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6 The Pottery

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Early Iron Age pottery from the primary rampart

Fabric series

1. Hard, compact paste containing some fine to medium sand and a moderate quantity of white, grey or (rarely) pink calcined flint 1-10 mm in size. Core usually dark grey or black, inner surface grey or orange, outer surface orange or rarely black.
   Surface finish: essentially untreated with flint protruding through the uneven surface.
   Maximum sherd thickness: 11 mm.
   18 sherds, 19% of total.

2. Finer, slightly sandier paste than (1) with moderate to dense quantity of white and grey calcined flint up to 5 mm. Most sherds are completely reduced to a dark grey or black colour although a few have an orange exterior surface.
   Surface finish: generally partially smoothed.
   Maximum sherd thickness: 8 mm.
   37 sherds, 39% of total.

3. Very finely sanded, slightly micaceous paste with sparse to moderate white and grey calcined flint usually 2 mm or under. Grey core and interior surface with grey or orange exterior.
   Surface finish: exterior and interior surfaces carefully smoothed but not burnished.
   Maximum sherd thickness: 6 mm.
   18 sherds, 19% of total.

4. Sandy clay containing fine to medium grade sand and sparse to moderate inclusions of white and grey calcined flint up to 4 mm but mostly 1-2 mm. Grey core and orange exterior and interior surfaces.
   Surface finish: all sherds too abraded for assessment. One sherd overfired or re-fired.
   Maximum sherd thickness: 7 mm.
   9 sherds, 10% of total.

5. Coarse grade dark and translucent quartz sand with sparse white and grey calcined flint inclusions mainly 1-2 mm, rarely up to 5 mm. Brownish-orange surfaces with pale grey core.
   Surface finish: roughly smoothed or brushed.
   Maximum sherd thickness: 10 mm.
   4 sherds, 4% of total.

6. High content of very coarse sand with sparse to moderate white and grey calcined flint inclusions up to 2 mm. Grey core with orange or dark brown surfaces. Very rough texture.
   Surface finish: brushed? or untreated (all sherds abraded).
   Maximum sherd thickness: 6 mm.
   3 sherd, 3% of total.

7. Compact, soapy micaceous fabric with low quantity of fine sand and moderate quantity of white and grey calcined flint 1-4 mm. Grey core with dark brown or orange exterior surface.
Surface finish: essentially untreated.
Maximum sherd thickness: 8 mm.
2 sherds, 2% of total.

8. Hard, medium sandy fabric with no obvious additional temper. Uniform dark grey or black colour throughout.
Surface finish: variable - sometimes untreated, sometimes smoothed.
Maximum sherd thickness: 7 mm.
4 sherds, 4% of total.

Catalogue of cp 9 pottery (Fig. 6.37)

1540	P1376, layer 1	Devolved butt beaker rim. Alice Holt type 3.2 in grog-tempered fabric (G)
1541	P1376, layer 1	Butt beaker body sherd in fine white ware with roulette decoration
1542	P1376, layer 1/ P71, layer 1	Devolved butt beaker (body sherds) with combed decoration. Alice Holt type 3.1, in grog-tempered reduced ware (AH fabric G)
1543	P1470, layer 1	Terra nigra platter copy in coarse buff-coloured sandy ware. Surface heavily abraded
1544		Terra nigra platter copy in fabric as above with dark grey smoothed surface
1566	P1477, layer 1	Gallo-Belgic import. Fabric: Terra Rubra 1(C). Form: Cup, Cam. 56A. 10 BC-AD 25 (Rigby 1981, 159).
1545	P1481, layer 1	Cordoned body sherd in Alice Holt sandy reduced ware
1546		Basal sherd in Alice Holt sandy reduced ware
1547		Terra nigra platter copy. Probably Alice Holt product (type 6). In sandy ware with grey interior, burnished brown exterior with exterior wave decoration
1548		Bead-rim jar. Alice Holt type 4 in sandy reduced ware
1549		Bead-rim jar with unusual internal lip. Possibly Alice Holt product in grog-tempered reduced ware (AH fabric G)
1550		Carinated cup with shallow groove on internal rim in very coarse buff-coloured sandy fabric with partially blackened exterior
1551	P1517, layer 1	Ring-neck flagon in soft white fabric with sparse red inclusions. As Camulodunum Form 155
1565		Gallo-Belgic import. Fabric: Terra Rubra 3. Beaker base. c AD 10-60 (Rigby 1981, 159).

1552	P1519, layer 1	Carinated, cordoned bowl? (as Camulodunum Form 209?) in uniform dark grey sandy fabric
1553	P1556, layer 1	Bead-rim jar, Alice Holt type 4.25, in reduced grog-tempered fabric (AH fabric G)
1554	P1579, layer 1	Carinated cup in sandy fabric with grey core and light brown surfaces. Heavily abraded
1555	P1628, layer 1	Cup or bowl in uniform black sandy ware, with decoration of triple vertical incised lines. Form uncertain
1564	P1648, layer 1	Gallo-Belgic import. Fabric: Terra Nigra. Form: Cup, Cam. 56C. c AD 25-65 (Rigby 1981, 159).
1556	P1900, layer 1	Narrow-necked jar. Alice Holt type 1A in reduced grog-tempered fabric (AH fabric G)
1557	Layer 700	Cordoned sherd in reduced sandy ware. Possibly Alice Holt product
1558	Layer 702	Terra nigra platter copy in sandy ware with dark red core and black surfaces
1559	F71, layer 1	Sherd from cordoned jar in sandy reduced ware with sparse grog temper. Probably Alice Holt product
1560		Devolved butt-beaker. Alice Holt type 3.2. Grog-tempered ware (AH fabric G)
1561	G143	Terra nigra platter copy, probably Poole Harbour product
1562		Terra nigra platter copy in Poole Harbour fabric with wave decoration on interior and exterior
1563	Ph 7634/1669, layer 1	Carinated beaker or bowl (two joining sherds) in sandy reduced ware with buff interior and dark grey surfaces

Unillustrated sherds

P1376, layer 1	Fragment of necked jar in Alice Holt sandy reduced ware Body sherd of cordoned vessel in Alice Holt grog-tempered ware (G) Twenty-one sherds of fine, thin-walled white ware flagon (partially reduced). One sherd with iron repair rivet
P1452, layer 4	Body sherd of flagon? in thick walled white ware. Period uncertain
P1499, layer 1	Small rim fragment of terra nigra platter copy in micaceous sandy black fabric
P1579, layer 1	Two small sherds of samian ware (unidentified).

Roman amphorae by D.F. Williams

Dressel 1B

DA80 P1577 (2)

Part of a broken Dressel 1B rim in a hard, sandy pale red (Munsell 10R 6/3 to 6/4) fabric with small white limestone inclusions. Dressel 1B are wine-carrying amphorae characteristic of the Campanian, Latium and Etrurian districts of Italy and were made from about shortly after the first quarter of the first century BC until the last decade of the century (Peacock & Williams 1986, Class 4). In Britain, the majority of Dressel 1B amphorae are found north of the Thames (Peacock 1984), though in recent years an increasing number of these vessels have also been found in the south of the country (Fitzpatrick 1985; Cunliffe 1987).

Dressel 1sp

DA85 P2473 (1)

Part of a broken spike in what may be a similar fabric (?the same vessel) as the Dressel 1B rim above.

DA80 P1457 (1)

Body sherd in a slightly different fabric to the above two sherds, suggesting another vessel. The sherd is in a hard, sandy fabric, light pinkish-buff in colour (between 5YR 7/3 and 7.5YR 7/4).

