH HAND NET. ID BY MICROSCOPE
54	37	21	5	46	3 4 5 6 7 8 9 10	WEEKLY	1982 ON GOING YES		
55	37	15 16	5	47	3 4 5 6 7 8 9 10	WEEKLY	1982 ON GOING YES		
56	37	16 15	5	48	3 4 5 6	WEEKLY	1982 ON GOING YES		

					7						
					8						
					9						
					10						
57	38	21		5	49	1	1-4 TIMES/WEEK	1989	ON GOING	YES	TRAP OPERATED ON A HALF-ROOF OF WOLLATON HALL - AT LEAST ONCE A WEEK; GENERALLY MORE FREQUENTLY IN SUMMER. ALL SPP AND NO.S OF MACROMOTHS RECORDED. DIFF. SPP ARE CONFIRMED BY GENITAL DISSECTION. THE PROPORTION OF MELANICS TO TYPICALS IS RECORDED FOR SOME SPECIES (EG PEPPERED MOTH) AND SEX RATIO HAS BEEN RECORDED FOR A FEW SPP. A VOUCHER SPECIMEN OF EACH SPECIES IS RETAINED IN THE MUSEUM.
					2						
					3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
58	39	28		5	50	1	WEEKLY	1979	1989	YES	
					2						
					3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
59	40	15		5	51	5	MONTHLY	1987	ON GOING	YES	INITIAL USE OF TRANSECT METHOD ABANDONED - TOO TIME CONSUMING, INNACCURATE FOR SOME SPP. OF DAMSELFLIES. LINEAR & WIDESPREAD DYKE HABITAT AND UNEVEN DISTRIBUTIONS OF SOME SPP. ALSO CREATED PROBLEMS OF VERY LONG
		16				6					
						7					
						8					
						9					

					TRANSECTS.			
60	40	16	5	52	5	MONTHLY	1987 ON GOING YES	RESULTS SUBMITTED TO NORFOLK DRAGONFLY SURVEY. SEE RECORD 59
		15			6			
					7			
					8			
					9			
61	40	16	5	53	5	WEEKLY	1987 ON GOING YES	THIS IS TIME-CONSUMING AND ONLY POSSIBLE DUE TO THE EMPLOYMENT OF A SUMMER WARDEN ON THE SITE
		15			6			
					7			
					8			
					9			
62	41	28	5	54	1	5-10 TIMES/YEAR	1987 ON GOING YES	MONITORING IN ALL MONTHS BUT MOSTLY APRIL TO OCTOBER
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
63	42	28	5	55	1	DAILY/WEEKLY	1978 ON GOING YES	ALMOST DAILY IN SUMMER, WEEKENDS IN WINTER
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

64	43	16	4	56	4	WEEKLY	1986 ON GOING YES	EXUVIAE COUNTS HAVE BEEN COMPROMISED BY UNAUTHORISED REMOVAL BY OTHER RECORDERS ACTING UNILATERALLY - A PROBLEM ON ANY OPEN SITE
		15	5		5			
					6			
					7			
					8			
					9			
					10			
65	44	28	5	57	3	FORTNIGHTLY	1990 ON GOING YES	(TRAPS REMOVED FOR REPAIRS ETC IN WINTER). MAIN TECHNIQUE IS MALAISE TRAPS WITH OTHER METHODS AS CONTROLS/ COMPARISONS
		49			4			
		50			5			
		41			6			
					7			
					8			
					9			
					10			
					11			
66	45	28	5	58	1	FORTNIGHTLY	1991 ON GOING YES	FORTNIGHTLY SUMMER, LESS FREQUENT COLDER MONTHS. 3 SITES WITHIN RESERVE, EACH IN A DIFFERENT HABITAT. EACH SITE HAS 6 PITFALLS - PLASTIC CUPS.
		42			2			
		39			3			
		49			4			
		41			5			
		4			6			
					7			
					8			
					9			
					10			
					11			
					12			
67	46	51	2	59	4	VARIABLE	1974 ON GOING YES	SAMPLING FREQUENCY VARIABLE - 3 WEEKLY AT START AND END. EVERY 3-5 DATS MAY-JULY. ON GOING PROJECT WITH INCREASING AUTECOLOGY CONTENT THEREFORE TIME SPENT VARIABLE
			5		5			
					6			
					7			
					8			
					9			
					10			

68	47	52	1 2 3 5	60	3 5 6 7 8	WEEKLY	1988 ON GOING YES	MARCH: LARVAL SEARCHES. AUGUST: LARVAL SWEEPS. MAY, JUNE, JULY: FLIGHT SEASON.
69	48	53	2 5	61	5 6 7 8 9	AS REQUIRED	YES	
70	49	54	5 6	62	6	1 WEEK/YEAR	1992 ON GOING YES	1992 FIRST YEAR MAY CHANGE MONTH AFTER CONSULTATION WITH EXPERT (SIMON HOY) SITE DIVIDED INTO SEARCH AREAS - NESTS MARKED WITH CANES. EFFICIENCY OF SEARCH POSSIBLY DEPENDENT UPON NUMBERS OF VOLUNTEERS HELPING EACH DAY (VARIES).
71	50	27	5	63	4 5 6 7 8 9 10	WEEKLY	1981 ON GOING YES	
72	51	16 15 2 23	5	64	1 2 3 4 5 6 7 8 9 10 11 12	WEEKLY/FLEXIBLE	1990 ON GOING YES	MAIN MONITORING MARCH-NOVEMBER. BASED ON BTO GARDEN BIRD WEEKLY SAMPLE METHOD. WHICH IS LIKE A BUTTERFLY TRANSECT BUT MORE FLEXIBLE AS REGARDS WEATHER AND FREQUENCY OF VISITS. SEE REFS. TRYING TO PROMOTE A NETWORK OF SIMILAR GARDEN RECORDING STATIONS AMONG HOVERFLY RECORDING SCHEME PEOPLE AND ALSO HOPING THAT BBCS GARDEN MONITORING SCHEME WILL TAKE ON BOARD THIS OR AN IMPROVED METHOD

73	52	21	2	65	4	3 TIMES/WEEK	1991	1993	YES	2ND SEASON OF 3 YEAR PHD PROJECT, INVOLVING SUMMER MONITORING. SOME TRAPPING AREAS WERE USED BY A PREVIOUS PHD STUDENT IN 1988-1990.	SWEEP-NET TECHNIQUE HAS BEEN CALIBRATED FOR PARTICULAR SPP. AGAINST A COMBINATION OF BEATING, HANDSEARCHING AND HEAT EXTRACTION USING BERLESE FUNNEL.
		31			5						
					6						
					7						
					8						
					9						
					10						
74	53	28	2	66	5	MONTHLY			YES		
			5		6						
					7						
					8						
					9						
75	54	16	5	67	5	WEEKLY	1981	1991			ATTEMPTED TO COUNT WHERE POSSIBLE: MALES, FEMALES, OVIPOSITING FEMALES AND MALE/FEMALE TANDEMS. WATER COVER IN LAGOONS MONITORED ON FIRST AND LAST DATES.
		15			6						
					7						
					8						
					9						
					10						
76	54	15	5	68	5	WEEKLY	1992	ON GOING			SEE REC. 75
		16			6						
					7						
					8						
					9						
					10						
77	53	21	2	69	5	MONTHLY	1988	ON GOING			PITFALLS SERVICED MONTHLY; OBSERVER PRESENT AT LEAST WEEKLY
		31	5		6						
		28			7						
		4			8						
78	55	21	5	77	3	DAILY		ON GOING	YES		
		31			4						
					5						
					6						
					7						

				8						
				9						
				10						
79	56	55	2	71	6	EVERY 3 DAYS	1987 1989	YES	OCCASIONAL MONITORING AND BEHAVIOURAL RESEARCH SINCE 1989	SEARCHING IN QUADRATS FOR LARVAE IN JUNE. VEGETATION TRANSECTS IN OCTOBER. ADULT POP. COUNTS AUGUST-SEPTEMBER.
			3		7					
			5		8					
					9					
					10					
80	57	46	2	72	4	IRREGULARLY	1991 ON GOING	YES		FREQUENCY VARIES FROM MONTHLY TO DAILY, DEPENDING ON SEASON
			5		5					
					6					
					7					
					8					
					9					
					10					
					11					
81	58	57	5	73	4	MONTHLY	1986 ON GOING	YES		SURVEY BEGAN IN 1986 AND HAS CONTINUED TO PRESENT
		27			5					
		4			6					
		56			7					
					8					
					9					
82	58	58	2	73	5	YEARLY	1988 ON GOING	YES		
83	58	1	5	74	6	2 TIMES/YEAR	1987 1991	YES		TWO WEEKS IN JUNE AND SEPTEMBER EACH YEAR
					9					
84	59	1		75				NO	BUILDING UP RECORDS TO ASSESS MANAGEMENT AND NOW BEGINNING TO MONITOR A NUMBER OF SCARCE SPP.	
85	60	59	4	70	5	WEEKLY	1980 ON GOING	YES		
			5		6					
86	60	60	4	76	5	YEARLY	1980 ON GOING	YES		MONIT. OF C. PULCHELLUM POPS WHICH

