THE UPPER PALAEOLITHIC OF BRITAIN

A Study of British Upper Palaeolithic Cultural Material and its Relation to Environmental and Chronological Evidence

by

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V O L U M E I I

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St. John's College

Michaelmas Term, 1971

RADIOCARBON AGES FOR THE BRITISH UPPER PALAEOLITHIC AND "BRACKETING" INDUSTRIES

Age (Yrs B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
(C=Contaminated; *=Figured; S=Solid Carbon)							
			?MIDDLE PALAEOLITHIC ("Handaxe Mousterian")				
47,000±1500 ?C	*GrN-2649	black ash	"lower" industry	La Cotte de St.Brelade	Jersey	-	1
>40,000	*BM-601	charcoal (derived from underlying sand A)	sandy scree B/A	Robin Hood's Cave	Derbyshire	SK534742	2
			EARLIER UPPER PALAEOLITHIC ("Aurignacian/Proto-Solutrean") (Av. 28,440 yrs B.P., N=2)				
28,720±450	*GrN-6202	bone (Ursus arctos)	"cave earth" A2	Kent's Cavern Gallery	Devonshire	SX934641	3
28,160±435	*GrN-6201	bone (Coelodonta antiquitatis)	"cave earth" A2	Kent's Cavern Great Chamber	Devonshire	SX934641	3
>18,000	*BM-497	bone (including Lutra)	silty sand A2	Badger Hole	Somerset	ST532479	4
			?EARLIER UPPER PALAEOLITHIC (Av. 21,653 yrs B.P., N=3)				
28,500 +1600 -1300	*BM-602	bone (intrusive, Ursus arctos)	tip E/sharp scree USB	Robin Hood's Cave	Derbyshire	SK534742	2
18,460±340	*BM-374	bone (Homo sapiens, "Red Lady")	red ochre	Paviland Cave	Glamorganshire	SS437859	5,6
18,000 +1400 -1200	*Birm-146	bone (Mammuthus?)	"cave earth" below tills	Cae Gwyn/ Ffynnon Beuno Caves	Flintshire	SJ085725	7
4,120±140 C	BM-437	charcoal	"Aurignacian/Mousterian"	Pin Hole	Derbyshire	SK533741	6
			E.U.P. and ?E.U.P. mean and S.D. 24,368±5017 yrs B.P., N=5				
			LATER UPPER PALAEOLITHIC ("Creswellian/Cheddarian") (Av. 11,169 yrs B.P., N=8)				
14,275±120	*GrN-6203	bone (Ursus arctos)	"cave earth" B2, "black band"	Kent's Cavern Vestibule	Devonshire	SX934641	3
12,378±150	*BM-524	bone (Ursus arctos)	sharp scree B2-7	Sun Hole	Somerset	ST467541	4
12,180±100	*GrN-6204	bone (Megaloceros giganteus)	"cave earth" B2	Kent's Cavern Vestibule	Devonshire	SX934641	3
10,590±90	*BM-604	bone (Equus przewalskii)	sharp scree ISB	Robin Hood's Cave	Derbyshire	SK534742	2
10,390±90	*BM-603	bone (E. przewalskii)	sharp scree OB	Robin Hood's Cave	Derbyshire	SK534742	2
9,940±115	*BM-440A	bone (including Rangifer)	basal sand(LSB)	Dead Man's Cave	Yorkshire	SK528835	8,9
9,850±115	*BM-439	bone (including R.)	basal sand(LSB)	Dead Man's Cave	Yorkshire	SK528835	8,9
9,750±110	*BM-440B	antler (Rangifer tarandus)	?basal sand (LSB)	Dead Man's Cave	Yorkshire	SK528835	8,9
			?LATER UPPER PALAEOLITHIC (Av. 8,799 yrs B.P., N=5)				
10,413±210	*Q-66	mud	low Zone III mud above backed tool	Flixton Site 2	Yorkshire	TA028807	10
9,080±150	*BM-525	bone (Homo sapiens, "Cheddar Man")	"cave earth"	Gough's Cave	Somerset	ST467539	4,11
8,800±300	*Q-551	charcoal & nuts (including Corylus)	sharp scree B	Mother Grundy's Parlour	Derbyshire	SK536743	12
8,100±50	*GrN-5393	stalagmite	inside Homo skull	Aveline's Hole	Somerset	ST476587	11

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RADIOCARBON AGES FOR THE BRITISH UPPER PALAEOLITHIC AND "BRACKETING" INDUSTRIES (contd)

Age (Yrs B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
(C=Contaminated; *=Figured; S=Solid Carbon)							
		?LATE UPPER PALAEOLITHIC (contd)					
7,602±140	*Q-552	charcoal & nuts (including Corylus)	interface C/B	Mother Grundy's Parlour	Derbyshire	SK536743	12
3,910±120 C	BM-438	charcoal	"Developed Aurignacian"	Pin Hole	Derbyshire	SK533741	6
3,460±150 ?C	BM-225	charcoal	"late-glacial" (really Mesolithic and later)	Phillips II site	Suffolk	TL703787	6
3,440±150 ?C	BM-226	charcoal	"late-glacial" (really Mesolithic and later)	Phillips II site	Suffolk	TL703787	6
3,355±85 ?C	GrN-6221A	peaty sand (extract)	interface B2/1	Hengistbury Head, C2	Hampshire	SZ178904	3
3,150±335 ?C	GrN-6221B	peaty sand	interface B2/1	Hengistbury Head, C2	Hampshire	SZ178904	3
2,765±70 ?C	GrN-6220	organic sand (extract)	silty sand B2	Hengistbury Head, C2	Hampshire	SZ178904	3
		LUP and ?LUP mean and S.D. 10,258±1759 yrs B.P., N=13					
		EARLIER MESOLITHIC ("Proto-Maglemosian") (Av. 9,778 yrs B.P., N=8)					
10,365±170	*Q-659	charcoal	hearth	Thatcham Site 3	Berkshire	SU503667	13
10,030±170	*Q-658	wood & nuts (Corylus)	hearth	Thatcham Site 3	Berkshire	SU503667	13
9,840±160	*Q-651	wood (Betula & Pinus)	Zone IV marl	Thatcham Site 5	Berkshire	SU502668	13
9,780±160	*Q-677	wood	Zone VI marl	Thatcham Site 5	Berkshire	SU502668	13
9,670±160	*Q-650	wood	Zone V marl	Thatcham Site 5	Berkshire	SU502668	13
9,557±210	*Q-14	wood	platform	Star Carr	Yorkshire	TA028810	10
9,490±160	*Q-652	wood (Pinus)	Zone VIa marl	Thatcham Site 5	Berkshire	SU502668	13
9,488±350 S	*C-353	wood	platform	Star Carr	Yorkshire	TA028810	14
8,100±180 ?C	BM-65	charcoal	layer 2	Thatcham Site 2	Berkshire	SU502668	15

Sources:

1. (Vogel & Waterbolk, 1963)
2. (present author & R. Burleigh, personal communication)
3. (present author & W.G. Mook, personal communication)
4. (Campbell, 1970; R. Burleigh, personal communication)
5. (Oakley, 1968)
6. (Barker, Burleigh & Meeks, 1969)
7. (Rowlands, 1971)
8. (Mellars, 1969)
9. (White, 1970)
10. (Godwin & Willis, 1959)
11. (Oakley, 1971)
12. (Godwin & Willis, 1962)
13. (Godwin & Willis, 1964)
14. (Arnold & Libby, 1951)
15. (Barker & MacKey, 1960)

RADIOCARBON AGES FOR THE BRITISH LAST GLACIAL

Age (yrs.B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
(C=Contaminated; *=Figured; S=Solid Carbon)							
			CHELFORD INTERSTADIAL (60,800 ± 1500 yrs. B.P., N=1)				
60,800 ± 1500	GrN-1475	wood (Picea)	mud in Middle Sands	Chelford	Cheshire	SJ812731	1
>52,000	GrN-1292	wood (P.)	mud in Middle Sands	Chelford	Cheshire	SJ812731	1
47,000 $^{+2300}_{-1800}$?C	Birm-157	wood (Pinus sylvestris)	mud in Middle Sands	Chelford	Cheshire	SJ812731	2
>36,500	L-387A	wood	mud in Middle Sands	Chelford	Cheshire	SJ812731	3
32,850 ± 480 C	Hv-1978	humate	mud in Middle Sands	Chelford	Cheshire	SJ812731	2
26,200 ± 390 C	Hv-1979B	humate	mud in Middle Sands	Chelford	Cheshire	SJ812731	2
			EARLY LAST GLACIAL COOL PHASE				
>45,000	*Birm-86	plant	peaty silt in gravels	Earith	Huntingdonshire	TL390763	4
>43,500	*Birm-74	plant	silt in gravels	Four Ashes	Staffordshire	SJ916082	2
>40,000	*Q-740	plant	mud in gravels	Broome Heath	Norfolk	TM347915	5
>40,000	*Birm-93	antler (Rangifer tarandus)	gravel below till	Kilmaurs	Ayrshire	NS410410	2
29,500±1500 C	Q-657	plant & mud	mud in gravels	Broome Heath	Norfolk	TM347915	5
13,700 $^{+1700}_{-1300}$ C	GX-0634	tusk (Mammuthus primigenius)	gravel below till	Kilmaurs	Ayrshire	NS410410	2,6
			UPTON WARREN INTERSTADIAL (Av. 42,323 yrs. B.P., N=4)				
42,530 $^{+1345}_{-1115}$	*Birm-56	plant	peaty silt in gravels	Four Ashes	Staffordshire	SJ916082	7
42,520±1300	*GrN-595	mud	mud in gravels	Upton Warren	Worcestershire	SO935673	1
42,140 $^{+1890}_{-1530}$	*Birm-88	plant	peaty silt in gravels	Earith	Huntingdonshire	TL385748	4
42,100±800	*GrN-1245	mud	mud in gravels	Upton Warren	Worcestershire	SO935673	1
>40,000	*GrN-1063	humate	mud in gravels	Upton Warren	Worcestershire	SO935673	1
>38,350	*Y-311A	mud	mud in gravels	Upton Warren	Worcestershire	SO935673	8
34,250 $^{+1550}_{-1300}$?C	*Birm-114A	F.W.shell (inn.) (Bithynia tentaculata)	silty clay over kame	Trysull	Staffordshire	SO848946	2
>34,000	*Birm-114C	F.W.shell (out.) (B. tentaculata)	silty clay over kame	Trysull	Staffordshire	SO848946	2
>25,000	*Birm-114B	F.W.shell (mid.) (B. tentaculata)	silty clay over kame	Trysull	Staffordshire	SO848946	2
			?LAST GLACIAL INTERSTADIAL MARINE BEACHES (Av. 36,115 yrs. B.P., N=2)				
>40,800	*NPL-115	shell (Balanus balanoides)	rock platform	Braunton Burrows	Devonshire	SS445375	9
38,990 $^{+1690}_{-1390}$	*NPL-126A	shell(inn.)	raised beach (+3m)	Middle Hope	Somerset	ST321660	9
>38,000	*W-1426	shell	gravel on platform	Shippersea Bay	Durham	NZ440430	10
33,240 $^{+760}_{-700}$	*NPL-126B	shell(out.)	raised beach (+3m)	Middle Hope	Somerset	ST321660	9
22,796±827 C	Birm-46C	shell(inn.) (Patella)	raised beach (+8m)	Fall Bay	Glamorganshire	SS414873	7
21,815±629 C	Birm-46B	shell(mid.) (P.)	raised beach (+8m)	Fall Bay	Glamorganshire	SS414873	7

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RADIOCARBON AGES FOR THE BRITISH LAST GLACIAL (contd)

Age (yrs B.P.)	Sample No.	Material	Deposit	Site	County	Grid.Ref.	Source
(C=Contaminated; *=Figured; S=Solid Carbon)							
			MIDDLE LAST GLACIAL COLD PHASE (Av. 31,742 yrs B.P., N=13)				
$38,600^{+1720}_{-1420}$	*NPL-163B	tusk (Mammuthus primigenius)	silt in gravels	Oxbow	Yorkshire	SE362300	9
$38,200 \pm 700$?C	*GrN-1269	peaty mud	peaty erratic	Fladbury	Worcestershire	SO975468	1
$37,420^{+1670}_{-1390}$	*Birm-78	plant	silt in gravels	Syston	Leicestershire	SK609112	4
$36,340^{+770}_{-700}$	*Birm-24	plant	peaty silt in gravels	Four Ashes	Staffordshire	SJ916082	7
$36,300^{+2160}_{-1700}$	*Birm-161A	peat	peat in silt under till	Scandal Beck	Westmorland	NY743024	2
$32,270^{+1029}_{-971}$	*Birm-10	plant	peaty silt in gravels	Brandon	Warwickshire	SP391753	7
$32,160^{+1780}_{-1450}$?C	*NPL-55	peaty mud	peaty silt in gravels	Coleshill	Warwickshire	SP202911	11
$30,766^{+551}_{-520}$	*Birm-27	plant	peaty silt in gravels	Brandon	Warwickshire	SP391753	7
$30,655^{+765}_{-700}$	*Birm-25	plant	peaty silt in gravels	Four Ashes	Staffordshire	SJ916082	7
$30,500^{+1170}_{-1030}$	*Birm-166	plant	sand between tills	Derryvree	Fermanagh		2
>30,300	*NPL-163C	tusk (Mammuthus primigenius)	silt in gravels	Oxbow	Yorkshire	SE362300	9
$29,450 \pm 350$	*GrN-4630	bone (Coelodonta antiquitatis)	silty clay	Lloyds Site	London	TQ332811	12
$28,230 \pm 330$	*Birm-75	peaty mud	peaty silt in gravels	Great Billing	Northamptonshire	SP617826	4
$28,200 \pm 500$	*NPL-87	plant (Betula nana)	peaty silt in gravels	Brandon	Warwickshire	SP391753	13
$28,140^{+480}_{-450}$	*NPL-78	podzol	podzol under outwash	Teindland	Morayshire	NJ299566	14
$28,000 \pm 1500$?C	*Q-25	plant	"Arctic Plant Bed"	Lea Valley	London	TL3-5 0-1	15
>25,800	*Birm-161B	humate	peat in silt under till	Scandal Beck	Westmorland	NY743024	2
$25,780 \pm 865$	*Birm-113	plant	silt in gravels	Thrapston	Northamptonshire	SP988805	2
>20,000 S	*C-479	plant	"Arctic Plant Bed"	Lea Valley	London	TL3-5 0-1	16
$19,500 \pm 650$?C	*Q-590	plant	marl in gravels	Barnwell	Cambridgeshire	TL472596	5
$10,560 \pm 142$ C	NPL-56	plant	peaty silt in gravels	Whitacre Heath	Warwickshire	SP212924	11
$10,530 \pm 156$ C	NPL-27C	peaty mud	peaty silt in gravels	Minworth	Warwickshire	SP167917	17
			FULL LAST GLACIAL MAXIMUM ICE ADVANCE (Av. 18,247 yrs B.P., N=3)				
$18,000^{+1400}_{-1200}$	*Birm-146	bone (Mammuthus?)	"cave earth" below tills	Cae Gwyn/ Ffynnon Beuno	Flintshire	SJ085725	18
$18,500 \pm 400$	*I-3372	plant (Bryum)	silts below tills	Dimlington	Yorkshire	TA393217	19
$18,240 \pm 250$	*Birm-108	plant (B.)	silts below tills	Dimlington	Yorkshire	TA393217	4
$15,080 \pm 850$?C	*St-1757	mud	lake sediment	Lower Loch of Brouster	Shetland	HU220495	20
			GLACIALLY DERIVED MATERIAL (Shell Av. 31,713 yrs B.P., N=8) (Non-shell Av. 27,240 yrs B.P., N=5)				
>54,300	GrN-5281	wood	Irish Sea till	Aber-mawr	Pembrokeshire	SM883347	21
>41,200	*NPL-88	peat (Last Interglacial pollen zone III)	peat in outwash	Austerfield	Yorkshire	SK665945	13
>41,100	*I-2135	shell	gravel under till	Berwick	Northumberland	NT982532	6
>40,300	*NPL-98	wood	Irish Sea till	Aber-mawr	Pembrokeshire	SM883347	13
>39,900	*I-2802	mud (Tertiary pollen)	silt in outwash	Banc-y-warren	Cardiganshire	SN202482	19
>38,000	*Birm-60	shell	kame-kettle complex	Great Ryton	Shropshire	SJ490035	4
$37,960^{+1700}_{-1400}$	*NPL-80	shell	outwash	Mullock Bridge	Pembrokeshire	SM811080	14
$37,310^{+1515}_{-1275}$	*NPL-97	shell	outwash	Tre-llys	Pembrokeshire	SM893049	13
>36,000	*I-1687	shell	Irish Sea till	Druidston	Pembrokeshire	SM862173	22

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RADIOCARBON AGES FOR THE BRITISH LAST GLACIAL (contd)

Age (Yrs B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
			GLACIALLY DERIVED MATERIAL contd.				
$33,750^{+2500}_{-1900}$	*I-2564	wood	outwash	Cil-maenllwyd	Cardiganshire	SN203482	19
$33,740^{+2100}_{-1800}$	*I-2803	shell	gravel between tills	Moel Tryfaen	Caernarvonshire	SH520560	19
$31,840^{+1660}_{-1360}$	*I-2939	shell	kame complex	Buildwas	Shropshire	SJ635040	19
$31,800^{+1800}_{-1200}$	*I-3273	shell	outwash	Porth Dinllaen	Caernarvonshire	SH277410	23
$31,800^{+1400}_{-1200}$	*I-2559	peaty mud	silt in outwash	Banc-y-warren	Cardiganshire	SN202482	19
>30,300	*I-1910	shell (Turitella and Macoma)	basal gravel lenses	Bride Moraine	Isle of Man	NX458995	22
29,000±1200	*I-3262	shell	"lower" till	Porth Neigwl	Caernarvonshire	SH290255	23
$28,000^{+1800}_{-1500}$	*I-1667	shell (Nucella lapillus)	sands in till complex	Sandiway	Cheshire	SJ605708	22
$27,550^{+1370}_{-1680}$	*OX-	bone (Coelodonta antiquitatis)	sandy outwash?	Bishopbriggs	Lanarkshire	NS601723	6
$26,270^{+2170}_{-1710}$	*I-2800	mud	silt in kame complex	Ellesmere	Shropshire	SJ342350	19
24,050±650	*I-3268	shell	lower of two tills	Glastry Claypit	Down		19
16,830±970	*I-2801	peaty mud	outwash	Bryncir Moraine	Caernarvonshire	SH480447	19
11,730±770 ?C	Birm-82	plant (moss)	outwash	Orleton	Herefordshire	SO497677	2
			ENGLISH AND WEISH LATE LAST GLACIAL ZONE I (Av. 12,926 yrs B.P., N=10)				
14,305±230	*Q-758	mud	Zone Ia mud	Blelham Bog	Lancashire	NY365006	5
13,560±210 ?C	*Q-385	wood (conifer and Salix)	?Zone Ia peat erratic	Colney Heath	Hertfordshire	TL190050	15
13,555±620	*Birm-149	plant	Zone Ia clay	Church Stretton	Shropshire	SO456941	2
13,450±220	*I-3596	mud	?Zone Ib mud	Blelham Bog	Lancashire	NY365006	24
13,190±230	*Q-473	mud	Zone Ib soil	Holborough	Kent	TQ702626	25
12,950±240 ?C	Q-836	wood (derived Corylus)	?Zone Ib into VIII	North Ferriby	Yorkshire	SE991252	26
12,850±250	*Birm-55	antler (derived Megaloceros giganteus)	?Zone Ib into IV/III	Brandesburton	Yorkshire	TA133467	4
12,650±170	*I-3590	mud	?Zone II/I mud	Blelham Bog	Lancashire	NY365006	24
12,500±190	*I-3589	mud	?Zone Ic mud	Blelham Bog	Lancashire	NY365006	24
12,460±190	*I-3591	mud	?Zone II/I mud	Blelham Bog	Lancashire	NY365006	24
12,160±140	*Birm-127	peat	Zone II/I peat	Red Moss	Lancashire	SD632102	2
12,135±200	*Birm-158	plant	Zone II/I peat	Church Stretton	Shropshire	SO456941	2
			ENGLISH AND WEISH LATE LAST GLACIAL ZONE II (Av.11,356 yrs B.P., N=30)				
12,870±180 C	Q-238	plant	Zone II peat	Aby Grange	Lincolnshire	TF429798	26
12,810±180 ?C	*Q-71	mud	Zone II mud	St. Bees	Cumberland	NX950120	26
12,050±180	*I-3593	mud	?low Zone II mud	Blelham Bog	Lancashire	NY365006	24
12,000±200	*I-3592	mud	?low Zone II mud	Blelham Bog	Lancashire	NY365006	24
11,980±180	*Q-664	mud	low Zone II mud	Port Talbot Bore 4	Glamorganshire	SS728920	5
11,950±120	*Q-57	mud	low Zone II mud	Lunds	Yorkshire	SD790952	26
11,944±210	*Q-463	charcoal	Zone II soil	Dover Hill	Kent	TR241377	25
11,900±540	Birm-106	shell (mainly Cardium & Mytilus)	?Zone II silty clay (-19m)	Oaze Deep	Thames Estuary		2
11,900±160	*Q-618	mud	Zone II soil	Brook	Kent	TR074440	27
11,878±120	*Q-284	mud	Zone II mud	Low Wray Bay	Westmorland	NY380010	26
11,790±140	*NPL-81	peat	Zone II peat	Church Stretton	Shropshire	SO459939	14

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RADIOCARBON AGES FOR THE BRITISH LAST GLACIAL (contd)

Age (Yrs B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
11,740±170	*I-3261	peat	?Zone II peat	Glanllynnau	Caernarvonshire	SH457374	23
11,660±250	*Birm-131	plant	?low Zone II peat	Pillaton Hall	Staffordshire	SJ941130	2
11,580±140	*Birm-118	plant	?mid Zone II peat	Penkridge	Staffordshire	SJ924143	2
11,561±250	*Q-208	mud	mid Zone II mud	Neasham	Durham	NZ340100	26
11,450±180	*I-3595	mud	?mid Zone II mud	Blelham Bog	Lancashire	NY365006	24
11,430±170	*I-3594	mud	?mid Zone II mud	Blelham Bog	Lancashire	NY365006	24
11,260±170	*Q-665	mud	mid Zone II mud	Port Talbot Bore 4	Glamorganshire	SS728920	5
11,250±100	*Birm-105	peat	?mid Zone II silt	Northmoor	Oxfordshire	SP419041	2
11,205±120	*Q-279	peat	mid Zone II peat	Aby Grange	Lincolnshire	TF429798	26
11,200±160	*I-3120	mud	?Zone II mud	Aberaeron	Cardiganshire	SN462633	19
11,071±180	*Q-2	peat	mid Zone II peat	Hawks Tor	Cornwall	SX145755	26
11,048±376	*Birm-9	peat	high Zone II peat	Church Stretton	Shropshire	SO459939	7
11,011±230	*Q-207	peat	high Zone II peat	Neasham	Durham	NZ340100	26
11,000±200	*Birm-148	plant	high Zone II clay	Church Stretton	Shropshire	SO456941	2
10,851±630 S	*C-444	mud	Zone II mud	Neasham	Durham	NZ340100	16
10,850±120	*Birm-128	peat	high Zone II peat	Red Moss	Lancashire	SD632102	2
10,780±162	*NPL-16	peat	Zone III/II peat	Wybunbury	Cheshire	SJ710490	11
10,760±140	*Q-92	mud	high Zone II mud	Helton Tarn	Lancashire	SD420830	26
10,705±207	*Q-147-148	mud	high Zone II mud	Scaleby Moss	Cumberland	NY431635	26
10,700±190	*N-488	peat	Zone III/II peat	East Moor Bore	Yorkshire	SE585630	28
10,600±120	*Q-61	mud	high Zone II mud	Lunds	Yorkshire	SD790952	26
10,430±200	*Q-304	wood	high Zone II mud	St. Bees	Cumberland	NX950120	15
9,861±500 S?C	*C-341	peat	mid Zone II peat	Hawks Tor	Cornwall	SX145755	16
9,720±140 ?C	*GL-27	peat	mid Zone II peat	Hawks Tor	Cornwall	SX145755	30,31
7,590±120 C	Q-217	mud	low Zone II mud	Moss Lake	Lancashire	SJ375915	26
7,550±120 C	Q-220-221	"humus" (intrusive)	low Zone II mud	Moss Lake	Lancashire	SJ375915	26
7,300±120C	Q-218	mud	low Zone II mud	Moss Lake	Lancashire	SJ375915	26
		ENGLISH AND WELSH LATE LAST GLACIAL ZONE III (Av. 10,442 yrs B.P., N=11)					
10,835±185	*Q-144	mud	low Zone III mud	Scaleby Moss	Cumberland	NY431635	26
10,670±130	*Y-464	mud	low Zone III mud	Rodbaston Hall	Staffordshire	SJ928110	8
10,650±170	*I-3597	mud	?Zone III mud	Blelham Bog	Lancashire	NY365006	24
10,530±120	*NPL-103	mud	high Zone III mud	Channel Bore P3	Strait of Dover	TR385393	13
10,490±160	*I-3598	mud	?Zone III mud	Blelham Bog	Lancashire	NY365006	24
10,413±210	*Q-66	mud	low Zone III mud	Flixton Site 2	Yorkshire	TA028807	26
10,350±170	*Q-660	plant	Zone IV/III peat	Port Talbot Bore 19	Glamorganshire	SS728920	5
10,325±215	*Q-153	mud	high Zone III mud	Scaleby Moss	Cumberland	NY431635	26
10,264±350	*Q-151	mud	Zone IV/III mud	Scaleby Moss	Cumberland	NY431635	26
10,200±200	*Q-972	mud	Zone IV/III mud	Scaleby Moss	Cumberland	NY431635	29
10,130±120	*Birm-101	plant	?Zone III peaty silt	Beddington Park	Surrey	TQ292652	4
8,190±180 ?C	Q-3	mud (?intrusive)	Zone III gravels	Hawks Tor	Cornwall	SX145755	26
		ENGLISH AND WELSH POST LAST GLACIAL ZONE IV (Av. 9,834 yrs. B.P., N=9)					
10,300±170	*Birm-92	peat	low Zone IV peat	Rodbaston Hall	Staffordshire	SJ928110	2
10,160±193	*Q-152	mud	low Zone IV mud	Scaleby Moss	Cumberland	NY431635	26
9,920±120	*NPL-101	peat	low Zone IV peat	Channel Bore P3	Strait of Dover	TR385393	13
9,920±170	*Q-661	plant	Zone V/IV peat	Port Talbot Bore 19	Glamorganshire	SS728920	5
9,800 +700 −650	Birm-124A	woody peat	low Zone IV peat	Red Moss	Lancashire	SD632102	2
9,798±200	*Q-924	peat	mid Zone IV peat	Red Moss	Lancashire	SD631103	29
9,586±200	*Q-923	peat	high Zone IV peat	Red Moss	Lancashire	SD631103	29
9,564±209	*Q-154	peat	Zone V/IV peat	Scaleby Moss	Cumberland	NY431635	26

contd....

Table 20 (contd)

RADIOCARBON AGES FOR THE BRITISH LAST GLACIAL (contd)

Age (Yrs B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
		ENGLISH AND WELSH POST LAST GLACIAL ZONE IV (contd)					
9,508±200 ?C	Q-925	mud	low Zone IV mud	Red Moss	Lancashire	SD631103	29
9,456±200	*Q-922	peat	Zone V/IV peat	Red Moss	Lancashire	SD631103	29
		ENGLISH AND WELSH POST LAST GLACIAL ZONE V (Av. 9,378 yrs B.P., N=2)					
9,747±183	*Q-155	peat	low Zone V peat	Scaleby Moss	Cumberland	NY431635	26
9,009±194	*Q-161	peat	Zone VIa/V peat	Scaleby Moss	Cumberland	NY431635	26
		IRISH LATE LAST GLACIAL ZONE I (Av. 12,030 yrs B.P., N=2)					
12,110±190	*Q-360	mud	high Zone I clay	Roddan's Port	Down		5
11,950±190	*Q-358	mud	Zone II/I mud	Roddan's Port	Down		5
		IRISH LATE LAST GLACIAL ZONE II (Av. 11,416 yrs B.P., N=8)					
14,367±300 C	Q-16	mud	Zone II mud	Knocknacran	Monaghan		26
12,090±190	*Q-361	mud	low Zone II mud	Roddan's Port	Down		5
11,840±190	*Q-359	mud	low Zone II mud	Roddan's Port	Down		5
11,770±190	*Q-364	mud	high Zone II mud	Roddan's Port	Down		5
11,480±150	*Q-365	mud	Zone III/II mud	Roddan's Port	Down		5
11,450±190	*Q-363	mud	mid Zone II mud	Roddan's Port	Down		5
11,390±190	*Q-362	mud	low Zone II mud	Roddan's Port	Down		5
11,310±720 S	*C-355	mud	Zone II mud	Knocknacran	Monaghan		16
11,310±720 S	C-	mud	Zone II mud	Ballinamore	Leitrim		32
11,060±250	*D-32	mud	Zone II mud	Ballynaclash	Wexford		33
10,250±350	*LJ-658	antler (Rangifer tarandus)	Zone II/I mud	Roddan's Port	Down		34
		IRISH LATE LAST GLACIAL ZONE III (Av. 10,793 yrs B.P., N=2)					
11,515±170	*Q-369	mud	low Zone III mud	Roddan's Port	Down		5
10,070±150	*Q-370	mud	Zone IV/III mud	Roddan's Port	Down		5
		IRISH POST LAST GLACIAL ZONE IV (Av. 9,923 yrs B.P., N=3)					
11,787±700 SC	*C-356	mud	Zone IV mud	Lagore	Meath		35
10,210±150	*Q-368	peat	mid Zone IV peat	Roddan's Port	Down		5
10,130±170	*Q-371	peat	low Zone IV peat	Roddan's Port	Down		5
9,430±150	*Q-366	peat	Zone V/IV peat	Roddan's Port	Down		5
		IRISH POST LAST GLACIAL ZONE V					
9,090±150	*Q-367	peat	Zone VI/Vpeat	Roddan's Port	Down		5
		SCOTTISH AND MANX LATE LAST GLACIAL ZONE I (Av. 12,493 yrs B.P., N=5)					
12,940±250	*Q-643	wood (Juniperus)	Zone Ib peaty silt	Roberthill	Dumfriesshire	NY110797	5
12,814±155	*Q-457	plant	Zone Ib peaty silt	Loch Droma	Ross & Cromerty	NH252752	25
12,290±250	*Q-816	peat	?Zone II/I peat	Redkirk Point	Dumfriesshire	NY300653	36
12,210±120	*GrN-1616	peat	?Zone I peaty silt	Glen Balleira	Isle of Man	SC314915	1
12,210±120	*GrN-1631	peat	?Zone I peaty silt	Kirkmichael	Isle of Man	SC312909	1
12,090±900 ?C	*St-1640	mud	?Zone II/I lake mud	Loch of Clickimin	Shetland	HU465410	20
11,358±300 ?C	*Q-100	mud	Zone II/I mud	Garral Hill	Banffshire	NJ444551	29
		SCOTTISH AND MANX LATE LAST GLACIAL ZONE II (Av. 11,403 yrs B.P., N=10)					
12,158±218	*GU-15	peat	?low Zone II peat	Redkirk Point	Dumfriesshire	NY300653	37
11,888±225	*Q-101	peat	low Zone II peat	Garral Hill	Banffshire	NJ444551	26
11,828±105	*Gu-14	peat	?low Zone II peat	Redkirk Point	Dumfriesshire	NY300653	37
11,700±180	*Q-694	mud	high Zone II mud	Bigholm Burn	Dumfriesshire	NY316812	5

contd....