It is difficult to be certain if these two sherds belong to the Dressel 1B form or the earlier Dressel 1A type. Although there are some fabric grounds for thinking that the spike may possibly belong to the Dressel 1B rim above. The Dressel 1A amphora form also carried wine and was made in those same parts of Italy mentioned above in connection with the production of Dressel 1B (Peacock & Williams 1986, Class 3). In Britain it is almost always found south of the Thames, the largest numbers being found at Hengistbury Head (Peacock 1971; Cunliffe 1987). Dressel 1A dates from about 130 BC till the mid first century AD.

References

CUNLIFFE, B. 1987: Hengistbury Head, Dorset Vol. 1 (Oxford: OUCA Monog. 13).

FITZPATRICK, A. 1985: The distribution of Dressel 1 amphorae in north-west Europe. OJA 4, 305-40.

PEACOCK, D.P.S. 1971: Roman amphorae in pre-Roman Britain. In Jesson, M. and Hill, D. (eds.), The Iron Age and its Hill-Forts (Southampton), 169-88.

PEACOCK, D.P.S. & WILLIAMS, D.F. 1986: Amphorae and the Roman Economy (London).

Some typical stratified groups

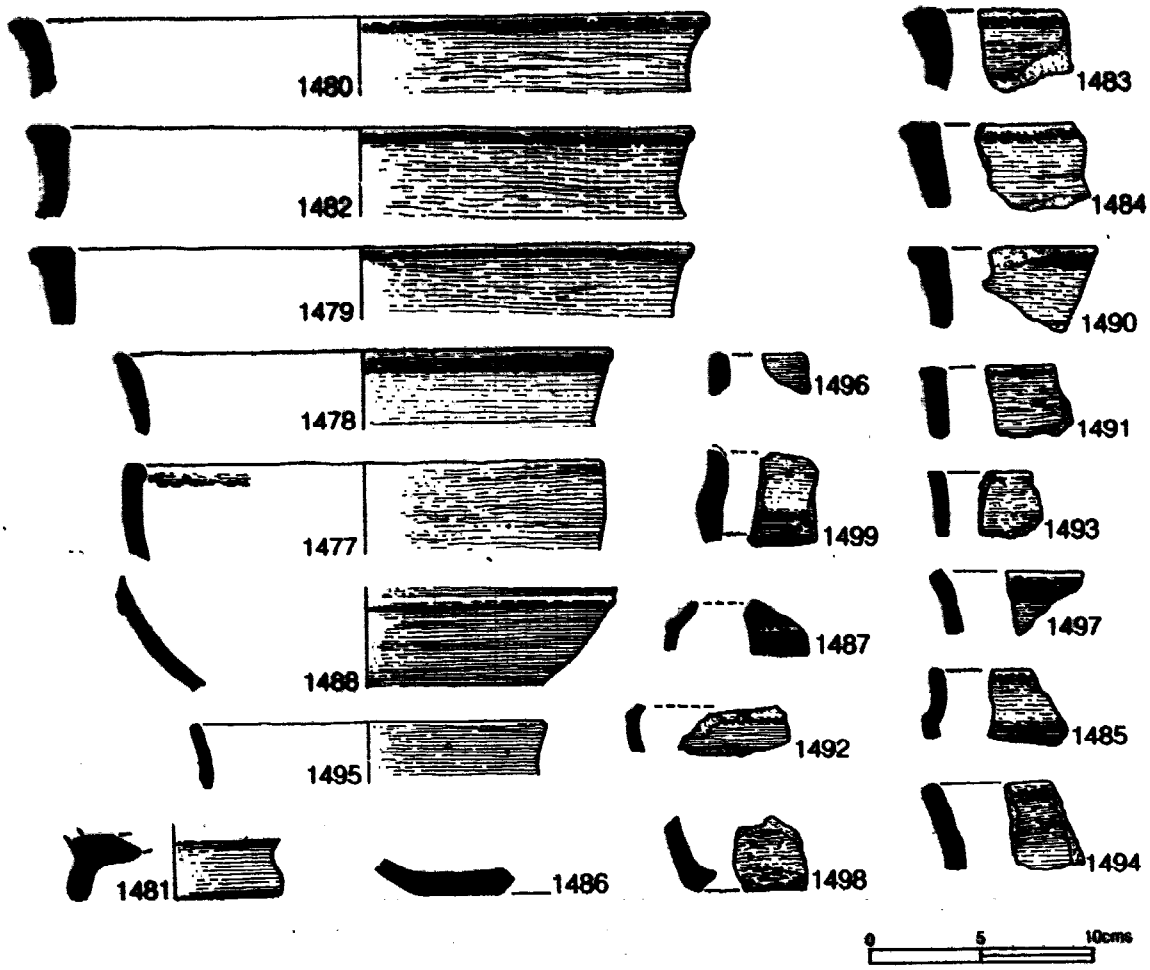
Pottery from 25 contexts was selected for detailed presentation. Eighteen are presented in the text and seven below. The basis for selection and the descriptive format for these key groups is set out in Appendix 4 of the main pottery report.

Key groups

Layer 1997 cp 3-4

Contains 583 sherds, all of cp 1-3 type. Fabrics: A, 4 (0.7%); B, 9 (1.5%); C, 5 (0.9%); D, 541 (92.8%); E, 22 (3.8%); H, 2 (0.3%). Bowls and jars are present in more or less equal proportions. A typical early group, with a small number (8 sherds) of red-finished wares. The majority of sherds are very small with a high degree of wear, a common feature of assemblages from occupation layers.

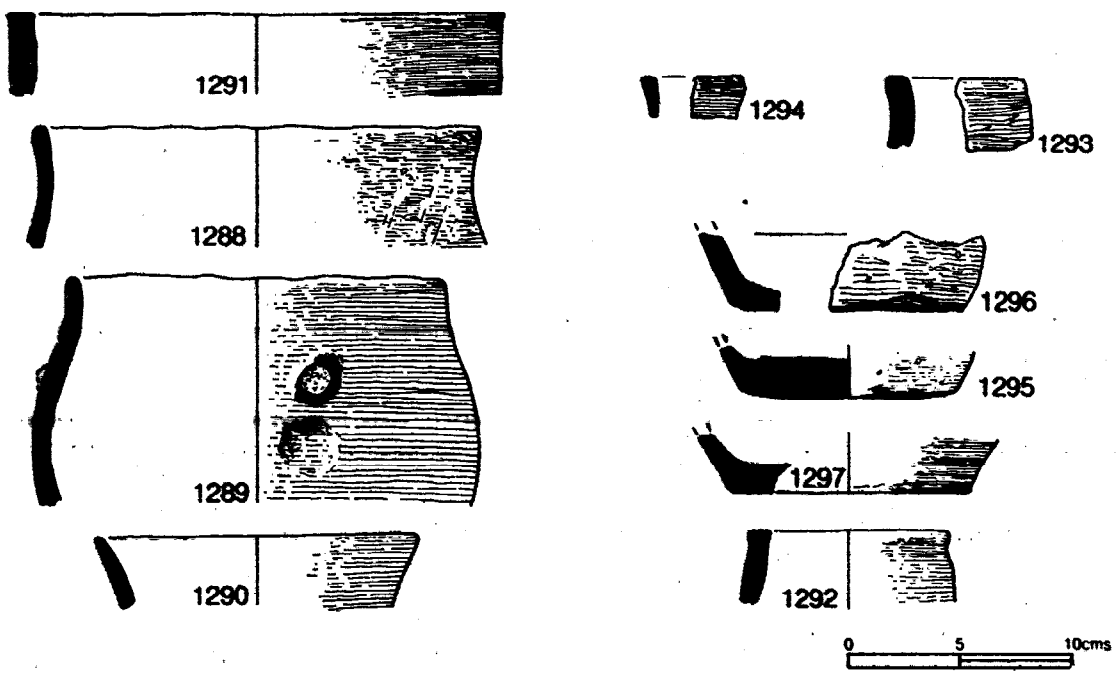
	Form	Fabric	Surface	Layer
1477				-
1478	BB1.1	E0	C1	-
1479	JB2.0	D0	B	-
1480	JB2.0	D0	D	-
1481	JD2.1/BS3.0	D0	E	-
1482	JB2.0	D0	D	-
1483	JB2.0	D0	B	-
1484	JB2.0	D0	B	-
1485	BA2.2	D0	D	-
1486	BS5.3	D0	E	-
1487	BB1.1	E0	C1,4	-
1488	BB1.1	E0	C4	-
1490	JB2.0	D0	D	-
1491	JB2/3	D0	B	-
1492	BB1.1	E0	C4	-
1493	JB2/3	D0	D	-
1494	JB2/3	D0	A	-
1495	BA2.3	D0	D	-
1496	BA2.3	D0	B	-
1497	BA2.3	D0	B	-
1498	BS5.1	A0	A	-
1499	BA2.2	D0	B	-