			5	6					IN ALL CASES ARE WITH C. PUELLA IS DONE BY COUNTING MALES.
87	61	61	5	78 5 6 7 8 9	YEARLY	1971 ON GOING	NO	SOME YEARS MISSED	50 ADULT AND 300 JUVENILE SNAILS FROM CATERHAM SURVEY WERE BRED IN THE LAB AND PUT ON PULPIT HILL ON 13/06/71. ABOUT 100 MORE ADDED ON 4/05/75, ONLY 50 WERE ADULT.
88	62	16 62 15	2 4 5	79 4 5 6 7 8 9	1-2 TIMES/WEEK	1988 1992	YES	POOR WEATHER HAS DISRUPTED REGULAR WEEKLY VISITS ESPECIALLY 1991	SEEPAGE ZONE IS SURVEYED FOR ISCHNURA PUMILIO BY USING THE SAME ROUTE EACH VISIT. I. PUMILIO IS EASY TO SEE - IF AREAS OF JUNCUS ARE PRODDED WITH A STICK INDIVIDUALS WILL USUALLY FLY UP AND RESETTLE A FEW METRES AWAY.
89	63	63 64	2 5	80 1 2 3 4 5 6 7 8 9 10 11 12	FORTNIGHTLY	1988 ON GOING	YES		WALLS DIVIDED INTO 25 SECTIONS. ALL INDIVS. OF BOTH SPP. RECORDED PER SECTION. EXTENDED (CRAWLING) BODY LENGTH MEASURED. CENSUS BY TORCH, GENERALLY BETWEEN 2300 AND 0200 ON WARM WET EVENINGS, FORTNIGHTLY IF POSSIBLE. (INITIALLY, 2-3 TIMES PER WEEK, AND TIME OF NIGHT VARIED, MEASURED TEMP. & EVAP. TO EVALUATE EFFECTS OF SPP. ACTIVITY. NOW APPARENT THAT: 1)ADULTS ACTIVE ONLY ON WARM DAYS/EVENINGS. 2) JUVENILES ACTIVE UNDER COLDER/DRIER CONDITIONS. 3)RARELY HAVE MORE THAN 50% OF POP. ON ONE EVENING, BUT MOS INDIVIDUALS FEED AT LEAST 1 NIGHT IN 3 IF WEATHER OK.
90	63	66 65	1 2 5 7	81 1 2 3 4	2-3 TIMES/WEEK	1979 1982	NO	ALMOST CONTINUOUS. DURING 3 TIMES 9 WEEK TERMS FOR 3 ACADEMIC YEARS.	QUADRATS ONLY 1981-82, OCT. TO JAN. A. FLAGELLUS (LARGE - UP TO 15CM) EASILY TRANSECTED BY TORCHLIGHT. A. DISTINCTUS (TO 3CM) NEEDED

			5				CONCENTRATED 3 MONTHS QUADRATING.
			10				
			11				
			12				
91	63	67	5 82 3	1-2 TIMES/MONTH	1979 ON GOING NO	NO. OF VISITS VARIES DEPENDING UPON OTHER COMMITMENTS.	+/- 1M SQ. QUADRATS IN SUITABLE HABITATS. ABOUT 10 AREAS REVISITED EACH YEAR, AND NEW AREAS ASSESSED WHEN THE SP. IS FOUND. COUNTS/M SQ. IN SUNNY WEATHER, WITH DIRECT SEARCH AND PITFALL (1990) IN SUPPORT. V. FEW B. HUMERALE IN PITFALLS EVEN WHERE ABUNDANT!
			83 4				
			5				
			6				
			7				
			8				
			9				
			10				
92	63	68	2 84 1	FORTNIGHTLY	1989 ON GOING YES		FOUND ON SECTION 7 AND 24 OF 'SLUG WALL'. ADULTS AND IMMATURES COUNTED DURING NOCTURNAL SLUG CENSUS. NO.S DEPEND PARTLY ON WEATHER BUT UNDER WARM, FAIRLY DAMP (BUT NOT WET) CONDITIONS, MOST INDIVIDUALS SEEN TO BE ON SURFACE (DAY-TO-DAY VARIATION IN NO.S IS SLIGHT). HOWEVER, PROPORTION FORAGING ON WALL (AS OPPOSED TO IN MOSS OR LEAF-LITTER ON GROUND AT FOOT OF WALL) VARIES CONSIDERABLY.
			5 2				
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
93	63	69	2 83 3	1-2 TIMES/MONTH	1987 ON GOING YES	BUT NOT ALL METHODS USED EACH YEAR.	
			3 82 4				
			5 5				
			6				
			7				
94	63	70	2 85 1	5-6 TIMES/YEAR	1984 ON GOING YES		MONIT. IN SUMMER IF V. DAMP. SEE ORIGINAL FORM FOR 5 POINT SCALE OF ABUNDANCE USED.
			5 2				
			3				
			4				
			9				
			10				

					11					
					12					
95	64	15	5	86	5	>FORTNIGHTLY	1986 ON GOING NO	SURVEYS IN 1986 & 1987; 1991 & 1992	SURVEY METHODOLOGY HAS PRODUCED COMPARIBLE RESULTS FROM YEAR TO YEAR. REGARDLESS OF USING DIFFERENT SURVEY PERSONEL. MODIFIED POLLARD WALK. 18 DEG.C+, LITTLE WIND, >50% SUNSHINE.
		16			6				
					7				
					8				
					9				
96	65	71	2	87	8	YEARLY	1990 ON GOING YES		THE LARVAE ARE READILY COUNTED DURING HAND-SEARCH AS THE FOOD-PLANT OCCURS IN DISCRETE COLONIES WHICH HAVE NOW BEEN MAPPED.
					9				
97	65	28	2	88	5	FORTNIGHTLY	1984 ON GOING YES	YES, BUT EVERY OTHER YEAR.	
		4	5		6				
		72			7				
					8				
					9				
					10				
98	66	15	5	89	5	DAILY	1984 ON GOING YES	EXCEPT FOR BRIEF HOLIDAY PERIODS ETC.	DAILY - FINE DAYS. OCCASIONAL - OTHER WEATHER.
		16	7		6				
					7				
					8				
					9				
					10				
					11				
99	67	54	2	91	1	MONTHLY	ON GOING YES		F. TRANSKAUCASICA MONTHLY, OTHERS RANDOM.
		56	5		2				
		4			3				
		46			4				
					5				
					6				
					7				
					8				
					9				

					10						
					11						
					12						
100	68	46	5	92	6	WEEKLY	1991	ON GOING	YES		
					7						
					8						
101	68	46	5	93	6	WEEKLY	1991	ON GOING	YES		
					7						
					8						
102	69	31	5	94	6	YEARLY	1990	ON GOING	YES	CENSUS MAY NOT CONTINUE AS MANPOWER UNAVAILABLE (INDIVIDUAL WITH THE SPECIFIC SKILLS NO LONGER IN THE AR	
		21			7						
		15			8						
		16									
103	70	75	2	95	5	MONTHLY			YES	8 SITES (2 REPLICATES IN EACH OF 4 DIFFERENT 'TREATMENTS' (PAST MANAGEMENTS).	
			5		6						
					7						
					8						
					9						
					10						
104	71	76	4	96	4	WEEKLY		ON GOING	YES	2 TRANSECT ROUTES (DESIGNED FOR BMS) - ALL ODONATA RECORDED WEEKLY. STATUS EVALUATED (SUBJECTIVELY) FOR ALL SPP. IN THE ORDER ACROSS ENTIRE RESERVE EACH SEASON. SOME SPP. ARE LOOKED AT MORE CLOSELY (BREEDING SITES OF ORTHETRUM COERULESCENS).	
		15	5		5						
		16			6						
					7						
					8						
					9						
105	72	78	5	97	1	FORTNIGHTLY	1990	ON GOING	YES	PITFALL TRAPS ARE IN A GRID OF 10 LAID IN 2 ROWS OF 5 ALL 2M APART. THEY ARE PLASTIC VENDING MACHINE CUPS - 7CM DIAMETER, 10CM DEEP.	
		4			2						
		77			3						
		28			4						
		57			5						
					6						
					7						

					8				
					9				
					10				
					11				
					12				
106	73	41	5	98	3	MONTHLY	1992 ON GOING YES		
					4				
					5				
					6				
					7				
					8				
					9				
					10				
107	73	41	5	75	1	FORTNIGHTLY	1992 ON GOING YES		WINTER: MONTHLY. SUMMER: FORTNIGHTLY. 1993 PITFALLS INTENDED.
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
108	73	41	5	99	1	MONTHLY	1992 ON GOING YES		
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				