RADIOCARBON AGES FOR THE BRITISH LAST GLACIAL (contd)

Age (Yrs. B.P.)	Sample No.	Material	Deposit	Site	County	Grid Ref.	Source
			SCOTTISH AND MANX LATE LAST GLACIAL ZONE II (contd)				
11,308±245	*Q-102	peat	mid Zone II peat	Garral Hill	Banffshire	NJ444551	26
11,205±177	*Birm-41	peat	mid Zone II peat	Redkirk Point	Dumfriesshire	NY303652	7
11,135±135	*St-1714	peat	?late Zone II peat	Tresta	Shetland	HU360505	20
11,098±235	*Q-103	peat	mid Zone II peat	Garral Hill	Banffshire	NJ444551	26
10,898±127	*Birm-40	peat	late Zone II peat	Redkirk Point	Dumfriesshire	NY303652	7
10,808±230	*Q-104	peat	late Zone II peat	Garral Hill	Banffshire	NJ444551	26
			SCOTTISH AND MANX LATE LAST GLACIAL ZONE III (Av. 10,485 yrs B.P., N=4)				
11,310±90	*GrN-1639	peat	?Zone III/II peat	Kirkmichael	Isle of Man	SC312909	1
10,820±170	*Q-695	mud	mid Zone III mud	Bigholm Burn	Dumfriesshire	NY316812	5
10,270±170	*Q-673	plant	?late Zone III mud	Kirkmichael	Isle of Man	SC312909	5
10,055±300 ?C	*St-1554	mud	?Zone IV/III mud	Sand Water	Shetland	HU410535	20
9,530±170	*Q-697	mud	late Zone III mud	Bigholm Burn	Dumfriesshire	NY316812	5
			SCOTTISH AND MANX POST LAST GLACIAL ZONES IV AND V (Av. 9,622 yrs B.P., N=5)				
11,924±199 C	Q-281	peaty clay	Zone V peaty clay	Airth Colliery	Stirlingshire		25
10,300±185	*Q-815	wood (*Populus*)	?low Zone IV peat	Redkirk Point	Dumfriesshire	NY300653	38
9,640±180	*Q-398	wood	?Zone IV peat	Brighouse Bay	Kirkcudbright	NX650445	25
9,575±150	*Q-642	wood	?Zone IV peat	Irvine	Ayrshire	NS337373	27
9,362±150	*Q-641	peat	?Zone V peat	Girvan	Ayrshire	NX204994	27
9,231±96	*Birm-3	wood	?Zone Vpeat	Clippens Farm	Renfrewshire	NS450640	39
			SCOTTISH LATE LAST GLACIAL SEA RISE (Av. 12,143 yrs. B.P., N=6)				
13,020±220	*Birm-122B	shell(outer) (*Cyprina islandica*)	marine clay (+3m)	Wester Fulwood	Renfrewshire	NS432669	2,40
12,650±200	*Birm-122A	shell(inner) (*C. islandica*)	marine clay (+3m)	Wester Fulwood	Renfrewshire	NS432669	2,40
11,900±205	*N-475	shell (*C. islandica*)	marine clay (+7.5m)	Cardross	Dunbartonshire	NS350770	28
11,800±170	*I-2234	shell (derived marine)	moraine	Menteith Moraine	Perthshire	NN589000	6
11,787±122	*GU-12	shell (*C. islandica*)	marine clay (+7.5m)	Cardross	Dunbartonshire	NS350770	37
11,700±170	*I-2235	shell (derived marine)	moraine	Lomond Moraine	Stirlingshire	NS483880	6
			SCOTTISH LATE LAST GLACIAL SLIGHT SEA FALL (Av. 9,894 yrs B.P., N=3)				
10,560±180	*Birm-121	shell (*Astarte sulcata*)	marine clay (-3.5m)	Greenock Dock	Renfrewshire	NS307752	2,40
9,890±160	*Birm-120	shell (*Mya truncata*)	marine clay (-1.5m)	Greenock Dock	Renfrewshire	NS307752	2,40
9,231±96	*Birm-3	wood	peat over marine clay (+12m)	Clippens Farm	Renfrewshire	NS450640	2,39

Sources:

1. (Vogel and Zagwijn, 1967)
2. (Shotton, Blundell & Williams, 1970)
3. (Olson & Broecker, 1961)
4. (Shotton, Blundell & Williams, 1969)
5. (Godwin & Willis, 1964)
6. (Sissons, 1967)
7. (Shotton, Blundell & Williams, 1968)
8. (Barendsen, Deevey & Gralenski, 1957)
9. (Callow & Hassall, 1969)
10. (Levin, Ives, Oman & Rubin, 1969)
11. (Callow, Baker & Pritchard, 1964)
12. (Oakley, 1971)
13. (Callow, Baker & Hassall, 1966)
14. (Callow, Baker & Hassall, 1965)
15. (Godwin & Willis, 1960)
16. (Arnold & Libby, 1951)
17. (Callow, Baker & Pritchard, 1963)
18. (Rowlands, 1971)
19. (Buckley & Willis, 1969)
20. (Engstrand, 1967)
21. (John, 1970)
22. (Buckley, Trautman & Willis, 1968)
23. (Saunders, 1968)
24. (Buckley & Willis, 1970)
25. (Godwin & Willis, 1961)
26. (Godwin & Willis, 1959)
27. (Godwin & Willis, 1962)
28. (Yamasaki, Hamada & Hamada, 1969)
29. (Switsur, Hall & West, 1970)
30. (Zeuner, 1955)
31. (Deevey, Flint & Rouse, 1967)
32. (Berger & Libby, 1969)
33. (McAulay & Watts, 1961)
34. (Hubbs, Bien and Suess, 1965)
35. (Libby, 1952)
36. (Godwin & Switsur, 1966)
37. (Baxter, Ergin & Walton, 1969)
38. (Godwin, Willis & Switsur, 1965)
39. (Shotton, Blundell & Williams, 1967)
40. (Bishop & Dickson, 1970)

Table 21

BADGER HOLE, 1968 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE										
Coarse (100-15.4 mm)	-	-	119.5	12.93	21.5	2.93	40.5	5.31	50.0	5.70
Medium (15.4-3.1 mm)	138.5	25.79	170.0	18.39	106.5	14.51	217.0	28.42	371.0	42.28
Fine (3.1-1.73 mm)	141.5	26.35	102.0	11.03	83.0	11.31	146.0	19.12	150.0	17.09
	280.0	52.14	391.5	42.35	211.0	28.75	403.5	52.85	571.0	65.07
SAND										
Coarse (1.73-0.50 mm)	151.5	28.21	266.5	28.83	238.5	32.49	231.5	30.32	200.0	22.79
Medium (0.50-0.187 mm)	61.5	11.45	170.0	18.39	177.5	24.18	82.0	10.74	70.5	8.03
Fine (0.187-0.124 mm)	18.5	3.45	50.5	5.46	60.0	8.17	22.0	2.88	16.5	1.88
	231.5	43.11	487.0	52.68	476.0	64.85	335.5	43.94	287.0	32.71
SILT AND CLAY										
Silt (0.124-0.074 mm)	18.5	3.45	16.0	1.73	22.0	3.00	13.0	1.70	9.0	1.03
Clay (< 0.074 mm)	7.0	1.30	30.0	3.25	25.0	3.41	11.5	1.51	10.5	1.20
	25.5	4.75	46.0	4.98	47.0	6.40	24.5	3.21	19.5	2.22
TOTALS	537.0	100.00	924.5	100.01	734.0	100.00	763.5	100.00	877.5	100.00
COLOUR										
Wet	Red		Red		Red		Red		Dark Red	
Dry	Light Red		Red		Red		Red		Red	
SCREE ANGULARITY										
Thermoclastic (sharp)	+		+		+		+		+	
Weathered (rounded)	+		-		-		-		+	
Layer No.	A2				B/A3				E/C	

Table 22

HYENA DEN, 1968 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		7		8		9	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																		
Coarse (100-15.4 mm)	160.0	35.40	39.5	10.38	315.5	50.28	257.0	34.82	-	-	-	-	278.5	29.91	47.0	7.25	46.0	6.65
Medium (15.4-3.1 mm)	100.5	22.24	106.5	27.99	148.5	23.67	187.0	25.34	146.0	32.77	95.5	15.40	263.0	28.25	327.0	50.42	386.0	55.78
Fine (3.1-1.73 mm)	24.5	5.42	31.5	8.28	32.5	5.18	58.5	7.93	59.5	13.36	95.5	15.40	99.5	10.69	96.0	14.80	91.5	13.22
	285.0	63.06	177.5	46.65	496.5	79.13	502.5	68.09	205.5	46.13	191.0	30.80	641.0	68.85	470.0	72.47	523.5	75.65
SAND																		
Coarse (1.73-0.50 mm)	96.5	21.35	119.5	31.41	76.5	12.19	121.0	16.40	114.5	25.70	210.0	33.87	177.0	19.01	137.0	21.13	120.5	17.41
Medium (0.50-0.187 mm)	37.0	8.19	52.0	13.67	30.5	4.86	45.0	6.10	44.0	9.88	87.0	14.03	54.5	5.85	28.0	4.32	30.5	4.41
Fine (0.187-0.124 mm)	13.5	2.99	15.0	3.94	10.5	1.67	48.5	6.57	55.5	12.46	86.0	13.87	39.0	4.19	5.0	0.77	6.0	0.87
	147.0	32.53	186.5	49.02	117.5	18.72	214.5	29.07	214.0	48.04	383.0	61.77	270.5	29.05	170.0	26.22	157.0	22.69
SILT AND CLAY																		
Silt (0.124-0.074 mm)	11.5	2.54	11.0	2.89	7.5	1.20	16.0	2.17	19.0	4.27	30.5	4.92	15.0	1.61	5.0	0.77	5.5	0.80
Clay (< 0.074 mm)	8.5	1.88	5.5	1.45	6.0	0.96	5.0	0.68	7.0	1.57	15.5	2.50	4.5	0.48	3.5	0.54	6.0	0.87
	20.0	4.42	16.5	4.34	13.5	2.16	21.0	2.85	26.0	5.84	46.0	7.42	19.5	2.09	8.5	1.31	11.5	1.67
TOTALS	452.0	100.01	380.5	100.01	627.5	100.01	738.0	100.01	445.5	100.01	620.0	99.99	931.0	99.99	648.5	100.00	692.0	100.01
COLOUR																		
Wet	Red		Red		Red		Red		Yellow		Yellow		Yellow		Yellow		Yellow	
Dry	Light Red		Buff-red		Buff-red		Buff-red		Light Buff-red		Light Buff-red		Buff		Buff		Buff	
SCREE ANGULARITY																		
Thermoclastic (sharp)	+		+		+		+		+		+		+		+		+	
Weathered (round)	+		+		-		-		-		-		-		-		+	
Layer No.	A2a		A2b						A3				C/B					

Table 23

SUN HOLE, 1968 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		7		8		9		10	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																				
Coarse (100-15.4 mm)	405.5	32.36	661.5	43.25	313.5	21.47	169.0	12.70	458.5	25.42	560.5	37.50	1067.5	49.86	606.0	34.27	518.5	32.61	515.0	28.06
Medium (15.4-3.1 mm)	370.5	29.57	355.0	23.21	412.0	28.22	627.0	47.13	543.5	30.14	598.5	40.05	700.5	32.72	770.0	43.54	615.5	38.71	753.5	41.05
Fine (3.1-1.73 mm)	131.0	10.46	117.5	7.68	135.0	9.25	126.5	9.51	156.5	8.68	60.0	4.02	87.0	4.06	98.0	5.54	113.0	7.11	144.0	7.85
	907.0	72.39	1134.0	74.14	860.5	58.94	922.5	69.34	1158.5	64.24	1219.0	81.57	1855.0	86.64	1474.0	83.35	1247.0	78.43	1412.5	76.96
SAND																				
Coarse (1.73-0.50 mm)	239.0	19.08	288.0	18.84	417.0	28.56	168.0	12.63	232.5	12.89	107.0	7.16	114.5	5.35	120.0	6.79	148.0	9.31	205.0	11.17
Medium (0.50-0.187 mm)	65.5	5.24	64.5	4.22	100.5	6.89	65.5	4.93	107.5	5.97	42.5	2.85	45.0	2.12	44.0	2.50	54.0	3.40	68.0	3.71
Fine (0.187-0.124 mm)	19.0	1.52	18.5	1.21	23.5	1.61	61.5	4.62	139.0	7.71	12.0	0.81	24.5	1.14	15.5	0.88	51.0	3.21	75.5	4.11
	323.5	25.82	371.0	24.26	541.0	37.06	295.0	22.17	479.0	26.56	161.5	10.81	184.5	8.62	179.5	10.15	253.0	15.91	348.5	18.99
SILT AND CLAY																				
Silt (0.124-0.074 mm)	15.5	1.24	14.5	0.95	30.5	2.09	72.0	5.41	72.0	3.99	59.5	3.98	62.5	2.92	53.5	3.03	60.0	3.77	42.5	2.32
Clay (< 0.074 mm)	7.0	0.56	10.0	0.65	28.0	1.92	41.0	3.08	94.0	5.21	54.5	3.65	39.0	1.82	61.5	3.48	30.0	1.89	32.0	1.74
	22.5	1.80	24.5	1.60	58.5	4.01	113.0	8.49	166.0	9.20	114.0	7.63	101.5	4.74	115.0	6.50	90.0	5.66	74.5	4.06
TOTALS	1253.0	100.01	1529.5	100.00	1460.0	100.01	1330.5	100.00	1803.5	100.00	1494.5	100.01	2141.0	100.00	1768.5	100.00	1590.0	100.00	1835.5	100.01
COLOUR																				
Wet	Red		Red		Red		Grey		Grey		Grey		Grey		Grey		Light Red		Light Red	
Dry	Red-buff		Red-buff		Light Red-buff		Light Grey-buff		Light Grey-buff		Light Grey-buff		Light Grey-Buff		Light Grey-buff		Light Buff-red		Light Buff-red	
SCREE ANGULARITY																				
Thermoclastic (sharp)	+		+		+		+		+		+		+		+		+		+	
Weathered (round)	+		+		+		-		-		-		-		-		-		-	
Layer No.	A1						B1-1				B1-2				B1-3		A2			

TABLE 23 : S U N H O L E, 1 9 6 8 : G R A N U L O M E T R I C A N A L Y S I S (contd)

Sample No.	11		12		13		14		15		16		17		18		19		20	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																				
Coarse (100-15.4 mm)	321.0	19.24	320.0	20.22	207.5	13.98	315.5	19.81	287.0	17.37	500.5	29.36	211.0	14.20	543.0	30.80	401.0	25.62	541.0	34.60
Medium (15.4-3.1 mm)	683.5	40.97	867.5	54.80	579.0	39.02	855.5	53.72	858.5	51.97	838.0	49.15	898.5	60.49	733.0	41.58	703.0	44.92	626.0	40.04
Fine (3.1-1.73 mm)	179.0	10.73	117.5	7.42	174.0	11.73	103.0	6.47	149.5	9.05	113.5	6.66	103.5	6.97	97.0	5.50	131.0	8.37	104.5	6.68
	1183.5	70.93	1305.0	82.44	960.5	64.72	1274.0	80.00	1295.0	73.39	1452.0	85.16	1213.0	81.66	1373.0	77.88	1235.0	78.91	1271.5	81.32
SAND																				
Coarse (1.73-0.50 mm)	237.0	14.21	128.5	8.12	219.5	14.79	128.5	8.07	166.5	10.08	123.0	7.21	120.0	8.08	161.5	9.16	130.0	8.31	115.0	7.38
Medium (0.50-0.187 mm)	78.5	4.71	40.5	2.56	73.5	4.95	42.5	2.67	50.5	3.06	36.0	2.11	37.0	2.49	50.5	2.86	45.0	2.88	36.5	2.33
Fine (0.187-0.124 mm)	117.5	7.04	30.5	1.93	143.0	9.64	76.0	4.77	47.5	2.88	32.0	1.87	80.0	5.39	114.0	6.47	77.5	4.95	61.0	3.90
	433.0	25.95	199.5	12.60	436.0	29.38	247.0	15.51	264.5	16.01	191.0	11.20	237.0	15.95	326.0	18.49	252.5	16.13	213.0	13.62
SILT AND CLAY																				
Silt (0.124-0.074 mm)	18.5	1.11	30.0	1.90	56.5	3.81	45.5	2.86	35.0	2.12	28.0	1.64	28.0	1.89	39.0	2.21	38.0	2.43	46.0	2.94
Clay (< 0.074 mm)	33.5	2.01	48.5	3.06	31.0	2.09	26.0	1.63	57.5	3.48	34.0	1.99	7.5	0.51	25.0	1.42	39.5	2.52	33.0	2.11
	52.0	3.12	78.5	4.96	87.5	5.90	71.5	4.49	92.5	5.60	62.0	3.64	35.5	2.39	64.0	3.63	77.5	4.95	79.0	5.05
TOTALS	1668.5	100.00	1583.0	100.00	1484.0	100.00	1592.5	100.00	1652.0	100.00	1705.0	100.00	1485.5	100.00	1763.0	100.00	1565.0	99.99	1563.0	100.00
COLOUR																				
Wet	Light Red		Buff-grey		Grey-red		Grey-red		Buff-grey		Grey-red		Grey-red		Grey-red		Grey-red		Grey-red	
Dry	Light Buff-red		Grey-buff		Grey-buff		Grey-buff		Grey-buff		Buff		Buff		Buff		Buff		Buff	
SCREE ANGULARITY																				
Thermoclastic (sharp)	+		+		+		+		+		+		+		+		+		+	
Weathered (round)	-		-		-		-		-		-		-		-		-		-	
Layer No.	(A2)		B2-1		B2-2				B2-3		B2-4									

Table 23 (contd)

SUN HOLE, 1968 : GRANULOMETRIC ANALYSIS (contd.)

Sample No.	21		22		23		24		25		26		27		28		29		30	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																				
Coarse (100-15.4 mm)	411.0	26.26	649.0	41.08	186.0	11.95	651.5	38.61	277.5	17.20	437.5	25.78	206.0	19.02	491.0	28.51	283.5	17.53	438.5	26.20
Medium (15.4-3.1 mm)	834.5	53.22	796.5	50.41	1096.0	70.41	979.5	58.04	996.5	61.76	927.5	54.66	543.5	50.19	855.0	49.65	1051.0	64.98	852.0	50.90
Fine (3.1-1.73 mm)	81.0	5.18	44.0	2.79	61.0	3.92	21.5	1.27	89.5	5.55	92.5	5.45	101.5	9.37	133.0	7.72	102.5	6.34	98.0	5.85
	1326.5	84.76	1489.5	94.27	1343.0	86.28	1652.5	97.93	1363.5	84.51	1457.5	85.89	851.0	78.58	1479.0	85.89	1437.0	88.84	1388.5	82.95
SAND																				
Coarse (1.73-0.50 mm)	100.0	6.40	43.5	2.75	89.5	5.75	16.0	0.95	137.5	8.52	127.5	7.52	128.5	11.86	126.0	7.32	108.5	6.71	187.5	11.20
Medium (0.50-0.187 mm)	32.0	2.05	12.5	0.80	30.5	1.97	5.5	0.33	36.0	2.24	39.0	2.29	36.0	3.33	44.0	2.55	27.0	1.67	52.5	3.13
Fine (0.187-0.124 mm)	16.5	1.05	3.5	0.23	6.5	0.42	1.5	0.09	27.0	1.68	20.5	1.20	32.5	3.00	36.0	2.10	7.0	0.44	21.5	1.29
	148.5	9.49	59.5	3.77	126.5	8.13	23.0	1.36	200.5	12.43	187.0	11.02	197.0	18.19	206.0	11.96	342.5	8.81	261.5	15.62
SILT AND CLAY																				
Silt (0.124-0.074mm)	29.5	1.89	13.5	0.85	23.0	1.48	7.5	0.44	29.5	1.83	23.5	1.39	22.0	2.03	21.0	1.22	9.5	0.59	12.0	0.72
Clay (< 0.074 mm)	60.5	3.87	17.5	1.11	64.0	4.11	4.5	0.27	20.0	1.24	29.0	1.71	13.0	1.20	16.0	0.93	28.5	1.76	12.0	0.72
	90.0	5.75	31.0	1.96	87.0	5.59	12.0	0.71	49.5	3.07	52.5	3.09	35.0	3.23	37.0	2.15	38.0	2.35	24.0	1.43
TOTALS	1565.0	100.00	1580.0	100.00	1556.5	100.00	1687.5	100.00	1613.5	100.01	1697.0	100.00	1083.0	100.00	1722.0	100.00	1617.5	100.00	1674.0	100.00
COLOUR																				
Wet	Grey-red		Buff-grey		Buff-grey		Buff-grey		Buff-red		Buff-red		Buff		Buff-red		Buff-red		Buff-red	
Dry	Buff		Buff		Buff		Buff		Buff		Buff		Light Buff		Light Buff-grey		Light Buff-grey		Light Buff-grey	
SCREE ANGULARITY																				
Thermoclastic (sharp)	+		+		+		+		+		+		+		+		+		+	
Weathered (round)	-		-		-		-		-		-		+		+		+		+	
	(B2-4)		B2-5		B2-7		B2-8		B2-9				C/B		C					

Table 24

CATHOLE, 1968 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		7	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt.	%
SCREE														
Coarse (100-15.4 mm)	-	-	115.5	20.00	104.5	13.18	42.0	5.33	345.0	33.40	764.0	56.70	457.5	46.40
Medium (15.4-3.1 mm)	28.0	5.34	38.5	6.67	45.0	5.68	73.5	9.33	395.0	38.24	513.5	38.11	412.5	41.84
Fine (3.1-1.73 mm)	29.5	5.62	31.5	5.46	12.5	1.58	29.5	3.74	54.0	5.23	26.5	1.97	38.5	3.91
	57.5	10.96	185.5	32.12	162.0	20.43	145.0	18.40	794.0	76.86	1304.0	96.77	908.5	92.14
SAND														
Coarse (1.73-0.50 mm)	229.5	43.76	51.0	8.83	49.0	6.18	77.0	9.77	143.0	13.84	25.0	1.86	39.0	3.96
Medium (0.50-0.187 mm)	128.5	24.50	148.0	25.63	277.0	34.93	254.5	32.30	52.0	5.03	9.5	0.71	23.0	2.33
Fine (0.187-0.124 mm)	59.0	11.25	117.5	20.35	212.5	26.80	191.5	24.30	11.5	1.11	3.0	0.22	7.5	0.76
	417.0	79.51	316.5	54.81	538.5	67.91	523.0	66.37	206.5	19.99	37.5	2.78	69.5	7.05
SILT AND CLAY														
Silt (0.124-0.074 mm)	23.5	4.48	54.5	9.44	45.5	5.74	52.0	6.60	15.5	1.50	4.5	0.33	5.5	0.56
Clay (< 0.074 mm)	26.5	5.05	21.0	3.64	47.0	5.93	68.0	8.63	17.0	1.65	1.5	0.11	2.5	0.25
	50.0	9.53	75.5	13.07	92.5	11.67	120.0	15.23	32.5	31.5	6.0	0.45	8.0	0.81
TOTALS	524.5	100.00	577.5	100.00	793.0	100.01	788.0	100.00	1033.0	100.00	1347.5	100.00	986.0	100.00

COLOUR							
Wet	Buff	Reddish	Grey	Yellowish Grey	Yellowish Buff	Yellowish Buff	Very Yellowish Buff
Dry	Buff-grey	Red-grey	Grey	Grey	Grey	Light Grey	Light Grey
SCREE ANGULARITY							
Thermoclastic (sharp)	+	+	+	+	+	+	+
Weathered (rounded)	+	-	-	-	-	-	-
Layer No.	A1	A2	A3		LGB	LOB	MSB

Table 24 (contd)

CATHOLE, 1968 : GRANULOMETRIC ANALYSIS (contd)

Sample No.	8		9		10		11		12		13	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE												
Coarse (100-15.4 mm)	809.0	49.27	614.5	57.78	342.5	33.61	576.5	40.92	480.5	46.95	34.0	12.78
Medium (15.4-3.1 mm)	702.0	42.75	304.5	28.63	387.5	38.03	536.5	38.08	336.0	32.83	101.5	38.16
Fine (3.1-1.73 mm)	46.5	2.83	44.0	4.14	79.0	7.75	99.0	7.03	88.0	8.60	52.5	19.74
	1557.5	94.85	963.0	90.55	809.0	79.39	1212.0	86.02	904.5	88.37	188.0	70.68
SAND												
Coarse (1.73-0.50 mm)	53.0	3.23	62.5	5.88	143.5	14.08	128.0	9.08	88.5	8.65	58.0	21.81
Medium (0.50-0.187 mm)	18.5	1.13	26.0	2.45	45.5	4.47	45.0	3.19	20.0	1.95	12.0	4.51
Fine (0.187-0.124 mm)	5.0	0.31	6.0	0.56	10.0	0.98	10.0	0.71	4.0	0.39	2.5	0.94
	76.5	4.66	94.5	8.89	199.0	19.53	183.0	12.99	112.5	10.99	72.5	27.26
SILT AND CLAY												
Silt (0.124-0.074 mm)	5.5	0.34	4.5	0.42	8.5	0.83	7.5	0.53	3.5	0.34	2.5	0.94
Clay (<(0.074 mm)	2.5	0.15	1.5	0.14	2.5	0.25	6.5	0.46	3.0	0.29	3.0	1.13
	8.0	0.49	6.0	0.56	11.0	1.08	14.0	0.99	6.5	0.64	5.5	2.07
TOTALS	1642.0	100.00	1063.5	100.00	1019.0	100.00	1409.0	100.00	1023.5	100.00	266.0	100.01
COLOUR												
Wet	Yellowish Buff		Yellowish Buff		Reddish		Reddish Brown		Dark Brown		Very Dark Brown	
Dry	Light Grey		Light Grey		Grey-brown		Light Brown		Brown		Dark Brown	
SCREE ANGULARITY												
Thermoclastic (sharp)	+		+		+		+		+		-	
Weathered (round)	-		-		+		+		+		+	
Layer No.	UOB		USB		C		D		E		F	

Table 25

LONG HOLE, 1968 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		7		8		9		10		11	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																						
Coarse (100-15.4 mm)	106.5	14.47	1139.5	70.47	304.0	34.47	94.0	11.88	11.0	1.55	140.5	17.55	297.0	25.88	742.5	60.02	205.5	20.72	-	-	30.5	4.68
Medium (15.4-3.1 mm)	224.5	30.48	259.0	16.02	352.5	39.97	140.0	17.69	116.0	16.36	238.0	29.73	286.0	24.92	226.0	18.27	175.0	17.64	7.5	1.28	1.5	0.23
Fine (3.1-1.73 mm)	69.0	9.37	57.5	3.56	42.5	4.82	112.5	14.21	34.5	4.87	24.5	3.06	40.0	3.49	42.0	3.40	28.5	2.87	2.0	0.34	1.0	0.15
	400.0	54.31	1456.0	90.04	699.0	79.25	346.5	43.78	161.5	22.78	403.0	50.34	623.0	54.29	1010.5	81.69	409.0	41.23	9.5	1.63	33.0	5.06
SAND																						
Coarse (1.73-0.50 mm)	150.5	20.43	101.0	6.25	92.0	10.44	207.0	26.15	134.0	18.90	42.0	5.25	147.5	12.86	91.5	7.39	151.0	15.23	13.0	2.23	11.0	1.69
Medium (0.50-0.187mm)	106.5	14.47	33.0	2.04	38.0	4.31	105.0	13.27	224.5	31.67	118.5	14.80	134.0	11.68	48.5	3.92	211.0	21.27	222.0	38.02	285.0	43.71
Fine (0.187-0.124 mm)	39.0	5.29	9.0	0.56	14.0	1.59	82.5	10.42	111.5	15.73	119.5	14.93	122.5	10.68	25.5	2.06	112.0	11.29	228.5	39.13	217.0	33.28
	296.0	40.19	143.0	8.84	144.0	16.33	394.5	49.84	470.0	66.29	280.0	34.98	404.0	35.21	165.5	13.38	474.0	47.78	463.5	79.37	513.0	78.68
SILT AND CLAY																						
Silt (0.124-0.074mm)	28.0	3.80	10.5	0.65	24.0	2.72	36.5	4.61	59.5	8.39	83.0	10.37	69.0	6.01	39.5	3.19	79.0	7.96	63.0	10.79	74.5	11.43
Clay (< 0.074 mm)	12.5	1.70	7.5	0.46	15.0	1.70	14.0	1.77	18.0	2.54	34.5	4.31	51.5	4.49	21.5	1.74	30.0	3.02	48.0	8.22	31.5	4.83
	40.5	5.50	18.0	1.11	39.0	4.42	50.5	6.38	77.5	10.93	117.5	14.68	120.5	10.50	61.0	4.93	109.0	10.99	111.0	10.01	106.0	16.26
TOTALS	736.5	100.00	1617.0	99.99	882.0	100.00	791.5	100.00	709.0	100.00	800.5	100.00	1147.5	100.00	1237.0	100.00	992.0	100.00	584.0	100.00	652.0	100.00
COLOUR																						
Wet	Bright Red		Red		Red		Red		Grey		Grey		Grey		Grey		Grey		Grey		Grey	
Dry	Very Bright Red		Red-Buff		Red-Buff		Red-grey		Light Grey-Buff		Light Grey-buff		Light Grey-buff		Light Grey-buff		Light Grey-buff		Light Grey		Light Grey	
SCREE ANGULARITY																						
Thermoclastic (sharp)	-		+		+		+		+		+		+		+		+		+		+	
Weathered (rounded)	+		+		+		+		-		-		-		-		-		-		-	
Layer No.	A2a		A2b				A2c		A3a		A3b								A3c			

Table 25 (contd)

LONG HOLE, 1968 : GRANULOMETRIC ANALYSIS (contd)

Sample No.	12		13		14		15		16		17		18		19		20		21		22	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																						
Coarse (100-15.4 mm)	-	-	264.0	35.37	338.5	40.39	735.0	612.8	628.5	51.54	735.5	60.30	661.0	65.38	746.0	70.41	273.0	42.96	116.5	28.77	68.0	19.40
Medium (15.4-3.1 mm)	-	-	145.5	19.49	345.0	41.17	309.5	25.80	425.0	34.85	361.0	29.68	227.5	22.50	142.5	13.45	151.5	23.84	89.5	22.10	86.0	24.54
Fine (3.1-1.73 mm)	0.5	0.07	15.0	2.01	31.0	3.70	49.5	4.13	54.5	4.47	39.5	3.25	45.5	4.50	43.0	4.06	15.0	2.36	10.5	2.59	10.5	3.00
	0.5	0.07	424.5	56.87	714.5	85.26	1094.0	91.21	1108.0	90.86	1134.0	93.22	934.0	92.38	931.5	87.92	439.5	69.16	216.5	53.46	164.5	46.93
SAND																						
Coarse (1.73-0.50 mm)	4.5	0.66	46.0	6.16	55.0	6.57	65.0	5.42	78.0	6.40	59.0	4.85	56.0	5.54	90.5	8.54	118.0	18.56	98.5	24.32	86.0	24.54
Medium (0.50-0.187mm)	338.0	49.97	114.0	15.28	25.0	2.99	19.0	1.59	16.5	1.35	14.0	1.15	13.0	1.30	24.0	2.27	41.5	6.52	42.0	10.37	46.0	13.13
Fine (0.187-0.124 mm)	235.0	37.70	94.0	12.59	13.5	1.62	7.0	0.58	6.0	0.50	4.5	0.37	3.5	0.35	5.5	0.52	12.0	1.89	14.0	3.46	18.0	5.14
	597.5	88.32	254.0	34.03	93.5	11.16	91.0	7.59	100.5	8.24	77.5	6.37	72.5	7.17	120.0	11.33	171.5	26.99	154.5	38.15	150.0	42.80
SILT AND CLAY																						
Silt (0.124-0.074 mm)	49.0	7.24	30.5	6.77	17.0	2.03	9.5	0.79	7.5	0.62	3.5	0.29	3.0	0.30	5.0	0.47	12.5	1.97	18.5	4.57	19.0	5.42
Clay (< 0.074 mm)	29.5	4.36	17.5	2.34	13.0	1.55	5.0	0.42	3.5	0.29	1.5	0.12	1.5	0.15	3.0	0.28	12.0	1.89	15.5	3.83	17.0	4.85
	78.5	11.60	68.0	9.11	30.0	3.58	14.5	1.21	11.0	0.90	5.0	0.41	4.5	0.46	8.0	0.76	24.5	3.86	34.0	8.40	36.0	10.27
TOTALS	676.5	99.99	746.5	100.01	838.0	100.00	1199.5	100.01	1219.5	100.00	1216.5	100.00	1011.0	100.01	1059.5	100.01	635.5	100.01	405.0	100.01	350.5	100.00
COLOUR																						
Wet	Grey		Grey		Grey		Light Grey		Light Grey		Light Grey		Dark Grey		Dark Grey		Dark Brown		Dark Brown		Very Dark Brown	
Dry	Light Grey		Light Grey		Light Grey-buff		Very Light Grey-buff		Very Light Grey-buff		Very Light Grey-buff		Light Grey-brown		Brown-grey		Brown		Brown		Dark Brown	
SCREE ANGULARITY																						
Thermoclastic (sharp)	+		+		+		+		+		+		+		+		+		-		-	
Weathered (rounded)	-		-		-		-		-		+		+		+		+		+		+	
Layer No.	(A3c)		SB				OB						C/B				D				F	

Table 26

MOTHER GRUNDY'S PARLOUR, 1969 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																
Coarse (100-15.4 mm)	-	-	21.5	3.04	-	-	459.0	42.66	559.0	53.60	239.5	31.66	64.5	10.96	282.5	34.45
Medium (15.4-3.1 mm)	12.0	2.26	38.5	5.43	4.0	0.57	371.5	34.53	240.5	23.06	293.0	38.73	115.0	19.54	143.0	17.44
Fine (3.1-1.73 mm)	4.5	0.85	12.0	1.69	7.0	1.00	30.5	2.84	42.5	4.08	39.5	5.22	36.5	6.20	57.0	6.95
	16.5	3.10	72.0	10.16	11.0	1.58	861.0	80.02	842.0	80.73	572.0	75.61	216.0	36.70	482.5	58.84
SAND																
Coarse (1.73-0.50 mm)	41.0	7.71	96.0	13.55	104.0	14.89	103.0	9.57	111.0	10.64	112.0	14.81	162.5	27.61	185.0	22.56
Medium (0.50-0.187 mm)	215.5	40.51	326.5	46.08	232.5	33.29	62.5	5.81	52.5	5.04	29.5	3.90	97.5	16.57	81.0	9.88
Fine (0.187-0.124 mm)	178.0	33.46	158.0	22.30	243.0	34.79	20.5	1.90	12.5	1.20	14.0	1.85	51.5	8.75	30.0	3.66
	434.5	81.67	580.5	81.93	579.5	82.96	186.0	17.29	176.0	16.87	155.5	20.56	311.5	52.93	296.0	36.10
SILT AND CLAY																
Silt (0.124-0.074 mm)	50.0	9.40	40.0	5.65	65.5	9.38	16.0	1.49	16.5	1.58	19.5	2.58	35.0	5.95	24.0	2.93
Clay (< 0.074 mm)	31.0	5.83	16.0	2.26	42.5	6.08	13.0	1.21	8.5	0.82	9.5	1.26	26.0	4.42	17.5	2.13
	81.0	15.23	56.0	7.90	108.0	15.46	29.0	2.70	25.0	2.40	29.0	3.83	61.0	10.37	41.5	5.06
TOTALS	532.0	100.00	708.5	99.99	698.5	100.00	1076.0	100.01	1043.0	100.00	756.5	100.00	588.5	100.00	820.0	100.00
COLOUR																
Wet	Dark Buff		Buff		Buff		Light Orange		Light Orange		Light Orange		Dark Orange		Dark Brown	
Dry	Red-buff		Light Buff		Light Buff		Dark Buff		Dark Buff		Dark Buff		Brown		Dark Grey-brown	
SCREE ANGULARITY																
Thermoclastic (sharp)	+		+		+		+		+		+		+		-	
Weathered (rounded)	-		-		-		-		-		-		-+		+	
Layer No.	A						LB				SB		C		D	

Table 27

ROBIN HOOD'S CAVE, 1969 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
SCREE																
Coarse (100-15.4 mm)	-	-	66.5	6.25	212.0	26.43	28.0	4.20	403.0	44.36	556.5	64.56	464.0	60.34	417.5	50.82
Medium (15.4-3.1 mm)	60.5	10.97	179.5	16.86	217.5	27.12	196.0	29.36	190.5	20.97	124.5	14.44	62.5	8.13	96.0	11.69
Fine (3.1-1.73 mm)	50.5	9.16	132.0	12.40	55.0	6.86	68.0	10.19	23.0	2.53	15.0	1.74	8.5	1.11	25.0	3.04
	111.0	20.13	378.0	35.51	485.5	60.54	292.0	43.75	616.5	67.86	696.0	80.74	535.0	69.57	538.5	65.55
SAND																
Coarse (1.73-0.50 mm)	150.0	27.20	280.0	26.31	119.5	14.90	138.0	20.68	90.0	9.90	46.5	5.39	68.5	8.91	76.0	9.25
Medium (0.50-0.187 mm)	244.0	44.24	307.0	28.85	122.5	15.28	121.0	18.13	138.5	15.24	66.0	7.65	109.5	14.18	135.0	16.43
Fine (0.187-0.124 mm)	29.0	5.26	53.0	4.98	32.0	3.99	49.5	7.42	31.5	3.47	23.0	2.67	26.5	3.45	36.0	4.38
	423.0	76.70	640.0	60.12	274.0	34.17	308.5	46.22	260.0	28.62	135.5	15.72	204.0	26.53	247.0	30.07
SILT AND CLAY																
Silt (0.124-0.074 mm)	13.5	2.45	30.5	2.87	25.0	3.12	39.5	5.92	19.0	2.09	15.5	1.80	24.0	3.12	21.0	2.56
Clay (< 0.074 mm)	4.0	0.73	16.0	1.50	17.5	2.18	27.5	4.12	13.0	1.43	15.0	1.74	6.0	0.78	15.0	1.83
	17.5	3.17	46.5	4.37	42.5	5.30	67.0	10.04	32.0	3.52	30.5	3.54	30.0	3.90	36.0	4.38
TOTALS	551.5	100.00	1064.5	100.00	802.0	100.01	667.5	100.01	908.5	100.00	862.0	100.00	769.0	100.00	821.5	100.00
COLOUR																
Wet	Red		Buff-red		Dark Buff		Dark Buff		Buff		Buff		Buff		Dark Buff	
Dry	Light Red		Light Buff-red		Buff		Buff		Light Buff		Light Buff		Light Buff		Buff	
SCREE ANGULARITY																
Thermoclastic (sharp)	+		+		+		+		+		+		+		+	
Weathered (rounded)	+		-		-		-		-		-		-		-	
Layer No.	A		B/A		LSB				OB						USB	