1480
1482
1479
1478
1477
1488
1495
1481
1486
1496
1499
1487
1492
1498
1483
1484
1490
1491
1493
1497
1485
1494
0
5
10cms

Pit 1545 cp 3

Contains 74 sherds, all of cp 1-3 date. Fabrics: D, 72 (97.3%); E, 2 (2.7%). Jars outnumber bowls, and none of the bowls are of the fine, red-finished variety. The lugged jar (no. 1289) is a rare form at Danebury.

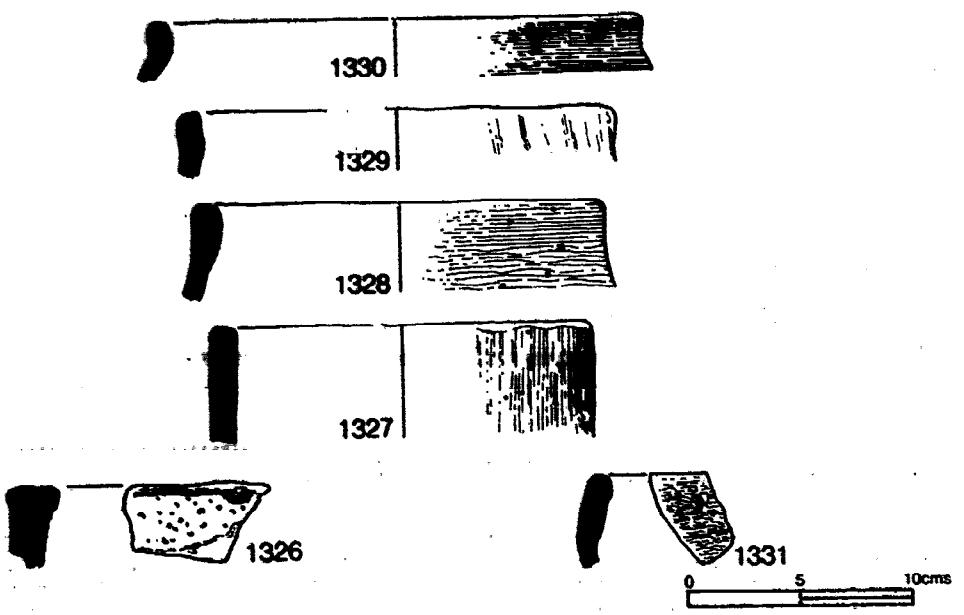
	Form	Fabric	Surface	Layer
1288	JB2.2	D0	B	5/6
1289	JB + lug	D0	B	1
1290	BB1.1	E0	C	4
1291	JB2/3	D0	D	1
1292	JB2.3	D0	B	1
1293	JB2/3	D0	D	1
1294	BA2.3	E0	D	1
1295	BS5.1	D8	A	4
1296	BS5.1	D0	A	3
1297	BS5.1	D0	A	6



Pit 1576 cp 4 or 5

Contains 68 sherds, of which two (2.9% - representing one vessel) distinctive of cp 5. Fabrics: A, 1 (1.5%); C, 14 (20.5%); D, 52 (76.5%); E, 1 (1.5%). The cp 5 example, no. 1328, is a very fragmentary jar rim. The rest of the assemblage is typical of cp 4.

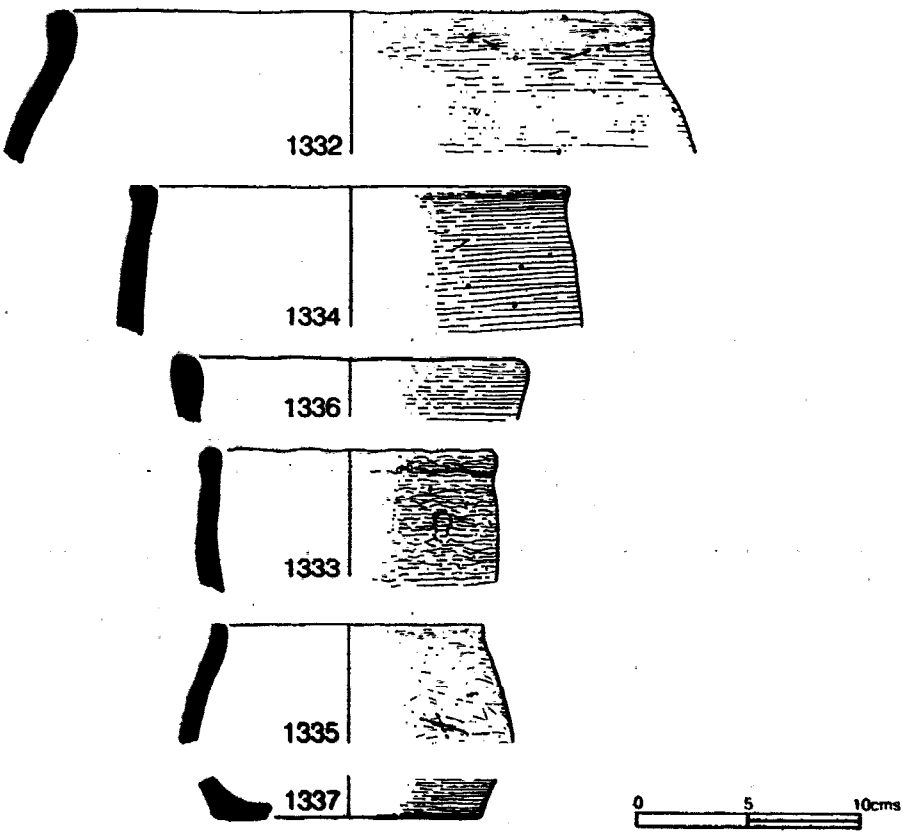
	Form	Fabric	Surface	Layer	
1326	Misc.	C0:1	A	1/2	
1327	PA2.1	A0	B	7	
1328	JC2.0	D0	E	3/4	overfired
1329	JB2/3	D0	-	1/2	
1330	JB4.1	D0	B	2	
1331	PA1.2	D0	-	1	



Pit 1615 cp 5

Contains 23 sherds of which 5 (21.7% representing two vessels) are distinctive of cp 5. Fabrics: B, 4 (17.4%); C, 1 (4.3%); D, 18 (78.3%). The latest forms are bipartite jars of type JC2, one in a flint-tempered fabric which may be as late as cp 6.