					12				
109	74	28	2	100	1	DAILY	1961 ON GOING YES	GARDEN DAILY, RESERVE OCASSIONALLY. THE PROXIMITY OF THE NATURE RESERVE AT THE END OF THE GARDEN & THE WILD/CULTIVATED MIX OF PLANTS IN THE GARDEN MEANS THAT WHAT IS FOUND IN THE GARDEN CAN USUALLY BE ASSUMED TO ALSO OCCUR IN THE WOODLAND.
		42	3		2			
		21	4		3			
		41	5		4			
		79	6		5			
		15			6			
		16			7			
		49			8			
					9			
					10			
					11			
					12			
110	75	80	2	101	6	YEARLY	1966 ON GOING YES	3 YEW TREES, MAX DISTANCE APART ABOUT 300M. NOTE THAT SINGLE ANNUAL SAMPLES CAN BE USED TO RECONSTRUCT DENSITY/MORTALITY/CAUSES OF DEATH FOR THE WHOLE PERIOD IN GALLS!
		81	3					
		82						
111	76	15	4	102	4	WEEKLY	1989 ON GOING YES	SEVERAL RECORDERS WORKING ON A VOLUNTARY BASIS. EACH ALLOCATED A MONTH AND ASKED TO VISIT THE CANAL AT LEAST ONCE IN THAT MONTH (ON A SUNNY DAY). HOWEVER ADDITIONAL VISITS ARE STRONGLY ENCOURAGED IN ANY MONTH BETWEEN LATE APRIL AND MID NOVEMBER.
		16	5		5			
					6			
					7			
					8			
					9			
					10			
					11			
112	77	83	5	103	8	YEARLY	1985 ON GOING YES	
			7		9			
113	78	27	2	104	1	1-2 TIMES/WEEK	1991 ON GOING YES	
		46	3		2			
		84	5		3			
		85			4			
		86			5			
					6			

				7					
				8					
				9					
				10					
				11					
				12					
114	79	87	4	105	5	DAILY	1985 ON GOING	YES	WATER TEMPERATURE, SEX, ATTITUDE AND SUPPORT OF EXUVIAE NOTED.
					6				
115	80	42	5	107	5	6-MONTHLY	1991 ON GOING	YES	6-MONTHLY BUT INDISCRIMINATORY VISITS AT OTHER TIMES AS AND WHEN TIME PERMITS. AQUATIC AND WETLAND COLEOPTERA AND HEMIPTERA.
		28			9				
116	81	88	2	108	2	WEEKLY	1987 ON GOING	YES	ABUNDANCE OF SELECTED INDICATOR SPP RELATED TO CHEMISTRY. MAIN GROUPS STUDIED INCLUDE TRICHOPTERA, PLECOPTERA, EPHEMEROPTERA, AND MOST OTHER FRESHWATER INVERTEBRATES.
			5	109	3				
				110	4				
					5				
					6				
					7				
					8				
					9				
					10				
117	2	4	5	111	1	MONTHLY	1976 1980		THE WOODLAND WAS PLANTED IN THE 19T CENTURY WITH MANY RHODODENDRONS, AZALEAS, AND SLIGHTLY UNUSUAL TREES AS THE GROUNDS OF A COUNTRY HOUSE. MORE RECENTLY, AREAS HAVE BEEN PLANTED WITH CONIFERS. RECORDING OF NUMBERS VAGUE.
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				

118	2	4	5	112	4	MONTHLY	1979	1982	NO	MORE INTENSIVE WORK IN 1982. RECORDING OF NUMBERS VAGUE?
					5					
					6					
					7					
					8					
					9					
119	2	4	5	113	1	IRREGULAR	1961	1981		NUMBERS RECORDING VAGUE?
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
120	2	4	5	114	1	MONTHLY	1960	1983	NO	1960-1962 AND 1980-1983. NUMBERS OF SPECIMENS GENERALLY TOO LOW TO DRAW MANY CONCLUSIONS ABOUT POPULATION FLUCTUATIONS.
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
121	82	28	5	115	1	MONTHLY	1990	ON GOING	YES	AD HOC VISITS OVER LAST 2 YEARS. NOT A STRICT MONITORING REGIME BUT CHANGES ARE BEING NOTED.
		21			2					
		72			3					
		15			4					
		39			5					
		16			6					

		31			7					
					8					
					9					
					10					
					11					
					12					
122	83	74	2	90	5	3-4 TIMES/WEEK	1990 ON GOING YES		METHODS A LITTLE VAGUE. THIS IS A COUNTY SURVEY BUT IS LIKELY TO INVOLVE RESURVEY ESPECIALLY OF RARER SPP.	
		39	5		6					
		73			7					
					8					
					9					
					10					
123	84	75	5	116	1	WEEKLY	1964 ON GOING YES		THIS IS NO MORE THAN THE CASUAL OBSERVATIONS OF AN INTERESTED AMATUER OVER THE YEARS, HOWEVER THE GENERAL POP. STATUS OF MANY SPP. IS KNOWN EVEN IF NOT IN ABSOLUTE TERMS.	
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
124	8	56	6	118	3	YEARLY	1948 ON GOING YES	NOT ALL SITES FULLY CONSISTENT.		
				119	4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
125	85	46	5	120	5	WEEKLY	1992 ON GOING YES		TRANSECT LENGTH ABOUT 3KM, THROUGH MAIN GRASSLAND AREAS OF RESERVE ON	
					6					

				7					AND OFF PATHS, STAIGHT AFTER DUSK,
				8					USUALLY ON CLOUDLESS NIGHTS, NO. OF
				9					FEMALE GLOW WORMS NOTED AND APPROX.
									POSITION ON RESERVE MAP.
126	86	21	5	121	4	DAILY	YES	STARTED SOMETIME IN THE MID-80'S.	
		75			5				
		16			6				
					7				
					8				
127	87	32	5	122	1	MONTHLY	1985 ON GOING YES		
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SITES	TAXON NEG COMMENTS.....	TAXON POS COMMENTS.....
1	1	2 3	2 5	1		
2	2	4	5	2		
3	3	5 6 7 9 10 11 12 13 14 15 16 8	2 5	3		
4	4	17 18	5	4		
5	5	15 16	4 5	5	ODONATA DISAPPEAR IN COLD, CLOUDY WEATHER	ODONATA ARE SUFFICIENTLY LARGE TO BE EASILY FOUND
6	5	16 15	4 5	6	DISAPPEAR WHEN CLOUDY	ODONATA ARE LARGE ENOUGH TO BE EASILY SEEN AND COUNTED. EXUVIAE LAST FOR SOME TIME
7	6	4	5	7	MANY SPIDERS ARE SEASONAL (MATURES NEEDED FOR ID)	INITIALLY IT IS IMPORTANT TO RECORD SPECIES THEN IDENTIFY ANY OF POTENTIAL USE TO POP MON
8	6	4	5	8	SPIDERS CAN BE SEASONAL (MATURES FOR ID)	YES
9	7	19 20	5	9		MALAISE TRAP PROBABLY EFFICIENT AT MEASURING INSECT ACTIVITY
10	7	20	6	10		DIFFICULT TO MISS A NEST, SO YEARLY SURVEY WILL BE COMPLETE
11	8	16 15 39	5	117	NUMBERS OF MOBILE ZYGOPTERA PREVENT DIRECT COUNTS.	ID. NOT USUALLY REQUIRING CAPTURE.
12	9	21	5	11	DAY FLYING SPECIES NOT RECORDED	MOST SPECIES COME READILY TO MV LIGHT
13	10	22	1 4 5	12	SAMPLE LOCATION SELECTION DIFFICULT	STATIONARY AND EASY TO COUNT. CAN BUILD LIFE TABLE.
14	11	2 24 23	5	13	DIFFICULTIES RE SPP OCCURING AT LOW DENSITIES WITH RESPECT TO EFFECTIVENESS AND INTERPRETATION OF SURVEYS	DISTINCTIVE - EASILY RECOGNISED IN FIELD. LITTLE HABITAT DISTURBANCE.