Table 28

HENGISTBURY HEAD, 1968-69 : GRANULOMETRIC ANALYSIS

Sample No.	1		2		3		4		5		6		9		10	
	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%	wt. gm.	%
GRAVEL																
Coarse (100-15.4 mm)	166.0	24.76	-	-	-	-	-	-	-	-	23.5	5.61	-	-	-	-
Medium (15.4-3.1 mm)	258.0	38.48	-	-	-	-	-	-	-	-	1.0	0.24	1.0	0.25	-	-
Fine (3.1-1.73 mm)	35.0	5.22	0.5	0.09	0.5	0.11	-	-	-	-	0.5	0.12	-	-	0.5	0.09
	459.0	68.46	0.5	0.09	0.5	0.11	-	-	-	-	25.0	5.97	1.0	0.25	0.5	0.09
SAND																
Coarse (1.73-0.50 mm)	55.0	8.50	7.5	1.41	7.5	1.61	8.0	1.92	3.5	0.93	9.0	2.15	3.5	0.87	6.5	1.15
Medium (0.50-0.187mm)	110.5	16.48	362.0	67.92	364.5	78.22	231.0	55.40	274.5	72.62	267.5	63.84	294.0	72.68	333.5	58.82
Fine (0.187-0.124 mm)	23.5	3.51	95.5	17.92	58.0	12.45	95.0	22.78	62.5	16.54	62.0	14.80	55.5	13.72	126.0	22.22
	189.0	28.19	465.0	87.24	430.0	92.28	334.0	80.10	340.5	90.08	338.5	80.79	353.0	87.27	466.0	82.19
SILT AND CLAY																
Silt (0.124-0.074 mm)	12.5	1.86	38.0	7.13	22.0	4.72	42.5	10.19	25.5	6.75	31.5	7.52	29.0	7.17	47.5	8.38
Clay (< 0.074 mm)	10.0	1.49	29.5	5.54	13.5	2.90	40.5	9.71	12.0	3.18	24.0	5.73	21.5	5.32	53.0	9.35
	22.5	3.36	67.5	12.66	35.5	7.62	83.0	19.90	37.5	9.92	55.5	13.25	50.5	12.49	100.5	17.73
TOTALS	670.5	100.01	533.0	99.99	466.0	100.01	417.0	100.00	378.0	100.00	419.0	100.01	404.5	100.01	567.0	100.01
COLOUR																
Wet	Grey		Grey-orange		Dark-Grey		Orange-grey		Orange-grey		Brown-black		Brown-black		Light Grey-buff	
Dry	Buff-grey		Light Grey-orange		Grey		Light Grey		Light Grey		Brown-grey		Brown-grey		Very Light Grey	
GRAVEL ANGULARITY																
Thermoclastic (sharp)	+		-		+		-		-		+		+		+	
Water-worn (rounded)	+		+		+		-		-		-		-		-	
Layer No.	C1		C2		C3		B1				B2				A1a	

Table 29 KENT'S CAVERN, 1969 : POLLEN ANALYSIS

Sample No.	1		2		3	
	No.	%	No.	%	No.	%
TREES AND SHRUBS						
Tilia	-	-	1	0.96	-	-
Quercus	-	-	1	0.96	-	-
Populus?	-	-	2	1.92	2	3.13
Pinus	-	-	1	0.96	1	1.56
Betula	-	-	2	1.92	1	1.56
Juniperus	-	-	8	7.69	10	15.63
Salix	1	-	11	10.58	3	4.69
Hippophaë	-	-	3	2.89	-	-
Empetrum	-	-	-	-	4	6.25
	1	-	29	27.89	21	32.81
HERBS						
Ranunculus	-	-	3	2.89	1	1.56
Thalictrum	-	-	-	-	1	1.56
Potentilla?	-	-	2	1.92	-	-
Rumex	-	-	6	5.77	-	-
Urtica	-	-	2	1.92	-	-
Armeria	-	-	3	2.89	-	-
Polemonium	-	-	-	-	1	1.56
Linaria?	-	-	1	0.96	-	-
Galium	-	-	1	0.96	-	-
Valeriana?	1	-	-	-	-	-
Artemisia	-	-	1	0.96	-	-
Other Compositae	-	-	2	1.92	2	3.13
Cyperaceae	-	-	27	25.96	18	28.13
Gramineae	-	-	21	20.19	16	25.00
	1	-	71	66.35	39	60.94
AQUATICS						
Menyanthes?	-	-	2	1.92	-	-
FERNS AND MOSSES						
Lycopodium	-	-	1	0.96	2	3.13
Selaginella	-	-	2	1.92	1	1.56
Equisetum?	-	-	-	-	1	1.56
Botrychium?	-	-	1	0.96	-	-
	-	-	4	3.85	4	6.25
TOTALS	2	-	104	100.01	64	100.00
Layer No.	A1		A2		B2	

Table 30 BADGER HOLE, 1968 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5	
	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS										
Corylus	-	-	-	-	-	-	-	-	22	13.75
Pinus	2	1192	1	0.42	-	-	6	2.04	29	18.13
Betula	-	-	2	0.84	2	0.86	27	9.18	45	28.13
Juniperus	7	6.73	10	4.20	2	0.86	21	7.14	3	1.88
Salix	5	4.81	16	6.72	9	3.86	32	10.88	1	0.63
Helianthemum	1	0.96	1	0.42	-	-	-	-	-	-
Hippophaë	2	1.92	3	1.26	1	0.43	4	1.36	-	-
Hedera	-	-	-	—	-	-	-	-	3	1.88
Empetrum	6	5.77	-	-	-	-	2	0.68	-	-
	23	22.12	33	13.87	14	6.01	92	31.29	103	64.38
HERBS										
Ranunculus	2	1.92	1	0.42	-	-	-	-	-	-
Thalictrum	-	-	2	0.84	3	1.29	-	-	-	-
Koenigia	-	-	1	0.42	2	0.86	-	-	-	-
Rumex	7	6.73	15	6.30	8	3.43	12	4.08	-	-
Urtica	1	0.96	3	1.26	-	-	5	1.70	4	2.50
Armeria	2	1.92	1	0.42	-	-	2	0.68	-	-
Polemonium	1	0.96	4	1.68	2	0.86	3	1.02	-	-
Campanula	1	0.96	1	0.42	-	-	2	0.68	-	-
Galium	3	2.89	7	2.94	11	4.72	4	1.36	-	-
Artemisia	2	1.92	28	11.77	24	10.30	15	5.10	-	-
Other Compositae	1	0.96	9	3.78	2	0.86	19	6.46	8	5.00
Cyperaceae	25	24.04	43	18.07	52	22.32	26	8.84	13	8.13
Gramineae	29	27.89	85	35.71	97	41.63	110	37.42	20	12.50
	74	71.15	200	84.03	201	86.27	198	67.35	45	28.13
FERNS and MOSSES										
Lycopodium	2	1.92	5	2.10	12	5.15	1	0.34	2	1.25
Selaginella	1	0.96	-	-	6	2.58	2	0.68	-	-
Polypodium	4	3.85	-	-	-	-	1	0.34	10	6.25
	7	6.73	5	2.10	18	7.73	4	1.36	12	7.50
TOTALS	104	100.00	238	100.00	233	100.01	294	100.00	160	100.01
Layer No.	A2				B/A3				E/C	

Table 31 GOUGH'S CAVE, 1969 : POLLEN ANALYSIS

(Samples excavated by Parry, 1927-31)

Sample No.	1		2		3		4		5		6	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS												
Alnus	-	-	-	-	-	-	-	-	1	0.25	6	2.10
Corylus	-	-	-	-	-	-	-	-	-	-	24	8.39
Quercus	-	-	-	-	-	-	-	-	-	-	13	4.55
Pinus	9	4.97	13	6.70	4	1.35	18	4.00	6	1.49	27	9.44
Betula	23	12.71	41	21.13	5	1.68	8	1.78	29	7.20	104	36.36
Juniperus	4	2.21	2	1.03	7	2.36	5	1.11	34	8.44	3	1.05
Salix	7	3.87	5	2.58	31	10.44	59	13.11	22	5.46	9	3.15
Helianthemum	-	-	1	0.52	2	0.67	5	1.11	8	1.99	-	-
Hippophaë	1	0.55	3	1.55	2	0.67	11	2.44	10	2.48	3	1.05
Hedera	-	-	-	-	-	-	-	-	-	-	2	0.70
Empetrum	12	6.63	7	3.61	1	0.34	4	0.89	6	1.49	-	-
	56	30.94	72	37.11	52	17.51	110	24.44	116	28.78	191	66.78
HERBS												
Ranunculus	3	1.66	-	-	1	0.34	-	-	4	0.99	2	0.70
Thalictrum	-	-	-	-	6	2.02	5	1.11	1	0.25	-	-
Epilobium	2	1.11	-	-	-	-	-	-	-	-	1	0.35
Rumex	4	2.21	7	3.61	19	6.40	8	1.78	22	5.46	1	0.35
Urtica	2	1.11	5	2.58	3	1.01	1	0.22	17	4.22	4	1.40
Armeria	-	-	-	-	4	1.35	2	0.44	3	0.74	-	-
Galium	-	-	1	0.52	7	2.36	15	3.33	8	1.99	-	-
Artemisia	-	-	2	1.03	28	9.43	33	7.33	21	5.21	-	-
Other Compositae	5	2.76	-	-	2	0.67	1	0.22	1	0.25	6	2.10
Cyperaceae	38	20.99	19	9.79	41	13.81	69	15.33	57	14.14	18	6.29
Gramineae	62	34.25	77	39.69	115	38.72	144	32.00	126	31.27	21	7.34
	116	64.09	111	57.22	226	76.09	278	61.78	260	64.52	53	18.53
FERNS and MOSSES												
Lycopodium	5	2.76	3	1.55	8	2.69	26	5.78	15	3.72	7	2.45
Selaginella	1	0.55	3	1.55	11	3.70	35	7.78	9	2.23	-	-
Dryopteris	-	-	1	0.52	-	-	-	-	1	0.25	23	8.04
Polypodium	3	1.66	4	2.06	-	-	1	0.22	2	0.50	12	4.20
	9	4.97	11	5.67	19	6.40	62	13.78	27	6.70	42	14.69
TOTALS	181	100.00	194	100.00	297	100.00	450	100.00	403	100.00	286	100.00
Spit (Parry, 1927-31 Excavations)	17		16		14		13		12		10	
Layer No.	A2		B									

Table 32

HYENA DEN, 1968 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8		9	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																		
Alnus	2	2.44	-	-	1	1.45	-	-	-	-	-	-	-	-	-	-	3	5.00
Corylus	1	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6.67
Quercus	2	2.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	3	3.66	-	-	-	-	2	1.55	-	-	-	-	-	-	1	0.70	11	18.33
Betula	8	9.76	3	5.26	5	7.25	5	3.88	3	1.75	2	1.04	18	25.35	3	2.11	23	38.33
Juniperus	1	1.22	1	1.75	15	21.74	1	0.78	4	-	1	0.52	6	8.45	2	1.41	1	1.67
Salix	2	2.44	6	10.53	3	4.35	4	3.10	9	5.26	7	3.63	2	2.82	11	7.75	3	5.00
Helianthemum	-	-	-	-	-	-	-	-	3	1.75	1	0.52	-	-	3	2.11	-	-
Dryas?	-	-	-	-	-	-	-	-	8	4.68	5	2.59	-	-	-	-	-	-
Hippophaë	-	-	2	3.51	4	5.80	1	0.78	-	-	-	-	2	2.82	1	0.70	-	-
Hedera	3	3.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.67
Calluna/Erica	9	10.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empetrum	2	2.44	-	-	-	-	-	-	2	1.17	4	2.07	3	4.23	6	4.23	-	-
	33	40.25	12	21.05	28	40.58	13	10.08	25	14.62	20	10.37	31	43.66	27	19.01	46	76.67
HERBS																		
Ranunculus	-	-	-	-	2	2.90	1	0.78	-	-	2	1.04	-	-	4	2.82	-	-
Thalictrum	-	-	-	-	-	-	5	3.88	9	5.26	3	1.55	-	-	-	-	-	-
Chenopodiaceae	2	2.44	-	-	-	-	8	6.20	6	3.51	2	1.04	-	-	-	-	-	-
Potentilla	1	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polygonum	-	-	-	-	-	-	-	-	1	0.59	-	-	-	-	-	-	-	-
Rumex	-	-	1	1.75	-	-	1	0.78	11	6.43	6	3.11	-	-	8	5.63	-	-
Urtica	3	3.66	-	-	-	-	-	-	2	1.17	5	2.59	4	5.63	1	0.70	-	-
Armeria	-	-	-	-	-	-	6	4.65	5	2.92	-	-	-	-	3	2.11	-	-
Polymonium	-	-	-	-	-	-	-	-	4	2.34	-	-	-	-	-	-	-	-
Plantago	-	-	-	-	-	-	-	-	3	1.75	-	-	1	1.41	2	1.41	-	-
Campanula	-	-	-	-	-	-	-	-	4	2.34	3	1.55	-	-	2	1.41	-	-
Galium	-	-	1	1.75	6	8.70	15	11.63	2	1.17	1	0.52	2	2.82	6	4.23	-	-
Valeriana	-	-	-	-	-	-	-	-	2	1.17	-	-	-	-	-	-	-	-
Artemisia	-	-	7	12.28	12	17.39	8	6.20	13	7.60	9	4.66	5	7.04	17	11.97	-	-
Other Compositae	7	8.54	4	7.02	2	2.90	12	9.30	3	1.75	12	6.22	3	4.23	6	4.23	5	8.33
Cyperaceae	18	21.95	11	19.30	3	4.35	17	13.18	29	16.96	47	24.35	8	11.27	30	21.13	-	-
Graminaae	14	17.07	19	33.33	13	18.84	31	24.03	42	24.56	68	35.23	11	15.49	27	19.01	4	6.67
	45	54.88	43	75.44	38	55.07	104	80.62	136	79.53	158	81.86	34	47.89	106	74.65	9	15.00
FERNS and MOSSES																		
Lycopodium	1	1.22	1	1.75	-	-	7	5.43	6	3.51	11	5.70	1	1.41	4	2.82	2	3.33
Selaginella	-	-	-	-	2	2.90	3	2.33	4	2.34	1	0.52	3	4.23	5	3.52	-	-
Dryopteris	-	-	-	-	1	1.45	-	-	-	-	-	-	2	2.82	-	-	1	1.67
Polypodium	3	3.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3.33
Botrychium	-	-	1	1.75	-	-	2	1.55	-	-	3	1.55	-	-	-	-	-	-
	4	4.88	2	3.51	3	4.35	12	9.30	10	5.85	15	7.77	6	8.45	9	6.34	5	8.33
TOTALS	82	100.01	57	100.00	69	100.00	129	100.00	171	100.00	193	100.00	71	100.00	142	100.00	60	100.00
Layer No.	A2a		A2b						A3				C/B					

Table 33 SUN HOLE, 1968 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Carpinus	5	2.59	13	4.42	10	3.82	2	0.66	6	1.47	1	0.23	-	-	-	-
Abies	-	-	5	1.70	8	3.05	2	0.66	4	0.98	-	-	-	-	-	-
Tilia	4	2.07	3	1.02	5	1.91	1	0.33	6	1.47	1	0.23	-	-	-	-
Ulmus	3	1.55	3	1.02	2	0.76	-	-	-	-	-	-	-	-	-	-
Alnus	9	4.66	11	3.74	8	3.05	5	1.65	7	1.72	2	0.46	-	-	-	-
Corylus	24	12.44	35	11.91	31	11.83	16	5.26	5	1.23	1	0.23	1	0.29	2	0.61
Quercus	12	6.22	7	2.38	4	1.53	-	-	-	-	-	-	-	-	-	-
Picea	7	3.63	12	4.08	9	3.44	10	3.29	16	3.93	3	0.69	-	-	2	0.61
Pinus	36	18.65	51	17.35	64	24.43	28	9.21	53	13.02	14	3.22	2	0.57	1	0.31
Betula	19	9.85	24	8.16	45	17.18	57	18.75	41	10.07	23	5.29	12	3.42	15	4.57
Juniperus	-	-	-	-	3	1.15	14	4.61	32	7.86	27	6.21	19	5.41	12	3.66
Salix	-	-	2	0.68	10	3.82	4	1.32	24	5.90	49	11.26	26	7.41	35	10.67
Helianthemum	-	-	-	-	-	-	-	-	2	0.49	-	-	4	1.14	1	0.31
Hippophaë	-	-	-	-	1	0.38	-	-	5	1.23	8	1.84	11	3.13	3	0.92
Hedera	8	4.15	6	2.04	13	4.96	7	2.30	3	0.74	-	-	-	-	-	-
Calluna/Erica	16	8.29	29	9.86	5	1.91	23	7.57	30	7.37	1	0.23	-	-	-	-
Empetrum	-	-	-	-	2	0.76	11	3.62	38	9.34	7	1.61	2	0.57	3	0.92
	143	74.09	201	68.37	220	83.97	180	59.21	272	66.83	137	31.49	77	21.94	74	22.56
HERBS																
Ranunculus	1	0.52	-	-	-	-	4	1.32	1	0.25	5	1.15	2	0.57	-	-
Thalictrum	-	-	-	-	-	-	2	0.66	3	0.74	1	0.23	3	0.86	4	1.22
Chenopodiaceae	3	1.55	8	2.72	-	-	-	-	4	0.98	1	0.23	2	0.57	-	-
Rumex	-	-	2	0.68	4	1.53	1	0.33	4	0.98	25	5.75	16	4.56	9	2.74
Urtica	-	-	5	1.70	3	1.15	7	2.30	2	0.49	-	-	1	0.29	3	0.92
Armeria	-	-	-	-	1	0.38	-	-	1	0.25	2	0.46	-	-	1	0.31
Polemonium	-	-	-	-	-	-	-	-	-	-	1	0.23	3	0.86	2	0.61
Campanula	-	-	-	-	-	-	-	-	1	0.25	-	-	2	0.57	1	0.31
Galium	-	-	-	-	-	-	3	0.99	4	0.98	9	2.07	6	1.71	8	2.44
Artemisia	2	1.04	-	-	1	0.38	18	5.92	10	2.46	37	8.51	23	6.55	29	8.84
Other Compositae	4	2.07	3	1.02	-	-	1	0.33	3	0.74	2	0.46	5	1.43	-	-
Cyperaceae	6	3.11	22	7.48	9	3.44	35	11.51	28	6.88	71	16.32	67	19.09	78	23.78
Gramineae	23	11.92	31	10.54	7	2.67	49	16.12	66	16.22	112	25.75	124	35.33	94	28.66
	39	20.21	71	24.15	25	9.54	120	39.47	127	31.20	266	61.15	254	72.37	229	69.82
FERNS and MOSSES																
Lycopodium	-	-	-	-	-	-	1	0.33	6	1.47	24	5.52	9	2.56	5	1.52
Selaginella	-	-	-	-	-	-	-	-	-	-	7	1.61	11	3.13	19	5.79
Dryopteris	3	1.55	5	1.70	11	4.20	2	0.66	-	-	-	-	-	-	-	-
Polypodium	8	4.15	17	5.78	6	2.29	1	0.33	2	0.49	1	0.23	-	-	1	0.31
	11	5.70	22	7.48	17	6.49	4	1.32	8	1.97	32	7.36	20	5.70	25	7.62
TOTALS	193	100.00	294	100.00	262	100.00	304	100.00	407	100.00	435	100.00	351	100.01	328	100.00
Layer No.	A1						B1-1				B1-2				B1-3	

contd.../2

Table 33 (contd) SUN HOLE, 1968 : POLLEN ANALYSIS (contd)

Sample No.	9		10		11		12		13		14		15		16	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abies	1	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	1	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	1	0.33	-	-	-	-	1	0.63	-	-	-	-	-	-	1	0.34
Corylus	-	-	2	1.02	-	-	-	-	-	-	-	-	-	-	2	0.69
Quercus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picea	-	-	-	-	2	1.33	-	-	-	-	-	-	-	-	-	-
Pinus	3	0.98	1	0.51	-	-	2	1.26	-	-	-	-	-	-	1	0.34
Betula	6	1.95	14	7.14	4	2.65	21	13.21	3	0.82	-	-	2	1.01	8	2.74
Juniperus	9	2.93	15	7.65	3	1.99	7	4.40	1	0.27	-	-	-	-	3	1.03
Salix	18	5.86	8	4.08	7	4.64	3	1.89	16	4.35	5	2.14	11	5.56	23	7.88
Helianthemum	2	0.65	7	3.57	-	-	-	-	-	-	-	-	1	0.51	2	0.69
Hippophaë	12	3.91	9	4.59	1	0.66	2	1.26	-	-	-	-	-	-	-	-
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empetrum	1	0.33	5	2.55	-	-	1	0.63	-	-	-	-	-	-	-	-
	54	17.59	61	31.12	17	11.26	37	23.27	20	5.44	5	2.14	14	7.07	40	13.70
HERBS																
Ranunculus	-	-	3	1.53	-	-	1	0.63	-	-	-	-	2	1.01	4	1.37
Thalictrum	-	-	-	-	1	0.66	1	0.63	2	0.54	5	2.14	1	0.51	3	1.03
Chenopodiaceae	3	0.98	1	0.51	-	-	-	-	-	-	-	-	-	-	-	-
Rumex	12	3.91	4	2.04	5	3.31	1	0.63	13	3.53	11	4.70	8	4.04	2	0.69
Urtica	1	0.33	6	3.06	-	-	1	0.63	-	-	-	-	-	-	3	1.03
Armeria	-	-	2	1.02	-	-	-	-	1	0.27	-	-	1	0.51	4	1.37
Polemonium	-	-	-	-	2	1.33	-	-	3	0.82	1	0.43	-	-	1	0.34
Campanula	-	-	3	1.53	-	-	2	1.26	1	0.27	-	-	-	-	-	-
Galium	19	6.19	1	0.51	3	1.99	1	0.63	17	4.62	26	11.11	9	4.55	2	0.69
Artemisia	15	4.89	18	9.18	24	15.89	13	8.18	35	9.51	12	5.13	4	2.02	29	9.93
Other Compositae	4	1.30	7	3.57	1	0.66	6	3.77	4	1.09	-	-	-	-	3	1.03
Cyperaceae	63	20.52	39	19.90	31	20.53	40	25.16	85	23.10	33	14.10	37	18.69	25	8.56
Gramineae	101	32.90	46	23.47	53	35.10	51	32.08	132	35.87	65	27.78	58	29.29	49	16.78
	218	71.01	120	79.47	117	73.59	117	73.59	293	79.62	153	65.39	120	60.61	125	42.81
FERNS and MOSSES																
Lycopodium	13	4.24	1	0.51	8	5.30	2	1.26	23	6.25	47	20.09	26	13.13	69	23.63
Selaginella	22	7.17	1	0.51	6	3.97	3	1.89	31	8.42	29	12.39	38	19.19	56	19.18
Dryopteris	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polypodium	-	-	3	1.53	-	-	-	-	1	0.27	-	-	-	-	2	0.69
	35	11.40	5	2.55	14	9.27	5	3.15	55	14.95	76	32.48	64	32.32	127	43.49
TOTALS	307	100.00	196	100.00	151	100.00	159	100.01	368	100.01	234	100.01	198	100.00	292	100.00
Layer No.	A2						B2-1		B2-2				B2-3		(B2-4)	

contd.../3

Table 33 (contd) SUN HOLE, 1968 : POLLEN ANALYSIS (contd)

Sample No.	17		18		19		20		21		22		23		24	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	1	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	-	-	-	-	-	-	-	-	1	0.49	-	-	-	-	-	-
Corylus	-	-	-	-	-	-	-	-	-	-	-	-	1	0.41	-	-
Quercus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	-	-	2	1.00	5	2.79	1	0.60	2	0.98	7	3.07	6	2.45	1	1.30
Betula	4	2.69	1	0.50	9	5.03	3	1.79	11	5.37	25	10.97	8	3.27	23	29.87
Juniperus	-	-	-	-	4	2.24	5	2.98	3	1.46	13	5.70	34	13.88	2	2.60
Salix	9	6.04	7	3.50	13	7.26	8	4.76	28	13.66	21	9.21	16	6.53	3	3.90
Helianthemum	-	-	-	-	2	1.12	-	-	1	0.49	-	-	1	0.41	-	-
Hippophaë	1	0.67	-	-	-	-	-	-	2	0.98	1	0.44	3	1.22	-	-
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empetrum	-	-	-	-	-	-	-	-	-	-	1	0.44	3	1.22	2	2.60
	15	10.07	10	5.00	33	18.44	17	10.12	48	23.42	68	29.83	72	29.39	31	40.26
HERBS																
Ranunculus	-	-	-	-	1	0.56	-	-	1	0.49	-	-	2	0.82	-	-
Thalictrum	-	-	1	0.50	2	1.12	-	-	-	-	1	0.44	-	-	-	-
Chenopodiaceae	-	-	-	-	1	0.56	-	-	2	0.98	1	0.44	-	-	-	-
Rumex	9	6.04	3	1.50	4	2.24	11	6.55	6	2.93	3	1.32	7	2.86	-	-
Urtica	-	-	1	0.50	-	-	2	1.19	1	0.49	-	-	-	-	-	-
Armeria	2	1.34	-	-	-	-	1	0.60	-	-	-	-	1	0.41	2	2.60
Polemonium	2	1.34	1	0.50	-	-	-	-	1	0.49	-	-	2	0.82	-	-
Campanula	1	0.67	-	-	1	0.56	-	-	-	-	2	0.88	-	-	-	-
Galium	4	2.69	6	3.00	3	1.68	4	2.38	8	3.90	5	2.19	9	3.67	3	3.90
Artemisia	15	10.07	7	3.50	12	6.70	6	3.57	14	6.83	23	10.09	18	7.35	2	2.60
Other Compositae	1	0.67	2	1.00	-	-	1	0.60	-	-	2	0.88	3	1.22	-	-
Cyperaceae	19	12.75	29	14.50	31	17.32	36	21.43	51	24.88	67	29.39	42	17.14	15	19.48
Gramineae	28	18.79	41	20.50	52	29.05	72	42.86	60	29.27	53	23.25	77	31.43	22	28.57
	81	54.36	91	45.50	107	59.78	133	79.17	144	70.24	157	68.86	161	65.71	44	57.14
FERNS and MOSSES																
Lycopodium	26	13.13	69	23.63	32	21.48	11	6.55	9	4.39	2	0.88	12	4.90	1	1.30
Selaginella	38	19.19	56	19.18	21	14.09	7	4.17	3	1.46	1	0.44	-	-	-	-
Dryopteris	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polypodium	-	-	2	0.69	-	-	-	-	1	0.49	-	-	-	-	1	1.30
	64	32.32	127	43.49	53	35.57	18	10.71	13	6.34	3	1.32	12	4.90	2	2.60
TOTALS	198	100.00	292	100.00	149	100.00	168	100.00	205	100.00	228	100.01	245	100.00	77	100.00
Layer No.	B2-4										B2-5		B2-7		B2-8	

contd.../4

Table 33 (contd) SUN HOLE, 1968 : POLLEN ANALYSIS (contd)

Sample No.	25		26		27		28		29		30	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS												
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-
Abies	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	-	-	-	-	-	-	-	-	2	1.12	-	-
Ulmus	-	-	-	-	-	-	-	-	1	0.56	2	1.33
Alnus	1	0.94	-	-	-	-	-	-	3	1.69	1	0.67
Corylus	-	-	-	-	2	1.01	7	4.80	41	23.03	56	37.33
Quercus	-	-	-	-	-	-	-	-	-	-	4	2.67
Picea	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	3	2.80	-	-	2	1.01	16	10.96	28	15.73	35	23.33
Betula	16	14.95	10	4.98	31	15.58	45	30.82	59	33.15	13	8.67
Juniperus	-	-	14	6.97	3	1.51	-	-	-	-	-	-
Salix	12	11.22	27	13.43	4	2.01	1	0.69	-	-	-	-
Helianthemum	-	-	1	0.50	-	-	-	-	-	-	-	-
Hippophaë	-	-	1	0.50	1	0.50	-	-	-	-	-	-
Hedera	-	-	-	-	1	0.50	3	2.06	1	0.56	2	1.33
Calluna/Erica	-	-	2	1.00	7	3.52	3	2.06	1	0.56	-	-
Empetrum	1	0.94	3	1.49	2	1.01	-	-	-	-	-	-
	33	30.84	58	28.86	53	26.63	75	51.37	136	76.40	113	75.33
HERBS												
Ranunculus	1	0.94	-	-	3	1.51	-	-	-	-	-	-
Thalictrum	-	-	1	0.50	-	-	-	-	-	-	-	-
Chenopodiaceae	-	-	2	1.00	4	2.01	-	-	-	-	1	0.67
Rumex	2	1.87	9	4.48	1	0.50	-	-	-	-	-	-
Urtica	-	-	1	0.50	3	1.51	2	1.37	4	2.25	2	1.33
Armeria	-	-	-	-	1	0.50	-	-	-	-	-	-
Polemonium	-	-	1	0.50	2	1.01	-	-	-	-	-	-
Campanula	1	0.94	-	-	1	0.50	-	-	1	0.56	-	-
Galium	1	0.94	3	1.49	1	0.50	2	1.37	-	-	-	-
Artemisia	7	6.54	15	7.46	1	0.50	-	-	-	-	-	-
Other Compositae	-	-	4	1.99	6	3.02	7	4.80	5	2.81	12	8.00
Cyperaceae	26	24.30	22	10.95	49	24.62	14	9.59	6	3.37	8	5.33
Gramineae	31	28.97	49	24.38	63	31.66	26	17.81	19	10.67	11	7.33
	69	64.49	107	53.23	135	67.84	51	34.93	35	19.66	34	22.67
FERNS and MOSSES												
Lycopodium	4	3.74	23	11.44	2	1.01	3	2006	-	-	-	-
Selaginella	1	0.94	10	4.98	3	1.51	-	-	-	-	-	-
Dryopteris	-	-	1	0.50	2	1.01	5	3.43	4	2.25	1	0.67
Polypodium	-	-	2	1.00	4	2.01	12	8.22	3	1.69	2	1.33
	5	4.67	36	17.91	11	5.53	20	13.70	7	3.93	3	2.00
TOTALS	107	100.00	201	100.00	199	100.00	146	100.00	178	99.99	150	100.00
Layer No.	B2-9				C/B		C					

Table 34

CATHOLE, 1968 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS														
Tilia	2	1.24	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	1	0.62	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	4	2.48	-	-	-	-	-	-	-	-	-	-	-	-
Corylus	3	1.86	-	-	-	-	-	-	-	-	1	0.72	-	-
Quercus	1	0.62	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	4	2.48	5	2.48	1	0.54	-	-	3	2.38	1	0.72	6	3.45
Betula	13	8.08	8	3.96	5	2.67	1	0.44	4	3.18	15	10.79	3	1.72
Juniperus	7	4.35	11	5.45	4	2.14	-	-	2	1.59	1	0.72	19	10.92
Salix	11	6.83	24	11.88	41	21.93	13	5.70	16	12.70	9	6.48	12	6.90
Helianthemum	1	0.62	-	-	-	-	-	-	-	-	2	1.44	-	-
Hippophaë	2	1.24	-	-	1	0.54	-	-	-	-	-	-	1	0.58
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	8	4.97	-	-	-	-	-	-	-	-	-	-	1	0.58
Empetrum	5	3.11	3	1.49	-	-	-	-	-	-	1	0.72	1	0.58
	62	38.51	51	25.25	52	27.81	14	6.14	25	19.84	30	21.58	43	24.71
HERBS														
Ranunculus	1	0.62	2	0.99	-	-	-	-	-	-	3	2.16	1	0.58
Thalictrum	-	-	3	1.49	1	0.54	2	0.88	1	0.79	-	-	-	-
Chenopodiaceae	2	1.24	-	-	-	-	-	-	1	0.79	2	1.44	1	0.58
Rumex	-	-	12	5.94	5	2.67	1	0.44	3	2.38	-	-	2	1.15
Urtica	3	1.86	1	0.55	-	-	-	-	-	-	1	0.72	-	-
Armeria	1	0.62	2	0.99	1	0.54	-	-	-	-	2	1.44	-	-
Polemonium	-	-	1	0.55	-	-	2	0.88	1	0.79	-	-	-	-
Plantago	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Campanula	1	0.62	-	-	-	-	-	-	-	-	1	0.72	-	-
Galium	-	-	2	0.99	4	2.14	3	1.32	5	3.97	2	1.44	6	3.45
Artemisia	4	2.48	17	8.42	21	11.23	10	4.39	13	10.32	5	3.60	18	10.35
Other Compositae	2	1.24	1	0.55	3	1.60	6	2.63	1	0.79	7	5.04	4	2.30
Cyperaceae	23	14.29	39	19.31	28	14.97	47	20.61	31	24.60	36	25.90	22	12.64
Gramineae	48	29.81	62	30.69	53	28.34	72	31.58	27	21.43	42	30.22	59	33.91
	85	52.80	142	70.30	116	62.03	143	62.72	83	65.87	101	72.66	114	65.52
FERNS and MOSSES														
Lycopodium	-	-	4	1.98	7	3.74	40	17.54	13	10.32	6	4.32	17	9.77
Selaginella	-	-	3	1.49	12	6.42	31	13.60	5	3.97	1	0.72	-	-
Pteridium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dryopteris	4	2.48	-	-	-	-	-	-	-	-	-	-	-	-
Polypodium	10	6.21	2	0.99	-	-	-	-	-	-	1	0.72	-	-
	14	8.70	9	4.46	19	10.16	71	31.14	18	14.29	8	5.76	17	9.77
TOTALS	161	100.01	202	100.01	187	100.00	228	100.00	126	100.00	139	100.00	174	100.00
Layer No.	A1		A2		A3				ISB		LOB		MSB	

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Table 34 (contd) CATHOLE, 1968 : POLLEN ANALYSIS (contd.)