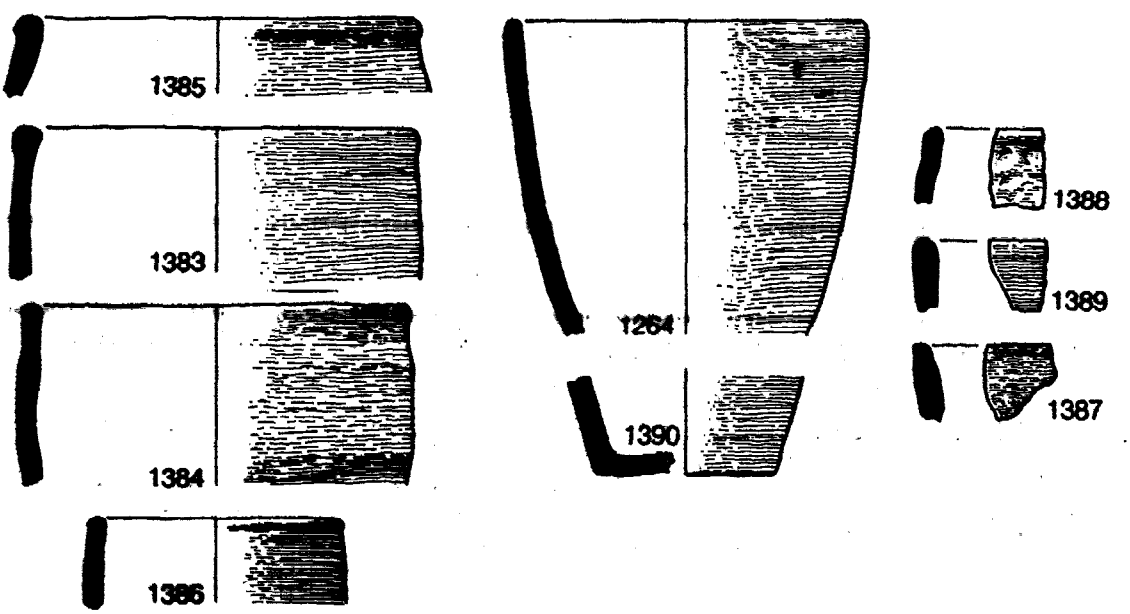
	Form	Fabric	Surface	Layer
1332	JC2.0	B1	E	2
1333	JB4.1	A1	D	3
1334	JB4.1	A0	B	3
1335	JC2.3	D0	B	5
1336	JB?	D0	D	2
1337	BS5.5	D0	E	3



Pit 2478 cp 5 or 6

Contains 161 sherds of which 1 (0.6%) may be a cp 6 type. Fabrics: A, 5 (3.1%); C, 2 (1.2%); D, 154 (95.7%). The single cp 6 sherd, no. 1386, is from the top layer of the pit. Typologically (considering the absence of fabric B sherds) the assemblage is more typical of cp 5 than cp 6, although the stratigraphic evidence suggests the assemblage is present in a 6/7 deposit.

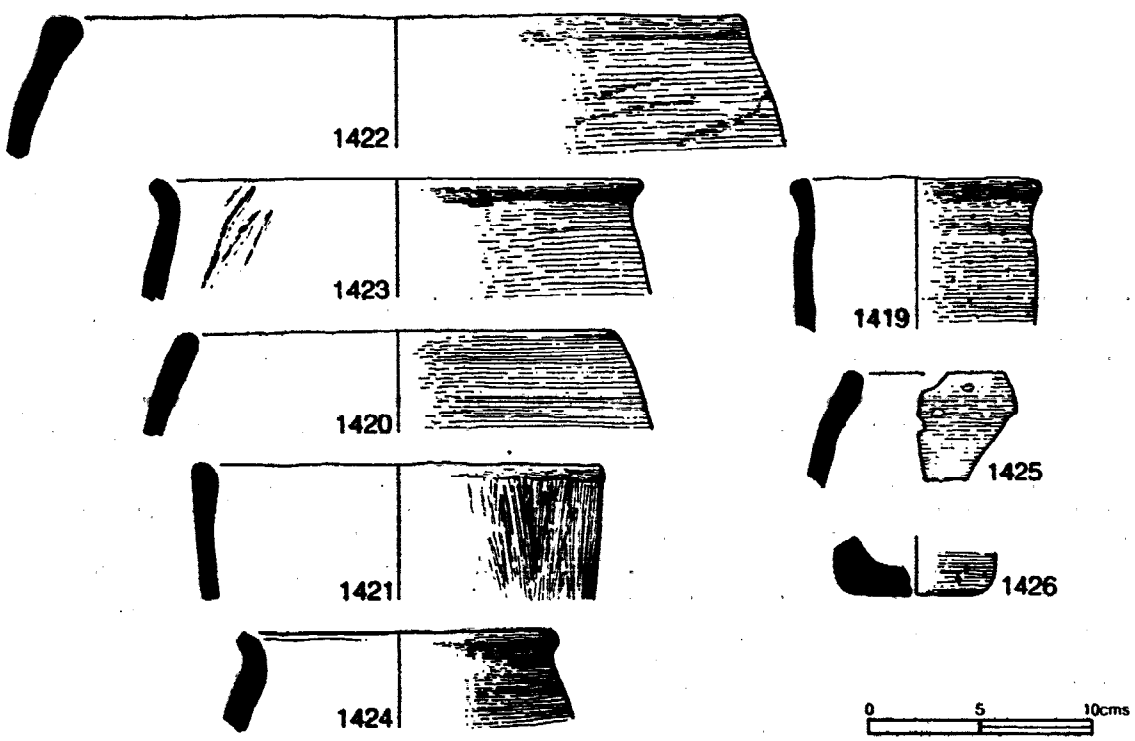
	Form	Fabric	Surface	Layer
1264	PA2.1			1
1383	PA2.1	D0	D	
1384	JB4.1	D0	B	5
1385	JC2.0	D0	D	5
1386	PB1.1?	D0	A	1
1387	JB2/3	D0	A	10
1388	JB4.1	A1	A	1
1389	PA2.1	D0	-	2
1390	BS5.1	D0	B	5



Pit 2363 cp 6

Contains 68 sherds of which 1 (1.5%) is a cp 6 type. Fabrics: A, 4 (5.9%); B, 10 (14.7%); C, 1 (1.5%); D, 53 (77.9%). The cp 6 sherd, no. 1421, is a saucepan pot in sandy ware. The bipartite jar 1423 may be contemporary with it.