15	11	2	5	14	COUNTING ADULTS DIFFICULT ON THIS SITE. FIXED TRANSECT ROUTES MAY NOT BE APPROPRIATE AS INSECTS USE DIFF. PARTS OF THE SITE IN DIFF. SEASONS EG FAVOURED RESOURCES ARE NOT FIXED SPATIALLY, NOR TEMPORALLY	FIELD RECOGNITION RELATIVELY EASY. MONITORING USEFUL FOR PHENOLOGICAL DATA AND FOR ASSESSING LOCAL DIFFERENCES WITHIN THE SITE.
16	11	23 2 24 3	5	14		DISTINCTIVE GROUP, EASILY RECOGNISED IN THE FIELD. POP LEVELS GOOD ON THIS SITE SO SOME CERTAINTY OF DETECTION.
17	11	2 23	5	15	DIFFICULTY OF ASSESSING SIGNIFICANT CHANGES WITH RESPECT TO SPP AT LOW POP LEVELS, BY THIS METHOD.	FIELD RECOGNITION EASY. LITTLE DISTURBANCE TO THE HABITAT.
18	12	25	4	16		EXUVIA OBVIOUS AND EASY TO COLLECT.
19	13	26	2 5	17		DEFINED HABITAT OF RIVERS- EASY TO LOCATE. HIGHLY VISIBLE INSECTS.
20	14	2 15 16	5 4 2	18	SEASONAL AND YEAR TO YEAR VARIATION WHICH IS PROBABLY CLIMATE BASED. INADEQUATE KEYS.	SOME READILY IDENTIFIED, DISTINCT HABITAT ASSOCIATIONS. LARGE DATABASE LENDS ITSELF TO STATISTICAL ANALYSES.
21	15	27 28	5	19		
22	15	31 21	5	19		
23	15	29	2	19		
24	15	30	2 5	19		
25	15	27 32	5	20	DANGER OF WALKING ON FLOATING BOGS IN THE WINTER	MOST SPECIES OVER-WINTER AS THE IMAGO IN TUSSOCKS
26	16	33	5	21		COLOURFUL, UNIQUE, LARGE AND IMMOBILE
27	16	34	2 5	22	ADULTS MOBILE,FOUND IN OLD WOODLAND ON HOLLY	LAST INSTARS ARE DISTINCTIVE,UNIQUE (EXCEPT IN THE NORTH WHERE ANOTHER SP OCCURS)- ADULTS ARE UNIQUE.
28	16	35	1 5	22	(NOT A NATIVE PLANT)	VERY CONSPICUOUS AS EGGS AND ADULT
29	16	36	1	23	BORING! NEED MICROSCOPE	FIXED LOCATION FOR EGGS
30	16	37	5	22	NO	NO
31	17	1	2 3 5	24		
32	18	21	5	25	DAY-FLYING SPECIES REMAIN	

		31			UNRECORDED	
33	19	38	1 2 3 5	26	MOVEMENT BY BIRDS	EASE OF DETECTION
34	20	27	5	27	LONG TERM COVERAGE OVER WHOLE SEASON REQUIRED FOR COMPARISONS BETWEEN HABITATS AND SITES.	SURFACE ACTIVE CARABIDS EASILY SAMPLED IN THIS WAY, POPS AFFECTED BY ENVIRONMENTAL VARIABLES ACTING ON HABITAT (EG MOISTURE) (NOT DEPENDENT ON PRESENCE/ABSENCE OF FOOD FOR EXAMPLE)
35	21	15 16	5	28		
36	21	21	5	28		
37	22	21 25 16 39	2 4 5	29		
38	23	40	1 2 3 4 5	30	SENSITIVE TO TOO MUCH DISTURBANCE. SOME ARE STRICTLY SEASONAL. SOME ARE RARE!	IF THE LARVAE ARE PRESENT THEY ARE READILY APPARENT - HANGING IN AN INVERTED U IN THE WATERFILM AROUND THE EDGE OF ONES COLLECTING TRAY.
39	24	21	5	31		
40	25	28 42 41	5	32	SMALL SIZE, ID DIFFICULTIES, SECRETIVE NATURE, AND SOMETIMES INACCESSIBLE TO COLLECTING/ OBSERVING.	MOST COLEOPTERA POPS 'SEDENTARY' AND LOCALISED- ALSO POPS USUALLY LARGE.
41	26	4 43	5	33	C. TRUNCATELLA RARELY IN PITFALLS - LOST AGAINST SAND GRAINS! REQUIRES DISSECTION TO DISTINGUISH FROM C. FULVIPES. VEGETATION LIMITED SO GRUBBING REQUIRES CARE.	SPECIALISED HABITAT, FEW SPECIES, CORTICARINA'S COMMON (12/HOUR).
42	27	15 16 44	4 5 7	34	THE SHEER NUMBERS OF INDIVIDUALS OF THE MORE COMMON ZYGOPTERA POSE MAJOR PROBLEMS	EASE OF COUNTING ANISOPTERAN MATURE MALES AT WATER
43	28	21	5	35		
44	29	28	5	36		
45	30	21	5	37		EASY TO CATCH AT LIGHT TRAP. LESS TECNICAL EXPERTISE FOR ID.
46	31	15 16	5	38		
47	31	15 16	5	39		

48	32	45	2 5	40	HIGHLY MIGRATORY, DIFFICULT TO MEASURE MORTALITY	
49	33	44	2 4 5	41	CLIMATIC VARIATION AND LARVAL DURATION	EASILY VISIBLE AND RECOGNISABLE SP.
50	34	46	5	42	NUMBERS CAN VARY GREATLY FROM NIGHT TO NIGHT	EXTREMELY VISIBLE
51	35	47	3	43		
52	35	48	3	44		
53	36	2	5	45	AGAINST COLLECTING LARGE NUMBERS OF HOVERFLIES	POP MON GOOD WITH MALAISE TRAP
54	37	21	5	46		
55	37	15 16	5	47		
56	37	16 15	5	48		
57	38	21	5	49	1. SUPPOSED SELECTIVITY OF SPP. ATTRACTED TO M.V. LIGHTS. 2. DIFFICULTY OF KNOWING OVER WHAT DISTANCES M.V. LIGHTS ATTRACT MOTHS (MANY DIFFERENCES OF OPINION)	EASE OF DETERMINATION. LARGE NO.S OF INDIVIDUALS THAT CAN BE CAUGHT. GOOD RANGE OF SPP. FROM ABUNDANT GENERALIST FEEDERS TO RARE SPECIALISTS (AND OTHER PERMUTATIONS FAIRLY PREDICTABLE FLIGHT PERIODS.
58	39	28	5	50		
59	40	15 16	5	51	CAN BE PRESENT IN VERY LARGE NO.S AND POSE ID PROBLEMS (EG COENAGRION PUELLA/PULCHELLUM ON THIS SITE). LARVAL STAGES DIFFICULT AND MAY INVOLVE DESTRUCTION OF RARE SPP.	LARGE, OBVIOUS INSECTS, DON'T USUALLY NEED TRAPS, PROBABLY GOOD WATER QUALITY INDICATORS.
60	40	16 15	5	52	SEE REC. 59	SEE REC. 59
61	40	16 15	5	53	SEE REC. 59	SEE REC. 59
62	41	28	5	54	MANY FAMILIES DIFFICULT TO MONITOR CONSISTENTLY - POPS FLUCTUATE AND DISCOVERY CAN BE TECHNIQUE/RECORDER DEPENDENT.	CARABIDAE IN PITFALLS AND WATER-BEETLES GOOD FOR MONITORING
63	42	28	5	55		SEVERAL SPECIES ARE EXCELLENT INDICATORS OF HABITAT COMPOSITION AND INDICATORS OF THE ENVIRONMENT
64	43	16 15	4 5	56		
65	44	28 49	5	57		THE OBJECT IS PARTLY TO IDENTIFY RELIABLE GROUPS FOR MONITORING

		50				
		41				
66	45	28	5	58		ARACHNIDS SENT TO THE COUNTY RECORDER, P. HARVEY. THEY LOOK TO BE THE BEST GROUP FOR POP.MON. COLEOPTERA ALSO LOOK PROMISING.
		42				
		39				
		49				
		41				
		4				
67	46	51	2	59	RAPID MOVEMENT ON A DAILY BASIS BY SAME INDIVIDUAL	CALLING BY MALES, LARGE BURROWS IN LATER INSTARS AND ADULTS
			5			
68	47	52	1	60	LARVAE VERY CRYPTIC AND SELDOM ACTIVE IN DAYLIGHT HOURS. OBSERVATIONS OF LARVAE (IF FOUND) IN SITU - VERY TIME CONSUMING.	IMAGINE NO.S EASILY MONITORED AT DUSK - VERY SHORT FLIGHT PERIOD BUT VERY REGULARLY TIMED
			2			
			3			
			5			
69	48	53	2	61		
			5			
70	49	54	5	62	LOCATION OF NESTS WITHOUT DAMAGE TO NEST HARD. DIFFICULT TERRAIN - ADDERS.	
			6			
71	50	27	5	63		READILY CAUGHT AND IDENTIFIED. RESPOND WELL TO CHANGES IN SOIL AND VEGETATION. FEW 'TOURIST' SPP.
72	51	16	5	64	WEATHER AFFECTS RESULTS. VERY MOBILE (MONIT. METHOD IS GOOD FOR COARSE TRENDS, NOT POPULATION PRECISION). MOBILITY IS NOT A DISADVANTAGE. IN FACT GARDENS ARE IDEAL FOR SEEING HOW MOBILE VARIOUS STRAYS FROM THE COUNTRYSIDE CAN BE, AND A BASIS AGAINST WHICH TO VEIW THE MEANING OF LISTS FROM CONSERVATION SITES (LIKELY RESIDENTS, STRAYS ETC).	HOVERFLIES HAVE A VERY VARIED LARVAL BIOLOGY. INCLUDE MIGRANTS. DAY-FLYING, EASY TO SEE, ATTRACTIVE WITH ID BOOK.
		15				
		2				
		23				
73	52	21	2	65	A GENERAL LACK OF INFORMATION RE. THE ID. OF LEPIDOPTERAN LARVAE CAN DELAY FULL INTERPRETATION OF RESULTS UNTIL INDIVIDUALS HAVE BEEN REARED THROUGH TO ADULTS. MOST MOORLAND LEPIDOPTERA LARVAE OCCUR AT VERY LOW DENSITY AND TIMING OF SURVEY CAN BE CRUCIAL TO SHOW PRESENCE.	THE USE OF LARVAE CAN FOCUS ATTENTION ON CHANGES, OR ATTRIBUTES OF A SPECIFIC HOST PLANT.
		31				
74	53	28	2	66		
			5			
75	54	16	5	67	SOME SPP. VERY MOBILE - OTHERS LESS SOME SPP. READILY SEXED - OTHERS MORE DIFFICULT. SOME SPP. MORE CONSPICUOUS.	LARGE, EASILY IDENTIFIED, REASONABLY EASY TO COUNT, RESPOND TO HABITAT CHANGE, DIFFERENT SPP. HAVE DIFFERENT FLIGHT PERIODS.
		15				
76	54	15	5	68	SEE REC. 75	SEE REC. 75