Sample No.	8		9		10		11		12		13	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS												
Tilia	-	-	-	-	-	-	-	-	1	0.90	1	0.65
Ulmus	-	-	-	-	1	1.01	4	5.56	-	-	-	-
Alnus	-	-	2	1.27	1	1.01	23	31.94	27	24.32	15	9.74
Corylus	-	-	1	0.63	14	14.14	2	2.78	11	9.91	21	13.64
Quercus	-	-	-	-	2	2.02	22	30.56	19	17.12	1	0.65
Pinus	1	1.02	4	2.53	13	13.13	2	2.78	-	-	3	1.95
Betula	29	29.59	11	6.96	18	18.18	3	4.17	5	4.51	33	21.43
Juniperus	2	2.04	5	3.17	-	-	-	-	-	-	-	-
Salix	3	3.06	8	5.06	2	2.02	-	-	2	1.80	1	0.65
Helianthemum	-	-	-	-	-	-	-	-	-	-	-	-
Hippophaë	-	-	-	-	-	-	-	-	-	-	-	-
Hedera	-	-	-	-	2	2.02	3	4.17	-	-	2	1.30
Calluna/Erica	-	-	2	1.27	3	3.03	-	-	3	2.70	-	-
Empetrum	-	-	-	-	-	-	-	-	-	-	-	-
	35	35.71	33	20.89	56	56.57	59	81.94	68	61.26	77	50.00
HERBS												
Ranunculus	-	-	3	1.90	2	2.02	-	-	-	-	2	1.30
Thalictrum	-	-	2	1.27	-	-	-	-	-	-	-	-
Chenopodiaceae	2	2.04	-	-	1	1.01	-	-	1	0.90	3	1.95
Rumex	-	-	5	3.17	-	-	-	-	2	1.80	1	0.65
Urtica	1	1.02	2	1.27	1	1.01	3	4.17	1	0.90	6	3.90
Armeria	-	-	1	0.63	-	-	-	-	-	-	-	-
Polemonium	1	1.02	-	-	-	-	-	-	-	-	-	-
Plantago	-	-	2	1.27	-	-	1	1.39	3	2.70	4	2.60
Campanula	-	-	-	-	1	1.01	-	-	-	-	-	-
Galium	1	1.02	9	5.70	2	2.02	-	-	1	0.90	-	-
Artemisia	2	2.04	12	7.60	-	-	-	-	4	3.60	2	1.30
Other Compositae	1	1.02	2	1.27	3	3.03	1	1.39	-	-	18	11.69
Cyperaceae	17	17.35	29	18.35	10	10.10	4	5.56	3	2.70	7	4.55
Graminaeae	34	34.69	41	25.95	18	18.18	2	2.78	15	13.51	24	15.58
	59	60.20	108	68.35	38	38.38	11	15.28	30	27.03	67	43.51
FERNS and MOSSES												
Lycopodium	1	1.02	9	5.70	2	2.02	-	-	-	-	2	1.30
Selaginella	-	-	2	1.27	-	-	-	-	-	-	-	-
Pteridium	-	-	-	-	-	-	1	1.39	8	7.21	4	2.60
Dryopteris	2	2.04	4	2.53	2	2.02	1	1.39	3	2.70	1	0.65
Polypodium	1	1.02	2	1.27	1	1.01	-	-	2	1.80	3	1.95
	4	4.08	17	10.76	5	5.05	2	2.78	13	11.71	10	6.49
TOTALS	98	99.99	158	100.00	99	100.00	72	100.00	111	100.00	154	100.00
Layer No.	UOB		UEB		C		D		E		F	

Table 35 LONG HOLE, 1969 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	1	0.83	-	-	3	3.03	-	-	-	-	-	-	-	-	-	-
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corylus	4	3.33	2	2.33	2	2.02	-	-	-	-	-	-	-	-	-	-
Fagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus	2	1.67	-	-	1	1.01	-	-	-	-	-	-	-	-	-	-
Fraxinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picea	3	2.50	-	-	11	11.11	-	-	-	-	-	-	-	-	-	-
Pinus	18	15.00	14	16.28	23	23.23	4	3.42	-	-	1	1.10	-	-	-	-
Betula	13	10.83	11	12.79	17	17.17	6	5.13	3	5.09	4	4.40	5	4.63	5	5.38
Juniperus	2	1.67	5	5.81	-	-	3	2.56	4	6.78	6	6.59	11	10.1	3	3.23
Salix	7	5.83	3	3.49	4	4.04	12	10.26	5	8.48	5	5.50	7	6.48	8	8.60
Helianthemum	-	-	-	-	-	-	1	0.86	-	-	-	-	-	-	-	-
Dryas?	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hippophaë	-	-	-	-	-	-	-	-	-	-	1	1.10	3	2.78	4	4.30
Hedera	2	1.67	-	-	1	1.01	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	13	10.8	6	6.98	8	8.08	-	-	-	-	-	-	-	-	-	-
Empetrum	-	-	-	-	-	-	2	1.71	-	-	2	2.20	-	-	-	-
	65	54.17	41	47.67	70	70.71	28	25.93	12	20.34	19	20.88	26	24.07	20	21.51
HERBS																
Ranunculus	1	0.83	1	1.16	-	-	1	0.86	1	1.70	-	-	-	-	1	1.08
Thalictrum	-	-	-	-	-	-	7	5.98	2	3.39	-	-	-	-	2	2.15
Chenopodiaceae	-	-	-	-	-	-	-	-	2	3.39	-	-	-	-	5	5.38
Polygonum	-	-	-	-	-	-	2	1.71	-	-	-	-	-	-	-	-
Rumex	3	2.50	1	1.16	-	-	-	-	1	1.70	1	1.10	3	2.78	-	-
Urtica	-	-	-	-	-	-	-	-	-	-	2	2.20	-	-	-	-
Armeria	-	-	-	-	-	-	2	1.71	-	-	-	-	1	0.93	-	-
Polemonium	-	-	-	-	-	-	-	-	-	-	1	1.10	-	-	-	-
Plantago	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Campanula	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galium	-	-	-	-	-	-	-	-	-	-	-	-	3	2.78	5	5.38
Succisa	1	0.83	-	-	-	-	1	0.86	-	-	1	1.10	-	-	-	-
Artemisia	1	0.83	4	4.65	2	2.02	2	1.71	2	3.39	3	3.30	4	3.70	8	8.60
Other Compositae	2	1.67	1	1.16	1	1.01	4	3.42	5	8.48	8	8.79	9	8.33	4	4.30
Cyperaceae	17	14.17	20	23.26	12	12.12	29	24.79	10	16.95	18	19.78	29	26.85	16	17.20
Gramineae	26	21.67	17	19.77	14	14.14	41	35.04	23	38.98	32	35.17	23	21.30	27	29.03
	51	42.50	44	51.16	29	29.29	89	76.07	46	77.97	66	72.53	72	66.67	68	73.12
FERNS and MOSSES																
Lycopodium	-	-	-	-	-	-	-	-	1	1.70	5	5.50	3	2.78	1	1.08
Selaginella	-	-	-	-	-	-	-	-	-	-	1	1.10	4	3.70	3	3.23
Pteridium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dryopteris	-	-	-	-	-	-	-	-	-	-	-	-	1	0.93	1	1.08
Polypodium	4	3.33	1	1.16	-	-	-	-	-	-	-	-	-	-	-	-
Botrychium?	-	-	-	-	-	-	-	-	-	-	-	-	2	1.85	-	-
	4	3.33	1	1.16	-	-	-	-	1	1.70	6	6.60	10	9.26	5	5.38
TOTALS	120	100.00	86	99.99	99	100.00	117	100.00	59	100.01	91	100.01	108	100.00	93	100.01
Layer No.	A2a		A2b				A2c		A3a		A3b					

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Table 35 (contd) LONG HOLE, 1969 : POLLEN ANALYSIS (contd)

Sample No.	9		10		11		12		13		14		15	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS														
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corylus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fraxinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picea	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	-	-	-	-	-	-	-	-	-	-	4	6.25	-	-
Betula	3	2.01	3	1.67	4	6.70	1	1.22	6	4.48	12	18.75	4	4.49
Juniperus	2	1.34	-	-	2	3.45	2	2.44	16	11.94	3	4.69	3	3.37
Salix	5	3.36	4	2.22	3	5.17	4	4.88	8	5.97	2	3.13	6	6.74
Helianthemum	-	-	-	-	-	-	-	-	1	0.75	-	-	1	1.12
Dryas?	-	-	1	0.56	-	-	-	-	-	-	-	-	-	-
Hippophaë	1	0.67	-	-	-	-	1	1.22	3	2.24	-	-	1	1.12
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empetrum	-	-	-	-	-	-	-	-	3	2.24	2	3.13	1	1.12
	11	7.38	8	4.44	9	15.52	8	9.76	37	27.61	23	35.94	16	17.98
HERBS														
Ranunculus	3	2.01	-	-	-	-	1	1.22	1	0.75	-	-	-	-
Thalictrum	4	2.69	2	1.11	-	-	2	2.44	-	-	-	-	-	-
Chenopodiaceae	9	6.04	6	3.33	1	1.72	7	8.54	4	2.99	1	1.56	2	2.25
Polygonum	-	-	-	-	-	-	-	-	-	-	1	1.56	-	-
Rumex	7	4.70	14	7.78	-	-	3	3.66	1	0.75	-	-	3	3.37
Urtica	-	-	-	-	-	-	-	-	1	0.75	-	-	-	-
Armeria	3	2.01	-	-	-	-	-	-	2	1.49	1	1.56	-	-
Polemonium	-	-	1	0.56	-	-	-	-	-	-	-	-	1	1.12
Plantago	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Campanula	-	-	-	-	-	-	-	-	2	1.49	-	-	-	-
Galium	8	5.40	4	2.22	4	6.70	1	1.22	3	2.24	-	-	-	-
Succisa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Artemisia	12	8.05	15	8.33	2	3.45	1	1.22	8	5.97	1	1.56	4	4.49
Other Compositae	14	9.40	8	4.44	3	5.17	4	4.88	12	8.96	2	3.13	6	6.74
Cyperaceae	27	18.12	52	28.89	11	18.97	22	26.83	24	17.91	11	17.19	31	34.83
Gramineae	35	23.49	60	33.33	21	36.21	29	35.37	33	24.63	20	31.25	25	28.09
	122	81.88	162	90.00	42	72.41	70	85.37	91	67.91	37	57.81	72	80.90
FERNS and MOSSES														
Lycopodium	9	6.04	7	3.89	3	5.17	3	3.66	1	0.75	1	1.56	1	1.12
Selaginella	4	2.69	3	1.67	4	6.70	-	-	2	1.49	1	1.56	-	-
Pteridium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dryopteris	-	-	-	-	-	-	1	1.22	3	2.24	2	3.13	-	-
Polypodium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Botrychium?	3	2.01	-	-	-	-	-	-	-	-	-	-	-	-
	16	10.74	10	5.56	7	12.07	4	4.88	6	4.48	4	6.25	1	1.12
TOTALS	149	100.00	180	100.00	58	100.00	82	100.01	134	100.00	64	100.00	89	100.00

Layer No.	(A3b)	A3c	SB	OB

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Sample No.	16		17		18		19		20		21		22	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS														
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	3	2.86
Tilia	-	-	-	-	-	-	2	2.47	6	7.06	-	-	-	-
Ulmus	-	-	-	-	2	2.11	7	8.64	9	10.59	-	-	-	-
Alnus	-	-	-	-	4	4.21	8	9.88	3	3.53	-	-	2	1.91
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	1	0.95
Corylus	1	1.43	3	4.76	7	7.37	11	13.58	7	8.24	3	3.13	-	-
Fagus	-	-	-	-	-	-	-	-	-	-	6	6.35	13	12.38
Quercus	-	-	-	-	1	1.05	4	4.94	18	21.18	7	7.29	7	6.67
Fraxinus	-	-	-	-	-	-	-	-	3	3.53	-	-	-	-
Picea	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	6	8.57	8	12.70	12	12.63	16	19.75	3	3.53	1	1.04	4	3.81
Betula	14	20.00	21	33.33	27	28.42	10	12.35	5	5.88	4	4.17	9	8.57
Juniperus	6	8.57	1	1.59	-	-	-	-	-	-	-	-	-	-
Salix	3	4.29	4	6.35	4	4.21	5	6.17	1	1.18	-	-	-	-
Helianthemum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dryas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hippophaë	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hedera	-	-	-	-	-	-	1	1.24	3	3.53	-	-	4	3.81
Calluna/Erica	-	-	-	-	2	2.11	-	-	2	2.35	13	13.54	-	-
Empetrum	2	2.86	-	-	-	-	-	-	-	-	-	-	-	-
	32	45.71	37	58.73	59	62.11	64	79.01	60	70.59	34	35.42	43	40.95
HERBS														
Ranunculus	-	-	-	-	1	1.05	-	-	-	-	-	-	-	-
Thalictrum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chenopodiaceae	3	4.29	-	-	4	4.21	3	3.70	3	3.53	-	-	5	4.76
Polygonum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rumex	1	1.43	-	-	1	1.05	-	-	-	-	-	-	-	-
Urtica	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Armeria	1	1.43	-	-	-	-	-	-	-	-	-	-	-	-
Polemonium	-	-	1	1.59	-	-	-	-	-	-	-	-	-	-
Plantago	-	-	-	-	-	-	-	-	-	-	7	7.29	4	3.81
Campanula	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Succisa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Artemisia	1	1.43	-	-	-	-	-	-	-	-	-	-	-	-
Other Compositae	2	2.86	3	4.76	4	4.21	-	-	2	2.35	3	3.13	7	6.67
Cyperaceae	7	10.00	6	9.52	6	6.32	2	2.47	2	2.35	12	12.50	6	5.71
Gramineae	22	31.43	11	17.46	12	12.63	4	4.94	6	7.06	20	20.83	23	21.91
	37	52.86	21	33.33	28	29.47	9	11.11	13	15.29	42	43.75	45	42.86
FERNS and MOSSES														
Lycopodium	1	1.43	2	3.18	1	1.05	-	-	1	1.18	-	-	-	-
Selaginella	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pteridium	-	-	-	-	-	-	-	-	-	-	13	13.54	8	7.62
Dryopteris	-	-	1	1.59	4	4.21	4	4.94	7	8.24	4	4.17	2	1.91
Polypodium	-	-	2	3.18	3	3.16	4	4.94	4	4.71	3.	3.13	7	6.67
Botrychium?	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	1.43	5	7.94	8	8.42	8	9.88	12	14.12	20	20.83	17	16.19
TOTALS	70	100.00	63	100.00	95	100.00	81	100.00	85	100.00	96	100.00	105	100.00
Layer No.	OB				C/B				D				F	

Table 36 DEAD MAN'S CAVE, 1969 : POLLEN ANALYSIS

Sample No.	1		2		3		4	
	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS								
Alnus	-	-	4	6.45	-	-	-	-
Populus?	-	-	2	3.23	4	2.82	3	3.30
Pinus	2	3.70	1	1.61	9	6.34	4	4.40
Betula	1	1.85	3	4.84	11	7.75	2	2.20
Juniperus	4	7.41	6	9.68	12	8.45	3	3.30
Salix	7	12.96	6	9.68	15	10.56	6	6.59
Helianthemum	1	1.85	-	-	-	-	-	-
Hippophaë	1	1.85	-	-	-	-	1	1.10
Empetrum	3	5.56	2	3.23	9	6.34	3	3.30
	19	35.19	24	38.71	60	42.25	22	24.18
HERBS								
Ranunculus	1	1.85	-	-	3	2.11	2	2.20
Rumex	1	1.85	-	-	3	2.11	2	2.20
Urtica	1	1.85	3	4.84	4	2.82	2	2.20
Armeria	-	-	-	-	4	2.82	5	5.50
Galium	1	1.85	-	-	-	-	-	-
Valeriana	-	-	-	-	1	0.70	-	-
Artemisia	2	3.70	-	-	-	-	4	4.40
Other Compositae	1	1.85	2	3.23	6	4.23	3	3.30
Cyperaceae	11	20.37	13	20.97	23	16.20	13	14.29
Gramineae	17	31.48	18	29.03	32	22.54	28	30.80
	35	64.82	36	58.07	76	53.52	59	64.84
FERNS and MOSSES								
Lycopodium	-	-	-	-	2	1.41	-	-
Selaginella	-	-	-	-	-	-	1	1.10
Equisetum?	-	-	-	-	-	-	1	1.10
Dryopteris	-	-	1	1.61	4	2.82	5	5.50
Polypodium	-	-	1	1.61	-	-	3	3.30
	-	-	2	3.24	6	4.23	10	10.99
TOTALS	54	100.01	62	100.02	142	100.00	91	100.01
Layer No.	ISB				MSB		USB	

Table 37 MOTHER GRUNDY'S PARLOUR, 1969 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Tilia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2.50
Ulmus	-	-	-	-	-	-	-	-	-	-	1	1.96	5	7.58	3	3.75
Alnus	-	-	-	-	-	-	-	-	-	-	1	1.96	3	4.55	2	2.50
Corylus	-	-	-	-	-	-	-	-	-	-	4	7.84	19	28.79	7	8.75
Quercus	-	--	-	-	-	-	-	-	-	-	-	-	3	4.55	13	16.25
Fraxinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2.50
Pinus	-	-	1	1.00	-	-	2	2.63	-	-	6	11.77	14	21.21	-	-
Betula	-	-	7	7.00	3	3.23	7	9.21	3	5.66	13	25.49	4	6.06	3	3.75
Juniperus	-	-	4	4.00	1	1.08	3	3.95	1	1.89	2	3.92	-	-	2	2.50
Salix	1	1.82	2	2.00	5	5.38	8	10.53	5	9.43	1	1.96	-	-	3	3.75
Ilex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.25
Hippophaë	1	1.82	1	1.00	1	1.08	-	-	1	1.89	-	-	-	-	-	-
Viscum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.25
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	2	3.03	1	1.25
Calluna/Erica	-	-	-	-	-	-	-	-	-	-	-	-	2	3.03	1	1.25
Empetrum	-	-	-	-	-	-	1	1.32	2	3.77	-	-	-	-	-	-
	2	3.64	15	15.00	10	10.75	21	27.63	12	22.64	28	54.90	52	78.79	41	51.25
HERBS																
Ranunculus	2	3.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chenopodiaceae	3	5.46	2	2.00	3	3.23	3	3.95	2	3.77	-	-	-	-	2	2.50
Epilobium	2	3.64	-	-	-	-	-	-	-	-	-	-	-	-	1	1.25
Rumex	3	5.46	3	3.00	2	2.15	2	2.63	-	-	-	-	-	-	1	1.25
Urtica	-	-	-	-	-	-	2	2.63	-	-	-	-	-	-	2	2.50
Armeria	-	-	-	-	-	-	2	2.63	-	-	-	-	-	-	-	-
Primula	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2.50
Galium	1	1.82	2	2.00	1	1.08	-	-	-	-	-	-	-	-	-	-
Succisa	-	-	1	1.00	-	-	1	1.32	-	-	1	1.96	-	-	-	-
Artemisia	5	9.09	8	8.00	3	3.23	-	-	3	5.66	-	-	-	-	-	-
Other Compositae	3	5.46	11	11.00	6	6.45	5	6.58	2	3.77	4	7.84	1	1.52	17	21.25
Cyperaceae	8	14.55	13	13.00	24	25.81	11	14.47	10	18.87	5	9.80	3	4.55	2	2.50
Gramineae	18	32.73	29	29.00	38	40.86	20	26.32	18	33.96	9	17.65	2	3.03	6	7.50
	45	81.82	69	69.00	77	82.80	46	60.53	35	66.04	19	37.26	6	9.09	33	41.35
FERNS and MOSSES																
Lycopodium	5	9.09	9	9.00	4	4.30	3	3.95	4	7.55	-	-	-	-	2	2.50
Selaginella	2	3.64	4	4.00	2	2.15	2	2.63	1	1.89	-	-	-	-	-	-
Equisetum?	-	-	-	-	-	-	1	1.32	-	-	-	-	-	-	-	-
Dryopteris	-	-	-	-	-	-	2	2.63	-	-	3	5.88	5	7158	4	5.00
Polypodium	-	-	-	-	-	-	1	1.32	1	1.89	1	1.96	3	4.55	-	-
Botrychium?	1	1.82	3	3.00	-	-	-	-	-	-	-	-	-	-	-	-
	8	14.55	16	16.00	6	6.45	9	11.84	6	11.32	4	7.84	8	12.12	6	7.50
TOTALS	55	100.01	100	100.00	93	100.00	76	100.00	53	100.00	51	100.00	66	100.00	80	100.00
Layer No.	A						LB				SB		C		D	

Table 38 ROBIN HOOD'S CAVE, 1969 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Alnus	2	3.57	-	-	-	-	-	-	-	-	1	1.67	-	-	1	0.98
Pinus	4	7.14	-	-	-	-	-	-	3	4.05	6	10.00	3	4.17	4	3.92
Betula	13	23.21	2	2.30	4	5.63	7	5.19	13	17.57	22	36.67	7	9.72	5	4.90
Juniperus	3	5.36	3	3.45	11	15.49	2	1.48	1	1.35	-	-	1	1.39	-	-
Salix	6	10.71	7	8.05	8	11.27	11	8.15	2	2.70	1	1.67	2	2.78	7	6.86
Helianthemum	-	-	-	-	1	1.41	-	-	-	-	-	-	-	-	-	-
Hippophaë	1	1.79	-	-	2	2.82	3	2.22	-	-	-	-	2	2.78	4	3.92
Calluna/Erica	-	-	-	-	-	-	-	-	-	-	1	1.67	-	-	-	-
Empetrum	-	-	-	-	-	-	1	0.74	3	4.05	1	1.67	-	-	-	-
	29	51.79	12	13.79	26	36.62	24	17.79	22	29.73	32	53.33	15	20.83	21	20.59
HERBS																
Ranunculus	-	-	-	-	-	-	-	-	-	-	-	-	1	1.39	3	2.94
Chenopodiaceae	2	3.57	-	-	-	-	6	4.44	-	-	-	-	-	-	-	-
Epilobium	-	-	1	1.15	-	-	-	-	-	-	-	-	-	-	-	-
Rumex	-	-	4	4.60	3	4.23	7	5.19	1	1.35	-	-	3	4.17	1	0.98
Urtica	-	-	1	1.15	-	-	-	-	1	1.35	2	3.33	1	1.39	-	-
Armeria	-	-	-	-	1	1.41	1	0.74	2	2.70	1	1.67	1	1.39	3	2.94
Polemonium	-	-	1	1.15	-	-	-	-	-	-	-	-	-	-	-	-
Galium	-	-	-	-	-	-	2	1.48	1	1.35	-	-	1	1.39	1	0.98
Valeriana	-	-	-	-	-	-	-	-	1	1.35	-	-	-	-	-	-
Artemisia	3	5.36	6	6.90	2	2.82	9	6.67	-	-	-	-	6	8.33	9	8.82
Other Compositae	2	3.57	4	4.60	3	4.23	14	10.37	3	4.05	-	-	7	9.72	-	-
Cyperaceae	4	7.14	18	20.69	12	16.90	26	19.26	19	25.68	6	10.00	15	20.83	30	29.41
Gramineae	11	19.64	33	37.93	21	29.58	42	31.11	24	32.43	13	21.67	21	29.17	28	27.45
	22	39.29	68	78.16	42	59.16	107	79.26	52	70.27	22	36.67	56	77.78	75	73.53
FERNS and MOSSES																
Lycopodium	1	1.79	4	4.60	1	1.41	3	2.22	-	-	2	3.33	1	1.39	2	1.96
Selaginella	-	-	3	3.45	2	2.82	-	-	-	-	-	-	-	-	4	3.92
Dryopteris	3	5.36	-	-	-	-	1	0.74	-	-	3	5.00	-	-	-	-
Polypodium	1	1.79	-	-	-	-	-	-	-	-	1	1.67	-	-	-	-
	5	8.93	7	8.05	3	4.23	4	2.96	-	-	6	10.00	1	1.39	6	5.88
TOTALS	56	100.01	87	100.00	71	100.01	135	100.01	74	100.00	60	100.00	72	100.00	102	100.00
Layer No.	A		B/A		LSB		OB								USB	

Table 39 HENGISTBURY HEAD, 1968-69 : POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																
Carpinus	-	-	-	-	36	5.09	-	-	-	-	-	-	-	-	-	-
Abies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Larix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	-	-	4	1.54	-	-	-	-	-	-	-	-	-	-	1	0.10
Acer	-	-	12	4.63	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	6	2.03	3	1.16	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	-	-	15	5.79	11	1.56	-	-	2	0.70	-	-	5	0.81	38	3.76
Corylus	21	7.12	50	19.31	27	3.82	-	-	-	-	-	-	6	0.98	23	2.28
Fagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus	46	16.27	42	16.22	24	3.40	-	-	-	-	-	-	-	-	-	-
Fraxinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	35	11.86	22	8.49	59	8.35	-	-	4	1.41	1	0.11	-	-	5	0.50
Betula	15	5.09	8	3.09	21	2.97	-	-	2	0.70	6	0.64	39	6.35	211	20.89
B. cf. nana	-	-	-	-	-	-	13	3.64	18	6.34	41	4.39	26	4.24	67	6.63
Juniperus	4	1.36	-	-	-	-	1	0.28	16	5.63	125	13.37	58	9.45	44	4.36
Salix	6	2.03	2	0.77	13	1.84	26	7.28	38	13.38	82	8.77	32	5.21	45	4.46
Helianthemum	-	-	-	-	-	-	-	-	2	0.70	-	-	7	1.14	2	0.20
Ulex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hippophaë	3	1.02	-	-	-	-	-	-	9	3.17	12	1.28	11	1.79	8	0.79
Hedera	-	-	7	2.70	3	0.42	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	12	4.07	3	1.16	62	8.77	-	-	-	-	-	-	-	-	-	-
Empetrum	-	-	-	-	-	-	-	-	1	0.35	-	-	9	1.47	2	0.20
	150	50.85	168	64.87	256	36.21	40	11.20	92	32.39	267	28.56	193	31.43	446	44.16
HERBS																
Ranunculus	2	0.68	-	-	-	-	-	-	-	-	-	-	5	0.81	6	0.59
Thalictrum	-	-	-	-	-	-	3	0.84	1	0.35	3	0.32	3	0.49	1	0.10
Viola	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chenopodiaceae	4	1.36	1	0.39	-	-	-	-	-	-	1	0.11	12	1.95	1	0.10
Epilobium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Umbelliferae	-	-	-	-	18	2.55	-	-	-	-	-	-	-	-	-	-
Rumex	-	-	-	-	-	-	23	6.44	12	4.23	26	2.78	14	2.28	36	3.56
Urtica	3	1.02	3	1.16	16	2.26	-	-	-	-	-	-	6	0.98	11	1.09
Armeria	-	-	-	-	4	0.57	2	0.56	4	1.41	2	0.21	7	1.14	-	-
Plantago	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Campanula	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Valerisna	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Succisa	-	-	-	-	7	0.99	-	-	-	-	-	-	-	-	-	-
Artemisia	6	2.03	-	-	-	-	35	9.80	21	7.39	51	5.46	21	3.42	15	1.49
Other Compositae	13	4.41	-	-	14	1.98	8	2.24	5	1.76	14	1.50	11	1.79	-	-
Cyperaceae	43	14.58	26	10.04	142	20.09	75	21.01	52	18.31	230	24.60	109	17.75	177	17.53
Gramineae	18	6.10	7	2.70	112	15.84	133	37.26	81	28.52	279	29.84	212	34.53	293	29.01
	89	30.17	37	14.29	313	44.27	279	78.15	176	61.97	606	64.81	400	65.15	540	53.47
AQUATICS																
Nymphaea	-	-	6	2.32	38	5.38	-	-	-	-	-	-	-	-	-	-
Sagittaria	-	-	13	5.02	22	3.11	-	-	-	-	-	-	-	-	-	-
Typha	-	-	-	-	29	4.10	-	-	-	-	-	-	-	-	-	-
	-	-	19	7.34	89	12.59	-	-	-	-	-	-	-	-	-	-
FERNS and MOSSES																
Lycopodium	-	-	-	-	-	-	21	5.88	11	3.87	32	3.42	17	2.77	6	0.59
Selaginella	-	-	-	-	-	-	12	3.36	3	1.06	18	1.93	-	-	-	-
Pteridium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dryopteris	25	8.48	11	4.25	8	1.13	-	-	-	-	12	1.28	3	0.49	14	1.39
Polypodium	31	10.51	24	9.27	41	5.80	-	-	2	0.70	-	-	1	0.16	4	0.40
Botrychium	-	-	-	-	-	-	5	1.40	-	-	-	-	-	-	-	-
	56	18.98	35	13.51	49	6.93	38	10.64	16	5.63	62	6.63	21	3.42	24	2.38
TOTALS	295	100.00	259	100.01	707	100.00	357	99.99	284	99.99	935	100.00	614	100.00	1010	100.01
Layer No.	C1		C2		C3		B1		B2							

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Table 39 (contd) HENGISTBURY HEAD, 1968-69 : POLLEN ANALYSIS (contd.)

Sample No.	9		10		11		12		13		14		15		16		17	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES and SHRUBS																		
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	0.38
Larix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	1.37
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	1.14
Tilia	-	-	1	0.14	-	-	-	-	-	-	7	0.40	2	0.21	1	0.11	8	0.61
Acer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.08
Ulmus	-	-	-	-	5	0.33	3	0.31	8	0.63	69	3.89	17	1.82	2	0.22	35	2.67
Alnus	3	0.90	4	0.56	108	7.17	80	8.39	170	13.39	203	11.45	112	11.97	62	6.85	134	10.21
Corylus	-	-	2	0.28	184	12.12	145	15.20	204	16.06	274	15.45	117	12.50	55	6.08	146	11.12
Fagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	2.36
Quercus	-	-	-	-	-	-	7	0.73	15	1.18	112	6.32	57	6.09	41	4.53	30	2.29
Fraxinus	-	-	-	-	-	-	-	-	-	-	-	-	6	0.64	3	0.33	11	0.84
Pinus	-	-	-	-	32	2.12	222	23.27	284	22.36	308	17.37	2	0.21	3	0.33	19	1.45
Betula	7	2.11	19	2.66	257	17.07	110	11.53	94	7.40	210	11.84	101	10.79	48	5.30	111	8.46
B. cf. nana	24	7.23	68	9.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juniperus	6	1.81	15	2.10	54	3.59	63	6.60	12	0.95	-	-	-	-	-	-	13	0.99
Salix	68	20.48	51	7.14	12	0.80	18	1.89	32	2.52	83	4.68	19	2.03	9	0.99	32	2.44
Helianthemum	-	-	4	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hippophaë	1	0.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.08
Calluna/Erica	-	-	-	-	2	0.13	3	0.31	2	0.16	1	0.06	116	12.39	143	15.80	240	18.28
Empetrum	1	0.30	6	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	110	33.13	170	23.81	654	43.43	651	68.24	821	64.65	1267	71.46	549	58.65	367	40.55	875	66.64
HERBS																		
Ranunculus	-	-	3	0.42	-	-	-	-	-	-	-	-	4	0.43	13	1.44	4	0.31
Thalictrum	1	0.30	18	2.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Viola	-	-	-	-	-	-	-	-	-	-	-	-	1	0.11	-	-	13	0.99
Chenopodiaceae	2	0.60	9	1.26	27	1.79	7	0.73	-	-	-	-	7	0.75	9	0.99	6	0.46
Epilobium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.11	-	-
Umbelliferae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rumex	5	1.51	23	3.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Urtica	-	-	-	-	19	1.26	8	0.84	12	0.95	26	1.47	13	1.39	19	2.10	17	1.30
Armeria	-	-	7	0.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plantago	-	-	-	-	-	-	-	-	-	-	-	-	25	2.67	30	3.32	7	0.53
Campanula	-	-	-	-	8	0.53	1	0.11	-	-	-	-	-	-	-	-	-	-
Valeriana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	1.99	-	-
Succisa	-	-	-	-	-	-	-	-	-	-	-	-	3	0.32	1	0.11	2	0.15
Artemisia	13	3.92	37	5.18	38	2.52	-	-	-	-	-	-	-	-	-	-	-	-
Other Compositae	1	0.30	5	0.70	-	-	1	0.11	2	0.16	-	-	24	2.56	16	1.77	42	3.20
Cyperaceae	41	12.35	137	19.19	407	27.03	218	22.85	319	25.12	307	17.32	32	3.42	42	4.64	62	4.72
Gramineae	158	47.59	261	36.56	196	13.02	40	4.19	62	4.88	89	5.02	198	21.15	325	35.91	238	18.13
	221	66.57	500	70.03	695	46.15	275	28.83	395	31.10	422	23.80	307	32.80	474	52.38	391	29.78
AQUATICS																		
Nymphaea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sagittaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Typha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FERNS and MOSSES																		
Lycopodium	1	0.30	24	3.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selaginella	-	-	9	1.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pteridium	-	-	-	-	-	-	-	-	-	-	-	-	41	4.38	48	5.30	17	1.30
Dryopteris	-	-	8	1.12	127	8.43	25	2.62	53	4.17	67	3.78	27	2.89	12	1.33	18	1.37
Polypodium	-	-	3	0.42	30	1.99	3	0.31	1	0.08	17	0.96	12	1.28	4	0.44	12	0.91
Botrychium?	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	0.30	44	6.16	157	10.43	28	2.94	54	4.25	84	4.74	80	8.55	64	7.07	47	3.58
TOTALS	332	100.00	714	100.00	1506	100.01	954	100.01	1270	100.00	1773	100.00	936	100.00	905	100.00	1313	100.00
Layer No.	(B2)		A1a		A1b								A2				A3	

Table 40

HENGISTBURY HEAD, 1968-69 : TREE POLLEN ANALYSIS

Sample No.	1		2		3		4		5		6		7		8		9	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES																		
Abies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Larix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pinus	35	33.65	22	20.76	59	39.07	-	-	4	15.39	1	2.08	-	-	5	1.55	-	-
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilia	-	-	4	3.77	-	-	-	-	-	-	-	-	-	-	1	0.31	-	-
Acer	-	-	12	11.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus	6	5.77	3	2.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Betula	15	14.42	8	7.55	21	13.91	-	-	2	7.69	6	12.50	39	55.71	211	65.53	7	20.59
B.cf. nana	-	-	-	-	-	-	13	100.00	18	69.23	41	85.42	26	37.14	67	20.81	24	70.59
Alnus	-	-	15	14.15	11	7.29	-	-	2	7.69	-	-	5	7.14	38	11.80	3	8.82
Carpinus	-	-	-	-	36	23.84	-	-	-	-	-	-	-	-	-	-	-	-
Fagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus	48	46.15	42	39.62	24	15.89	-	-	-	-	-	-	-	-	-	-	-	-
Fraxinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	104	99.99	106	100.00	151	100.00	13	100.00	26	100.00	48	100.00	70	99.99	322	100.00	34	100.00
SHRUBS (% of Trees)																		
Juniperus	4	3.85	-	-	-	-	1	7.69	16	61.54	125	260.42	58	82.86	44	13.67	6	17.65
Helianthemum	-	-	-	-	-	-	-	-	2	7.69	-	-	7	10.00	2	0.62	-	-
Ulex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hippophaë	3	2.89	-	-	-	-	-	-	9	34.62	12	25.00	11	15.71	8	2.48	1	2.94
Hedera	-	-	7	6.60	3	1.99	-	-	-	-	-	-	-	-	-	-	-	-
Corylus	21	20.19	50	47.17	27	17.88	-	-	-	-	-	-	6	8.57	23	7.14	-	-
Salix	6	5.77	2	1.89	13	8.61	26	200.00	38	146.15	82	170.83	32	45.71	45	13.98	68	200.00
Empetrum	-	-	-	-	-	-	-	-	1	3.85	-	-	9	12.86	2	0.62	1	2.94
Calluna/Erica	12	11.54	3	2.83	62	41.06	-	-	-	-	-	-	-	-	-	-	-	-
	46	44.24	62	58.49	105	69.54	27	207.69	66	253.85	219	456.25	123	175.71	124	38.51	76	223.53
Layer No.	C1		C2		C3		B1		B2									

contd.../2

Table 40 (contd)

HENGISTBURY HEAD, 1968-69 : TREE POLLEN ANALYSIS (contd)

	10		11		12		13		14		15		16		17	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
TREES																
Abies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1.20
Larix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	4.31
Pinus	-	-	32	7.96	222	52.61	284	49.74	308	33.88	2	0.67	3	1.88	19	4.55
Taxus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	3.59
Tilia	1	1.09	-	-	-	-	-	-	7	0.77	2	0.67	1	0.63	8	1.91
Acer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.24
Ulmus	-	-	5	1.24	3	0.71	8	1.40	69	7.59	17	5.72	2	1.25	35	8.37
Betula	19	20.65	257	63.93	110	26.07	94	16.46	210	23.10	101	34.01	48	30.00	111	26.55
B. cf. nana	68	73.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alnus	4	4.35	108	26.87	80	18.96	170	29.77	203	22.33	112	37.71	62	38.75	134	32.06
Carpinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	7.42
Quercus	-	-	-	-	7	1.66	15	2.63	112	12.32	57	19.19	41	25.63	30	7.18
Fraxinus	-	-	-	-	-	-	-	-	-	-	6	2.02	3	1.88	11	2.63
	92	100.00	402	100.00	422	100.01	571	100.00	909	99.99	297	99.99	160	100.02	418	100.01
SHRUBS (% of Trees)																
Juniperus	15	16.30	54	13.43	63	14.93	12	2.10	-	-	-	-	-	-	13	3.11
Helianthemum	4	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	5.98
Hippophaë	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hedera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.24
Corylus	2	2.17	184	45.77	145	34.36	204	35.73	274	30.14	117	39.39	55	34.38	146	34.93
Salix	51	55.44	12	2.99	18	4.27	32	5.60	83	9.13	19	6.40	9	5.63	32	7.66
Empetrum	6	6.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calluna/Erica	-	-	2	0.50	3	0.71	2	0.35	1	0.11	116	30.06	143	89.38	240	57.42
	78	84.78	252	62.69	229	54.27	250	43.78	358	39.38	252	84.85	207	129.39	457	109.34
Layer No.	A1a		A1b								A2				A3	