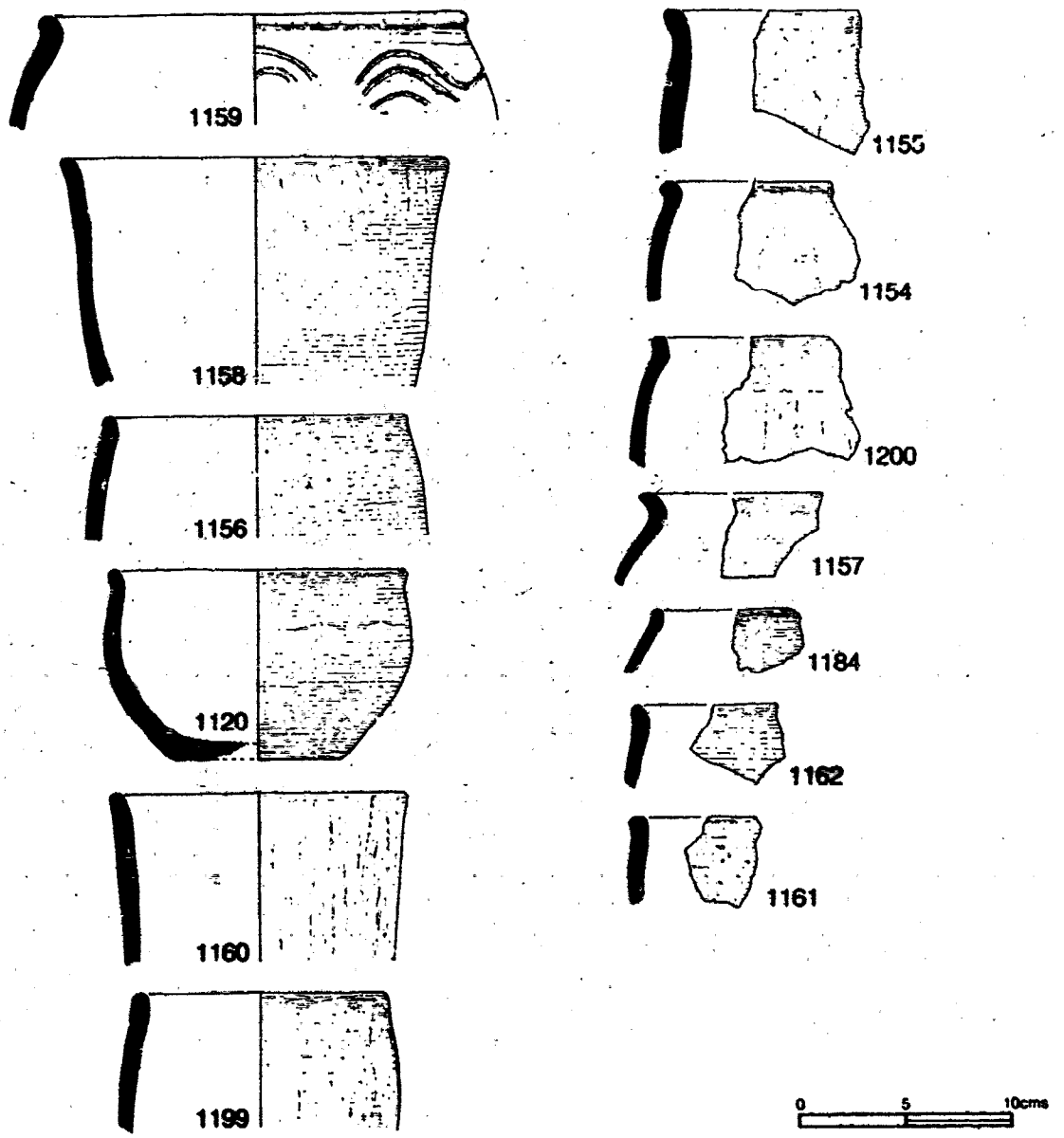
	Form	Fabric	Surface	Layer
1419	JB2.3	C0:1	A	1
1420	PA2.1	D0	D	2/3
1421	PB1.1	D0	E	5
1422	JC1.1	A1	B	2/3
1423	JC2.0	B3	E	2/3
1424	JB2.3	D0	B	2/3
1425	PA1.1	D0	B	2/3
1426	BS5.2	A1	A	2/3



Pit 1940 cp 7

Contains 203 sherds, of which 6 (3.0%) are of cp 7 date. Fabrics: B, 171 (84.2%); D, 32 (15.8%). The cp 7 sherds all belong to one vessel, no. 1159. The remainder of the pottery is typical of cp 6, and there appears to be little earlier material.

	Form	Fabric	Surface	Layer
1120	BC3.2	B1	E	8B
1154	JC2.3	B1	E	8
1155	JC2.1	D0	D	8
1156	JC2.3	B1	D	3
1157	JD2.0	D0	E	2
1158	PB1.1	B1	E	8
1159	JC2.3	B1	E5.1h	3
1160	PB1.1	B1	E	3
1161	PB1.1	B1	D	3
1162	JC2.3	B1	E	3
1184	JC2.3	B1	E	3
1199	JC2.3	B1	E	4
1200	JC2.3	B1	E	4


1159
1158
1156
1120
1160
1199
1153
1154
1200
1157
1184
1162
1161
0
5
10cms

Artefact type	Publ no	SF no	Context	Phase
Stone weights	8.74	1965	P2273 layer 1	7
	8.75	1851	P2032 layer 6	7
	8.76	1538	P1346 layer 2	3
	8.77	1650	P1579 layer 13	8
	8.78	1652	P1456 layer 6	7
	8.79	1798	F110 layer 1	5
	8.80	2417	Layer 1530	7/8
	NI	1529	Layer 592	6/7
	NI	1556	P1224 layer 16	7
	NI	1589	F71 layer 2	8
	NI	1615	Ph 6157 layer 3	-
	NI	1644	P1481 layer 7	7/8
	NI	1662	P1579 layer 14	8
	NI	1663	P1485 layer 6	7
	NI	1807	P1990 layer 6	7
	NI	1943	unstratified	-
	NI	1944	P2222 layer 1	7
	NI	1964	P2273 layer 1	7
	NI	2103	P1543 layer 2	7/8
	NI	2194	P2346 layer 5	7/8
	NI	2284	P2363 layer 1	7
	NI	2301	P2435 layer 5	7/8
	NI	2397	Ph 9780 layer 1	3
	NI	2416	P2535 layer 5	7
	NI	2495	P2547 layer 5	7
	NI	2583	P1350 layer 5	7
	NI	2596	Layer 1567	7
	NI	2642	P2583 layer 1	6/7
	NI	2729	P2590 layer 1	7
	NI	2753	P1350 layer 11	7
	NI	2822	G324 layer 1	5
	NI	2834	P2598 layer 8	6/7

Artefact type	Publ no	SF no	Context	Phase
Axes	NI	246	P110 layer 6	7
(earlier prehistoric)	NI	790	P783 layer 4	3
	NI	1658	F84	3
	NI	2776	Layer 2047	3
Pebble hammer	NI	1624	P1542 layer 1	3
(earlier prehistoric)				

Artefact type	Publ no	SF no	Context	Phase
Whetstones, Rubbers and Utilized Pebbles (Iron Age)	8.84	1963	P2205 layer 2	3
	8.85	1700/ 2890	P1940 layer 6/8	7
	8.86	660	P556 layer 3	7
	8.87	2319	P2320 layer 10	7
	8.88	663	P556 layer 5	7
	8.89	230	P63 layer 2	7
	8.90	734	P680 layer 5	7
	8.91	2131	Layer 1157	7
	8.92	1797	Layer 720	7
	8.93	1837	Ph 8288 layer 1	3
	8.94	1530	P1293 layer 2	3
	8.95	265	P117 layer 3	4
	8.96	218	P98 layer 9	3
	8.97	631	P576	6
	8.98	565	P530 layer 5	7
	8.99	2119/ 1730	P1940 layer 4/8	7
	8.100	106	Layer 9	7
	8.101	2167	P2369 layer 4	4
	8.102	1838	P2032 layer 6	7
	8.103	2070	P2206	6/7
	8.104	128	P51 layer 6	4
	8.105	2170	Layer 1246	6/7
	8.106	1743	P1900 layer 3	7/8
	NI	56	P12 layer 116	-
	NI	110	P27 layer 10	7
	NI	125	Layer 9	7
	NI	142	P63A layer 7	3
	I	166	G16	1
		188	P28 layer 2	7
		298	P79 layer 1	7
	N	443	P361 layer 1	6
	NI	452	P366 layer 2	7
	NI	621	P576 layer 1	7
	NI	671	P621 layer 1	6
	NI	714	P617 layer 1	4
	NI	715	P576 layer 1	6
	NI	716	P627 layer 3	7
	NI	717	P617 layer 1	4
	NI	718	P612 layer 4	7
	NI	825	Layer 216	3
	NI	925	P895 layer 1	7
	NI	1003	P29 layer 4	7
	NI	1116	Layer 5	7
	NI	1129	N85	-
	NI	1150	P906 layer 1	3
	NI	1151	P908 layer 3	3
	NI	1185	P953 layer 1	7
	NI	1231	Layer 393	7
	NI	1251	Layer 394	7