		16				
77	53	21	2	69		
		31	5			
		28				
		4				
78	55	21	5	77		
		31				
79	56	55	2	71	2 MAIN PROBLEMS: 1) SP. ACTIVE AT NIGHT AND HARD TO OBSERVE. 2) VERY LOW RECAPTURE RATE - REASON UNKNOWN	AN INSULATED COLONY OF MOTHS THAT HARDLY FLY
			3			
			5			
80	57	46	2	72	REQUIRES NIGHT EXPLORATION	VERY EASILY SEEN, UNMISTAKABLE, POPULAR APPEAL, APPEAR SENSITIVE TO FACTORS AS YET UNKNOWN
			5			
81	58	57	5	73		
		27				
		4				
		56				
82	58	58	2	73		LARVAE ARE CONSPICUOUS AT NIGHT ON FOODPLANT
83	58	1	5	74		
84	59	1		75		
85	60	59	4	70	SITE DIFFICULT AS EMERGENCE AND FLIGHT CAN TAKE PLACE OVER 0.8HA MOST OF WHICH CANNOT BE REACHED.	NONE
			5			
86	60	60	4	76	DIFFICULTY OF RAPID ID OF FEMALES	NONE
			5			
87	61	61	5	78	ONLY ACTIVE WHEN GRASS WET. CAN'T BE COUNTED UNDER BUSHES ETC. EXACT ESTIMATION OF POP. NOT POSSIBLE.	EASY TO SEE
88	62	16	2	79	I. PUMILIO IS KNOWN TO BE VERY DISPERSIVE AND LARGE NUMBERS PROBABLY MOVE OUT OF THE AREA. MARKING INDIVIDUALS GAVE VERY LOW RECAPTURE.	I. PUMILIO DOES NOT FLY FAR ESPECIALLY IN THE EARLY EVENING. IT LENDS ITSELF READILY TO A TOTAL COUNT OF INDIVIDUALS PRESENT AT THAT POINT IN TIME.
		62	4			
		15	5			
89	63	63	2	80	NOCTURNAL. NOT COUNTABLE IN FROSTY OR EXCEPTIONALLY DRY WEATHER.	LARGE, SLOW-MOVING. HABITAT 2-DIMENSIONAL. MUCUS TRAILS ALLOW AREAS OF ACTIVITY TO BE SEEN EVEN WHEN SLUGS NOT ACTIVE.
		64	5			
90	63	66	1	81	A. DISTINCTUS HARD TO FIND IN DEEP ACID LITTER. BOTH SPP. BURIED DEEP IN FROSTY WEATHER.	A. FLAGELLUS LARGE, MOSTLY BRIGHT COLOURED AND POP. 90% ACTIVE ON WARM, WET EVENINGS.
		65	2			
			5			
			7			
91	63	67	5	82 83	HARD TO ASSESS WHEN PEAK ADULT NO.S OCCUR. NO DATA ON ADULT MOBILITY OR	DAY-ACTIVE. MOST ADULTS ACTIVE ON BARE PEAT SURFACE ON SUNNY DAYS.

					ON LARVAE.	EASILY IDENTIFIED IN THE FIELD.
92	63	68	2 5	84	NOCTURNAL. NEWLY HATCHED IMMATURES SMALL AND EASILY OVERLOOKED.	EASILY SEEN BY TORCHLIGHT-SILVERY!. MOST SEEM ACTIVE ON SUITABLE NIGHTS ALSO READILY FINDABLE (BUT LESS QUANTIFIED) BY DAY.
93	63	69	2 3 5	83 82	V. SMALL. HARD TO FIND UNLESS MOVING. ONLY VERY ACTIVE ON HOT, SUNNY DAYS. SPEND TOO LONG UNDER-GROUND. LARVAE & PUPAE HARD TO FIND FIELD CONDITIONS. HABITAT TOO FRAGMENTED FOR EASY QUANTIFICATION.	NO!
94	63	70	2 5	85	SOME ARE MAINLY SOIL-DWELLING. DIFFERENT SPP. ARE ACTIVE ON SOIL SURFACE AT DIFFERENT TIMES OF NIGHT AND PEAK IN DIFFERENT SEASONS.	MANY SPP. ARE CONSPICUOUS AND PRESENT IN LARGE NUMBERS. ALL ARE IDENTIFIABLE IN FIELD.
95	64	15 16	5	86	ANISOPTERA MORE DIFFICULT TO MONITOR THIS WAY.	ADULT ODONATA EASILY OBSERVED AND IDENTIFIED IN FLIGHT. BREEDING BEHAVIOUR IS EASILY OBSERVED, SO POLLARD WALK GIVES GOOD INDICATION OF THE POP. (ESP. ZYGOPTERA).
96	65	71	2	87	THERE MAY BE LONG-TERM CYCLES IN ABUNDANCE.	LARVAE READILY TO BE FOUND.
97	65	28 4 72	2 5	88	GROUND ACTIVE APPARENTLY AFFECTED BY CHANGING VEGETATION STRUCTURE. MAY BE CYCLICAL CHANGES IN POP. SIZE.	
98	66	15 16	5 7	89		LARGE SIZE, EASY ID, MUCH KNOWN ABOUT THEIR BIOLOGY.
99	67	54 56 4 46	2 5	91	F. TRANSKAUCASICA - RELUCTANCE TO DESTROY NEST OF RARE INVERTEBRATE.	F. TRANSKAUCASICA IS STATIC.
100	68	46	5	92	NO	YES, THE FEMALES ARE CONSPICUOUS AND STATIC.
101	68	46	5	93	NO	YES, FEMALES STATIC AND CONSPICUOUS
102	69	31 21 15 16	5	94	ODONATA: WEATHER DEPENDENCE, SPEED/ ELUSIVENESS. MOTHS - LIGHT TRAP DEPENDS ON WEATHER.	
103	70	75	2 5	95	INUNDATION OF TRAPS! INCONSISTENCY IN TRAPPING SUCCESS WITH AGGREGATED GROUND DWELLING POPS. (ANTS) AND HIGHLY MOBILE SPP. (DIPTERA/WINGED ACULEATES).	CARABIDS/STAPHYLINIDS - FAIRLY LOCALISED AND 'RANDOM' TRAPPING SUCCESS.
104	71	76 15 16	4 5	96		BREEDING SITES QUITE DISTINCT. MORE DETAILED MONITORING COULD EASILY BE UNDERTAKEN.

105	72	78 4 77 28 57	5	97		EASY TO CATCH USING PITFALLS, ECONOMIC ON TIME.
106	73	41	5	98	TOO MOBILE.	HOST SPECIFIC IE. TEPHRITID FLIES. HABITAT SPECIFIC IE. SALT MARSH.
107	73	41	5	75	TOO MOBILE.	HOST SPECIFIC IE. TEPHRITID FLIES HABITAT SPECIFIC - SALT MARSH, (MAIN PLANT ASTER TRIPOLIUM).
108	73	41	5	99	TOO MOBILE	HOST SPECIFIC IE. TEPHRITID FLIES. HABITAT SPECIFIC -SALT MARSH (ASTER TRIPOLIUM).
109	74	28 42 21 41 79 15 16 49	2 3 4 5 6	100	TIME TAKEN IN ID. FEW CAN BE ID WITH CERTAINTY BY SIGHT ALONE. LARGE COLLECTION OF UNIDENTIFIED MATERIAL STILL TO WORK OUT.	THE ORDERS MENTIONED DO IN THAT THEY ARE ASSOCIATED WITH PLANTS (AS NECTAR & VEGETATION FEEDERS) AND EACH OTHER AS PREDATORS & PARASITES
110	75	80 81 82	2 3	101	IMPOSSIBLE TO EXPRESS DENSITY /M SQ BUT CAN DO IT RELATIVE TO TREE SHOOTS. FLYING ADULTS NOT ABLE TO BE SAMPLED.	YES. GALL MIDGES STAY PUT IN THE GALL! ALSO CAN MONITOR ON A SINGLE ANNUAL SAMPLE IF THE LIFE HISTORY AND CAUSES OF MORTALITY ARE KNOWN.
111	76	15 16	4 5	102	YES - SEE ORIGINAL FORM; DETAILED DISCUSSION ABOUT VALUE OF LARVAE OVER ADULTS AS INDICATORS.	YES - SEE ORIGINAL FORM
112	77	83	5 7	103		EASILY SAMPLED, CONVENIENT FOR MEASURING DEMOGRAPHIC PARAMETERS.
113	78	27 46 84 85 86	2 3 5	104		
114	79	87	4	105	UNCERTAINTY OF 2 OR 3 YEAR LIFE CYCLE CAN MAKE IDENTIFICATION OF POOR YEARS DIFFICULT.	SHORT AND SYNCHRONISED EMERGENCE PERIOD.
115	80	42 28	5	107	YES, DUE TO IDENTIFICATION PROBLEMS A LARGE SAMPLE WOULD HAVE TO BE KILLED AND EXAMINED IN THE LAB.	YES.
116	81	88	2 5	108 109 110		
117	2	4	5	111		
118	2	4	5	112		