Table 41 BADGER HOLE, 1968 : MAMMAL FAUNA

	TOTALS	Maxilla/ Teeth	Incisor	Canine	Premolar	Molar	Vertebra	Scapula	Metacarpal	Astragalus
Layer D/C										
Carnivora										
Meles meles	3	-	1	-	1	1	-	-	-	-
Canis sp.	1	-	-	-	-	-	1	-	-	-
Artiodactyla										
Ovis/Capra	2	1	-	-	-	-	-	-	-	1
Bison/Bos	1	-	-	-	-	1	-	-	-	-
Unidentified Bones										
Large Mammal Fragments	152									
Small Mammal Bones	3									
	162									
Layer B/A3										
Unidentified Bones										
Large Mammal Fragments	3									
Small Mammal Bones	1									
	4									
Layer Interface B/A3-A2										
Carnivora										
Ursus cf. *arctos*	2	-	1	1	-	-	-	-	-	-
Perissodactyla										
Coelodonta antiquitatis	1	-	-	-	-	1	-	-	-	-
Equus przewalskii	2	-	-	-	-	2	-	-	-	-
Rodentia										
Microtus gregalis	1	-	-	-	-	1	-	-	-	-
Dicrostonyx torquatus	2	-	-	-	-	2	-	-	-	-
Unidentified Bones										
Large Mammal Fragments	17									
Small Mammal Bones	23									
	48									
Layer A2										
Carnivora										
Crocuta crocuta	3	-	-	2	-	1	-	-	-	-
Felis sp.	1	-	-	-	1	-	-	-	-	-
Lutra lutra	1	-	-	-	-	-	-	1	-	-
Vulpes/Alopex	1	-	-	-	1	-	-	-	-	-
Ursus cf. *arctos*	2	-	-	1	-	1	-	-	-	-
Perissodactyla										
Equus przewalskii	1	-	-	-	-	-	-	-	1	-
Artiodactyla										
Megaloceros giganteus	1	-	-	-	-	-	-	-	1	-
Rangifer?	1	-	-	-	-	1	-	-	-	-
Unidentified Bones										
Large Mammal Fragments	102									
Small Mammal Bones	11									
	124									

Table 42

SUN HOLE, 1962 : MAMMAL FAUNA

	TOTALS	Mandible/ Teeth	Incisor	Canine	Premolar	Molar	Vertebra	Humerus	Calcaneum	Phalange
Layer C										
Unidentified Bones										
Large Mammal Fragments	1									
Small Mammal Bones	12									
	13									
Layer C/B										
Unidentified Bones										
Large Mammal Fragments	3									
Small Mammal Bones	3									
	6									
Layer B2-9										
Unidentified Bones										
Large Mammal Fragments	1									
Small Mammal Bones	32									
	33									
Layer B2-8										
Unidentified Bones										
Small Mammal Bones	37									
Layer B2-7										
Carnivora										
Vulpes vulpes	4	1	-	-	-	-	1	-	2	-
Ursus cf. *arctos*	6	1	-	-	1	1	-	1	-	2
Artiodactyla										
Rangifer?	1	1	-	-	-	-	-	-	-	-
Rodentia										
Arvicola terrestris	2	1	-	-	-	1	-	-	-	-
Microtus agrestis	2	2	-	-	-	-	-	-	-	-
M. gregalis	3	2	-	-	-	1	-	-	-	-
Lemmus lemmus	1	1	-	-	-	-	-	-	-	-
Dicrostonyx torquatus	4	1	-	-	-	3	-	-	-	-
Lagomorpha										
Lepus cf. *timidus*	1	-	-	-	-	1	-	-	-	-
Unidentified Bones										
Large Mammal Fragments	60									
Small Mammal Bones	52									
	134									
Layer B2-6										
Unidentified Bones										
Small Mammal Bones	20									
Layer B2-5										
Unidentified Bones										
Large Mammal Fragments	4									
Small Mammal Bones	34									
	38									

contd..../2

Table 42 (contd)

SUN HOLE, 1968 : MAMMAL FAUNA (contd)

	TOTALS
Layer B2-4	
Unidentified Bones	
Small Mammal Bones	36
Layer B2-3 STERILE	
Layer B2-2	
Unidentified Bones	
Small Mammal Bones	1
Layer B2-1	
Unidentified Bones	
Large Mammal Fragments	1
Layer A2	
Unidentified Bones	
Small Mammal Bones	1
Layer B1-3 STERILE	
Layer B1-2	
Unidentified Bones	
Small Mammal Bones	2
Layer B1-1 STERILE	
Layer A1	
Unidentified Bones	
Large Mammal Fragments	1

Table 43

CAEHOLE, 1968 : MAMMAL FAUNA

	TOTALS	Maxilla/ Teeth	Mandible/ Teeth	Incisor	Canine	Molar	Humerus	Metacarpal	Calcaneum
Layer F									
Insectivora									
Sorex cf. *araneus*	20	2	18	-	-	-	-	-	-
Crocidura cf. *russula*	1	-	1	-	-	-	-	-	-
Talpa europaea	2	-	2	-	-	-	-	-	-
Artiodactyla									
Ovis/Capra	3	-	-	-	-	3	-	-	-
Rodentia									
Clethrionomys glareolus	14	1	13	-	-	-	-	-	-
Microtus agrestis	92	6	85	-	-	1	-	-	-
Apodemus cf. *sylvaticus*	68	4	64	-	-	-	-	-	-
Rattus rattus	2	-	2	-	-	-	-	-	-
Lagomorpha									
Lepus cf. *europaeus*	1	-	1	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	37								
Small Mammal Bones	415								
	655								
Layer E									
Insectivora									
Sorex cf. *araneus*	20	-	20	-	-	-	-	-	-
Artiodactyla									
Ovis/Capra	3	1	-	-	-	1	-	1	-
Bos sp.	2	-	-	1	-	1	-	-	-
Rodentia									
Arvicola terrestris	1	-	-	-	-	1	-	-	-
Microtus agrestis	35	2	32	-	-	1	-	-	-
Apodemus sp.	3	-	3	-	-	-	-	-	-
A. cf. *sylvaticus*	21	1	20	-	-	-	-	-	-
Rattus rattus	3	1	2	-	-	-	-	-	-
Lagomorpha									
Oryctolagus cuniculus	1	-	1	-	-	-	-	-	-
Unidentified Bones									
large Mammal Fragments	73								
Small Mammal Bones	331								
	493								
Layer D									
Insectivora									
Sorex cf. *minutus*	2	-	2	-	-	-	-	-	-
S. cf. *araneus*	5	-	5	-	-	-	-	-	-
Talpa europaea	1	1	-	-	-	-	-	-	-
Carnivora									
Meles meles	1	-	-	-	1	-	-	-	-
Artiodactyla									
Capreolus capreolus	2	1	-	-	-	1	-	-	-
Rodentia									
Clethrionomys glareolus	1	-	1	-	-	-	-	-	-
Arvicola terrestris	1	-	1	-	-	-	-	-	-
Microtus agrestis	14	1	12	-	-	1	-	-	-
Apodemus cf. *sylvaticus*	6	1	5	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	25								
Small Mammal Bones	312								
	370								

contd..../2

Table 43 (contd)

CATHOLE, 1968 : MAMMAL FAUNA (contd)

	NISP	Maxilla/ Teeth	Mandible/ Teeth	Incisor	Canine	Molar	Humerus	Metacarpal	Calcaneum
Layer G									
Carnivora									
Vulpes vulpes	1	-	-	1	-	-	-	-	-
Rodentia									
Microtus agrestis	4	-	4	-	-	-	-	-	-
Apodemus sp.	1	-	1	-	-	-	-	-	-
A. cf. sylvaticus	2	-	2	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	107								
Small Mammal Bones	255								
	370								
Layer USB									
Carnivora									
Ursus cf. arctos	1	-	-	-	1	-	-	-	-
Rodentia									
Microtus gregalis	2	-	2	-	-	-	-	-	-
Lemmus lemmus	1	-	1	-	-	-	-	-	-
Dicrostonyx torquatus	3	-	3	-	-	-	-	-	-
Lagomorpha									
Lepus cf. timidus	1	-	1	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	5								
Small Mammal Bones	47								
	60								
Layer USB									
Rodentia									
Microtus agrestis	1	-	1	-	-	-	-	-	-
Lemmus lemmus	4	-	4	-	-	-	-	-	-
Apodemus cf. sylvaticus	1	-	1	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	81								
Small Mammal Bones	63								
	150								
Layer USB									
Carnivora									
Vulpes vulpes	1	-	-	-	-	-	-	-	1
Artiodactyla									
Rangifer?	1	-	-	-	-	1	-	-	-
Rodentia									
Microtus agrestis	1	-	1	-	-	-	-	-	-
M. gregalis	2	-	2	-	-	-	-	-	-
Dicrostonyx torquatus	4	-	4	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	80								
Small Mammal Bones	59								
	148								

contd.../3

Table 43 (contd) CATHOLE, 1968 : MAMMAL FAUNA (contd)

	TOTALS	Maxilla/ Teeth	Mandible/ Teeth	Incisor	Canine	Molar	Humerus	Metacarpal	Calcaneum
Layer 10B									
Insectivora									
Sorex cf. *minutus*	1	-	1	-	-	-	-	-	-
Carnivora									
Alopex lagopus	1	-	-	-	-	-	1	-	-
Ursus cf. *arctos*	1	-	-	-	1	-	-	-	-
Rodentia									
Microtus agrestis	9	-	9	-	-	-	-	-	-
M. gregalis	1	-	1	-	-	-	-	-	-
Dicrostonyx torquatus	15	-	15	-	-	-	-	-	-
Apodemus cf. *sylvaticus*	1	1	-	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	35								
Small Mammal Bones	801								
	865								
Layer 1SB									
Insectivora									
Sorex cf. *araneus*	1	-	1	-	-	-	-	-	-
Carnivora									
Alopex lagopus	2	-	-	1	-	-	1	-	-
Rodentia									
Microtus agrestis	3	-	3	-	-	-	-	-	-
M. gregalis	1	-	1	-	-	-	-	-	-
Dicrostonyx torquatus	25	-	25	-	-	-	-	-	-
Lagomorpha									
Lepus cf. *timidus*	1	-	-	-	-	1	-	-	-
Unidentified Bones									
Large Mammal Fragments	128								
Small Mammal Bones	714								
	875								
Layer A3 - STERILE									
Layer A2									
Insectivora									
Sorex cf. *minutus*	1	-	1	-	-	-	-	-	-
S. cf. *araneus*	1	-	1	-	-	-	-	-	-
Rodentia									
Dicrostonyx torquatus	2	-	2	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	35								
Small Mammal Bones	201								
	240								
Layer A1 - STERILE									

Table 44

LONG HOLE, 1969 : MAMMAL FAUNA

	TOTALS	Antler	Incisor/ Tusk	Canine	Premolar	Molar	Vertebra	Rib	Calcaneum
Layer D - STERILE									
Layer C/B									
Unidentified Bones									
Small Mammal Bones	2								
Layer CB									
Unidentified Bones									
Small Mammal Bones	10								
Layer SB									
Unidentified Bones									
Small Mammal Bones	3								
Layer A3c - STERILE									
Layer A3b									
Unidentified Bones									
Large Mammal Fragments	4								
Small Mammal Bones	5								
	9								
Layer A3a									
Carnivora									
Vulpes/Alopex	1	-	-	-	-	1	-	-	-
Perissodactyla									
Equus cf. przewalskii	2	-	1	-	-	1	-	-	-
Artiodactyla									
Rangifer tarandus	3	1	1	-	1	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	35								
Small Mammal Bones	4								
	45								
Layer A2c									
Carnivora									
Crocuta crocuta	1	-	1	-	-	-	-	-	-
Vulpes vulpes	2	-	-	1	-	-	-	-	1
Ursus cf. arctos	2	-	-	1	-	-	-	-	1
Proboscidea									
Mammuthus primigenius	1	-	1	-	-	-	-	-	-
Perissodactyla									
Coelodonta antiquitatis	1	-	-	-	-	-	1	-	-
Equus sp.	1	-	-	-	-	-	-	1	-
Artiodactyla									
Megaloceros giganteus	1	-	-	-	-	1	-	-	-
Rangifer tarandus	5	4	-	-	1	-	-	-	-
Lagomorpha									
Lepus sp.	1	-	1	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	167								
Small Mammal Bones	11								
Coprolites (Crocuta?)	7								
	199								

Contd.../2

Table 44 (contd) LONG HOLE, 1969 : MAMMAL FAUNA (contd)

	TOTALS	Antler	Incisor/ Tusk	Canine	Premolar	Molar	Vertebra	Rib	Calcaneum
Layer A2b									
Carnivora									
Martes cf. *martes*	1	-	1	-	-	-	-	-	-
Artiodactyla									
Alces alces	1	1	-	-	-	-	-	-	-
Unidentified Bones									
Large Mammal Fragments	10								
Small Mammal Bones	1								
	13								
Layer A2a									
Artiodactyla									
Bison/Bos	1	-	-	-	-	1	-	-	-
Unidentified Bones									
Large Mammal Fragments	30								
Coprolites (*Crocuta*?)	4								
	35								
Layer A1 - STERILE									

Table 45 MOTHER GRUNDY'S PARLOUR, 1969 : MAMMAL FAUNA

	TOTALS	Antler	Mandible/ Teeth	Incisor	Canine	Premolar	Molar	Metacarpal
Layer D								
Artiodactyla								
Sus scrofa	3	-	-	-	-	1	2	-
Capreolus?	2	-	-	-	-	-	2	-
Bison/Bos	3	-	-	-	-	-	3	-
Unidentified Bones								
Large Mammal Fragments	38							
	46							
Layer C								
Perissodactyla								
Equus przewalskii	2	-	-	-	-	-	2	-
Artiodactyla								
Bison/Bos	3	-	-	-	-	-	3	-
Unidentified Bones								
Large Mammal Fragments	60							
	65							
Layer SB								
Perissodactyla								
Equus przewalskii	10	-	-	-	-	-	10	-
Artiodactyla								
Cervus elaphus	1	1	-	-	-	-	-	-
Unidentified Bones								
Large Mammal Fragments	181							
Small Mammal Bones	3							
	195							
Layer LB								
Insectivora								
Sorex cf. *araneus*	1	-	1	-	-	-	-	-
Carnivora								
Ursus cf. *arctos*	1	-	-	-	1	-	-	-
Perissodactyla								
Equus przewalskii	6	-	-	-	-	-	5	1
Artiodactyla								
Megaloceros giganteus	3	-	-	3	-	-	-	-
Rodentia								
Microtus gregalis	1	-	1	-	-	-	-	-
Unidentified Bones								
Large Mammal Fragments	134							
Small Mammal Bones	30							
	176							
Layer A - STERILE								

Table 46

ROBIN HOOD'S CAVE, 1969 : MAMMAL FAUNA

	TOTALS	Antler	Maxilla/ Teeth	Mandible/ Teeth	Incisor	Canine	Premolar	Molar	Scapula	Rib	Humerus	Metacarpal	Tibia	Calcaneum	Astragalus
Layer C - STERILE ?															
Layer USB															
Carnivora															
Crocuta crocuta	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Perissodactyla															
Coelodonta antiquitatis	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Equus przewalskii	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Rodentia															
Microtus sp.	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
M. agrestis	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
M. gregalis	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Dicrostonyx torquatus	4	-	-	1	-	-	-	3	-	-	-	-	-	-	-
Lagomorpha															
Lepus cf. *timidus*	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Unidentified Bones															
Large Mammal Fragments	67														
Small Mammal Bones	48														
	126														
Layer OB															
Carnivora															
Crocuta crocuta	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-
Mustela sp.	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Ursus cf. *arctos*	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Perissodactyla															
Coelodonta antiquitatis	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Equus przewalskii	18	-	-	-	5	-	-	9	-	-	-	1	1	1	1
Artiodactyla															
Cervus elaphus	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Megaloceros giganteus	3	2	-	-	-	-	-	-	-	-	-	-	1	-	-
Rangifer tarandus	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Rodentia															
Microtus agrestis	3	-	1	2	-	-	-	-	-	-	-	-	-	-	-
M. gregalis	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Lemmus lemmus	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Dicrostonyx torquatus	4	-	-	2	-	-	-	2	-	-	-	-	-	-	-
Apodemus cf. *sylvaticus*	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Lagomorpha															
Ochotona cf. *pusilla*	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Lepus cf. *timidus*	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-
Unidentified Bones															
Large Mammal Fragments	380														
Small Mammal Bones	62														
	489														

contd.../2

Table 46 (contd)

ROBIN HOOD'S CAVE, 1969 : MAMMAL FAUNA (contd)

	TOTALS	Antler	Maxilla/ Teeth	Mandible/ Teeth	Incisor	Canine	Premolar	Molar	Scapula	Rib	Humerus	Metacarpal	Tibia	Calcaneum	Astragalus
Layer ISB															
Carnivora															
Crocuta crocuta	3	-	-	-	1	-	-	2	-	-	-	-	-	-	-
Alopex lagopus	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Perissodactyla															
Coelodonta antiquitatis	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Equus przewalskii	9	-	-	-	2	-	-	4	1	1	1	-	-	-	-
Artiodactyla															
Rangifer tarandus	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Rodentia															
Arvicola terrestris	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Microtus sp.	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
M. agrestis	3	-	1	1	-	-	-	1	-	-	-	-	-	-	-
Lemmus lemmus	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Dicrostonyx torquatus	6	-	-	6	-	-	-	-	-	-	-	-	-	-	-
Apodemus cf. *sylvaticus*	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Lagomorpha															
Lepus cf. *timidus*	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Unidentified Bones															
Large Mammal Fragments	405														
Small Mammal Bones	92														
	533														
Layer B/A															
Carnivora															
Crocuta crocuta	3	-	-	-	-	-	2	1	-	-	-	-	-	-	-
Vulpes vulpes	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Perissodactyla															
Coelodonta antiquitatis	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Equus przewalskii	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Artiodactyla															
Rangifer tarandus	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Capra cf. *ibex*	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Rodentia															
Dicrostonyx torquatus	3	-	-	2	-	-	-	1	-	-	-	-	-	-	-
Unidentified Bones															
Large Mammal Fragments	78														
Small Mammal Bones	64														
	154														
Layer A															
Carnivora															
Crocuta crocuta	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-
Canis lupus	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Vulpes vulpes	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Perissodactyla															
Coelodonta antiquitatis	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Unidentified Bones															
Large Mammal Fragments	69														
Small Mammal Bones	1														
	75														

Table 47

CATHOLE, 1968 : SMALL MAMMAL ANALYSIS

Layer No.	A1		A2		A3		LSB		LOB		MSB		UOB		USB		C		D		E		F	
Percentages of Total Teeth and/or Jaws	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Insectivora																								
Sorex cf. minutus	-	-	1	25.00	-	-	-	-	1	3.70	-	-	-	-	-	-	-	-	2	6.67	-	-	-	-
S. cf. araneus	-	-	1	25.00	-	-	1	3.23	-	-	-	-	-	-	-	-	-	-	5	16.67	20	23.81	20	10.00
Crocidura cf. russula	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.50
Talpa europaea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3.33	-	-	2	1.00
Rodentia																								
Clethrionomys glareolus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3.33	-	-	14	7.00
Arvicola terrestris	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3.33	1	1.19	-	-
Microtus agrestis	-	-	-	-	-	-	3	9.68	9	33.33	1	14.29	1	16.67	-	-	4	57.14	14	46.67	35	41.67	92	46.00
M. gregalis	-	-	-	-	-	-	1	3.23	1	3.70	2	28.57	-	-	2	28.57	-	-	-	-	-	-	-	-
Lemmus lemmus	-	-	-	-	-	-	-	-	-	-	-	-	4	66.67	1	14.29	-	-	-	-	-	-	-	-
Dicrostonyx torquatus	-	-	2	50.00	-	-	25	80.65	15	55.56	4	57.14	-	-	3	42.86	-	-	-	-	-	-	-	-
Apodemus sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	14.29	-	-	3	3.57	-	-
A. cf. sylvaticus	-	-	-	-	-	-	-	-	1	3.70	-	-	1	16.67	-	-	2	28.57	6	20.00	21	25.00	68	34.00
Rattus rattus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3.57	2	1.00
Lagomorpha																								
Oryctolagus cuniculus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.19	-	-
Lepus cf. timidus	-	-	-	-	-	-	1	3.23	-	-	-	-	-	-	1	14.29	-	-	-	-	-	-	-	-
L. cf. europaeus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.50
TOTALS	-	-	4	100.00	-	-	31	100.02	27	99.99	7	100.00	6	100.01	7	100.01	7	100.00	30	100.00	84	100.00	200	100.00

Table 48

ROBIN HOOD'S CAVE, 1969 : SMALL MAMMAL ANALYSIS

Layer No.	A		B/A		LSB				OB						USB		C	
Sample No.	1		2		3		4		5		6		7		8		-	
Percentages of Total Teeth and/or Jaws	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Carnivora																		
Mustela sp.	-	-	-	-	-	-	-	-	-	-	1	33.33	-	-	-	-	-	-
Rodentia																		
Arvicola terrestris	-	-	-	-	-	-	2	15.39	-	-	-	-	-	-	-	-	-	-
Microtus sp.	-	-	-	-	-	-	1	7.69	-	-	-	-	-	-	1	12.50	-	-
M. agrestis	-	-	-	-	1	33.33	2	15.39	1	14.29	-	-	2	33.33	1	12.50	-	-
M. gregalis	-	-	-	-	-	-	-	-	1	14.29	-	-	-	-	1	12.50	-	-
Lemmus lemmus	-	-	-	-	-	-	1	7.69	-	-	1	33.33	-	-	-	-	-	-
Dicrostonyx torquatus	-	-	3	100.00	2	66.67	4	30.77	1	14.29	-	-	3	50.00	4	50.00	-	-
Apodemus cf. *sylvaticus*	-	-	-	-	-	-	1	7.69	1	14.29	1	33.33	-	-	-	-	-	-
Lagomorpha																		
Ochotona cf. *pusilla*	-	-	-	-	-	-	-	-	1	14.29	-	-	-	-	-	-	-	-
Lepus cf. *timidus*	-	-	-	-	-	-	2	15.39	2	28.57	-	-	1	16.67	1	12.50	-	-
TOTALS	-	-	3	100.00	3	100.00	13	100.01	7	100.02	3	99.99	6	100.00	8	100.00	-	-

Table 49

BRITISH UPPER PALAEOLITHIC HUMAN SKELETAL REMAINS

Site, Year of Excavation and National Grid Ref.	Deposit (Layer No)	Name of Individual	Age at Death Years	Child	Adult	Number of Individuals	Present whereabouts	Source of Information
EARLIER UPPER PALAEOLITHIC (all Homo sapiens sapiens)								
KENT'S CAVERN, 1926. Devonshire SX934641	"Cave Earth" (?A2) ?E.U.P.	Kent's Cavern 4	-	-	-	1	TNHS	Dowie and Ogilvie, 1927; Oakley, 1971
BADGER HOLE, 1938-53 Somerset ST532479	"Hard Cave Breccia"(?A2) ?E.U.P.	Badger Hole 1	c.9	X	-	1	WM	Balch, 1938-53; Oakley, 1971
		Badger Hole 2	c.5	X	-	1	WM	
		Badger Hole 3	-	-	X	1	WM	
						3		
PICKEN'S HOLE, 1961 Somerset ST396550	"Periglacial Silt" (3) ? E.U.P.	Picken's Hole 1	-	-	X	1	UBSS	Tratman, 1964; Oakley, 1971
PAVILAND CAVE, 1823 Glamorganshire SS437859	Red Ochre Burial in "Cave Earth" ?E.U.P.	Paviland Cave 1 or "Red Lady"	c.25	-	X	1	OUM	Buckland, 1823; Sollas, 1912; Oakley, 1971
PAVILAND CAVE, 1912 Glamorganshire SS437859	"Cave Earth" ?E.U.P.	Paviland Cave 2	-	-	X	1	BMNH	Sollas, 1912; Oakley, 1971
Total Earlier Upper Palaeolithic Individuals : c.7 (all ?E.U.P.)								
LATER UPPER PALAEOLITHIC (all Homo sapiens sapiens)								
KENT'S CAVERN, 1865-80 Devonshire SX934641	"Granular Stalagmite/ Cave Earth" (C2/B2) L.U.P.	Kent's Cavern 1	-	-	X	1	TNHS	Pengelly, 1884; Oakley, 1971
		Kent's Cavern 2	-	-	-	1	BMNH	
						2		
KENT'S CAVERN, 1925 Devonshire SX934641	"Cave Earth" (?B2) ?L.U.P.	Kent's Cavern 3	c.25	-	X	1	TNHS	Keith, 1926; Oakley, 1971
TORNEWTON CAVE, 1944-60 Devonshire SX816674	"Reindeer Stratum" (10) L.U.P.	Tornewton Cave 1	-	-	-	1	BMNH	Sutcliffe and Zeuner, 1962.
AVELINE'S HOLE, 1797-1900 Somerset ST476587	c. Stalagmite/ "Cave Earth" ?L.U.P.	unnamed remains	-	-	-	c.50	unknown	Buckland, 1823; Oakley, 1971
		Aveline's Hole 1	-	-	X	1	BMNH	
		Aveline's Hole 2	-	-	-	1	BMNH	
		Aveline's Hole 3	-	-	-	1	BMNH	
		Aveline's Hole 4	-	-	-	1	BMNH	
						c.54		
AVELINE'S HOLE, 1901-31 Somerset ST476587	Stalagmite/ "Cave Earth" L.U.P.	unnamed remains	-	X	X	c.20	UBSS(mostly destroyed in War)	Davies, 1921,1922, 1923,1925; Oakley,1971
		Aveline's Hole 5	-	-	X	1	Destroyed in War, 1941	
		Aveline's Hole 6	-	-	X	1	Destroyed in War, 1941	
		Aveline's Hole 7	-	-	X	1	Destroyed in War, 1941	
		Aveline's Hole 8	-	-	X	1	Destroyed in War, 1941	
		Aveline's Hole 9	-	-	X	1	WM	
						c.25		

..../2

Table 49 (contd)

BRITISH UPPER PALAEOLITHIC HUMAN SKELETAL REMAINS (contd)

Site, Year of Excavation and National Grid Ref.	Deposit (Layer No.)	Name of Individual	Age at Death Years	Child	Adult	Number of Individuals	Present whereabouts	Source of Information
		LATER UPPER PALAEOLITHIC (contd)						
FLINT JACK'S CAVE c.1893 Somerset ST463538	"Cave Earth" L.U.P.	Flint Jack's Cave 1	-	-	X	1	BMNH	Wells, 1958;
		Flint Jack's Cave 2	-	-	X	1	BMNH	Oakley, 1971
						2		
GOUGH'S CAVE, 1903 Somerset ST467539	"Upper Stalagmite/Cave Earth" (C/B) L.U.P.	Gough's Cave 1 or "Cheddar Man"	-	-	X	1	CCM	Davies, 1904; Seligman and Parsons, 1914; Oakley, 1971
GOUGH'S CAVE, 1927-31 Somerset ST467539	"Cave Earth" (B)	unnamed remains	-	-	-	1+	unknown	
		Gough's Cave 2	20-25	-	X	1	unknown	
		Gough's Cave 3	3	X	-	1	CCM	
		Gough's Cave 4	12-14	X	-	1	CCM	Parry, 1929, 1931;
		Gough's Cave 5	c.35	-	X	1	unknown	Oakley, 1971
		Gough's Cave 6	c.30	-	X	1	CCM	
	L.U.P.					6+		
GOUGH'S CAVE, 1950 Somerset ST467539	"Cave Earth (B) L.U.P.	Gough's Cave 7	-	-	X	1	CCM	Oakley, 1971
SUN HOLE, 1927-28 Somerset ST467541	"Solifluction Gravel"(B2) L.U.P.	Sun Hole 1	30-40	-	X	1	UBSS	Tratman, 1955;
		Sun Hole 2	c.20	-	X	1	UBSS	Oakley, 1971
						2		
LANGWITH CAVE, 1909 Derbyshire SK517695	"Cave Earth" "Lower Horizon" L.U.P.	Langwith Cave 1	-	-	X	1	BMNH	Mullins, 1913;
		Langwith Cave 2	-	X	-	1	unknown	Keith, 1925; Oakley, 1971
						2		
MOTHER GRUNDY'S PARLOUR, 1876 Derbyshire SK536743	Red Sandy "Cave Earth" (?B) ?L.U.P.	unnamed remains	-	X	-	3	unknown	Dawkins and Hello, 1879; Oakley, 1971
		Mother Grundy's Parlour 1	-	X	-	1	MM	
						4		
MOTHER GRUNDY'S PARLOUR, 1924 Derbyshire SK533741	Red Sandy "Cave Earth" (?B) L.U.P.	Mother Grundy's Parlour 2	-	-	-	1	unknown	Armstrong, 1925; Oakley, 1971
PIN HOLE, 1924-38 Derbyshire SK533741	"Upper Cave Earth"(?B) L.U.P.	Pin Hole 1	-	X	-	1	BMNH	Kitching, 1963;
		Pin Hole 2	-	-	X	1	BMNH	Oakley, 1971
						2		
ROBIN HOOD'S CAVE, 1969 Derbyshire SK534742	Thermoclastic Scree (OB) L.U.P.	Robin Hood's Cave 1	-	-	X	1	BMNH	Campbell, 1969; Oakley, 1971

Total Later Upper Palaeolithic Individuals: c.105 (c.46 L.U.P.) (c.59 ?L.U.P.)

Abbreviations for Present Whereabouts: BMNH - British Museum (Natural History), CCM - Cheddar Caves Museum, MM - Manchester Museum, OUM - Oxford University Museum, TNHS - Torquay Natural History Society Museum, UBSS - University of Bristol Spelaeological Society Museum, WM - Wells Museum.

BRITISH UPPER PALAEOLITHIC

GAZETTEERS OF SITES AND LISTS OF ARTIFACTS

I. EARLIER UPPER PALAEOLITHIC GAZETTEER OF SITES AND LISTS OF ARTIFACTS

II. LATER UPPER PALAEOLITHIC GAZETTEER OF SITES AND LISTS OF ARTIFACTS

III. GAZETTEER OF SUPPOSEDLY UPPER PALAEOLITHIC FINDS

ARRANGEMENT OF GAZETTEERS:

Sites within each Gazetteer are arranged by county in a clock-wise geographic order beginning in the south-west of England. Sites within each county are then arranged in alphabetical order. National Grid References are given for each site and are in every case accurate unless either (a) a cave-site was destroyed before its precise position had been recorded; or (b) the precise position of an open-air site and/or find spot was never recorded. Imprecise Grid References are denoted by the abbreviation for circa, e.g. (TLc.150650).

DIVISION OF GAZETTEERS INTO EARLIER, LATER AND SUPPOSEDLY UPPER PALAEOLITHIC

Stray open-air finds of waste products such as unretouched flakes and blades are not considered. But cave finds of such isolated waste products are included if their stratigraphic evidence has helped to suggest their age. The tripartite division of the Gazetteers into Earlier, Later and Supposedly Upper Palaeolithic is still in some cases arbitrary; where this is particularly so, it is indicated by a question mark, e.g. ?E.U.P. ARTIFACTS. It should be noted that a few definitely or apparently Mesolithic artifact assemblages have been included for special individual comparison with particular Later Upper Palaeolithic ones; these are the Mesolithic series from Cathole, Brigham Hill, Mother Grundy's Parlour and Hengistbury Head. For convenience of comparison, they have been placed within the Later Upper Palaeolithic Gazetteer, but their artifacts are not included in the Later Upper Palaeolithic totals.

GAZETTEER ABBREVIATIONS FOR MUSEUM COLLECTIONS:

AM - Axbridge Museum
BCM - Bristol City Museum
BM - British Museum
BMNH - British Museum (Natural History)
BOL - Bolton Museum and Art Gallery
BUX - Buxton Museum
CAR - Carmarthen County Museum, Carmarthen
CCM - Cheddar Caves Museum
CMAE - Cambridge University Museum of Archaeology and Ethnology
DCM - Dorset County Museum, Dorchester
DM - Derby Museum and Art Gallery
DON - Doncaster Museum and Art Gallery
GM - Gloucester City Museum
HM - Hereford City Museum and Art Gallery
IM - Ipswich Museum
MSEM - Moyse's Hall Museum, Bury St. Edmunds
MIM - Mechanics Institute Museum, Otley
MM - Manchester Museum (University)
NCM - Norwich Castle Museum
NM - Newbury Borough Museum
NMW - National Museum of Wales, Cardiff
OUM - Oxford University Museum
PC - William Pengelly Cave Studies Centre Museum, Buckfastleigh
PM - Harris Museum and Art Gallery, Preston
PRM - Pitt Rivers Museum, Oxford
PYC - Pig Yard Club Museum, Settle
RHM - Red House Museum and Art Gallery, Christchurch
RISM - Royal Institution of South Wales Museum, Swansea

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GAZETTEER ABBREVIATIONS (contd)

SAL - Salisbury and South Wiltshire Museum, Salisbury
SBM - Scarborough Museum
SCM - Sheffield City Museum
SCUN - Scunthorpe Borough Museum and Art Gallery
SM - Stroud Museum
SOM - Somerset County Museum, Taunton
SU - Sheffield University Department of Ancient History
TM - Tenby Museum
TNHS - Torquay Natural History Society Museum
UBSS - University of Bristol Spelaeological Society Museum
WHM - Wookey Hole Museum
WM - Wells Museum
WOR - Worksop Museum
WSM - Weston-super-Mare Museum and Art Gallery

GAZETTEER TYPOLOGICAL ABBREVIATIONS FOR ARTIFACT FORMS:

Full descriptions of these typological abbreviations or codes may be found in the section on classification and typology in Volume I, pages 32-65.

1. BENCH FISSURE, Brixham, Devonshire (SX923568) : E.U.P. ARTIFACTS

Excavator: Else, 1886. Sources: Pengelly, 1871; Garrod, 1926. Collections: BM, TMS.

Artifact Forms	No.
Leaf-points	
HE3	1
Waste products	
KB	2
LA	1
TOTAL ARTIFACTS	4

Raw Materials: all flint

2. COW CAVE, Chudleigh, Devonshire (SX864787) : ?E.U.P. ARTIFACTS

Excavator: Beynon, 1932-33. Sources: Beynon, 1934; Rosenfeld, 1969. Collection: TMS.

Artifact Forms	No.
Waste Products	
KA	1
KB	1
TOTAL ARTIFACTS	2

Raw Materials: all flint

3. KENT'S CAVERN, Torquay, Devonshire (SX934641) : E.U.P. ARTIFACTS

Excavators: Pengelly, 1865-80; Ogilvie, 1926-40.

Sources: Pengelly, 1865-80, 1884; Garrod, 1926; Beynon, Dowie and Ogilvie, 1929; Campbell and Sampson, 1971.

Collections: BM, BMNH, BOL, TMS.

Artifact Forms	No.(1865-80, layer A2)	No.(1926-40, ?layer A2)	No.(combined)	% (of total stone tools)
Backed Tools			(1)	(0.89)
AF?	1	-	1	0.89
Burins			(8)	(7.14)
BA1	-	2	2	1.79
BA4	1	-	1	0.89
BB2	1	1	2	1.79
BC1	1	-	1	0.89
BD1	1	-	1	0.89
BD4	-	1	1	0.89
Scrapers			(46)	(41.08)
CA1	1	-	1	0.89
CA2	13	-	13	11.61
CA3	6	-	6	5.36
CA4	-	2	2	1.79
CA5	7	-	7	6.25
CA6	1	2	3	2.68
CB	4	1	5	4.46
CC	2	-	2	1.79
CE	4	1	5	4.46
CF	2	-	2	1.79
Borers			(1)	(0.89)
BA	1	-	1	0.89
Saws/Notches			(27)	(24.12)
FA	6	3	9	8.04
FB	8	1	9	8.04
FD	7	2	9	8.04
Multiple Classes			(7)	(6.24)
GB(BA2/CA5)	-	1	1	0.89
GB(BB2/FA)	-	1	1	0.89
GC(CA2/FA)	1	-	1	0.89
GC(CA4/EB)	1	-	1	0.89
GC(CB/FA)	1	2	3	2.68
Retouched Flakes/Blades			(11)	(9.82)
HA	2	1	3	2.68
HD	7	1	8	7.14
Leaf-points			(11)	(9.82)
HE1	4	1	5	4.46
HE3	5	-	5	4.46
HF1	1	-	1	0.89
Total Stone Tools:	89	23	112	100.00

..../2

KENT'S CAVERN (contd)

Artifact Forms	No.(1865-80, layer A2)	No.(1926-40, layer A2)	No.(combined)
Waste Products			
IA1	-	1	1
IB1	1	1	2
JA	6	9	15
JB	1	3	4
JC	2	-	2
KA	34	53	87
KB	27	8	35
LA	66	60	126
LB	17	33	50
OA	1	-	1
PB	1	-	1
QA	2	-	2
QB	6	33	39
Total Stone Waste:	164	201	365
Bone Tools			
IIA	1	-	1
IID	1	-	1
Total Bone Tools:	2	-	2
TOTAL ARTIFACTS:	252	224	479 (+ c.100 missing stone artifacts, Pengelly, 1865-80)

Raw Materials: 389 flint, 87 Greensand chert, 1 granite, 1 bone, 1 ivory.