Artefact type	Publ no	SF no	Context	Phase
Whetstones, Rubbers and Utilized Pebbles (Iron Age) (continued)	NI	1320	P1083 layer 1	3
	NI	1532	P1250 layer 6	3
	NI	1545	P1221 layer 1	3
	NI	1571	P1284 layer 1	5
	NI	1595	P1206 layer 1	3
	NI	1749	Ph 7665 layer 1	-
	NI	1750	P1923 layer 2	-
	NI	1781/ 1790/ 1796	Layers 725/ 716/ 720	7
	NI	1791/ 2120	Layers 716/ 726	7/8
	NI	1813	P2047 layer 1	7
	NI	1893	P2158 layer 3	7
	NI	1895	P1981 layer 5	7
	NI	1896	P1988 layer 2	7
	NI	2039	P2206 layer 1	6/7
	NI	2052	P2300 layer 2	7
	NI	2115	Ph 6836 layer 1	3
	NI	2116	P1462 layer 1	-
	NI	2117	P1481 layer 5	7/8
	NI	2118	P1252 layer 1	6
	NI	2121	Layer 911	7
	NI	2122	P2257 layer 5	3
	NI	2123	Layer 725	7
	NI	2192	Layer 1284	6/7
	NI	2278/ 2300	P2317 layer 1/ P2435 layer 4	6/7/8
	NI	2323	P2477 layer 3	7
	NI	2414	P2505 layer 2	3
	NI	2415	P2534 layer 6	7
	NI	2454	Layer 1567	7
	NI	2550	Tr 108 layer 2	-
	NI	2570	P2575 layer 1	6/7
	NI	2612	Layer 1734	6/7
	NI	2631	Layer 1869	7
	NI	2689	P2590 layer 9	7
	NI	2851	P2558 layer 1	7
	NI	2891	P1669 layer 1	7/8
	NI	2850	Layer 587	7
	NI	2852	unstratified	-

Artefact type	Publ no	SF no	Context	Phase
Upper rotary querns	8.107	1805	P110 layer 1	5
	8.108	2747/ 2748	P2596 layer 5/ P2595 layer 8	7
	8.109	1653	P1452 layer 9	7
	8.110	1638	P1526 layer 1	4
	8.111	1720	P1940 layer 9	7
	8.112	1534	P1322 layer 1	7
	8.113	1821	P2032 layer 6	7
	8.114	1974	P2256 layer 2	7
	NI	1536	P1224 layer 8	7
	NI	1546	P1224 layer 13	7
	NI	1587	P71 layer 2	8
	NI	1609	P1497 layer 1	5
	NI	1636	P1577 layer 7	7
	NI	1665	Ph 7233 layer 1	-
	NI	1668	P1579 layer 14	8
	NI	1669	P1579 layer 14	8
	NI	1716	P1940 layer 9	7
	NI	1717	P1940 layer 9	7
	NI	1719	P1940 layer 9	7
	NI	1723	P1687 layer 4	7/8
	NI	1729	P1727 layer 6	7/8
	NI	1731	P1687 layer 5	7/8
	NI	1744	P1900 layer 1	7/8
	NI	1789	unstratified	-
	NI	1801	Layer 722	7/8
	NI	1802	P2115 layer 1	7/8
	NI	1812	Layer 728	7
	NI	1820	P2032 layer 6	7
	NI	1825	P2112 layer 1	7
	NI	1897	Ph 8541 layer 2	-
	NI	1901	P2047 layer 1	7
	NI	1902	P2035 layer 8	7
	NI	1914	P2032 layer 5	7
	NI	2035	P2248 layer 8	7
	NI	2040	Layer 930	7
	NI	2093	Ph 3981 layer 1	-
	NI	2094	Ph 4564 layer 1	-
	NI	2099	P1477 layer 1	6
	NI	2100	P1577 layer 7	7
	NI	2106	P1511 layer 1	7
	NI	2112	P1996 layer 7	7
	NI	2113	P2233 layer 1	7
	NI	2271	unstratified	-
	NI	2281	P2480 layer 1	3
	NI	2308	P2447 layer 4	7
	NI	2312	P2320 layer 2	7
	NI	2340	P2233 layer 1	7
	NI	2344	P140 layer 1	6/7

Artefact type	Publ no	SF no	Context	Phase
Upper rotary querns (continued)	NI	2345	P2233 layer 3	7
	NI	2346	P2248 layer 8	7
	NI	2351	P2233 layer 2	7
	NI	2355	P1996 layer 7	7
	NI	2360	P1669 layer 2	7/8
	NI	2363	P1579	8
	NI	2367	Layer 1165	-
	NI	2368	P2435 layer 3	7/8
	NI	2370	P2435 layer 3	7/8
	NI	2377	P2032 layer 6	7
	NI	2378	P1982 layer 2	7
	NI	2398	P2535 layer 2	7
	NI	2419	P2549 layer 1	7
	NI	2423	Layer 1530	7
	NI	2425	P2549 layer 10	7
	NI	2426	unstratified	-
	NI	2456	P2550 layer 1	7
	NI	2475	P2545 layer 5	7
	NI	2594	Layer 1699	7
	NI	2597	Layer 1699	7
	NI	2603	Layer 1856	7
	NI	2620	P2579 layer 4	7
	NI	2628	P2579 layer 4	7
	NI	2638	P2577 layer 1	7
	NI	2677	P349 layer 2	6
	NI	2730	Layer 1965	7
	NI	2744	P2596 layer 5	7
	NI	2754	P2598 layer 4	6/7
	NI	2755	P2606 layer 1	7
	NI	2784	Layer 2063	7
	NI	2839	Layer 1499	6/7
	NI	2841	P2535 layer 5	7
	NI	2846	P2545 layer 5	7
	NI	2849	P2435 layer 5	7/8