119	2	4	5	113		
120	2	4	5	114		
121	82	28 21 72 15 39 16 31	5	115		
122	83	74 39 73	2 5	90		HIGH VISIBILITY AND AUDIBILITY OF MANY SPP.
123	84	75	5	116		
124	8	56	6	118 119		ANTS - 'FIXED' NEST SITES FOR CONTINUOUS OBSERVATION & MAPPING & ASSESSMENT OF PHYSICAL FACTORS.
125	85	46	5	120	WORKING IN DARKNESS NOT ALWAYS EASY	FEMALES CLEARLY VISIBLE AT NIGHT OVER FAIR DISTANCES, RELATIVELY SESSILE, FEMALE POPULATION FAIR INDICATOR OF GENERAL POPULATION.
126	86	21 75 16	5	121		
127	87	32	5	122		

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SIT	PAID OR VOLUNTARY	PERSON TYPE	PERSON TYPE OTHER.....	P H W	P H Y	FUNDING	FUNDS
1	1	2 3	2 5	1	VOLUN	6				70.0	NO
2	2	4	5	2	VOLUN	5 6 7	NAT REC SRS, REC YORKS NAT UNI			4.0	NO
3	3	5 6 7 9 10 11 12 13 14 15 16 8	2 5	3	VOLUN	6				5.0	NO
4	4	17 18	5	4	VOLUN	1 6				.2	NO
5	5	15 16	4 5	5	VOLUN	6				.6	NO
6	5	16 15	4 5	6	VOLUN	6				.4	NO
7	6	4	5	7	VOLUN	6				4.0	YES
8	6	4	5	8	VOLUN	6				6.0	NO
9	7	19 20	5	9	VOLUN	1					NO
10	7	20	6	10	VOLUN	1					NO
11	8	16 15 39	5	117	VOLUN	1				10.0	NO
12	9	21	5	11	VOLUN	6				.4	NO
13	10	22	1 4 5	12	PAID	7	UNIVERSITY TEACHER			2.0	NO
14	11	2 24 23	5	13	VOLUN	2 6				3.0	NO

	1
	2
	3
	4
	5

15	11	2	.5	14	VOLUN	5 6			4.5	NO	
16	11	23 2 24 3	5	14	VOLUN	5 6			4.5	NO	
17	11	2 23	5	15	VOLUN	5 6			9.5	NO	
18	12	25	4	16	PAID	2			.6	NO	
19	13	26	2 5	17	VOLUN	6			6.0	NO	
20	14	2 15 16	5 4 2	18	VOLUN	1 3 5 6			30.0	NO	
21	15	27 28	5	19	PAID	1			.2	8.0 YES	6 7
22	15	31 21	5	19	PAID	1			.2	8.0 YES	6 7
23	15	29	2	19	PAID	1			.2	8.0 YES	6 7
24	15	30	2 5	19	PAID	1			.2	8.0 YES	6 7
25	15	27 32	5	20	VOLUN	6			.3	NO	
26	16	33	5	21	VOLUN	6			.4	NO	
27	16	34	2 5	22	VOLUN	6			.1	NO	
28	16	35	1 5	22	VOLUN	6			.1	NO	
29	16	36	1	23	VOLUN	6				2.5 NO	
30	16	37	5	22	VOLUN	6			1.5	NO	
31	17	1	2 3 5	24	PAID	7	ENGLISH NATURE STAFF			NO	
32	18	21 31	5	25	PAID	7	EMPLOYMENT ACTION SCHEME		5.0	250.0 NO	
33	19	38	1 2 3 5	26	PAID	1			10.0	YES	6

34	20	27	5	27	VOLUN	1			100.0	YES		8
35	21	15 16	5	28	PAID	2		5.0		NO		
36	21	21	5	28	PAID	2		5.0		NO		
37	22	21 25 16 39	2 4 5	29	BOTH	2 6			147.0	NO		
38	23	40	1 2 3 4 5	30	VOLUN	1 6				NO		
39	24	21	5	31	VOLUN	6 7	CURATOR, UNIVERSITY BOTANIC GA		200.0	NO		
40	25	28 42 41	5	32	VOLUN	6 7	WRITER/PHOTOGRAPHER	1.0		NO		
41	26	4 43	5	33	VOLUN	5 6			40.0	NO		
42	27	15 16 44	4 5 7	34	VOLUN	6		6.0		NO		
43	28	21	5	35	VOLUN	6		1.0		NO		
44	29	28	5	36	VOLUN	6		6.0		NO		
45	30	21	5	37	PAID	2		2.0	60.0	NO		
46	31	15 16	5	38	VOLUN	2 6		1.0		NO		
47	31	15 16	5	39	VOLUN	6		1.0		NO		
48	32	45	2 5	40	PAID	1		40.0		YES		6
49	33	44	2 4 5	41	PAID	5 6 7	CONSERVATIONIST	4.5	150.0	YES		9
50	34	46	5	42	PAID	2			15.0	NO		
51	35	47	3	43	PAID	1				NO		
52	35	48	3	44	PAID	1				NO		
53	36	2	5	45	VOLUN	1 4 5		8.0		YES		10

					6				
54	37	21	5	46 VOLUN	6		2.0	NO	
55	37	15 16	5	47 VOLUN	6		3.0	NO	
56	37	16 15	5	48 VOLUN	6		3.0	NO	
57	38	21	5	49 PAID	5 MUSEUM CURATOR 7		3.5	NO	
58	39	28	5	50 VOLUN	6		6.0	NO	
59	40	15 16	5	51 PAID	2			30.0 NO	
60	40	16 15	5	52 PAID	2			30.0 NO	
61	40	16 15	5	53 PAID	2		5.0	NO	
62	41	28	5	54 VOLUN	5 6			40.0 NO	
63	42	28	5	55 VOLUN	5			150.0 NO	
64	43	16 15	4 5	56 PAID	2			NO	
65	44	28 49 50 41	.5	57 VOLUN	1 (SPARE TIME RESEARCH)		12.0	NO	
66	45	28 42 39 49 41 4	5	58 PAID	7 LOCAL MUSEUM ASSISTANT CURATOR		.5	NO	
67	46	51	2 5	59 PAID	4 PAID CONSULTANT SINCE INC. ON 6			200.0 YES	
68	47	52	1 2 3 5	60 PAID	2 CONSULTANT: PAUL WARING (EX. N 4			50.0 YES	11
69	48	53	2 5	61 PAID	3			YES	12
70	49	54	5 6	62 PAID	7 RESERVES MANAGER			100.0 YES	13
71	50	27	5	63 PAID	1		3.0	NO	

72	51	16 15 2 23	.5	64	VOLUN	1	SEMI-RETIRED CONSERVATIONIST 6 7	.5	NO				
73	52	21 31	2	65	PAID	1 7	PHD STUDENT	40.0	YES	6			
74	53	28	2 5	66	VOLUN	1 4		3.0	YES	14			
75	54	16 15	5	67	PAID	2		2.0	NO				
76	54	15 16	5	68	PAID	2		2.0	NO				
77	53	21 31 28 4	2 5	69		5							
78	55	21 31	5	77	VOLUN	6		14.0	NO				
79	56	55	2 3 5	71		1	RESEARCH MAJOR PART OF DIPLOMA	25.0	NO				
80	57	46	2 5	72	VOLUN	6			20.0	NO			
81	58	57 27 4 56	5	73	PAID	7	CCW INVERTEBRATE ECOLOGIST		100.0	NO			
82	58	58	2	73	PAID	7	CCW INVERTEBRATE ECOLOGIST		10.0	NO			
83	58	1	5	74	PAID	7	CCW INVERTEBRATE ECOLOGIST		25.0	NO			
84	59	1		75	VOLUN	6	SEE ORIGINAL FORM			NO			
85	60	59	4 5	70	VOLUN	2 6		1.0		NO			
86	60	60	4 5	76	VOLUN	2 6				NO			
87	61	61	5	78	VOLUN	1			2.0	NO			
88	62	16 62 15	2 4 5	79	VOLUN	6		5.5		NO			
89	63	63 64	2 5	80	VOLUN	1		1.0	40.0	YES	15		
90	63	66 65	1 2	81	VOLUN	1 6	UNDERGRADUATE	3.0	81.0	NO			