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4. TORNEWTON CAVE, Torbryan, Devonshire (SX816674) : ?E.U.P. ARTIFACTS

Excavator: Sutcliffe, 1944-60. Source: Sutcliffe and Zeuner, 1962. Collection: BMNH.

Artifact Forms	No.(layer 9)
Waste Products	
JB	1
KA	1
OA	1
TOTAL ARTIFACTS	3

Raw Materials: 2 flint, 1 quartzite

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5. BADGER HOLE, Wookey Hole, Somerset (ST532479) : E.U.P. ARTIFACTS

Excavators: Balch, 1938-53; McBurney, 1958; Campbell, 1968.
Sources: Balch, 1938-53; McBurney, 1961; Campbell, 1970.
Collection: WM.

Artifact Forms	No.(1938-53, ?layer A2 and disturbed)
Scrapers	
CA3	2
CF	1
Awls	
EA2	1
Saws/Notches	
FA	1
FB	1
FC	1
FD	2
Retouched Flakes/Blades	
HD	2
Leaf-points	
HE1	2
HE3	2
Total Stone Tools	15

.../3

BADGER HOLE (contd)

Artifact Forms	No.(1938-53, ?layer A2 and disturbed)
Waste Products	
IG	2
JA	2
JB	4
KA	13
KB	6
LA	11
LB	1
Total Stone Waste	39
TOTAL ARTIFACTS:	54

Raw Materials: all flint

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6. HYENA DEN, Wookey Hole, Somerset (ST532479) : E.U.P. ARTIFACTS

Excavators: Dawkins, 1859-74; Balch, 1877-80. Sources: Dawkins, 1862, 1863, 1874; Balch, 1914; Garrod, 1926; Tratman, Donovan and Campbell, 1971 Collections: BMNH, OUM, PRM, WM.

Artifact Forms	No.(1859-74, ?layer A2b)	No.(1877-80, ?layer A2b)	No.(combined)
Scrapers			
CA6	2	-	2
Saws/Notches			
FA	2	-	2
FB	1	-	1
Retouched Flakes/Blades			
HD	-	1	1
Leaf-points			
HE3	1	-	1
HF1?	1	-	1
Total Stone Tools:	7	1	8
Waste Products			
IA1	1	-	1
ID	-	1	1
KA	9	2	11
LA	2	2	4
LB	2	1	3
QB	3	-	3
Total Stone Waste:	17	6	23
TOTAL ARTIFACTS	24	2	31 (+ 1 missing HE1?, Parker manuscript, OUM; and 2 lost bone points, Dawkins, 1874)

Raw Materials: 16 flint, 2 Greensand chert, 13 Carboniferous chert.

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7. PICKEN'S HOLE, Compton Bishop, Somerset (ST396550) : ?E.U.P. ARTIFACTS

Excavator: Tratman, 1961-63. Source: Tratman, 1964. Collection: UBSS.

Artifact Forms	No. (layer 3)
Waste Products	
IA1	1
ID	1
KA	2
LB	3
QB	2
TOTAL ARTIFACTS	9

Raw Materials: all flint

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8. SOLDIER'S HOLE, Chedder, Somerset (ST469540) : E.U.P. ARTIFACTS

Excavator: Parry, 1928-29. Source: Parry, 1931; Campbell, 1970. Collection: CGM.

Artifact Forms	No. (layer A2)
Saws/Notches	
FB	1
Retouched Flakes/Blades	
HC	1
Leaf-points	
HF1	2
HF2	1
Total Stone Tools:	5
Waste Products	
JC	1
LA	1
Total Stone Waste:	2
Bone Tools	
IIA	1
TOTAL ARTIFACTS	8

Raw Materials: 5 flint, 2 Greensand chert, 1 ivory.

9. UPHILL CAVE, Weston-super-Mare, Somerset (ST316548) : E.U.P. ARTIFACTS

Excavators: Williams, 1826; Ellis, 1899. Sources: Rutter, 1829; Dawkins, 1874; Garrod, 1926. Collections: BCM, BM, USH.

Artifact Forms	No.(combined)
Burins	
BC2	1
Scrapers	
CA2	1
CA5	1
Saws/Notches	
FA	1
FB	1
FC	1
FD	1
Multiple Classes	
GC(CA3/FA)	1
GF(BA/HE3)	1 (destroyed in war, 1941, BCM)
Retouched Flakes/Blades	
HB	1
Leaf-points	
HE1	3 (all destroyed in war, 1941, BCM)
HE3	1
Total Stone Tools:	14
Waste Products	
ID	1
JB	2
JC	1
KA	9
KB	4
LA	1
LB	2
	20
TOTAL ARTIFACTS	34

Raw Materials: 32 flint, 2 Greensand chert.

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I. EARLIER UPPER PALAEOLITHIC GAZETTEER (contd)

10. WALTON CAVE, Clevedon, Somerset (ST418726) : ?E.U.P. ARTIFACTS

Excavators: Palmer and Hinton, 1927. Source: Palmer and Hinton, 1928. Collection: unknown.

Artifact Forms	No. (layer 4)
Bone Tools	
IIA	1
TOTAL ARTIFACTS	1

Raw Materials: bone

11. DEBORAH'S HOLE, Rhossili, Glamorganshire (SS432864) : ?E.U.P. ARTIFACTS

Excavator: Wood, 1861. Source: Rutter and Allen, 1948. Collection: RISM.

Artifact Forms	No.
Waste Products	
KB	1
Bone Tools	
IIA	1
TOTAL ARTIFACTS	2

Raw Materials: 1 flint, 1 bone

12. LONG HOLE, Porteynon, Glamorganshire (SS451851) : E.U.P. ARTIFACTS

Excavators: Wood, 1861; Campbell, 1969. Source: Falconer, 1868; Garrod, 1926. Collections: BM, PRM, RISM.

Artifact Forms	No.(1861, ? layer A3)	No. (1969, layers A3b/a)	No. (combined)
Burins			
BB2	1	-	1
Scrapers			
CA6	1	-	1
Saws/Notches			
FD	2	-	2
Multiple Classes			
GB(BA1/CB)	1	-	1
Retouched Flakes/Blades			
HC	1	-	1
HD	1	-	1
Leaf-points			
HE4	1	-	1
Total Stone Tools:	8	-	8
Waste Products			
JA	2	-	2
KA	3	-	3
KB	1	-	1
LA	3	4	7
QB	-	1	1
Total Stone Waste:	9	5	14
TOTAL ARTIFACTS	17	5	22

Raw Materials: 16 flint, 6 Carboniferous chert

13. NUTTLE TOR FISSURE, Cheriton, Glamorganshire (SS455938) : E.U.P. ARTIFACTS

Excavator: Wood, c.1869. Sources: Garrod, 1926; Rutter and Allen, 1948. Collection: RISM.

Artifact Forms	No.
Scrapers	
CA2	2
Leaf-points	
HE3	1
Total Stone Tools:	3

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NOTTLE TOR FISSURE (contd)

Artifact Forms	No.
Waste Products	
JA	1
KB	1
IA	1
Total Stone Waste:	3
Bone Tools	
IID?	1
TOTAL ARTIFACTS	7

Raw Materials: 6 flint, 1 bone

14. PAVILAND CAVE, Rhossili, Glamorganshire (SS437859) : E.U.P. ARTIFACTS

Excavators: Davies, Dillwyn and Talbot, 1823; Buckland, 1823; Wood, c.1869; Vivian, 1909; Chambers and Morgan, 1911; Sollas, 1912; Rutter, 1943.

Sources: Buckland, 1823; Sollas, 1913; Garrod, 1926; Rutter and Allen, 1948.

Collections: BM, NMW, OUM, WISM.

Artifact Forms	No. (combined)	% (of total stone tools)
Backed Tools	(1)	(0.18)
AF?	1	0.18
Burins	(131)	(23.64)
BA1	28	5.05
BA2	6	1.08
BA4	10	1.81
BA5	1	0.18
BB2	9	1.63
BC1	6	1.08
BC3	3	0.54
BD1	18	3.25
BD2	4	0.72
BD4	30	5.42
BE1	4	0.72
BE2	3	0.54
BE4	2	0.36
BE5	7	1.26
Scrapers	(310)	(55.97)
CA1	54	9.75
CA2	76	13.72
CA3	13	2.35
CA4	13	2.35
CA5	94	16.97
CA5/6	2	0.36
CA6	15	2.71
CB	2	0.36
CC	4	0.72
CD	1	0.18
CE	21	3.79
CF	15	2.71
Borers/Awls	(23)	(4.15)
EA2	12	2.17
EA3	1	0.18
EA4	2	0.36
EB2	8	1.44
Saws/Notches	(39)	(7.04)
FA	26	4.69
FB	2	0.36
FD	11	1.99
Multiple Classes	(16)	(2.88)
GB(BA1/CA2)	2	0.36
GB(BA1/CB)	1	0.18
GB(BA2/CA2)	1	0.18
GB(BA4/CA2)	1	0.18
GB(BC1/CA2)	1	0.18
GB(BD1/CA2)	3	0.54
GB(BD1/CA5)	1	0.18

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PAVILAND CAVE (contd)

Artifact Forms	No. (combined)	% (of total stone tools)
Multiple Classes (contd)		
GB(BD2/CA2)	1	0.18
GB(BD4/CA2)	1	0.18
GB(BD4/CB)	1	0.18
GB(BB2/EB2)	1	0.18
GC(CA2/EB2)	1	0.18
GC(CA2/FA)	1	0.18
Retouched Flakes/Blades	(23)	(4.15)
HB	1	0.18
HC	7	1.26
HD	15	2.71
Leaf-points	(11)	(1.98)
HE1	3	0.54
HE2	2	0.36
HE3	5	0.90
HF2	1	0.18
Total Stone Tools	554	99.99
Waste Products		
IA1	36	
IB1	12	
IB2	1	
IB3	2	
IB4	4	
IC	6	
ID	58	
IE	12	
IF2(CA6/IA1)	7	
JA	175	
JB	157	
JC	136	
KA	1156	
KB	109	
LA	1431	
LB	441	
NA	71	
OA	3	
PA	1	
PB	5	
QA	216	
QB	425	
Total Stone Waste:	4464	
Total Stone Artifacts:	5018	
Bone Tools		
IIA (bone & ivory)	3	
IIDA (ivory)	6	
II, Spatula (bone)	3	
II, Perforated Teeth (wolf and reindeer)	7	
II, Pendant (ivory)	1	
II, Bracelet/Armlet (ivory)	1	
II, Engraved Plate (ivory)	1	
Total Bone Tools	22	
TOTAL ARTIFACTS	5040	

Raw Materials: 3065 flint, 478 Greensand chert, 1289 Carboniferous chert, 158 adinole, 21 quartzite, 7 limestone, 11 ivory, 7 teeth, 4 bone.

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I. EARLIER UPPER PALAEOLITHIC GAZETTEER (contd)

15. COYGAN CAVE, Laugharne, Carmarthenshire (SN284091) : ?E.U.P. ARTIFACTS

Excavators: Allen and Hicks, 1866; Laws, 1878; McBurney, 1963-64. Sources: Leach, 1918; Grimes and Cowley, 1935. Collections: CAM, BM.

Artifact Forms	No. (1866-78)
Waste Products	
KB	3
QB	1
Total Stone Waste:	4
Bone Tools	
IIA	1
TOTAL ARTIFACTS	5

Raw Materials: 2 flint, 2 Carboniferous chert, 1 bone.

16. LITTLE HOYLE CAVE, Penally, Pembrokeshire (SS112999): ?E.U.P. ARTIFACTS

Excavators: Laws, Pitt-Rivers and Rollestone, 1877-78; McBurney, 1958. Sources: Leach, 1918; McBurney, 1959. Collection: BM.

Artifact Forms	No. (1877-78, ?Layer B1)
Multiple Classes	
GC(CA3/FA)	1
Waste Products	
KB	2
Total Stone Artifacts:	3
Bone Tools	
IIA	1
TOTAL ARTIFACTS:	4

Raw Materials: 2 flint, 1 adinole, 1 bone.

17. OGOF-YR-YCHEN, Caldey Island, Pembrokeshire (SS146969) : ?E.U.P. ARTIFACTS

Excavator: van Nédervelde, 1970. Source: J. van Nédervelde and N. Davies (personal communications). Collection: J.van Nédervelde, Caldey Abbey; but eventually BM

Artifact Forms	No. (Layer A3)
Waste Products	
KA	2
KB	1
TOTAL ARTIFACTS	3

Raw Materials: all flint

18. EASTINGTON PIT, Eastington, Gloucestershire (SO?.?80055) : ?E.U.P. ARTIFACTS

Collector: Burkitt, 1937. Source: Burkitt, 1938. Collection: SM

Artifact Forms	No.
Retouched Flakes/Blades	
HB1	1
TOTAL ARTIFACTS	1

Raw Materials: flint

19. FORTY ACRES FIELD PIT, Barnwood, Gloucestershire (SO865179) : E.U.P. ARTIFACTS

Collector: Clifford, c.1910-50. Source: Clifford, Garrod and Gracie, 1954. Collection: CMAE.

Artifact Forms	No. (Layer 3)
Backed Tools	
AB1/6	1
AF?	1
Scrapers	
CA3	3
Retouched Flakes/Blades	
HD	2
Total Stone Tools:	7

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FORTY ACRES FIELD PIT (contd)

Artifact Forms	No. (layer 3)
Waste Products	
JA	1
KA	8
KB	1
Total Stone Waste:	10
Bone Tools	
IIC?	1
TOTAL ARTIFACTS:	18

Raw Materials: 17 flint, 1 ivory

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20. KING ARTHUR'S CAVE, Whitchurch, Herefordshire (SO547157) : E.U.P. ARTIFACTS

Excavators: Symonds, 1871; Hewer and Taylor, 1925-27. Sources: Symonds, 1871; Hewer, 1926; Taylor, 1928. Collection: URSS.

Artifact Forms	No. (1925-27, layer A3c)
Leaf-points	
HE1	1
TOTAL ARTIFACTS:	1

(+ 10 or more other stone artifacts destroyed in war, 1941)

Raw Materials: all flint

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21. CAE GWYN CAVE, Tremeirchion, Flintshire (SJ085725) : E.U.P. ARTIFACTS

Excavators: Hicks and Luxmoore, 1884-87. Sources: Hicks, 1886 and 1888; Garrod, 1926. Collections: BMNH, and A.D.H. Pennant, St. Asaph.

Artifact Forms	No. (layer 2/1)
Scrapers	
CB	1
Waste Products	
KB	1
TOTAL ARTIFACTS	2

Raw Materials: all flint

---

22. FFYNNON BEUNO CAVE, Tremeirchion, Flintshire (SJ086725) : E.U.P. ARTIFACTS

Excavators: Hicks and Luxmoore, 1885. Sources: Hicks, 1886; Garrod, 1926. Collections: BMNH, and A.D.H. Pennant, St. Asaph.

Artifact Forms	No. (layer 1)
Burins	
BA1	1
BD4	1
Scrapers	
CA5	1
CE	1
Leaf-points	
HE3	1
Total Stone Tools:	5
Waste Products	
KA	3
KB	1
LA	1
Total Stone Waste:	5
Bone Tools	
IIA	1
TOTAL ARTIFACTS	11

Raw Materials: 10 flint, 1 bone

..../10

23. ASH TREE CAVE, Whitwell, Derbyshire (SK515761) : ?E.U.P. ARTIFACTS

Excavators: Armstrong, 1949-56; McBurney, 1959-60. Source: Armstrong, 1957. Collections: CMAE, SCM.

Artifact Forms	No. (1949-56, 6'-10' spits)
Scrapers	
CA2	1
Waste Products	
KA	1
LA	3
TOTAL ARTIFACTS	5

Raw Materials: 4 flint, 1 quartzite.

24. PIN HOLE, Cresswell, Derbyshire (SK533742) : E.U.P. ARTIFACTS

Excavators: Mello, 1874; Armstrong, 1924-38. Sources: Mello, 1875; Armstrong, 1925, 1928 and 1931; Kitching, 1963. Collections: BM, NM.

Artifact Forms	No. (1924-38, 2'6"-9' spits)
Backed Tools	
AB1	1
AB2	2
AF1	1
Scrapers	
CA3	6
CF	1
Awls	
EB2	2
Saws	
FA	1
Retouched Flakes/Blades	
HA	1
HB	1
HD	1
Leaf-points	
HE3	1
Total Stone Tools:	18
Waste Products	
JA	4
JC	2
KA	14
KB	10
LA	13
LB	5
PA	1
Total Stone Waste:	49
Total Stone Artifacts:	67
Bone Tools	
IIA (bone)	2
IICB (ivory)	1
IIDA (ivory)	1
IIDB (bone)	1
Total Bone Tools:	5
TOTAL ARTIFACTS	72

Raw Materials: 65 flint, 2 quartzite, 2 ivory, 3 bone.

25. RAVENSCLIFFE CAVE, Cressbrook, Derbyshire (SKc.175735) : ?E.U.P. ARTIFACTS

Excavator: Fox, 1902-10. Sources: Fox, 1910; Jackson, 1962. Collection: BUX.

Artifact Forms	No.
Scrapers	
CA3	1
TOTAL ARTIFACTS	1

Raw Materials: flint

.../11

26. ROBIN HOOD'S CAVE, Creswell, Derbyshire (SK534742) : E.U.P. ARTIFACTS

Excavators: Dawkins and Mello, 1874-76; Campbell, 1969. Sources: Mello, 1875, 1876 and 1877; Dawkins, 1876 and 1877; Garrod, 1926; Campbell, 1969. Collections: BM, BMNH, BOL, DM, MM, PM SCM.

Artifact Forms	No.(1874-76, layers B3/2 or ?layer B/A)	
Burins		
BE5	1	
Scrapers		
CA2	2	
CA3	3	
CA4	1	
CC	1	
Saws/Notches		
FA	9	
FB	2	
FD	2	
Multiple Classes		
GC(CA3/FB)	1	
GC(CB/FB)	1	
GF(BA5/HE2)	1	
GF(BB4/HE1)	1	(missing, BM; Garrod, 1926, fig. 30, no. 3)
Retouched Flakes/Blades		
HB	1	
Leaf-points		
HE1	2	
HE2	1	(missing, BM; Garrod, 1926, fig. 30, no. 5)
HE3	4	(2 missing, BM; Garrod, fig. 30, nos. 1 and 2)
HF2	2	(1 missing, BM; Garrod, fig. 30, no. 6)
Total Stone Tools:	35	
Waste Products		
IB1	1	
JA	2	
KA	4	
KB	2	
LA	4	
LB	4	
Total Stone Waste:	17	
Total Stone Artifacts:	52	
Bone Tools		
IIA	1	
IIDB	1	
Total Bone Tools:	2	
TOTAL ARTIFACTS	54	(+ an unknown portion of c.400 missing "simple flint flakes and splinters", Dawkins, 1877, p.591)

Raw Materials: 50 flint, 2 quartzite, 2 bone

27. NORTH GAP, Lessingham, Norfolk (TG410291) : ?E.U.P. ARTIFACT

Collector: Baden-Powell, 1938. Source: Baden-Powell and Moir, 1944. Collection: IM.

Artifact Forms	No. (boulder clay)	
Waste Products		
IB1	1	
TOTAL ARTIFACTS	1	Raw Materials: flint.

28. BARHAM PIT, Barham, Suffolk (TMc.145515) : ?E.U.P. ARTIFACT

Collector: Garrod, 1964. Source: Owles and Markham, personal communications. Collection: IM.

Artifact Forms	No.	
Leaf-points		
HF2	1	
TOTAL ARTIFACTS	1	Raw Materials: flint.

...../12

29. BRAMFORD ROAD PIT, Ipswich, Suffolk (TM138455) : E.U.P. ARTIFACTS

Collector: Moir, c.1936. Source: Moir, 1938. Collection: IM.

Artifact Forms	No.
Backed Tools	
AF?	1
Scrapers	
CA2	2
CA4	2
CC	1
Awls	
EB1	1
Retouched Flakes/Blades	
HB	1
Leaf-points	
HE1	1
HE3	2
HF1	2
HF2	2
Total Stone Tools:	15
Waste Products	
HF "rough-outs"?	2
KA	1
KB	2
LA	1
Total Stone Waste:	6
TOTAL ARTIFACTS	21

Raw Materials: all flint.

30. CHARSFIELD DITCH, Charsfield, Suffolk (TMc.250565) : ?E.U.P. ARTIFACT

Collector: Pretyman, ?c.1900. Source: Moir, 1922. Collection: IM.

Artifact Forms	No.
Leaf-points	
HF1	1
TOTAL ARTIFACTS	1

Raw Materials: flint

31. SOUTHWOLD, Suffolk (TMc.510765) : ?E.U.P. ARTIFACT

Collector: Turner, c.1920. Source: Moir, 1922. Collection: IM.

Artifact Forms	No.
Leaf-points	
HF2	1
TOTAL ARTIFACTS	1

Raw Materials: flint

32. WHITE COLNE PIT I, White Colne, Essex (TL875286) : E.U.P. ARTIFACT

Collector: Layard, 1927. Source: Layard, 1927. Collection: IM.

Artifact Forms	No.(8' spit)
Leaf-points	
HF1	1
TOTAL ARTIFACTS	1

Raw Materials: flint

33. RIKOF'S PIT, Broxbourne, Hertfordshire (TL377072) : ?E.U.P. ARTIFACT

Collector: pit foreman, c.1938. Sources: Warren, 1938; Roe, 1968. Collection: unknown.

Artifact Forms	No.
Leaf-points	
HE3	1
TOTAL ARTIFACTS	1

Raw Materials: flint.

..../13

34. **PEPER HAROW, Godalming, Surrey** (SUc.970430) : ?E.U.P. ARTIFACT

Collector: Winbolt, 1928. Source: Winbolt, 1929. Collection: unknown.

Artifact Forms	No.
Backed Tool/Leaf-point AF/HE2	1
TOTAL ARTIFACTS	1

Raw Materials: flint

35. **FIR HILL, Fovant, Wiltshire** (SU009293) : ?E.U.P. ARTIFACT

Collector: Engleheart, c.1922. Source: Engleheart, 1923. Collection: SAL

Artifact Forms	No.
Leaf-points HF1	1
TOTAL ARTIFACTS	1

Raw Materials: Portland chert

36. **CAMERON ROAD, Purewell, Hampshire** (SZ167930) : ?E.U.P. ARTIFACT

Collector: workman, c.1913. Source: Palmer, 1970. Collection: HHM.

Artifact Forms	No.
Leaf-points HF1	1
TOTAL ARTIFACTS	1

Raw Materials: Portland chert

II. LATER UPPER PALAEOLITHIC GAZETTEER OF SITES AND LISTS OF ARTIFACTS

1. KENT'S CAVERN, Torquay, Devonshire (SX934641) : L.U.P. ARTIFACTS

Excavators: MacEnery, 1825-29; Pengelly, 1865-80.

Sources: Vivian, 1859; Pengelly, 1865-80, 1869 and 1884; Garrod, 1926; Campbell and Sampson, 1971.

Collections: BM, BMNH, BOL, OUM, TNHS.

Artifact Forms	No.(1825-29, ?layer B2)	No.(1865-80, layer B2)	No. (combined)	% (of total stone tools)
Backed Tools			(15)	(30.0)
AB1	-	1	1	2.0
AB2	-	2	2	4.0
AB6	-	1	1	2.0
AC1	-	1	1	2.0
AC2	-	4	4	8.0
AC4	-	1	1	2.0
AC7	1	2	3	6.0
AC10	-	1	1	2.0
AE4	1	-	1	2.0
Burins			(8)	(16.0)
BA1	-	1	1	2.0
BA2	-	2	2	4.0
BB2	-	2	2	4.0
BC1	-	1	1	2.0
BC3	-	1	1	2.0
BD1	-	1	1	2.0
Scrapers			(8)	(16.0)
CB	2	1	3	6.0
CD	-	1	1	2.0
CE	-	4	4	8.0
Borers/Awls			(2)	(4.0)
EA2	-	1	1	2.0
EB2	1	-	1	2.0
Saws/Notches			(8)	(16.0)
FA	-	1	1	2.0
FB	1	-	1	2.0
FD	-	6	6	12.0
Retouched Flakes/Blades			(9)	(18.0)
HD	-	9	9	18.0
Total Stone Tools:	6	44	50	100.0
Waste Products				
IA1	-	1	1	
IB1	1	1	2	
JA	-	2	2	
JB	-	1	1	
JC	-	1	1	
KA	-	7	7	
KB	3	27	30	
LA	1	43	44	
LB	-	16	16	
MA	-	1	1	
Total Stone Waste:	5	100	105	
Total Stone Artifacts:	11	144	155	
Bone Tools				
IIA	1	1	2	
IIB	-	1	1	
IIFA1	-	2	2	
IIFB1	-	1	1	
Total Bone Tools:	1	5	6	
TOTAL ARTIFACTS	12	149	161	(+ 378 missing stone artifacts recorded from Vestibule by Pengelly, 1865-80, pp.287-359)

Raw Materials: 152 flint, 3 Greensand chert, 3 antler (Rangifer?), 3 bone.

.../2

2. THREE HOLES CAVE, Torbryan, Devonshire (SX814675) : L.U.P. ARTIFACTS

Excavators: Widger, 1880; Rosenfeld, 1955-61. Source: Rosenfeld, 1964. Collections: BM, BMNH, PC.

Artifact Forms	No. (1955-61, layer B)
Backed Tools	
AB1	2
AB2	3
AC2	1
Awls	
EB2	1
Retouched Flakes/Blades	
HD	13
Total Stone Tools:	20
Waste Products	
JA	1
KA	9
LA	13
Total Stone Waste:	23
TOTAL ARTIFACTS	43

Raw Materials: all flint

3. TORBRYAN CAVES, Torbryan, Devonshire (SX815675) : L.U.P. ARTIFACTS

Excavator: Widger, c.1865-90. Source: Walker and Sutcliffe, 1967. Collections: BM, BMNH.

Artifact Forms	No.
Backed Tools	
AC5	1
Burins	
BD1	1
Scrapers	
CA2	2
CB	1
Saws	
FB	2
Total Stone Tools:	7
Waste Products	
KA	6
KB	7
LA	1
QB	1
Total Stone Waste:	15
Total Stone Artifacts:	22
Bone Tools	
IIA	2
TOTAL ARTIFACTS	24

Raw Materials: 20 flint, 2 Greensand chert, 1 antler, 1 bone.

4. TOR COURT CAVE, Torbryan, Devonshire (SX818672) : ?L.U.P. ARTIFACTS

Excavator: Dowie, 1924-25. Source: Dowie, 1925. Collection: TNHS.

Artifact Forms	No.(6'-7' spits, layer B)
Scrapers	
CB	1
Waste Products	
KA	4
KB	3
TOTAL ARTIFACTS	8

Raw Materials: all flint

.../3

II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

5. TORNEWTON CAVE, Torbryan, Devonshire (SX816674) : L.U.P. ARTIFACTS

Excavator: Sutcliffe, 1944-60. Source: Sutcliffe and Zeuner, 1962. Collections: BM, BMNH.

Artifact Forms	No. (layer 10)
Backed Tools	
AC2	1
Waste Products	
KA	1
KB	2
Bone Tools	
II, spatula?	1
TOTAL ARTIFACTS	5

Raw Materials: 4 flint, 1 bone

6. TRAMP'S SHELTER, Chudleigh, Devonshire (SX864786) : ?L.U.P. ARTIFACTS

Excavator: Smith, 1968. Source: Rosenfeld, 1969, and personal communications. Collection: M. Smith, London.

Artifact Forms	No.
NOT SEEN	less than 10

7. AVELINE'S HOLE, Burrington, Somerset (ST476587) : L.U.P. ARTIFACTS

Excavator: Davies, 1919-25. Sources: Davies, 1921, 1922, 1923 and 1925; Garrod, 1926. Collection: UBSS

Artifact Forms	No.	No.(Destroyed in War, 1941)	No.(Combined)
Backed Tools			
AA1	-	1	1
AB1	3	4	7
AB2	5	2	7
AB6	-	1	1
AC2	-	3	3
AC6	-	1	1
AC7	1	-	1
AC22a	1	-	1
AC23	-	3	3
AE4	-	1	1
Burins			
BB2	-	1	1
Awls			
EB2	2	1	3
Multiple Classes			
GB(BB2/EB2)	-	1	1
Total Stone Tools:	12	19	31
Waste Products			
JA	1		
KA	9		
KB	2		
LA	9		
NA	1		
Total Stone Waste:	22	c.200	c.222
Total Stone Artifacts:	34	c.219	c.253
Bone Tools			
IIFB2	-	1	1
Shell Artifacts			
Shell beads (Neritoides obtusatus)	-	c.60	c.60
TOTAL ARTIFACTS	54	c.280	c.314

Raw Materials: c.253 flint, 1 antler, c.60 shell

.../4

II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

8. BADGER HOLE, Wookey Hole, Somerset (ST532479) : ?L.U.P. ARTIFACT

Excavators: Balch, 1938-53; McBurney, 1958; Campbell, 1968.
Sources: Balch, 1938-53; McBurney, 1961; Campbell, 1970.
Collection: WM.

Artifact Forms	No.(1938-53, 1' spit)
Backed Tools	
AC1O	1
TOTAL ARTIFACTS	1

Raw Materials: flint

9. BAWELL AND HUTTON CAVES, Banwell and Hutton, Somerset (ST382588 and ST361581) : L.U.P. ARTIFACTS

Excavator: Porch, c.1902. Source: Davies, 1926. Collection: WSM.

Artifact Forms	No.
Backed Tools	
AA1	1
AB2	1
AG2	1
Scrapers	
CE	2
Total Stone Tools:	5
Waste Products	
JC	1
KA	5
KB	4
LA	4
Total Stone Waste:	14
TOTAL ARTIFACTS	19

Raw Materials: 18 flint, 1 Greensand chert

10. BRIDGED POT SHELTER, Wookey Hole, Somerset (ST529488): ?L.U.P. ARTIFACT

Excavators: Balch, 1926-27; McBurney, 1958.
Sources: Balch, 1928; McBurney, 1959.
Collection: CNAE.

Artifact Forms	No.(1958, layer B)
Waste Products	
LA	1
TOTAL ARTIFACTS	1

Raw Materials: flint

11. CALLOW HILL, Axbridge, Somerset (ST437559) : L.U.P. ARTIFACTS

Collectors: Weare and Everton, c.1964. Source: Everton, personal communications.
Collections: AM, and R. Everton, Bristol.

Artifact Forms	No.
Backed Tools	
AC23	2
Awls	
EB2	1
TOTAL ARTIFACTS	3

Raw Materials: all flint

12. CHEW PARK FARM, Bishop Sutton, Somerset (ST569593) : ?L.U.P. ARTIFACTS

Collectors: Greenfield and Rahtz, c.1956. Sources: ApSimon, 1957; Tratman, personal communications.
Collections: E. Greenfield and P.A. Rahtz.

Artifact Forms	No.
NOT SEEN	more than 10 blades, etc.

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13. FLINT JACK'S CAVE, Cheddar, Somerset (ST463538) : L.U.P. ARTIFACTS

Excavator: Pavey, c.1893. Sources: Davies, 1926; Oakley, 1958. Collections: BM, WSM.

Artifact Forms	No.
Backed Tools	
AC2	5
AC10	1
Burins	
BB2	1
Scrapers	
CB	1
CE	1
CF	1
Saws/Notches	
FA	1
FB	2
FD	1
Multiple Classes	
GA(AC2/BA1)	1
GB(BD1/CB)	1
Retouched Flakes/Blades	
HD	3
Total Stone Tools:	19
Waste Products	
JC	1
KA	3
KB	6
LA	2
Total Stone Waste:	12
TOTAL ARTIFACTS	31

Raw Materials: 30 flint, 1 Greensand chert

14. GOUGH'S CAVE, Cheddar, Somerset (ST467539) : L.U.P. ARTIFACTS

Excavators: Gough, 1892-1903; Parry, 1927-31; Painter, 1946-53.

Sources: Davies, 1904; Garrod, 1926; Parry, 1928, 1929 and 1931; Donovan, 1955; Beck, 1965; Hawkes, Tratman and Powers, 1970.

Collections: BCM, CCM, SOM, UBSS, WSM.

Artifact Forms	No. (1892-1958, unstratified)	No.(1927-31, spits 12-25)	No.(1927-31, spits 9-11)	No.(1927-31, spits 6-8)	No. (combined)	% (of total stone tools)
					(274)	(34.29)
Backed Tools						
AA1	12	17	12	-	41	5.13
AA2	1	-	1	-	2	0.25
AB1	7	20	8	2	37	4.63
AB2	13	26	9	-	48	6.01
AB3	3	7	-	-	10	1.25
AB4	-	1	-	-	1	0.13
AB5	-	-	1	-	1	0.13
AB6	3	4	-	2	9	1.13
AC1	2	8	6	1	17	2.13
AC2	12	35	16	-	63	7.89
AC3	1	1	-	-	2	0.25
AC4	-	3	2	-	5	0.63
AC5	-	2	3	-	5	0.63
AC6	-	2	1	-	3	0.38
AC7	1	2	2	-	5	0.63
AC8	1	1	-	-	2	0.25
AC22c	-	1	-	-	1	0.13
AC23	-	3	-	-	3	0.38
AD1	3	6	2	-	11	1.38
AD2	-	4	1	-	5	0.63
AD5	-	2	-	1	3	0.38
					(113)	(14.14)
Burins						
BA1	2	5	4	1	12	1.50
BA2	1	5	1	-	7	0.88
BA3	1	1	1	-	3	0.38
BA4	2	4	2	-	8	1.00
BA5	1	3	1	-	5	0.63

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GOUGH'S CAVE, contd.