Artefact type	Publ no	SF no	Context	Phase
Lower rotary querns	8.115	2045	P2248 layer 8	7
	8.116	2501	P2531 layer 5	6
	8.117	1787	P2115 layer 1	7/8
	8.118	2500	P2531 layer 4/5	6
	8.119	1637	P1577 layer 1	7
	8.120	2376	P1982 layer 2	7
	NI	1646	P1577 layer 7	7
	NI	1670	P1579 layer 14	8
	NI	1701	P1940 layer 6	7
	NI	1715	P1940 layer 9	7
	NI	1718	P1940 layer 9	7
	NI	1722	Ph 7525 layer 1	-
	NI	1742	P1793 layer 6	7
	NI	1811	P110 layer 1	5
	NI	1814	P2035 layer 7	7
	NI	1862	P2163 layer 4	7
	NI	1874	P2C32 layer 6	7
	NI	1903	P2090 layer 3	7
	NI	1968	P2178 layer 4	7
	NI	1975	Layer 843	7
	NI	2044	P1986 layer 6	7
	NI	2071	Layer 979	7
	NI	2134	Layer 1166	6
	NI	2279	P2435 layer 6	7/8
	NI	2280	P2435 layer 5	7/8
	NI	2314	P2367 layer 1	7
	NI	2327	P2320 layer 2	7
	NI	2362	P1577 layer 7	7
	NI	2364	P1577 layer 8	7
	NI	2371	P2435 layer 4	7/8
	NI	2375	?P2346	7
	NI	2378	P110 layer 747	3
	NI	2380	P2233 layer 2	7
	NI	2424	P2536 layer 8	7
	NI	2473	P2545 layer 5	7
	NI	2474	P2534 layer 7	7
	NI	2490	P2534 layer 9	7
	NI	2493	P2546 layer 2	7
	NI	2494	P2534 layer 12	7
	NI	2509	unstratified	-
	NI	2585	P2575 layer 1	7
	NI	2604	Layer 914	7
	NI	2618	P2579 layer 5	7
	NI	2619	P2579 layer 4	7
	NI	2627	P2579 layer 4	7
	NI	2791	P1350 layer 8	-
	NI	2825	P1350 layer 1	-
	NI	2837	Tr 134 layer 3	-
	NI	2844	Layer 1506	7
	NI	2885	P110 layer 1	5
	NI	2886	P110 layer 1	5
	NI	2887	P2032 layer 6	7
	NI	2888	P2032 layer 6	7
	NI	2889	P2032 layer 6	7

Artefact type	Publ no	SF no	Context	Phase
Rotary querns	NI	1581	P1385 layer 1	7/8
Type indeterminate	NI	1583	P1285 layer 8	7
	NI	1592	P1285 layer 8	7
	NI	1967	Ph 8695 layer 1	7
	NI	2046	P2227 layer 2	6
	NI	2110	P1579 layer 7	8
	NI	2263	F247 layer 1	3
	NI	2357	P1900 layer 7	7/8
	NI	2374	P2473	7
	NI	2457	P2550 layer 1	7
	NI	2510	unstratified	-
	NI	2560	Layer 1664	7
	NI	2623	Layer 1866	6/7
	NI	2764	Ph 10059	6/7
	NI	2881	Ph 4816 layer 2	-
	NI	2883	P1687 layer 4	7/8

Artefact type	Publ no	SF no	Context	Phase
Saddle querns	8.121	1815	P2141 layer 6	3
	8.122	2476	Layer 1558	7
	8.123	2332	P2321 layer 2	3
	8.124	2551	P2573 layer 5	7
	NI	1509	P1203 layer 1	7
	NI	1524	P1258 layer 1	3
	NI	1533	P1250 layer 6	3
	NI	1555	P1346 layer 7	3
	NI	1578	P1363 layer 1	6
	NI	1582	P1389 layer 1	-
	NI	1584	Ph 5187 layer 2	-
	NI	1588	Ph 5419 layer 1	-
	NI	1591	P1241 layer 4	3
	NI	1616	Ph 6157 layer 3	-
	NI	1633	Ph 6690 layer 1	-
	NI	1667	Layer 637	6/7
	NI	1745	P1798	6/7
	NI	1788	Ph 8096 layer 1	-
	NI	1808	P2141 layer 5	3
	NI	1839	P2155 layer 2	7
	NI	1861	P2112 layer 1	7
	NI	1912	P2017 layer 1	4
	NI	1913	P2026 layer 3	4
	NI	2051	P2285 layer 5	7
	NI	2095	Ph 5604 layer 1	-
	NI	2096	Ph 3910 layer 1	-
	NI	2097	Ph 3981 layer 1	-
	NI	2101	P1452 layer 3	7
	NI	2104	P1545 layer 6	3
	NI	2105	Ph 7132 layer 1	-
	NI	2108	P1579 layer 1	8
	NI	2114	Layer 894	6
	NI	2132	P2351 layer 1	7/8
	NI	2133	Layer 1174	6/7
	NI	2146	Layer 1058	7
	NI	2166	Layer 1331	6/7
	NI	2176	P2347 layer 8	7
	NI	2187	P2347 layer 11	7
	NI	2188	P2347 layer 11	7
	NI	2189	P2347 layer 11	7
	NI	2193	P2347 layer 8	7
	NI	2262	P2426 layer 10	6
	NI	2270	P2480 layer 3	3
	NI	2283	Ph 9376 layer 1	1/3
	NI	2287	P2478 layer 10	6/7
	NI	2290	P2428 layer 6	3
	NI	2313	P2477 layer 1	7
	NI	2315	P2477 layer 3	7
	NI	2331	P2427 layer 9	7
	NI	2333	P2321 layer 2	3
	NI	2341	P2300 layer 2	7

Artefact type	Publ no	SF no	Context	Phase
Saddle querns (continued)	NI	2342	Ph 8759 layer 1	-
	NI	2343	unstratified	-
	NI	2347	G241 layer 1	-
	NI	2348	P2205 layer 1	3
	NI	2349	Layer 10[illegible]	7
	NI	2350	P2300 layer 1	7
	NI	2352	P2056 layer 1	3
	NI	2354	P2141 layer 1	3
	NI	2356	P2118 layer 1	7
	NI	2358	P1953 layer 1	3
	NI	2359	F89 layer 5	5
	NI	2361	P1809 layer 4	3
	NI	2365	Ph 6769 layer 1	-
	NI	2366	P1479 layer 1	7
	NI	2372	P2426 layer 18	7/8
	NI	2373	P2372 layer 1	7
	NI	2381	P2367 layer 1	7
	NI	2418	P2498 layer 3	4
	NI	2420	P2549 layer 2	7
	NI	2432	Ph 5877 layer 1	-
	NI	2504	Layer 1628	6/7
	NI	2511	P2427 layer 2	7
	NI	2556	Layer 1349	7
	NI	2557	P2573 layer 5	7
	NI	2558	P2573 layer 5	7
	NI	2559	P2573 layer 5	7
	NI	2573	P2570 layer 2	6/7
	NI	2579	Layer 1734	7
	NI	2595	P2575 layer 4	7
	NI	2640	P2231 layer 2	5
	NI	2641	Layer 1859	7
	NI	2645	Layer 1743	3
	NI	2646	P2563 layer 4	7
	NI	2669	unstratified	-
	NI	2691	Layer 1990	7
	NI	2739	Layer 1968	6/7
	NI	2740	Layer 1990	7
	NI	2741	Tr 122 layer 1878	3
	NI	2756	P2604	6/7
	NI	2762	P2600 layer 1	7
	NI	2765	Layer 1997	4
	NI	2766	Layer 1997	4
	NI	2786	Layer 2012	3
	NI	2787	Layer 2012	3
	NI	2820	Layer 621	6
	NI	2821	P2590 layer 4	7
	NI	2823	P2590 layer 7	7
	NI	2824	Layer 1966	6/7
	NI	2826	Layer 1952	7
	NI	2827	Layer 1990	7
	NI	2828	Layer 1990	7
	NI	2829	Ph 10010 layer 1	6/7