			5 7			7					
91	63	67	5	82 83	VOLUN	1 6			80.0	NO	
92	63	68	2 5	84	VOLUN	1			.3	NO	
93	63	69	2 3 5	83 82	VOLUN	1			60.0	NO	
94	63	70	2 5	85	VOLUN	1			6.0	NO	
95	64	15 16	5	86	VOLUN	1 6			2.0	YES	9
96	65	71	2	87	PAID	1				NO	
97	65	28 4 72	2 5	88	PAID	1			60.0	NO	
98	66	15 16	5 7	89	VOLUN	1			3.0	72.0 NO	
99	67	54 56 4 46	2 5	91	VOLUN	6			2.5	NO	
100	68	46	5	92	VOLUN	6	DESIGNATED LOCAL SP. RECORDERS		1.5	NO	
101	68	46	5	93	VOLUN	6 7	DESIGNATED LOCAL SP. RECORDERS		1.5	NO	
102	69	31 21 15 16	5	94	PAID	2			10.0	NO	
103	70	75	2 5	95	PAID	1 7	DESKBAND PUBLICATIONS MANAGER/		12.0	YES	17 16
104	71	76 15 16	4 5	96	PAID	2			4.0	NO	
105	72	78 4 77 28 57	5	97	PAID	1			4.0	NO	
106	73	41	5	98	VOLUN	5			40.0	NO	
107	73	41	5	75	VOLUN	5	SITE MANAGEMENT CONSERVATION C		3.0	NO	

				7					
108	73	41	5 99 VOLUN	5			50.0	NO	
109	74	28	2 100 VOLUN	1				NO	
		42	3	6					
		21	4						
		41	5						
		79	6						
		15							
		16							
		49							
110	75	80	2 101 VOLUN	1			80.0	YES	17
		81	3						
		82							
111	76	15	4 102 VOLUN	6	SEVERAL AMATUER NATURALISTS IN		60.0	NO	
		16	5						
112	77	83	5 103 PAID	1			125.0	NO	
			7						
113	78	27	2 104 PAID	1		30.0		YES	18
		46	3	4					
		84	5						
		85							
		86							
114	79	87	4 105 VOLUN	5		7.0	28.0	NO	
				6					
115	80	42	5 107 VOLUN	1		1.0	16.0	NO	
		28		4					
				5					
116	81	88	2 108 PAID	1			75.0	NO	
			5 109	3					
			110	6					
117	2	4	5 111 VOLUN	5			24.0	NO	
				6					
118	2	4	5 112 VOLUN	5			15.0	NO	
				6					
119	2	4	5 113 VOLUN	5			10.0	NO	
				6					
120	2	4	5 114 VOLUN	5			24.0	NO	
				6					
121	82	28	5 115 PAID	5			50.0	NO	
		21							
		72							
		15							
		39							
		16							
		31							

122	83	74	2	90	VOLUN	6	22.5		NO
		39	5						
		73							
123	84	75	5	116	VOLUN	6			NO
124	8	56	6	118	VOLUN	1		100.0	NO
				119					
125	85	46	5	120	VOLUN	2	1.5		NO
126	86	21	5	121	PAID	2			NO
		75							
		16							
127	87	32	5	122	VOLUN	6			NO

05 SEP 1992FORMS

KEY	CON	TAX	STAGES	SIT	STORAGE	COMPUTERIZED	COMPUTER TYPE..	DBMS TYPE.....	TRANSFER MEDIA.	PUBLICATIONS	PUBLICATION TYPE.....	REFS NUMBER
1	1	2	2	1	3	YES	EPSON PCR	SYMANTIC Q & A VERS.	DISK 3.5 5.25	NO		
		3	5		4							
					5							
2	2	4	5	2	3	NO				YES	WLT NEWSLETTERS. LECTURES	1
3	3	5	2	3	3	NO				YES		
		6	5									
		7										
		9										
		10										
		11										
		12										
		13										
		14										
		15										
		16										
		8										
4	4	17	5	4	8	YES				YES		
		18			1							
5	5	15	4	5	3	NO				NO	RECORDS SENT TO ORS & IN ATLAS	
		16	5		8							
6	5	16	4	6	3	NO				NO	RECORDS SENT TO ORS & IN ATLAS	
		15	5		8							
7	6	4	5	7	1	NO				YES	NEWSPAPERS, NAT HIST ANN REP	2
					3							
8	6	4	5	8	3	NO				NO		
9	7	19	5	9	3	NO				YES	PAPERS	3
		20										5

10	7	20	6	10	3	NO			YES	PAPERS	4 3
11	8	16 15 39	5	117	2 3	NO			NO		
12	9	21	5	11	3	YES	OLIVETTI PCS286 SPREADSHEET	DISK 3.5	NO		
13	10	22	1 4 5	12	8	NO			NO		
14	11	2 24 23	5	13	1 3 8	NO			NO		
15	11	2	5	14	1 3 8	NO			NO		
16	11	23 2 24 3	5	14	1 3 8	NO			NO		
17	11	2 23	5	15	3	NO			NO		
18	12	25	4	16	5	YES	IBM COMPATIBLE PPRS	DISK	NO		
19	13	26	2 5	17	3	NO			YES	REQUESTS VIA BDS & EXHIBITION	
20	14	2 15 16	5 4 2	18	3 4	YES	386DX USING WIN SPREADSHEET TO DATAD	DISK, 5.25 3.5	YES	PUBLICITY, INSTRUCTIONS FOR MO	

21	15	27 28	5	19	8	YES	IBM PC	TO BE DECIDED	PROBABLY DISK	YES
22	15	31 21	5	19	8	YES	IBM PC	TO BE DECIDED	PROBABLY DISK	YES
23	15	29	2	19	8	YES	IBM PC	TO BE DECIDED	PROBABLY DISK	YES
24	15	30	2 5	19	8	YES	IBM PC	TO BE DECIDED	PROBABLY DISK	YES
25	15	27 32	5	20	3 8	YES	IBM PC	RECORDER	DISK	NO
26	16	33	5	21	3	NO				NO
27	16	34	2 5	22	3	NO				NO
28	16	35	1 5	22	3	NO				NO
29	16	36	1	23	3	NO				NO
30	16	37	5	22	3	NO				NO
31	17	1	2 3 5	24	5	NO				YES SYMPOSIUM PAPER 6
32	18	21 31	5	25	3 8	YES	IBM PS/2 MODEL	DOS	DISK 3.5	NO
33	19	38	1 2 3 5	26	3 8	YES	IBM COMPATIBLE	DMAP & OTHERS	DISK	NO
34	20	27	5	27	1	YES	APRICOT	RECORDER	DISK	YES PRESS RELEASE & UNPUB. REPORT

35	21	15 16	5	28	3 5	NO			NO
36	21	21	5	28	3 5	NO			NO
37	22	21 25 16 39	2 4 5	29	2	YES	IBM 286	PARADOX 3 IN WINDOWS DISK	NO
38	23	40	1 2 3 4 5	30	2 3 4 8	NO			YES PAPERS 8 10 7 9
39	24	21	5	31	3	NO			NO
40	25	28 42 41	5	32	3	NO			YES PAPER 11
41	26	4 43	5	33	1 3	NO			YES NOTE IN COLEOP. NEWSLETTER 12
42	27	15 16 44	4 5 7	34	3	NO			YES PAPER ON PRELIM OBSERVATIONS A 13
43	28	21	5	35	4	NO			YES PAPER 14
44	29	28	5	36	3	YES	OPUS	USER BUILT: COMPILED DISK	NO
45	30	21	5	37	8	NO			NO
46	31	15 16	5	38	3	YES	386 PC	RECORDER DISK 3.5 5.25	NO

47	31	15 16	5	39	3 YES 5	386 PC	RECORDER	DISK 3.5 5.25	NO	
48	32	45	2 5	40	8 YES	VAX,IBM COMPATI	USER DESIGN		NO	
49	33	44	2 4 5	41	1 NO 2 5 8				YES	AN INITIAL EVALUATION OF MOORS
50	34	46	5	42	3 NO				NO	
51	35	47	3	43	8 NO				YES	FC: REPORT ON FOREST RESEARCH 15
52	35	48	3	44	8 NO				YES	FC: REPORT ON FOREST RESEARCH 16
53	36	2	5	45	1 NO 2 3 4				YES	BOOK 17
54	37	21	5	46	2 NO 3				YES	JOURNAL DERBYSHIRE ENTOMOLOGIC 18
55	37	15 16	5	47	2 NO 3				YES	JOURNAL OF DERBYSHIRE ENTOMOLO 18
56	37	16 15	5	48	2 NO 3				YES	JOURNAL DERBYSHIRE ENTOMOLOGIC 18
57	38	21	5	49	1 YES	IBM COMPATIBLE	RECORDER (PARADOX?)	DISK 3.5	YES	PAPERS, NOTES 21 19 20
58	39	28	5	50	3 NO				NO	
59	40	15	5	51	1 YES	APRICOT	AREV (PPRS)	DISK 3.5	NO	