Artifact Forms	No. (1892-1958, unstratified)	No. (1927-31, spits 12-25)	No.(1927-31, spits 9-11)	No.(1927-31, spits 6-8)	No. (combined)	% (of total stone tools)
Burins (contd)						
BB1	2	-	1	-	3	0.38
BB2	8	20	5	1	34	4.26
BB4	1	2	2	-	5	0.63
BC1	1	3	-	-	4	0.50
BC2	4	1	1	-	6	0.75
BC3	-	3	-	-	3	0.38
BD1	-	3	1	-	4	0.50
BD2	1	2	-	-	3	0.38
BE1	-	1	-	-	1	0.13
BE2	-	1	-	-	1	0.13
BE3	1	1	2	-	4	0.50
BE5	2	4	3	1	10	1.25
Scrapers					(79)	(9.89)
CA2	4	4	3	1	12	1.50
CB	4	15	-	1	20	2.50
CC	-	3	1	-	4	0.50
CD	1	1	1	-	3	0.38
CE	13	17	5	1	36	4.51
CF	1	2	1	-	4	0.50
"Zinken"					(20)	(2.50)
DA	-	4	1	-	5	0.63
DB	3	8	3	-	14	1.75
DC	-	1	-	-	1	0.13
Borers/Awls					(38)	(4.76)
EA1	-	1	1	-	2	0.25
EA2	1	5	4	1	11	1.38
EA3	1	3	-	-	4	0.50
EB1	4	2	-	-	6	0.75
EB2	-	9	5	-	14	1.75
EC	-	1	-	-	1	0.13
Saws/Notches					(28)	(3.50)
FA	2	4	-	-	6	0.75
FB	2	4	4	-	10	1.25
FC	-	3	-	-	3	0.38
FD	3	4	2	-	9	1.13
Multiple Classes					(57)	(7.13)
GA1	2	11	9	1	23	2.88
GA4	-	1	-	-	1	0.13
GA5	-	4	2	-	6	0.75
GB1	-	5	4	-	9	1.13
GB4	1	5	-	-	6	0.75
GC2	-	1	-	-	1	0.13
GC3	-	6	3	-	9	1.13
GE	-	2	-	-	2	0.25
Retouched Flakes/Blades					(190)	(23.78)
HA	1	3	1	-	5	0.63
HB	-	2	1	-	3	0.38
HC	10	15	2	2	29	3.63
HD	35	92	23	3	153	19.15
Total Stone Tools:	174	442	164	19	799	99.99
Waste Products						
IA1	4	2	3	-	9	
IB1	1	3	1	-	5	
IB2	-	1	2	-	3	
IC	-	1	-	-	1	
IF2	-	1	-	-	1	
JA	42	14	8	-	64	
JB	17	8	4	-	29	
JC	20	14	9	-	43	
KA	500	167	102	11	780	
KB	100	68	36	6	210	
LA	983	578	233	19	1813	
LB	401	216	81	5	703	
MB	-	2	2	-	4	
MC	7	1	3	1	12	
NA	4	8	3	-	15	
NB	3	4	2	-	9	
QA (incised)	-	2	-	-	2	
QB (1 amber)	3	-	-	-	3	
Total Stone Waste:	2085	1090	489	42	3706	
Total Stone Artifacts:	2259	1532	653	61	4505	

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GOUGH'S CAVE (contd)

Artifact Forms	No.(1892-1958, unstratified)	No.(1927-31, spits 12-25)	No.(1927-31, spits 9-11)	No.(1927-31, spits 6-8)	No. (combined)
Bone Tools					
IIA(bone)	1	5	4	1	11
IIA(incised, bone)	-	-	1	-	1
IIDA (ivory)	-	1	-	-	1
IIDB (bone)	1	1	-	-	2
IIEB (antler, bone)	1	1	-	-	2
II, perforated teeth (*Vulpes*)	-	1	1	-	2
Total Bone Tools:	3	9	6	1	19
Shell Artifacts					
Shell Bead (*Neritoides obtusatus*)	-	-	1	-	1
TOTAL ARTIFACTS	2262	1541	659	62	4525 (+ at least 3,300 missing stone artifacts, Parry, 1931, p.47)

Raw Materials: 4489 flint, 8 Greensand chert, 3 Portland chert, 2 Carboniferous limestone, 2 Carboniferous chert, 1 amber (of Baltic origin, Beck, 1965), 1 antler (*Rangifer*?), 1 ivory, 2 teeth (*Vulpes vulpes*), 15 bone (including *Cygnus* and *Lepus* cf. *timidus*, Parry, 1929 and 1931), 1 shell (*Neritoides obtusatus*, Parry, 1929).

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15. GREAT OONE'S HOLE, Cheddar, Somerset (ST469538) : ?L.U.P. ARTIFACTS

Excavator: Porch, c.1902. Source: Davies, 1926. Collection: WSM.

Artifact Forms	No.	
Backed Tools		
AB3	1	
Waste Products		
KB	1	
TOTAL ARTIFACTS	2	Raw Materials: all flint

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16. HERRIOT'S BRIDGE, West Harptree, Somerset (ST568582) : ?L.U.P. ARTIFACT

Collectors: Greenfield and Rahtz, c.1956. Source: ApSimon, 1957. Collection: E. Greenfield and P.A. Rahtz.

Artifact Forms	No.	
Backed Tools		
AC23	1	(NOT SEEN, but illustrated in ApSimon, 1957, Fig.10)
TOTAL ARTIFACTS	1	Raw Material: flint

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17. PRIMROSE SHELTER, Wookey Hole, Somerset (ST526488) : ?L.U.P. ARTIFACTS

Excavator: Mason, 1959-60. Source: Jackson, 1962. Collection: BCM.

Artifact Forms	No.(layer B)	
Scrapers		
CE	1	
Waste Products		
KB	2	
TOTAL ARTIFACTS	3	Raw Materials: all flint

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18. ROWBERROW CAVE, Shipham, Somerset (ST459580) : ?L.U.P. ARTIFACT

Excavator: Taylor, 1922-26. Source: Taylor, 1926. Collection: UBSS

Artifact Forms	No.(layer B)	
Scrapers		
CE	1	(Destroyed in War, 1941)
TOTAL ARTIFACTS	1	Raw Materials: flint

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19. **SOLDIER'S HOLE, Cheddar, Somerset (ST469540) : L.U.P. ARTIFACTS**

Excavator: Parry, 1928-29. Source: Parry, 1931. Collection: CCM.

Artifact Forms	No.(layer B)
Backed Tools	
AA1	1
AC1	1
AC3	1
AC6	1
AD1	1
AD2	1
Burins	
BA2	1
Scrapers	
CB	1
Borers	
EA3	1
Multiple Classes	
GA(AC10/BB2)	1
GC(CB/EA2)	1
Total Stone Tools:	11
Waste Products	
KB	1
LA	1
Total Stone Waste:	2
TOTAL ARTIFACTS	13

Raw Materials: all flint

20. **SUN HOLE, Cheddar, Somerset (ST467541) : L.U.P. ARTIFACTS**

Excavators: Tratman, 1927-28 and 1951-53; Campbell, 1968.
Sources: Tratman and Henderson, 1928; Tratman, 1955; Campbell, 1970; E.K.T. Tratman (personal communications)
Collections: PRM, UBSS.

Artifact Forms	No.(1927-53, layer B2)	No.(1968, layers B2-7)
Backed Tools		
AA1	1	-
AB2	1	-
AB6	1	-
AC7	1	-
AD2	1	-
Burins		
BB2	1	-
Scrapers		
CE	1	-
Awls		
EB2	1	-
Total Stone Tools:	8	-
Waste Products		
IA1	1	-
JC	1	-
KA	5	-
KB	12	-
IA	3	-
LB	11 (caused by War, 1941)	-
MB	1	-
NA	1	-
QA	-	1
Total Stone Waste:	35	1
TOTAL ARTIFACTS	43	1

Raw Materials: all flint

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21. CATHOLE, Parkmill, Glamorganshire (SS538900) : L.U.P. ARTIFACTS

Excavators: Wood, 1860s; McBurney, 1958-59; Campbell, 1968.

Sources: Garrod, 1926; McBurney, 1959; C.B.M. McBurney (personal communications)

Collections: BMNH, CMAE, PRM, RISM.

Artifact Forms	No.(1860s,?layers B)	No.(1958-59, layers B)	No.(1968,layer B/B)	No.(1968,layer M/B)	No(combined)
Backed Tools					
AB1	-	1	-	-	1
AB6	-	1	-	-	1
AC2	-	1	-	-	1
AC7	1	-	-	-	1
AE1	1	-	-	-	1
AF4	1	-	-	-	1
Burins					
BA3	1	-	-	-	1
BB2	-	-	1	1	2
Scrapers					
CB	2	1	-	-	3
CE	2	1	-	-	3
CF	1	-	-	-	1
Awls					
EB2	1	1	-	-	2
Total Stone Tools:	10	6	1	1	18
Waste Products					
JA	1	2	-	-	3
JB	-	1	-	-	1
KA	16	30	-	5	51
KB	14	7	-	-	21
LA	9	5	-	3	17
LB	7	5	-	2	14
MB	-	1	-	-	1
QB	-	1	1	2	4
Total Stone Waste:	47	52	1	12	112
Bone Tools					
IIA	-	1	-	-	1
IIB	-	1	-	-	1
Total Bone Tools:	-	2	-	-	2
TOTAL ARTIFACTS	57	60	2	13	132

Raw Materials: 128 flint, 1 Greensand chert, 1 Carboniferous chert, 2 bone

22. CATHOLE, Parkmill, Glamorganshire (SS538900) : MESOLITHIC ARTIFACTS

Excavators: McBurney, 1958-59; Campbell, 1968.

Sources: McBurney, 1959; C.B.M. McBurney (personal communications)

Collections: CMAE, PRM.

Artifact Forms	No. (1958-59, interface C/B)	No. (1958-59, interface D/C)	No. (1968, interface C/U:B)	No. (1968, interface D/C)	No. (combined)
Backed Tools					
AB1	1	1	-	-	2
AB2	3	2	-	-	5
AB7	1	-	-	-	1
AB11	-	-	1	-	1
AC22a	-	-	-	1	1
Scrapers					
CE	-	1	-	-	1
Awls					
EB1	-	1	-	-	1
EB2	-	2	-	-	2
Retouched Flakes/Blades					
HA	1	-	-	-	1
HB	2	-	-	-	2
Total Stone Tools	8	7	1	1	17

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CATHOLE (contd)

Artifact Forms	No. (1958-59, interface C/B)	No. (1958-59, interface D/C)	No. (1968, interface C/USB)	No. (1968, interface D/C)	No. (combined)
Waste Products					
JA	-	3	-	-	3
JB	-	1	-	-	1
KA	34	38	-	-	72
KB	5	7	-	-	12
LA	11	13	-	-	24
LB	2	14	1	-	17
MA	-	1	-	-	1
MB	2	1	-	1	4
QB	-	-	1	-	1
Total Stone Waste:	54	78	2	1	135
TOTAL ARTIFACTS	62	85	3	2	152

Raw Materials: 149 flint, 1 Carboniferous chert, 1 adinole, 1 quartzite

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23. PAVILAND CAVE, Rhossili, Glamorganshire (SS437859) : L.U.P. ARTIFACTS

Excavators: Davies, Dillwyn and Talbot, 1823; Buckland, 1823; Wood, c.1869; Vivian, 1909, Chambers and Morgan, 1911; Solias, 1912; Rutter, 1943.

Sources: Buckland, 1823; Sollas, 1913; Garrod, 1926; Rutter and Allen, 1948.

Collections: BM, NMW, OUM, RISM.

Artifact Forms	No. (combined)
Backed Tools	
AA1	5
AA2	1
AB1	4
AB2	7
AB6	3
AB7	1
AC1	1
AC2	1
AC6	1
AC7	1
AC23	2
Total Backed Tools:	27
Waste Products	
NB	2
TOTAL ARTIFACTS	29

(+ an unknown, but presumably small, proportion of the 5040 artifacts listed under E.U.P. site 14, Paviland Cave, q.v.; but certainly not the "burins busqués":BD4, most of the various scrapers, the leaf-points and most of the ivory and bone tools)

Raw Materials: 26 flint, 1 Carboniferous chert, 2 adinole

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24. HOYLE'S MOUTH CAVE, Penally, Pembrokeshire (SN111003) : L.U.P. ARTIFACTS

Excavators: Smith, 1862; Winwood, Smith and Sandford, 1865; Dawkins, 1872; Jones, 1878-79; Savory, 1968.

Sources: Dawkins, 1874; Leach, 1918; Garrod, 1926; H.N. Savory (personal communications)

Collections: BCM, BOL, NMW, TM.

Artifact Forms	No. (combined, ?layer B)	% (of total stone tools)
Backed Tools	(25)	(41.67)
AA1	3	5.00
AB1	5	8.33
AB2	4	6.67
AB6	1	1.67
AC1	1	1.67
AC2	2	3.33
AC4	1	1.67
AC7	3	5.00
AC17	1	1.67
AC23	1	1.67
AD1	2	3.33
AE1	1	1.67

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HOYLE'S MOUTH CAVE (contd)

Artifact Forms	No.(combined, ?layer B)	% (of total stone tools)
Burins	(9)	(15.00)
BA1	3	5.00
BB2	2	3.33
BD1	1	1.67
BD2	1	1.67
BE5	2	3.33
Scrapers	(9)	(15.00)
CA2	3	5.00
CB	2	3.33
CE	4	6.67
Borers/Awls	(3)	(5.00)
EA2	1	1.67
EB2	2	3.33
Saws/Notches	(8)	(13.33)
FB	7	11.67
FD	1	1.67
Retouched Flakes/Blades	(6)	(10.00)
HB	1	1.67
HC	1	1.67
HD	4	6.67
Total Stone Tools:	60	100.00
Waste Products		
IB3	1	
IB4	1	
JA	4	
KA	27	
KB	18	
LA	23	
LB	9	
NA	2	
NB	1	
Total Stone Waste:	86	
TOTAL ARTIFACTS	146	

Raw Materials: 122 flint, 1 Carboniferous chert, 23 adinole

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25. LITTLE HOYLE CAVE, Penally, Pembrokeshire (SS112999) : L.U.P. ARTIFACT

Excavators: Laws, Pitt-Rivers and Rollestone, 1877-78; McBurney, 1958.

Sources: Leach, 1918; McBurney, 1959; C.B.M. McBurney (personal communications).

Collection: CMAE.

Artifact Forms	No.(1958, layer B2)
Backed Tools	
AB1	1
TOTAL ARTIFACTS	1

Raw Material: flint

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26. NAMA'S CAVE, Caldey Island, Pembrokeshire (SS146969) : L.U.P. ARTIFACTS

Excavators: Carter and Clark, 1911; Leach, 1912-14; Lacaille and van Nédervelde, 1950-52; McBurney, 1959; van Nédervelde, 1961.

Sources: Leach, 1916; Lacaille and Grimes, 1955; C.B.M. McBurney (personal communications); van Nédervelde (personal communications).

Collections: CMAE, NMW, TM.

Artifact Forms	No.(combined, layer SB)
Backed Tools	
AB1	4
AB2	3
AC2	1
AC7	1
AC23	2
Burins	
BA1	1
Scrapers	
CA2	2
Awls	
EB2	2

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NAMA'S CAVE (contd)

Artifact Forms	No. (combined, Layer 5B)
Retouched Flakes/Blades	
HA	1
HD	1
Total Stone Tools:	18
Waste Products	
JC	1
KA	9
KB	3
LA	7
LB	1
NA	1
Total Stone Waste:	22
TOTAL ARTIFACTS	40

Raw Materials: 46 flint, 3 Greensand chert, 1 adinole

27. OGOF-YR-ICHEN, Caldey Island, Pembrokeshire (SS146969) : L.U.P. ARTIFACTS

Excavator: van Nédervelde, 1970. Source: J. van Nédervelde and M. Davies (personal communications). Collection: J. van Nédervelde, Caldey Abbey; but eventually NMW.

Artifact Forms	No. (layer 5B)
Backed Tools	
AB1	1
AC2	3
AC23	2
Awls	
EB2	1
Total Stone Tools:	7
Waste Products	
KA	5
KB	3
Total Stone Waste:	8
TOTAL ARTIFACTS	15

Raw Materials: all flint

28. PRIORY FARM CAVE, Monkton, Pembrokeshire (SM978019) : L.U.P. ARTIFACTS

Excavators: Style and Dixon, 1906-07. Source: Grimes, 1933. Collections: BCM, NMW.

Artifact Forms	No. (layer B)
Backed Tools	
AB1	1
AB2	2
AC23	3
Burins	
BC1	1
Awls	
EB2	2
Total Stone Tools:	9
Waste Products	
JA	1
KB	5
LA	1
LB	2
Total Stone Waste:	9
TOTAL ARTIFACTS	18

Raw Materials: 17 flint, 1 Carboniferous chert.

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29. ARROW COURT, Kington, Herefordshire (SO279545) : L.U.P. ARTIFACTS

Collector: Williams, 1962-64. Source: R. Pye (personal communications). Collection: R. Pye, Kington.

Artifact Forms	No.
Backed Tools	
AC23	1
AD1	1
TOTAL ARTIFACTS	2

Raw Materials: all flint

30. KING ARTHUR'S CAVE, Whitchurch, Herefordshire (SO547157) : L.U.P. ARTIFACTS

Excavators: Symonds, 1871; Bower and Taylor, 1925-27. Sources: Symonds, 1871; Bower, 1926; Taylor, 1928; Apsimon, 1955. Collections: BCM, CM, HM, UBSS.

Artifact Forms	No. (combined, layer B and ?layer B)
Backed Tools	
AA1	1
AB2	5
AC1	2
AC7	1
AC13	1
AC22b	1
AC23	1
AD1	1
Burins	
BA1	2
BC1	1
Scrapers	
CA2	2
CE	1
Awls	
EB2	3
Saws	
FA	1
Multiple Classes	
GB(BA4/CA2)	1
Retouched Flakes/Blades	
HD	5
Total Stone Tools:	29
Waste Products	
IA1	1
JA	6
JB	2
KA	20
KB	11
LA	23
LB	11
MB	1
Total Stone Waste:	75 (+ c.100 stone artifacts at UBSS destroyed in War, 1941)
Total Stone Artifacts	c.204
Bone Tools	
IIA	1 (Destroyed in War, 1941; UBSS; Taylor, 1928, Fig.2)
IIB	1 (" " " " " " " " " " " ")
IICB/DA	1 (" " " " " " " " " " " ")
Total Bone Tools	3
TOTAL ARTIFACTS	c.207

Raw Materials: c.199 flint, 3 Carboniferous chert, 1 adinole, 1 quartzite, 3 bone

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II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

31. LYNX CAVE, Llanferres, Denbighshire (SJ193596) : ?L.U.P. ARTIFACTS

Excavator: Blore, 1962-65. Source: A.N. Valdemar (personal communications). Collection: J.D. Blore, Wallasey.

Artifact Forms	No. (layer B)
Retouched Blades	
BC	1
Waste Products	
KB	3
TOTAL ARTIFACTS	4

Raw Materials: all flint

32. PLAS-YN-CEFN CAVE, Trefnant, Denbighshire (SJ021705) : L.U.P. ARTIFACTS

Excavators: Lloyd and Stanley, 1833. Source: Dawkins, 1874. Collection: NMW.

Artifact Forms	No.
Backed Tools	
AC1	1
Retouched Blades	
HB	1
Waste Products	
KA	1
ME	1
TOTAL ARTIFACTS	4

Raw Materials: all flint

33. KIRKHEAD CAVE, Grange-over-Sands, Lancashire (SD391756) : L.U.P. ARTIFACTS

Excavator: Wood, 1968-70. Source: Wood, Ashmead and Mellars, 1970; P.A. Mellars (personal communications). Collection: R.H. Wood, Lincoln.

Artifact Forms	No. (layer B)
Backed Tools	
AB1	1
AB2	3
AB3	1
Burins	
BB4	1
Scrapers	
CA2	1
CC	1
Total Stone Tools:	8
Waste Products	
JA	1
KA	2
KB	2
LA	3
QB	1
Total Stone Waste:	9
TOTAL ARTIFACTS	17

Raw Materials: all flint

34. BOLE HILL, Treeton, Yorkshire (SK438887) : ?L.U.P. ARTIFACTS

Collectors: Mellars and Shook, 1963. Source: Radley, 1964; P.A. Mellars (personal communications). Collection: P.A. Mellars, Eyam.

Artifact Forms	No.
Burins	
BA5	1
Scrapers	
CB	1
"Zinken"	
DA	1
Total Stone Tools:	3
Waste Products	
IB1	1
KA	17
KB	9

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BOLE HILL (contd)

Artifact Forms	No.
Total Stone Waste	27
TOTAL ARTIFACTS	30

Raw Materials: all flint

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35. BRIGHAM HILL, North Frodingham, Yorkshire (TA078537) : MESOLITHIC ARTIFACTS (but including some possible L.U.P. forms)

Collectors: Grantham and Grantham, 1962-63. Sources: Manby, 1966; C. and E. Grantham (personal communications). Collection: C. and E. Grantham, Great Driffield.

Artifact Forms	No.	% (of total stone tools)
Backed Tools	(69)	(29.11)
AA1	10	4.22
AB1	5	2.11
AB2	14	5.91
AB6/12	30	12.66
AB9	1	0.42
AC22a	2	0.84
AC22b	2	0.84
AC22c	1	0.42
AC23	2	0.84
AD7	1	0.42
AE6	1	0.42
Burins	(28)	(11.81)
BA1	3	1.27
BA2	2	0.84
BA4	2	0.84
BA5	1	0.42
BB2	8	3.38
BC1	3	1.27
BC3	4	1.69
BD2	3	1.27
BE1	1	0.42
BE2	1	0.42
Scrapers	(72)	(30.38)
CA2	26	10.97
CA3	4	1.69
CA4	6	2.53
CB	12	5.06
CE	20	8.44
CF	4	1.69
Awls	(9)	(3.80)
EB2	9	3.80
Saws/Notches	(51)	(21.52)
FA	6	2.53
FB	36	15.19
FD	9	3.80
Retouched Flakes/Blades	(8)	(3.38)
HA	3	1.27
HC	3	1.27
HD	2	0.84
Total Stone Tools:	237	100.00
Waste Products		
IA1	57	
IB1	38	
IB2	3	
IB3	11	
IC	13	
ID	7	
IF1	1	
IF2	7	
IF1/2	1	
JA	168	
JB	57	
JC	88	
KA	1514	
KB	424	
LA	954	
LB	440	
NA	22	
NB	19	
NC	3	

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BRIGHAM HILL (contd)

Artifact Forms	No.
Waste Products (contd)	
CA	1
PB	1
QA	1
QB	1078
Total Stone Waste:	4908
TOTAL ARTIFACTS	5145

Raw Materials: 5143 flint, 1 quartzite, 1 sandstone

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36. DEAD MAN'S CAVE, North Anston, Yorkshire (SK529834) : L.U.P. ARTIFACTS

Excavators: White, Mellars and Dolby, 1967-68.

Sources: Mellars, 1969; White, 1970; P.A. Mellars and G.F. White (personal communications).

Collection: SCR.

Artifact Forms	No. (layer ISB)	No. (layer USB)	No. (combined)
Backed Tools			
AB2	5	-	5
AC1	2	-	2
AC2	3	1	4
AC2/AD1	1	-	1
AE1	1	-	1
Total Stone Tools:	12	1	13
Waste Products			
KA	1	1	2
KB	2	-	2
LA	3	-	3
NA	1	-	1
Total Stone Waste:	7	1	8
TOTAL ARTIFACTS	19	2	21

Raw Materials: all flint

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37. EDLINGTON WOOD, New Edlington, Yorkshire (SK548988) : ?L.U.P. ARTIFACTS

Excavators: Dolby, 1958; Mellars, 1971.

Sources: M.J. Dolby (personal communications); P.A. Mellars (personal communications).

Collections: DON, SU.

Artifact Forms	No. (1958)
Backed Tools	
AA1	1
AB2	1
Burins	
BB2	1
BC3	1
Scrapers	
CA2	2
CE	2
Awls	
EB2	1
Notches	
FD	1
Retouched Blades	
HC	1
Total Stone Tools:	11
Waste Products	
IF2	1
JA	1
KA	3
KB	1
LA	7
LB	12
Total Stone Waste:	25
TOTAL ARTIFACTS	36 (+ 1 Backed Tool and c.100 Stone Waste Products from 1971 excavations; NOT YET SEEN)

Raw Materials: all flint

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II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

38. FLIXTON SITE 2, Flixton, Yorkshire (TA035811) : L.U.P. ARTIFACTS

Excavator: Moore, 1948. Source: Moore, 1954. Collection: SBM.

Artifact Forms	No. (Zone III/II layer)
Backed Tools	
AC22a/AE4	1
Waste Products	
KB	1
TOTAL ARTIFACTS	2

Raw Materials: all flint

39. HOOTON ROBERTS, Conisbrough, Yorkshire (SKc.480970) : ?L.U.P. ARTIFACTS

Collector: unknown. Source: Radley, 1964; Manby, 1966. Collections: DON, SCM.

Artifact Forms	No.
Backed Tools	
ABl	1
AC2	1
"Zinken"	
DA	1
Waste Products	
IBl	2
KA	6
KB	3
LA	5
TOTAL ARTIFACTS	19

Raw Materials: all flint

40. KIRSEY CAVE, Settle, Yorkshire (SD804657) : L.U.P. ARTIFACTS

Excavators: Jackson and Mattinson, 1925-32. Source: Jackson and Mattinson, 1932; J.W. Jackson (personal communications). Collection: PYC.

Artifact Forms	No. (layer B)
Backed Tools	
ABl	2
Burins	
BB2	1
Multiple Classes	
GE(EB2/FB)	1
Retouched Blades	
HB	1
HC	1
Total Stone Tools:	6
Waste Products	
KA	1
KB	1
LA	2
Total Stone Waste:	4
Bone Tools	
IICB?	1
TOTAL ARTIFACTS	11

Raw Materials: 9 flint, 1 Carboniferous chert, 1 antler (Rangifer tarandus)

41. LOB WELLS SHELTER, Thorpe Salvin, Yorkshire (SK532805) : L.U.P. ARTIFACTS

Excavator: White, 1966-67. Source: G.F. White (personal communications). Collection: WCM.

Artifact Forms	No. (layer B)
Backed Tools	
AC23	1
Waste Products	
KA	1
KB	1
TOTAL ARTIFACTS	3

Raw Materials: all flint

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42. VICTORIA CAVE, Settle, Yorkshire (SD839651) : ?L.U.P. ARTIFACTS

Excavators: Dawkins and Tiddeman, 1870-78; Simpson, 1932. Sources: Dawkins, 1874; Breuil, 1922; Garrod, 1926; Jackson, 1945. Collection: PYC.

Artifact Forms	No.(combined, ?layers C/B)
Backed Tools	
AB1	3
AB6/12	1
Scrapers	
CA2	1
Awls	
EB2	2
Total Stone Tools:	7
Waste Products	
KA	8
KB	3
LA	1
Total Stone Waste:	12
Bone Tools	
IIA (bone)	1
IICBb (antler, Rangifer)	2
IICB? (antler, Rangifer)	2
IIFB2 (antler, Cervus)	1
Total Bone Tools:	6
TOTAL ARTIFACTS	25

Raw Materials: 17 flint, 2 Carboniferous chert, 4 antler (Rangifer tarandus), 1 antler (Cervus elaphus), 1 bone.

43. WASHBURN FOOT, Farnley, Yorkshire (SE229463) : ?L.U.P. ARTIFACTS

Collector: Cowling, 1943. Sources: Cowling, 1946; Manby, 1966; E.T. Cowling (personal communications). Collection: MIM.

Artifact Forms	No.
Scrapers	
CA2	2
CF	1
"Zinken"	
DA	1
Waste Products	
IB1	1
KA	1
KB	1
TOTAL ARTIFACTS	7

Raw Materials: 6 flint, 1 Carboniferous chert

44. RISBY WARREN, Roxby, Lincolnshire (SEc.930140) : ?L.U.P. ARTIFACTS

Excavators/Collectors: Armstrong, Dudley and Riley, 1935. Sources: Armstrong, 1932; Clark, 1932; Dudley, 1949. Collections: BM, SCUM.

Artifact Forms	No. (combined)
Backed Tools	
AC23	7
AE7	3
AF4	1
TOTAL ARTIFACTS	11

(but in vicinity of 176 "microlithe" of definite Mesolithic forms: AB7-12 and AC22, as well as many other artifacts of Mesolithic aspect)

Raw Materials: all flint

.../19

45. SHEFFIELD'S HILL, Roxby, Lincolnshire (SE908160) : ?L.U.P. ARTIFACTS

Excavators/Collectors: Armstrong and Favell, 1927; Dudley and Riley, 1935. Sources: Armstrong, 1931; Clark, 1932; Dudley, 1949. Collections: BM, SCUM.

Artifact Forms	No. (combined)
Backed Tools	
AB1	3
AB2	1
AB6	12
AC23	4
AE1	1
AE4	1
TOTAL ARTIFACTS	22

(but in vicinity of 92 "microliths" of definite Mesolithic forms: AB7-12 and AC22, as well as many other artifacts of Mesolithic aspect)

Raw Materials: all flint

46. CHURCH HOLE, Holbeck, Nottinghamshire (SK534741) : L.U.P. ARTIFACTS

Excavators: Dawkins and Mello, 1876. Sources: Dawkins, 1877; Mello, 1877; Garrod, 1926. Collections: BM, BMNH, BOL, DM, MM, SCM.

Artifact Forms	No. (? layers B)
Backed Tools	
AA1	1
AB1	1
AC2	1
Burins	
BA1	1
Borers	
EA2	2
Total Stone Tools	6
Waste Products	
JA	4
KA	3
KB	3
LA	18
LB	1
Total Stone Waste:	29
Bone Tools	
IIB (bone)	1
IICBa (antler)	1
Total Bone Tools:	2
TOTAL ARTIFACTS	37

(+ an unknown, but presumably small, proportion of the artifacts listed below under "site" 48, Creswell Crags Caves)

Raw Materials: 35 flint, 1 antler (Rangifer tarandus), 1 bone

47. YEW TREE CAVE, Mansfield Woodhouse, Nottinghamshire (SK517649) : ?L.U.P. ARTIFACTS

Excavator: Armstrong, 1937-38. Source: Armstrong, 1939. Collections: MM (missing).

Artifact Forms	No. (?layer B)
NOT SEEN	Flints were sparse but were supposedly similar to those at Mother Grundy's Parlour, "Lower Middle and Middle Zones", Armstrong, 1939. + 1 bone awl, Armstrong, 1939.

48. CRESWELL CRAGS CAVES, Creswell/Holbeck, Derbyshire/Nottinghamshire (SK535742) : L.U.P. ARTIFACTS

Excavators: Dawkins and Mello, 1874-76. Sources: Mello, 1875, 1876 and 1877; Dawkins, 1876 and 1877; Garrod, 1926. Collections: BM, BMNH, BOL, DM, MM, SCM.

Artifact Forms	No. (probably only Church Hole and Robin Hood's Cave, Garrod, 1926)
Backed Tools	
AB1	1
AB6	1
AC2	2
AC23	3

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CRESWELL CRAGS CAVES (contd)

Artifact Forms	No.(probably only Church Hole and Robin Hood's Cave, Garrod, 1926)
Burins	
BA1	2
BB2	1
Scrapers	
CA2	1
CE	1
Notches	
ED	1
Retouched Flakes/Blades	
ED	1
Total Stone Tools	14
Waste Products	
IA1	1
JA	3
JC	2
KA	13
KB	3
LA	21
LB	3
MB	1
QB	6
Total Stone Waste:	53
Bone Tools	
IIDB?	1
TOTAL ARTIFACTS	68

Raw Materials: 66 flint, 1 Greensand chert, 1 bone

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49. CHURCHDALE SHELTER, Youlgreave, Derbyshire (SK183659) : ?L.U.P. ARTIFACTS

Excavator: Harris, 1936-39. Sources: Bramwell, 1962; T.A. Harris (personal communications). Collection: T.A. Harris, Ashford.

Artifact Forms	No. (layer SB)
Waste Products	
KA	1
KB	2
TOTAL ARTIFACTS	3

Raw Materials: all flint

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50. DOWEL CAVE, Earl Sterndale, Derbyshire (SK075676) : L.U.P. ARTIFACTS

Excavator: Bramwell, 1958-59. Sources: Bramwell, 1959; D. Bramwell (personal communications). Collection: S. Gee, Stockport.

Artifact Forms	No. (layer SB)
Backed Tools	
AB1	1
AB2	1
TOTAL ARTIFACTS	2

Raw Materials: all flint

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51. FOX HOLE, Earl Sterndale, Derbyshire (SK100662) : L.U.P. ARTIFACTS

Excavator: Bramwell, 1962-65. Sources: Bramwell, 1969; D. Bramwell (personal communications). Collection: D. Bramwell, Bakewell.

Artifact Forms	No. (layer SB)
Backed Tools	
AD1/AC23	1
Waste Products	
KB	1
LB	1
Bone Tools	
IICB?	1
TOTAL ARTIFACTS	4

Raw Materials: 3 flint, 1 antler (Rangifer?)

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52. HARBOROUGH CAVE, Brassington, Derbyshire (SK241554) : ?L.U.P. ARTIFACTS

Excavators: Fox, 1907; Armstrong, 1922. Source: Armstrong, 1923. Collection: BUX.

Artifact Forms	No. (combined, ?layer SB)
Scrapers	
CA?	1
Waste Products	
KA	3
OA	1
Bone Tools	
IIA	1
TOTAL ARTIFACTS	6

Raw Materials: 2 flint, 3 quartzite, 1 bone

53. LAMOTH CAVE, Nether Langwith, Derbyshire (SK517695) : L.U.P. ARTIFACTS

Excavators: Mullins, 1903-12; Garrod, 1927. Sources: Mullins, 1913; Garrod, 1926 and 1927. Collections: DM, OUM.

Artifact Forms	No. (combined, ?layers B)
Backed Tools	
AB1	2
AB2/AC23	1
AB5	1
AB6	1
AB9	1
AC1	1
AC2	2
AC7	1
AC23	1
AB4	1
Scrapers	
CB	1
Awls	
EB2	1
Saws	
FB	1
Multiple Classes	
GB(BA4/CB)	1
GB(BC3/CB)	1
Total Stone Tools:	17
Waste Products	
JA	2
JC	2
KA	18
KB	12
LA	3
LB	2
Total Stone Waste:	39
TOTAL ARTIFACTS	56

Raw Materials: all flint

54. MOTHER GRUNDY'S PARLOUR, Creswell, Derbyshire (SK536743) : L.U.P. ARTIFACTS

Excavators: Armstrong, 1924; McBurney, 1959-60; Campbell, 1969. Sources: Armstrong, 1925; Garrod, 1926; Campbell, 1969; C.B.M. McBurney (personal communications). Collections: BM, CMAE, PRM, WOR.

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MOTHER GRUNDY'S PARLOUR (L.U.P.) contd.

Artifact Forms	No.(1924, base and lower middle spits)	No. (1959-69, layer B)	No. (1969, layers LB-SB)	No.(combined)	% (of total stone tools)
Backed Tools				(47)	(40.17)
AA1	2	-	2	4	3.42
AB1	7	-	-	7	5.98
AB2	9	-	-	9	7.69
AB4	3	-	-	3	2.56
AB6	3	-	-	3	2.56
AB6/12	-	1	-	1	0.86
AC1	2	-	-	2	1.71
AC2	2	-	-	2	1.71
AC6	1	-	-	1	0.86
AC22a	1	1	-	2	1.71
AC23	10	-	-	10	8.55
AD1	3	-	-	3	2.56
Burins				(8)	(6.84)
BA1	1	-	-	1	0.86
BA2	1	-	1	2	1.71
BB2	4	-	-	4	3.42
BC1	1	-	-	1	0.86
Scrapers				(19)	(16.24)
CA1	4	-	-	4	3.42
CA2	6	-	-	6	5.13
CA4	1	1	-	2	1.71
CB	1	-	-	1	0.86
CD	1	-	-	1	0.86
CE	4	-	-	4	3.42
CF	-	1	-	1	0.86
Awls				(28)	(23.93)
EB2	27	-	1	28	23.93
Saws/Notches				(7)	(5.98)
FB	5	-	-	5	4.27
FD	2	-	-	2	1.71
Retouched Flakes/Blades				(8)	(6.84)
HD	7	-	1	8	6.84
Total Stone Tools:	108	4	5	117	100.00
Waste Products					
IA1	3	-	-	3	
IB1	1	-	-	1	
IC	-	-	1	1	
JA	12	-	-	12	
JB	-	-	1	1	
JC	3	-	-	3	
KA	35	2	9	46	
KB	32	1	3	36	
LA	74	-	10	84	
LB	45	1	3	49	
MC	4	-	-	4	
NA	1	-	-	1	
NB	2	-	-	2	
QA	2	-	2	4	
QB	9	-	-	9	
Total Stone Waste:	224	4	28	256	
TOTAL STONE ARTIFACTS	332	8	33	373	(+ an unknown proportion of 1370 unstratified stone waste products from 1924 excavation)
Bone Tools					
IICBa (antler)	1	-	-	1	
IICB? (antler)	1	-	-	1	
IIDB? (bone)	3	-	-	3	
Total Bone Tools:	5	-	-	5	
TOTAL ARTIFACTS	337	8	33	378	

Raw Materials: 356 flint, 1 Carboniferous chert, 16 quartzite, 2 antler (Rangifer tarandus), 3 bone.

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55. MOTHER GRUNDY'S PARLOUR, Creswell, Derbyshire (SK536743) : MESO./L.U.P. ARTIFACTS

Excavators: Armstrong, 1924; Heburney, 1959-60; Campbell, 1969.

Sources: Armstrong, 1925; Garrod, 1926; Campbell, 1969; C.B.M. McBurney (personal communications).

Collections: BM, CMAE, FRM, MOR.

Artifact Forms	No. (1924, middle spit)	No. (1959-60, interface C/B)	No. (1969, interface C/B)	No. (combined)	% (of total stone tools)
Backed Tools				(29)	(76.32)
AB1	1	-	-	1	2.63
AB2	4	1	-	5	13.16
AB6	3	2	-	5	13.16
AC1	2	-	-	2	5.26
AC2	2	-	-	2	5.26
AC5	2	-	-	2	5.26
AC7	2	-	-	2	5.26
AC23	5	-	1	7	18.42
AD1	2	-	-	2	5.26
AE2?	-	-	1	1	2.63
Burins				(3)	(7.90)
BA1	2	-	-	2	5.26
BB2	1	-	-	1	2.63
Scrapers				(4)	(10.53)
CA1	1	-	-	1	2.63
CA2	1	-	-	1	2.63
CA4	1	-	-	1	2.63
CB	1	-	-	1	2.63
Awls				(2)	(5.26)
SB2	2	-	-	2	5.26
Total Stone Tools:	33	5	2	38	100.01
Waste Products					
IA1	1	-	-	1	
IF2	-	-	1	1	
JA	-	1	-	1	
JB	1	-	-	1	
KA	4	1	5	10	
KB	10	-	-	10	
LA	8	3	6	17	
LB	4	2	2	8	
MA	4	2	2	8	
MB	1	-	-	1	
QB	2	-	-	2	
Total Waste Products:	32	7	14	53	
Total Stone Artifacts:	65	10	16	91	
Bone Tools					
IIA	1	-	-	1	
TOTAL ARTIFACTS	66	10	16	92	

(+ an unknown proportion of 1370 unstratified stone waste products from 1924 excavation)

Raw Materials: 89 flint, 2 quartzite, 1 bone (Equus?)

56. MOTHER GRUNDY'S PARLOUR, Creswell, Derbyshire (SK536743) : MESOLITHIC ARTIFACTS

Excavators: Armstrong, 1924; McBurney, 1959-60; Campbell, 1969.

Sources: Armstrong, 1925; Garrod, 1926; Campbell, 1969; C.B.M. McBurney (personal communications).

Collections: BM, CMAE, FRM, MOR.

Artifact Forms	No. (1924, upper middle spit)	No. (1959-60, layer C)	No. (1969, layers C-D)	No. (combined)	% (of total stone tools)
Backed Tools				(76)	(65.52)
AA1	1	-	2	3	2.59
AB1	7	3	-	10	8.62
AB2	24	5	2	31	26.72
AB4	-	-	1	1	0.86
AB5	1	1	2	4	3.45
AB6/12	7	3	-	10	8.62
AB7	-	1	-	1	0.86
AB11	1	-	-	1	0.86

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II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

MOTHER GRUNDY'S PARLOUR (Mesolithic) contd.

Artifact Forms	No. (1924, upper middle spit)	No. (1959-60, layer C)	No. (1969, layers C-D)	No. (Combined)	% (of total stone tools)
Backed Tools (contd)					
AC2	4	-	-	4	3.45
AC5	1	-	-	1	0.86
AC7	1	-	-	1	0.86
AC21	1	-	-	1	0.86
AC22a	2	1	-	3	2.59
AC22b	1	-	-	1	0.86
AC23	3	1	-	4	3.45
Burins				(6)	(5.17)
BA1	3	-	-	3	2.59
BA2	1	-	-	1	0.86
BA5	1	-	-	1	0.86
BB2	-	-	1	1	0.86
Scrapers				(23)	(19.83)
CA1	3	1	3	7	6.03
CA2	3	3	3	9	7.76
CA4	1	1	1	3	2.59
CE	1	-	3	4	3.45
Awls				(9)	(7.76)
EB2	6	1	2	9	7.76
Saws				(1)	(0.86)
FB	1	-	-	1	0.86
Retouched Flakes/Blades				(1)	(0.86)
HD	1	-	-	1	0.86
Total Stone Tools:	75	21	20	116	100.00
Waste Products					
IB1	2	1	4	7	
IB3	-	-	1	1	
JA	7	-	6	13	
JB	2	2	4	8	
JC	-	1	3	4	
KA	46	6	41	93	
KB	9	2	10	21	
LA	66	10	36	112	
LB	70	27	14	111	
MA	4	-	2	6	
MB	7	9	1	17	
MC	1	-	-	1	
QA	9	-	2	11	
QB	71	6	36	113	
Total Stone Waste:	294	64	160	518	(+ an unknown proportion of 1370 unstratified stone waste products from 1924 excavation)
TOTAL ARTIFACTS	369	85	180	634	

Raw Materials: 529 flint, 14 Carboniferous chert, 91 quartzite

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57. OLD WOMAN'S HOUSE CAVE, Taddington, Derbyshire (SK165708) : ?L.U.P. ARTIFACTS

Excavator: Fox, 1910. Source: Fox, 1911. Collection: BUX.

Artifact Forms	No. (?layer B)
Waste Products	
KB	2
LA	1
QB	2
TOTAL ARTIFACTS	5

Raw Materials: 3 flint, 2 Carboniferous chert

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58. ONE ASH SHELTER, Monyash, Derbyshire (SK173656) : ?L.U.P. ARTIFACTS

Excavator: Harris, 1927. Sources: Bramwell, 1962; T.A. Harris (personal communications). Collection: T.A. Harris, Ashford.

Artifact Forms	No. (layer B)
Backed Tools	
AA1	1
AB6	1
Saws	
FA	1
Total Stone Tools:	3

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II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

ONE ASH SHELTER (contd)

Artifact Forms	No. (layer B)
Waste Products	
IB1	1
JA	4
JB	1
JC	1
KA	11
KB	2
IA	2
Total Stone Waste:	22
TOTAL ARTIFACTS	25

Raw Materials: 24 flint, 1 Carboniferous chert

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59. PIN HOLE, Creswell, Derbyshire (SK533742) : L.U.P. ARTIFACTS

Excavators: Mello, 1874; Armstrong, 1924-38. Sources: Mello, 1875; Armstrong, 1925, 1928 and 1951; Kitching, 1963. Collections: BM, MM.

Artifact Forms	No. (1924-38, 1'-4'6" spits, L.U.P.)	No. (1924-38, o'-3' spits ? Meso/L.U.P.)	No. (combined)
Backed Tools			
AB1	1	1	2
AB2	2	2	4
AC2	2	-	2
AC10	1	-	1
AC23	-	2	2
AE1	1	-	1
AE4	1	-	1
Scrapers			
CB	2	-	2
"Zinken"			
DC	1	-	1
Awls			
EB2	1	1	2
Saws			
FB	-	3	3
Retouched Flakes/Blades			
HA	-	1	1
HD	1	2	3
Total Stone Tools:	13	12	25
Waste Products			
JA	1	2	3
JC	-	1	1
KA	4	2	6
KB	5	-	5
LA	10	8	18
LB	-	1	1
MA	-	1	1
MB	-	1	1
MC	-	1	1
QB	-	1	1
Total Stone Waste:	20	18	38
TOTAL ARTIFACTS	33	30	63

(+ possibly Bone Tools IICB, IIDA and IIDB listed under E.U.P. site 24, Pin Hole, q.v., although their stratigraphic positions are more suggestive of an E.U.P. age)

Raw Materials: all flint

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60. ROBIN HOOD'S CAVE, Creswell, Derbyshire (SK534742) : L.U.P. ARTIFACTS

Excavators: Dawkins and Mello, 1874-76; Campbell, 1969.

Sources: Mello, 1875, 1876 and 1877; Dawkins, 1876 and 1877; Garrod, 1926; Campbell, 1969.

Collections: BM, BMNH, BOL, DM, MM, PM, SCM.

Artifact Forms	No.(1874-76, layers B3/2) L.U.P.	No.(1969, layer B/A) L.U.P.1	No.(1969, layer LSB) L.U.P.2	No.(1969, layer OB) L.U.P.3	No.(1969, layer USB) Meso./L.U.P.	No. (combined)	% (of total stone tools)
Backed Tools						(38)	(60.32)
AA1	4	-	1	4	-	9	14.29
AB1	-	-	-	1	-	1	1.59
AB2	3	-	1	1	-	5	7.94
AB5	-	1	-	-	-	1	1.59
AB6	2	-	-	-	-	2	3.18
AC1	-	1	-	-	-	1	1.59
AC2	1	1	5	-	1	8	12.70
AC6	1	-	-	-	-	1	1.59
AC7	1	-	-	-	-	1	1.59
AC10	-	-	1	-	-	1	1.59
AC20	-	-	1	-	-	1	1.59
AC23	-	-	-	-	1	1	1.59
AD1	1	-	1	1	-	3	4.76
AD5	2	-	-	1	-	3	4.76
Burins						(8)	(12.70)
BA1	2	-	-	-	-	2	3.18
BA2	1	-	-	-	1	2	3.18
BB2	1	-	-	1	-	2	3.18
BC1	-	-	-	1	-	1	1.59
BE1	1	-	-	-	-	1	1.59
Scrapers						(7)	(11.11)
CB	1	-	-	-	-	1	1.59
CC	1	-	-	-	-	1	1.59
CD	-	-	-	-	1	1	1.59
CE	1	-	1	-	1	3	4.76
CF	1	-	-	-	-	1	1.59
Borers/Awls						(5)	(7.94)
EA1	1	-	-	-	-	1	1.59
EB2	1	1	-	2	-	4	6.35
Multiple Classes						(3)	(4.76)
GA(AC2/BA2)	-	-	-	1	-	1	1.59
GA(AC5/BA1)	-	-	1	-	-	1	1.59
GB(BA2/CB)	1	-	-	-	-	1	1.59
Retouched Flakes/Blades						(2)	(3.18)
HD	1	-	1	-	-	2	3.18
Total Stone Tools:	28	4	13	13	5	63	100.01
Waste Products							
IA1	1	-	-	-	-	1	
IB2	1	-	-	-	-	1	
IF2?	-	-	-	1	-	1	
JA	2	-	1	1	2	6	
JB	1	-	-	1	-	2	
KA	19	15	31	27	3	95	
KB	8	6	2	6	1	23	
LA	25	8	36	31	4	104	
LB	8	2	13	4	3	30	
MB	1	-	-	2	-	3	
NA	-	-	2	1	-	3	
QA	-	1	2	-	-	3	
QB	3	-	-	1	-	4	
Total Stone Waste:	69	32	87	75	13	276	
Total Stone Artifacts:	97	36	100	88	18	339	
Bone Tools							
IIA	-	-	-	2	-	2	
TOTAL ARTIFACTS:	97	36	100	90	18	341	

Raw Materials: 332 flint, 1 Carboniferous chert, 6 quartzite, 2 bone.

(+ an unknown portion of c.400 missing "simple flint flakes and splinters", Dawkins, 1877, p.591; as well as possibly bone tools IIA and IIDB listed under L.U.P. site 26, Robin Hood's Cave, q.v.)

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II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

61. ELDER BUSH CAVE, Wetton, Staffordshire (SK097548) : L.U.P. ARTIFACTS

Excavators: Wilson and Bramwell, 1935-52. Source: Bramwell, 1964; D. Bramwell (personal communications). Collection: BUX.

Artifact Forms	No. (layer SB)
Backed Tools	
ABl	1
Waste Products	
JA	1
KA	3
KB	3
LA	2
LB	1
TOTAL ARTIFACTS	11

Raw Materials: all flint

62. OSSUM'S CAVE, Grindon, Staffordshire (SK095557) : L.U.P. ARTIFACTS

Excavator : Bramwell, 1954-56. Source: Bramwell, 1955; D. Bramwell (personal communications). Collections: D. Bramwell, Bakewell; S. Gee, Stockport.

Artifact Forms	No. (layer SB)
Backed Tools	
AC23	1
Burins	
BCl	1
BE5	1
Retouched Flakes	
HC	1
Total Stone Tools:	4
Waste Products	
JA	1
JB	1
JC	1
KA	13
KB	4
LA	19
LB	5
Total Stone Waste:	44
Bone Tools	
IIA	1
TOTAL ARTIFACTS	49

Raw Materials: 45 flint, 3 Carboniferous chert, 1 bone

63. THOR'S FISSURE, Wetton, Staffordshire (SK099550) : L.U.P. ARTIFACTS

Excavators: Wilson and Bramwell, 1927-35. Sources: Wilson, 1934 and 1937; Jackson, 1962; D. Bramwell (personal communications). Collection: BUX.

Artifact Forms	No. (? layer SB)
Backed Tools	
ACl	2
Waste Products	
KA	1
KB	1
TOTAL ARTIFACTS	4

Raw Materials: all flint

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64. CRANWICH, Northwold, Norfolk (TLc.780950): ?L.U.P. ARTIFACTS

Collectors: Halls and Clarke, 1900-13; Wymer, 1920s. Sources: Halls, 1914; Clarke, 1914; Wymer, 1971; J. Wymer (personal communications). Collection: NCM.

Artifact Forms	No.	
Backed Tools		
AB1	2	
AB6	1	
AD1	1	
AF4	1	
TOTAL ARTIFACTS	5	(+ possibly a small portion of various other stone artifacts from Cranwich, although most of these appear Mesolithic and later)

Raw Materials: all flint

65. NETHWOLD DISTRICT, Nethwold, Norfolk (TLc.730950) : ?L.U.P. ARTIFACTS

Collector: unknown. Source: B. Green (personal communication). Collection: NCM.

Artifact Forms	No.	
Backed Tools		
AF4	1	
TOTAL ARTIFACTS	1	Raw Material: flint

66. LONDON BOTTOM, Icklingham, Suffolk (TLc.775735) : L.U.P. ARTIFACTS

Collector: Sturge, c.1910. Source: Sturge, 1914. Collection: BM.

Artifact Forms	No.	
Backed Tools		
AB1	8	
AB2	2	
AC7	2	
Burins		
BA1	3	
BB2	1	
Scrapers		
CB	4	
"Zinken"		
DA	2	
TOTAL ARTIFACTS	22	(+ an uncertain proportion of various other stone artifacts, although most of these appear Mesolithic and later)

Raw Materials: all flint

67. MILDENHALL DISTRICT, Mildenhall, Suffolk (TLc.710750) : ?L.U.P. ARTIFACT

Collector: unknown. Source: A. Rosenfeld (personal communication). Collection: BM.

Artifact Forms	No.	
Backed Tools		
AF2	1	
TOTAL ARTIFACTS	1	Raw Materials: flint

68. WANGFORD WARREN, Wangford, Suffolk (TLc.770830) : ?L.U.P. ARTIFACTS

Collector: Sturge, c.1910. Sources: Sturge, 1914; Garrod, 1926; Clark, 1932. Collections: BM, CMAE.

Artifact Forms	No.	
Backed Tools		
AB6	1	
AD1	1	
TOTAL ARTIFACTS	2	(+ possibly a small portion of various other stone artifacts from Wangford Warren, although most of these appear Mesolithic)

Raw Materials: all flint

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69. OAKE, Faversham, Kent (TRc.005630) : L.U.P. ARTIFACTS

Collector: Morris? Source: Clark, 1938. Collection: BM.

Artifact Forms	No.
Backed Tools	
AD2	1
AD4	1
Saws	
FB	1
Waste Products	
KB	2
TOTAL ARTIFACTS	5

Raw Materials: all flint

70. CROWN ACRES, Thatcham, Berkshire (SU511667) : L.U.P. ARTIFACTS

Collector: Froom, 1961. Source: J. Wymer (personal communications). Collections: BM, and F.R. Froom, Newbury.

Artifact Forms	No.
Backed Tools	
AB1	1
Burins	
BA1	1
Scrapers	
CE	2
Total Stone Tools:	4
Waste Products	
IA1	7
IB1	11
JA	9
JB	4
JC	8
KA	51
KB	38
LA	129
LB	53
QB	18
Total Stone Waste:	328
TOTAL ARTIFACTS	332

Raw Materials: all flint

71. BUNCH LANE, Haslemere, Surrey (SU894334) : ?L.U.P. ARTIFACT

Collector: Chandler, c.1900. Source: Swanton, 1914. Collection: unknown.

Artifact Forms	No.
Backed Tools	
AF2	1
TOTAL ARTIFACTS	1

Raw Material: flint

72. WEYDON PIT, Farnham, Surrey (SU837458) : ?L.U.P. ARTIFACT

Collector: Stonard, c.1928. Sources: Moir, 1929; Oakley, 1939. Collection: H. Bury, Farnham.

Artifact Forms	No.
Backed Tools	
AB1	1
TOTAL ARTIFACTS	1

Raw Material: flint

73. HENGISTBURY HEAD SITE A, Bournemouth, Hampshire (SZ179906) : L.U.P. ARTIFACTS

Collector: Druitt, 1913. Source: Mace, 1959. Collection: BHM.

Artifact Forms	No.
Backed Tools	
AB2	4
AC2	3
AD1	1
AF2	2
TOTAL ARTIFACTS	10

(+ probably a small portion of various other stone artifacts from Site A at Hengistbury, although most of these appear Mesolithic and later)

Raw Materials: all flint

.../30

74. HENGISTBURY HEAD SITE B, Bournemouth, Hampshire (SZ178906) : ?L.U.P. ARTIFACTS

Excavator: Calkin, c.1953. Source: Mace, 1959. Collection: RHM.

Artifact Forms	No.
Backed Tools	
AB1	1
AB2	1
AE4?	1
TOTAL ARTIFACTS	3 (+ 6 other stone artifacts which are more likely Mesolithic or later)

Raw Materials: all flint

75. HENGISTBURY HEAD SITE C, Bournemouth, Hampshire (SZ178904) : L.U.P. ARTIFACTS

Collectors: Draper, 1957; Cotton, 1963; Ridley, 1969.

Sources: J.C. Draper (personal communication); A. Cotton (personal communication); M. Ridley (personal communication).

Collections: A. Cotton, Brockenhurst; J.C. Draper, Fareham; A. Nobili-Vitelleschi, Bournemouth; M. Ridley, Rochdale.

Artifact Forms	No.
Backed Tools	
AC1	1
AC2	2
AE1	1
TOTAL ARTIFACTS	4 (+ various other stone artifacts which are more likely Mesolithic or later)

Raw Materials: all flint

76. HENGISTBURY HEAD SITE C1, Bournemouth, Hampshire (SZ178904) : L.U.P. ARTIFACTS

Excavator: Mace, 1957. Sources: Mace, 1959; A. Mace (personal communications). Collections: BM, RHM.

Artifact Forms	No. (? layers B)
Backed Tools	
AC1	1
AC2	1
AD1	2
AD1?	3
AE1	1
AE5	1
TOTAL ARTIFACTS	9 (+ probably a small portion of various other stone artifacts excavated by Mace from Site C1, although most of these appear Mesolithic and later)

Raw Materials: all flint

77. HENGISTBURY HEAD SITE C1, Bournemouth, Hampshire (SZ178904) : ?MESOLITHIC ARTIFACTS

Excavator: Mace, 1957. Sources: Mace, 1959; A. Mace (personal communications). Collections: BM, RHM.

Artifact Forms	No. (? layers A)	%(of total stone tools)
Backed Tools	(108)	(64.29)
AA1	2	1.19
AB1	6	3.57
AB2/8	86	51.19
AB5	6	3.57
AB6/12	3	1.79
AC23?	5	2.98
Burins	(21)	(12.50)
BA1	4	2.38
BA2	1	0.60
BA4	4	2.38
BA5	1	0.60
BB2	5	2.98
BC1	1	0.60
BD1	2	1.19
BE1	1	0.60
BE5	2	1.19

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HENGISTBURY HEAD SITE C1 (contd)

Artifact Forms	No.(? layers A)	% (of total stone tools)
Scrapers	(36)	(21.43)
CA1	1	0.60
CA2	11	6.55
CA3	4	2.38
CB	2	1.19
CE	18	10.71
Awls	(1)	(0.60)
EB1	1	0.60
Saws	(1)	(0.60)
FA	1	0.60
Multiple Classes	(1)	(0.60)
GB(BA4/CB)	1	0.60
Total Stone Tools:	168	100.02
Waste Products		
IA1	3	
IB1	14	
IB2	4	
IB3	3	
IB4	1	
IC	2	
IE	1	
IF2	1	
IF4?	1	
JA	62	
JB	21	
JC	14	
KA	228	
KB	79	
LA	344	
LB	1894	
MA	2	
MB	3	
MC	1	
NA	26	
NB	2	
QA	2	
QB	172	
Total Stone Waste:	2880	
TOTAL ARTIFACTS	3048	Raw Materials: 3047 flint, 1 sandstone

78. HENGISTBURY HEAD SITE C2, Bournemouth, Hampshire (SZ178904) : L.U.P. ARTIFACTS

Excavator: Campbell, 1968-69. Collection: PRM.

Artifact Forms	No.(layers B2/1)	%(of total stone tools)
Backed Tools	(15)	(45.46)
AB1	4	12.12
AB2	4	12.12
AC2	3	9.09
AC4	1	3.03
AE1	2	6.06
AF3	1	3.03
Burins	(2)	(6.06)
BA1	1	3.03
BC3	1	3.03
Scrapers	(7)	(21.21)
CA2	4	12.12
CB	3	9.09
Awls	(3)	(9.09)
EB1	1	3.03
EB2	2	6.06
Multiple Classes	(4)	(12.12)
GA(AF2/BA1)	1	3.03
GB(BD2/EB1)	1	3.03
GC(CD/FB)	1	3.03
GE(EB2/FB)	1	3.03
Retouched Blades	(2)	(6.06)
HA	1	3.03
HC	1	3.03
Total Stone Artifacts:	33	100.00

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II. LATER UPPER PALAEOLITHIC GAZETTEER (contd)

HENGISTBURY HEAD SITE C2 (contd)

Artifact Forms	No.(layers B2/1)
Waste Products	
IA1	2
IB1	11
IB2	1
JA	33
JB	9
JC	18
KA	309
KB	97
LA	320
LB	235
MB	1
NA	12
OB	1
OB?	1
QA	3
QB	77
Total Stone Waste:	1130
TOTAL ARTIFACTS	1163

Raw Materials: 1162 flint, 1 ironstone

79. HENGISTBURY HEAD SITE C2, Bournemouth, Hampshire (SZ178904) : MESOLITHIC ARTIFACTS

Excavator: Campbell, 1968-69. Collection: PRM.

Artifact Forms	No. (layers A2/A1a)	%(of total stone tools)
Backed Tools	(30)	(38.96)
AB1	2	2.60
AB2/8	18	23.38
AB6/12	5	6.49
AC22a	2	2.60
AC22b	1	1.30
AC22d	1	1.30
AC23?	1	1.30
Burins	(10)	(12.99)
BA1	3	3.90
BA2	2	2.60
BA4	1	1.30
BB2	1	1.30
BB4	1	1.30
BD1	1	1.30
BE2	1	1.30
Scrapers	(30)	(38.96)
CA1	2	2.60
CA2	11	14.29
CA4	2	2.60
CB	3	3.90
CE	11	14.29
CF	1	1.30
Saws	(7)	(9.09)
FA	1	1.30
FB	6	7.79
Total Stone Tools:	77	100.00
Waste Products		
IA1	4	
IB1	6	
IB2	1	
IC	1	
IF1	1	
IF2	1	
JA	74	
JB	15	
JC	11	
KA	481	
KB	53	
LA	504	
LB	729	
MC	1	
NA	32	
NB	5	
OA	1	
QA	11	
QB	347	
Total Stone Waste:	2278	
TOTAL ARTIFACTS	2355	

Raw Materials: 2353 flint, 2 sandstone

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80. LONG ISLAND, Havant, Hampshire (SU699042) : L.U.P. ARTIFACTS

Collector: Draper, 1958-60. Sources: Draper, 1962; J.C. Draper (personal communications). Collection: J.C. Draper, Fareham.

Artifact Forms	No.
Backed Tools	
AE4	1
Burins	
BA3	1
Multiple Classes	
GC(CB/FA)	1
TOTAL ARTIFACTS	3

Raw Materials: all flint

81. RUSH CORNER, Bournemouth, Hampshire (SZ090927) : ?L.U.P. ARTIFACT

Collector: unknown. Source: J.H. Lavender (personal communication). Collection: BMH.

Artifact Forms	No.
Backed Tools	
AE1	1
TOTAL ARTIFACTS	1

Raw Material: flint

82. PORTLAND BILL SITE 1, Southwell, Dorset (SY681690) : ?L.U.P. ARTIFACTS

Excavator: Palmer, 1966. Sources: Palmer, 1968 and 1970; S. Palmer (personal communication). Collection: DCM.

Artifact Forms	No.(Mesolithic layer)
Backed Tools	
AE1?	1
AB6?	2
AF1?	2
AF2	2
TOTAL ARTIFACTS	7 (perhaps Mesolithic instead, although Palmer considers these 7 artifacts "Late Palaeolithic")

Raw Materials: all Portland chert

83. VERNE DITCH, Fortuneswell, Dorset (Syc.690735) : ?L.U.P. ARTIFACTS

Collector: Clifton, c.1880-88. Sources: Palmer, 1967 and 1970; S. Palmer (personal communication). Collection: BM.

Artifact Forms	No.
Backed Tools	
AF1?	1
AF2	1
AF4	2
TOTAL ARTIFACTS	4 (perhaps Mesolithic or later, although Palmer considers these 4 artifacts "Late Palaeolithic")

Raw Materials: all Portland chert

III. GAZETTEER OF SUPPOSEDLY UPPER PALAEOLITHIC FINDS

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1. FRAA SANDS, Pentreath, Cornwall (SW574281) : "CRESWELLIAN" (?NATURAL)

Collector: Reid, 1903. Source: Thomas, 1958. Collection: unknown.

Supposed quartz "implements" and "hearths" of charcoal and "burnt bone fragments" in cliff section 15 cm. layer 5, "black loam", below 10 m. thick layers 6 and 7, "head". Section visited by present author who interprets present exposure of charcoal in layer 5 as quite likely the result of natural carbonization; in any case, age of layer 5 probably about Early Last Glacial/Last Interglacial, hardly "Creswellian". Layer 5 only 2 m. above ancient marine layers 2 and 3.

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2. BRACELET CAVE, Wookey Hole, Somerset (ST523483) : "CRESWELLIAN" (SITE UNCERTAIN)

Excavators: Harris and Mason, 1955-57. Sources: Jackson, 1962; E.K.T. Tratman (personal communication). Collection: WHM.

2 KB of chert, original site uncertain according to Tratman.

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3. BRIDGED POT SHELTER, Wookey Hole, Somerset (ST529488) : "SOLUTREAN" (?NEOLITHIC)

Excavators: Balch, 1926-27; McBurney, 1958. Sources: Balch, 1928; McBurney, 1959; E.K.T. Tratman (personal communications). Collection: WM.

"Hoard" of 11 large, supposed "Solutrean" flint artifacts found by Balch (1928, Fig.7-16) in a niche in the limestone bedrock wall, "placed with their sides touching each other, and on edge", apparently in a deposit of "white tufa" to "angular scree" only about 30 cm. below the occurrence of an Early Bronze Age/Neolithic polished stone axe (1928, pp.198-204, Fig.4). This deposit was presumably the equivalent of McBurney's layers C and B (1959, plate 18), and the "Solutrean" artifacts themselves intrusive from Balch's Neolithic horizon at the top of his "white tufa". Typologically, McBurney (1959, pp.262-64) thinks this cache of "leaf-shaped bifacial spearheads" and "Levallois flakes" might belong either to the Altmühl variant of the final German Mousterian or to the Mildenhall variant of the British Neolithic, preferring the older interpretation as he thinks the cache may originally have come from his basal layers A rather than B. The present author has examined the artifacts in question and found traces of a light grey to white tufaceous matrix adhering to some of them, and Tratman, who was present at Balch's excavations shortly after they were found, states emphatically that they came from the Neolithic portion of the "white tufa".

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4. CHELM'S COMBE SHELTER, Cheddar, Somerset (ST464545) : ?L.U.P. ACTIVITY

Excavator: Balch, 1925. Sources: Clay, 1927; Balch, 1935. Collection: WM.

Split long bones of Equus and Rangifer from an apparent layer B of "angular scree", as well as 2 possible bone tools: a mammal bone fragment with notches and a bird bone drilled for a "whistle".

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5. SAVORY'S HOLE, Wookey Hole, Somerset (ST525486) : ?L.U.P. ACTIVITY

Excavator: McBurney, 1958. Source: McBurney, 1959. Collection: CMAE.

Split long bones of large mammals near the top of a Layer B (thermoclastic scree).

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6. BACON HOLE, Southgate, Glamorganshire (SS561868) : "PARIETAL ART" (NATURAL)

Observers: Breuil, Morgan and Sollas, 1912; Rutter and Allen, 1947; Campbell, 1968. Sources: Morgan, 1913; Garrod, 1926; Rutter and Allen, 1948.

Streaks of red ochre observed at various times on an inner wall of the cave, supposedly covered with a thin stalagmitic accretion. Breuil thought that 10 in particular might possibly be Palaeolithic as they were observed running more or less horizontally and roughly parallel. However, all of these streaks in fact vary with time, as they ooze out of the Carboniferous limestone bedrock and run slowly with water.

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III. GAZETTEER OF SUPPOSEDLY UPPER PALAEOLITHIC FINDS (contd)

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7. BEACON HILL, Flamborough, Yorkshire (TA228693) : "UPPER PALAEOLITHIC" (?NEOLITHIC)

Collector: Burchell, c.1928. Source: Moir and Burchell, 1930. Collection: BM.

"Upper Palaeolithic" flint artifacts supposedly from beneath the uppermost boulder clay of Flamborough Head. Artifacts appear much more likely to be Neolithic or later and are presumably surface finds.

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8. SOUTHWAITE RESERVOIR SITES 1 TO 3, Ramsgill, Yorkshire (SE136688, 127703 and 122706): "AURIGNACIAN" (NATURAL AND SOME ?NEOLITHIC)

Collector: Collins: 1929. Source: Collins, 1933. Collections: BM, CMAE, FYC.

Supposed "Aurignacian artifacts" from morainic deposits and hillwash. Mostly naturally fractured lumps of chert but including a few artifacts which have a more Neolithic than Upper Palaeolithic appearance.

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9. HATFIELD LEVELS, Hatfield, Yorkshire (SEc.700100) : "CRESWELLIAN" (MESOLITHIC)

Collector: Darley, 1912. Source: Manby, 1966. Collection: DCM.

Supposed "Creswellian shouldered point", in fact an AB6 of Mesolithic aspect.

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10. HARDWICK HILL, Scotter, Lincolnshire (SK837996) : "CRESWELLIAN" (MESOLITHIC)

Collectors: Armstrong and Rudkin, 1932. Source: Manby, 1966. Collection: BM.

Supposed "Creswellian 'Cheddar' point", in fact an AC22b of Mesolithic aspect. Collection includes other Mesolithic tool-forms as well.

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11. MARTON COMMON, Marton, Lincolnshire (SEc.930030) : "CRESWELLIAN" (MESOLITHIC)

Collector: unknown. Source: Manby, 1966. Collection: SCUN.

Supposed "Creswellian 'Creswell' point", in fact an AC22a of Mesolithic aspect. Collection includes other Mesolithic tool-forms as well.

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12. ASH TREE CAVE, Whitwell, Derbyshire (SK519761) : "CRESWELLIAN" (MESOLITHIC)

Excavators: Armstrong, 1949-56; McBurney, 1959-60. Sources: Armstrong, 1957; Manby, 1966. Collections: CMAE, SCM.

Supposed "Creswellian" artifacts include as backed tools only Mesolithic "microliths" and a "petit tranchet derivative" of more Neolithic aspect.

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13. MINNINGLOW, Ballidon, Derbyshire (SK211573) : "CRESWELLIAN" (MESOLITHIC)

Collector: Lomas, 1958. Source: Manby, 1966. Collection: DM.

Supposed "Creswellian" AB6, appears much more Mesolithic in form.

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14. WHALEY SHELTERS 1 AND 2, Whaley, Derbyshire (SK515717 and 511721) : "PROTO-SOLUTREAN AND CRESWELLIAN" (NEOLITHIC AND MESOLITHIC)

Excavators: Armstrong, 1941-49; Radley, 1966 (Whaley 2 only).

Sources: Jackson, 1962; Manby, 1966; Radley, 1967; T.A. Harris (personal communication); J.W. Jackson (personal communication).

Collection: SCM

Supposed "Proto-Solutrean" occurrence at Whaley 2, in fact Neolithic according to Radley's excavation results, Harris and Jackson's recollections of Armstrong's original field-work, and the appearance of the extant artifacts. Supposed "Creswellian" occurrences at Whaley 1 and 2 both Mesolithic at the earliest, judging from surviving "microliths" and Radley's results at 2.

.../3

15. HEACHAM PARK, Heacham, Norfolk (TF678380) : "AURIGNACIAN" (?NEOLITHIC)

Collector: Lowerison, 1914. Source: Lowerison, 1914; D.F.W. Baden-Powell (personal communication.) Collections: CMAE, NCM.

Supposed "Aurignacian" assemblage appears much more Neolithic in aspect.

16. HUNSTANTON DISTRICT, Hunstanton, Norfolk (TFc.680410) : "UPPER PALAEOLITHIC" (?MESOLITHIC)

Collector: Moir, c.1928. Source: Moir and Burchell, 1930. Collections: IM, NCM.

"Upper Palaeolithic" flint artifacts supposedly from beneath the uppermost boulder clay. Artifacts appear much more likely to be Mesolithic or later and are presumably surface finds.

17. THETFORD DISTRICT, Thetford, Norfolk (TLc.870830) : "SOLUTREAN" (?NEOLITHIC)

Collector: unknown. Source: Garrod, 1926. Collection: PRM.

Supposed "Solutrean" leaf-point in fact appears much more likely Neolithic or Early Bronze Age.

18. AVENUE FARM, Icklingham, Suffolk (TLc.750745) : "SOLUTREAN" (?NEOLITHIC)

Collector: Shinn, c.1920. Sources: Moir, 1923; Garrod, 1926. Collection: CMAE.

Supposed "Solutrean" leaf-point, although somewhat crude, appears much more likely Neolithic or Early Bronze Age.

19. CONSTANTINE ROAD, Ipswich, Suffolk (TMc.155440) : "SOLUTREAN" (?NEOLITHIC)

Collector: Hancox, 1903. Sources: Moir, 1923; Garrod, 1926. Collection: IM.

Supposed "Solutrean" leaf-points appear much more like so-called "Beaker daggers" of the Early Bronze Age/Neolithic.

20. PHILLIPS II SITE, Mildenhall, Suffolk (TL703787) : "LATE PALAEOLITHIC" (MESOLITHIC)

Collector: Kelly, c.1960-62. Source: unpublished. Collections: BM, CMAE.

Supposed "Late Palaeolithic" assemblage of "Late Glacial" age includes as backed tools only "microliths" of Mesolithic aspect.

21. RED HOUSE, Herringswell, Suffolk (TLc.720700) : "SOLUTREAN" (?NEOLITHIC)

Collector: Wells, 1908. Sources: Moir, 1923; Garrod, 1926. Collection: unknown.

Supposed "Solutrean" leaf-point appears much more likely Neolithic or Early Bronze Age (see Moir, 1923, Fig.7).

22. SOUTHGATE GREEN, Bury St. Edmunds, Suffolk (TL864633) : "SOLUTREAN" (?NEOLITHIC)

Collector: unknown. Sources: Moir, 1923; Garrod, 1926. Collection: NMM.

Supposed "Solutrean" leaf-point appears much more like a "Beaker dagger" of Early Bronze Age/Neolithic.

23. WICK-HENGISTBURY HEAD, Bournemouth, Hampshire (SZ164913) : "LATE PALAEOLITHIC" (?ACM)

Collector: Cotton, 1967. Source: Palmer, 1970. Collection: A. Cotton, Brockenhurst.

Supposed "Late Palaeolithic tanged point on flake with pronounced hinge" in fact not an AF or other tool at all, but a JC with recently knicked edges. Could be any age, but most likely from a blade using industry.