		16			5 3							
60	40	16 15	5	52	1 YES 3 5	APRICOT	AREV (PPRS)	DISK 3.5	NO			
61	40	16 15	5	53	1 YES 3 5	APRICOT	AREV (PPRS)	DISK 3.5	NO			
62	41	28	5	54	1 YES 3	HP VECTRA	WORD PROCESSED LISTS	DISK	NO			
63	42	28	5	55	3 NO				YES	REPORT/PAPERS	22 23	
64	43	16 15	4 5	56	8 NO				NO			
65	44	28 49 50 41	5	57	3 YES	BBC		DISK	NO			
66	45	28 42 39 49 41 4	5	58	1 NO				NO			
67	46	51	2 5	59	3 YES 5	APPLE MACINTOSH	WORD PROCESSED REPOR	DISK	NO			
68	47	52	1 2 3 5	60	5 NO				YES	PAPERS		

69	48	53	2 5	61	6	NO			NO			
70	49	54	5 6	62	2	YES	EXECUITIVE SL38 CCW COUNTRYSIDE MANA	DISK	NO			
71	50	27	5	63	8	NO			YES	PAPER		24
72	51	16 15 2 23	5	64	3	NO			YES	PAPER		25
73	52	21 31	2	65	8	YES	UNIVERSITY MAIN UNIX		NO			
74	53	28	2 5	66	1 3	YES			NO			
75	54	16 15	5	67	8	NO			NO	10 YEAR REPORT TO FOLLOW		
76	54	15 16	5	68	8	NO			NO			
77	53	21 31 28 4	2 5	69	2 3	YES			YES	MINOR SUMMARIES IN LOCAL REPOR		
78	55	21 31	5	77	1 3	YES	AMSTRAD PC3386 BORLAND SPRINT	DISK 3.5	NO			
79	56	55	2 3 5	71	2 3 8	NO			YES	PAPERS/NOTES		28 27 26
80	57	46	2	72	3	YES	AMSTRAD PPC 640 TEXT FILE (INVESTIGA	DISK 3.5, EMAIL	NO			

			5								
81	58	57	5	73	6	NO	YES	PAPERS	29
		27							30
		4							31
		56							
82	58	58	2	73	6	NO	NO	INTERNAL REPORTS, SUMMARY NOTE	
83	58	1	5	74	6	NO	NO	INTERNAL REPORTS	
84	59	1		75	8	NO	NO		
85	60	59	4	70	3	NO	NO		
			5		4				
					8				
86	60	60	4	76	3	NO	NO		
			5		4				
					8				
87	61	61	5	78	3	NO	NO		
88	62	16	2	79	3	NO	YES	PAPERS	32
		62	4						33
		15	5						
89	63	63	2	80	3	NO	YES	PAPER	34
		64	5						
90	63	66	1	81	3	NO	NO		
		65	2						
			5						
			7						
91	63	67	5	82	3	NO	YES	REPORT	35
				83					
92	63	68	2	84	3	NO	NO		

			5							
93	63	69	2 3 5	83 82	3	NO			YES	REPORT	35
94	63	70	2 5	85	3	NO			YES	PAPER	36
95	64	15 16	5	86	3	YES	AMSTRAD PCW 851	DISK	YES	UNPUBLISHED REPORTS TO EN & LE	
96	65	71	2	87	9	NO			YES	JCCBI/WWF REPORT.	
97	65	28 4 72	2 5	88	9	NO			YES	INTERIM REPORTS. 4 YEAR REPORT	37
98	66	15 16	5 7	89	3	NO			YES	PAPERS. RADIO BROADCAST 1991.	41 40 39 38 42
99	67	54 56 4 46	2 5	91	3	NO			NO		
100	68	46	5	92	8	NO			YES	PUBLICITY AND APPEALS TO RECRU	
101	68	46	5	93	8	NO			YES	PUBLICITY AND APPEALS TO RECRU	
102	69	31 21 15 16	5	94	2	NO			NO		
103	70	75	2	95	3	YES	APPLEMACINTOSH	MS WORKS OR FILMAKER DISK	NO		

			5								
104	71	76	4	96	2	NO				NO	ANNUAL RESERVE REPORTS ONLY.
		15	5								
		16									
105	72	78	5	97	8	YES	IBM	RECORDER	DISK	NO	
		4									
		77									
		28									
		57									
106	73	41	5	98	3	NO				NO	
107	73	41	5	75	3	NO				NO	
108	73	41	5	99	3	NO				NO	
109	74	28	2	100	2	NO				YES	SEE ORIGINAL FORM
		42	3		3						
		21	4								
		41	5								
		79	6								
		15									
		16									
		49									
110	75	80	2	101	3	NO				YES	PAPERS 43
		81	3								44
		82									
111	76	15	4	102	3	NO				YES	ANNUAL REPORT - WIDELY CIRCULA
		16	5								
112	77	83	5	103	8	YES	ICL 9000 MAINFR ASCII FILES FOR SPSS TAPE			YES	PAPERS 45
			7								
113	78	27	2	104	3	YES	AMSTRAD/IBM COM		DISK	NO	
		46	3		8						

		84	5							
		85								
		86								
114	79	87	4 105	3 YES	IBM PC	SPREADSHHET	DISK	YES	PAPER	46
115	80	42	5 107	2 NO				NO		
		28		3						
116	81	88	2 108	8 YES	ACORN A5000	KEY PLUS	DISK	YES	PAPER - BASE LINE DATA ONLY.	47
			5 109							
			110							
117	2	4	5 111	3 NO				NO		
118	2	4	5 112	3 NO				NO		
119	2	4	5 113	3 NO				NO		
120	2	4	5 114	3 NO				YES	BOOK	48
121	82	28	5 115	2 NO				NO		
		21								
		72								
		15								
		39								
		16								
		31								
122	83	74	2 90	3 NO				YES	PAPERS, NOTES.	53
		39	5	8						52
		73								49
										50
										51
123	84	75	5 118	3 NO				YES	NOTES ON SPECIES OF INTEREST.	
				8						
124	8	56	6 118	2 NO				NO		

				119	3			
					8			
					5			
125	85	46	5	120	3	NO	NO	
					5			
126	86	21	5	121	1	NO	NO	(WARDENS ANNUAL REPORT).
		75			2			
		16						
127	87	32	5	122	3	NO	YES	

LOCATION OF ALL MONITORING SITES

%F1
%SA PERSONAL/QUESTIONNAIRE
%SB LITERATURE
%SN BOTH
1 16 02 A
1 21 20 B
1 23 21 A
1 23 49 A
1 23 68 B
1 24 50 A
1 24 56 A
1 25 37 N
1 25 66 B
1 25 67 B
1 26 29 A
1 26 37 A
1 26 85 A
1 27 27 A
1 30 17 B
1 30 32 A
1 30 49 B
1 31 70 A
1 32 35 A
1 32 55 A
1 32 56 A
1 32 64 B
1 32 72 B
1 34 33 A
1 35 15 A
1 35 17 A
1 35 73 A
1 36 50 B
1 36 53 B
1 37 27 A
1 37 36 B
1 37 41 A
1 37 53 B
1 39 08 B
1 39 32 A
1 40 38 A
1 40 41 A
1 40 54 A
1 40 83 A
1 41 09 A
1 41 10 A
1 41 39 A
1 41 56 A
1 42 35 A
1 42 36 A
1 42 36 A
1 42 54 N
1 43 08 A
1 43 32 B
1 43 33 A
1 43 35 A
1 43 44 B
1 43 53 A
1 44 08 A

1 44 09 A
1 44 13 B
1 44 16 B
1 44 20 B
1 44 47 A
1 45 08 A
1 45 28 B
1 45 29 B
1 45 33 A
1 45 35 A
1 45 40 A
1 45 41 A
1 45 44 A
1 45 45 A
1 46 12 A
1 46 17 A
1 46 29 B
1 46 30 N
1 46 31 B
1 46 37 A
1 46 40 A
1 46 43 N
1 46 46 A
1 47 24 A
1 47 40 A
1 47 41 A
1 48 11 A
1 48 14 A
1 48 15 A
1 48 17 A
1 48 19 A
1 48 20 A
1 49 11 A
1 49 14 A
1 49 16 B
1 49 18 A
1 49 50 B
1 49 51 B
1 50 10 A
1 50 14 B
1 50 18 A
1 50 22 A
1 51 10 A
1 51 11 A
1 51 15 N
1 51 29 A
1 51 30 B
1 52 11 A
1 52 18 A
1 52 27 A
1 52 28 B
1 53 13 A
1 53 17 A
1 53 26 N
1 53 27 A
1 54 10 A
1 54 19 B
1 55 15 A
1 56 32 A
1 57 27 B

1 57 28 B
1 58 29 A
1 59 11 A
1 59 18 A
1 60 14 A
1 60 15 A
1 60 16 A
1 64 31 A
1 64 32 A
2 32 35 A