Artefact type	Publ no	SF no	Context	Phase
Saddle querns (continued)	NI	2831	P355 layer 3	3
	NI	2832	P2598 layer 3	6/7
	NI	2833	Layer 1997	4
	NI	2835	P2575 layer 2	7
	NI	2836	Layer 2080	3
	NI	2838	Layer 1499	6/7
	NI	2840	Ph 9631 layer 4	3
	NI	2842	P2534 layer 7	7
	NI	2843	P2534 –	7
	NI	2845	P2494 layer 1	5
	NI	2847	P2541 layer 2	6
	NI	2848	P2315 layer 5	6/7
	NI	2882	P1454 layer 1	3
	NI	2884	P1317 layer 1	4
	NI	2896	P1455 –	6-7

Artefact type	Publ no	SF no	Context	Phase
Saddle quern rubbers	8.125	2553	P2573 layer 5	7
	8.126	2107	G179 layer 1	u/p
	8.127	1511	P1161 layer 10	7
	NI	2098	P1175 layer 1	3
	NI	2102	Layer 641	6
	NI	2111	P1940 layer 6	6
	NI	2472	P2529 layer 4	7

Chalk small finds

Artefact type	Publ. no.	SF no.	Context	Phase
Chalk marl discs	NI	1733	P1820 layer 3	7
	NI	1741	P1687 layer 3	7/8
	NI	1786	P2121 layer 3	7
	NI	2169	P2353 layer 6	7
	NI	2304	P2435 layer 1	7/8
	NI	2391	P2535 layer 3	7
	NI	2479	Layer 1535	7
	NI	2606	P2572 layer 4	7
	NI	2817	P1350 layer 8	7
	NI	2853	P1475	5
	NI	2854	Layer 716	7
	NI	2855	P2032 layer 3	7
	NI	2856	P2047 layer 1	7
	NI	2857	P2032 layer 3	7
	NI	2858	P1579 layer 1	8
	NI	2859	Layer 720	7
	NI	2860	Layer 602	3
Chalk weights	8.128	2789	P2612 layer 2	6
	8.129	1890	P1999 layer 2	3
	8.130	1586	P1285 layer 6	7
	8.131	1880a	P1990 layer 2	7
	8.132	1886	P1999 layer 2	3
	8.133	1568	Ph 4612 layer 1	-
	8.134	1547	P1299 layer 3	7
	8.135	1561	P1393 layer 2	4
	8.136	1550	P1334 layer 2	-
	8.137	1632	P1456 layer 3	7
	8.138	1575	Ph 4611 layer 2	-
	8.139	2611	Layer 1856	7
	8.140	1559	P1334 layer 2	-
	8.141	1557	P1334 layer 2	-
	8.142	1558	P1334 layer 2	-
	8.143	1577	Ph 4611 layer 2	-
	8.144	1554	P1334 layer 2	-
	8.145	1576	Ph 4611 layer 2	-
	8.146	1551	P1334 layer 2	-
	8.147	1562	P1393 layer 2	4
	8.148	1892	P1999 layer 2	3
	8.149	1737	P1727 layer 6	7/8
	NI	1552	P1334 layer 2	-
	NI	1553	P1334 layer 2	-
	NI	1560	unstratified	-
	NI	1566	P1393 layer 2	4
	NI	1567	P1393 layer 2	4
	NI	1580	P1285 layer 1	7
	NI	1606	Ph 5668 layer 1	-
	NI	1629	P1456 layer 3	7
	NI	1630	P1456 layer 3	7

Artefact type	Publ. no.	SF no.	Context	Phase
	NI	1631	P1456 layer 3	7
	NI	1664	Layer 654	7
	NI	1683	Ph 7474 layer 1	-
	NI	1685	Ph 7474 layer 1	-
	NI	1702	unstratified	-
	NI	1728	P1820 layer 3	7
	NI	1734	P1790 layer 5	7
	NI	1739	P1727 layer 6	7/8
	NI	1876	P2108 layer 5	7/8
	NI	1877	P2115 layer 4	7/8
	NI	1878	P1993 layer 6	7
	NI	1880	P1990 layer 2	7
	NI	1881	P2047 layer 2	7
	NI	1882	P2047 layer 2	7
	NI	1883	P2047 layer 2	7
	NI	1884	P2047 layer 2	7
	NI	1885	P2047 layer 2	7
	NI	1887	P1999 layer 2	3
	NI	1888	P1999 layer 2	3
	NI	1889	P1999 layer 2	3
	NI	1891	P1999 layer 2	3
	NI	1898	P2110 layer 5	7/8
	NI	1899	P2110 layer 5	7/8
	NI	1900	P2094 layer 3	7
	NI	1956	P2256 layer 12	7
	NI	1957	P2256 layer 12	7
	NI	1966	P2182 layer 2	7
	NI	1996	P2200 layer 2	3
	NI	2000	P2200 layer 2	3
	NI	2001	P2200 layer 2	3
	NI	2002	P2200 layer 2	3
	NI	2003	P2200 layer 2	3
	NI	2004	P2200 layer 2	3
	NI	2005	P2200 layer 2	3
	NI	2006	P2200 layer 2	3
	NI	2007	P2200 layer 2	3
	NI	2008	P2200 layer 2	3
	NI	2009	P2200 layer 2	3
	NI	2010	P2200 layer 2	3
	NI	2011	P2200 layer 2	3
	NI	2012	P2200 layer 2	3
	NI	2013	P2200 layer 2	3
	NI	2014	P2200 layer 2	3
	NI	2015	P2200 layer 2	3
	NI	2016	P2200 layer 2	3
	NI	2031	P2200 layer 3	3
	NI	2032	P2200 layer 3	3
	NI	2033	P2200 layer 3	3
	NI	2034	P2200 layer 3	3
	NI	2037	P2248 layer 8	7
	NI	2041	Layer 905	7
	NI	2042	Layer 905	7
	NI	2043	Layer 905	7

Artefact type	Publ. no.	SF no.	Context	Phase
	NI	2060	P2119 layer 3	6/7
	NI	2061	P2119 layer 3	6/7
	NI	2086	P2204 layer 2	6/7
	NI	2087	P2200 layer 2	3
	NI	2089	P1982 layer 7	7
	NI	2157	Layer 1224	7
	NI	2172	Layer 1234	7
	NI	2177	P2353 layer 8	7
	NI	2195	P2346 layer 8	7/8
	NI	2196	P2346 layer 7	7/8
	NI	2197	P2346 layer 7	7/8
	NI	2289	P2446 layer 1	7
	NI	2297	P2435 layer 3	7/8
	NI	2458	P2550 layer 2	7
	NI	2470	P2534 layer 8	7
	NI	2471	P2534 layer 8	7
	NI	2487	P2545 layer 5	7
	NI	2492	Layer 1535	7
	NI	2502	Ph 9866 layer 2	6/7
	NI	2513	P2534 layer 8	7
	NI	2514	P2534 layer 8	7
	NI	2515	P2534 layer 8	7
	NI	2516	P2534 layer 8	7
	NI	2517	P2534 layer 8	7
	NI	2574	P2570 layer 4	6/7
	NI	2584	Layer 1689	7
	NI	2586	P2575 layer 8	7
	NI	2605	Layer 1856	7
Chalk spindle whorls and other perforated chalk discs	8.150	1704	Ph 7781 layer 1	-
	8.151	2750	P356 layer 2	4
	8.152	1928	Layer 838	7
	8.153	2692	Layer 1941	7
	8.154	1654	P1548 layer 8	3
	8.155	2409	P2507 layer 1	3
	8.156	2567	Layer 1681	7
	8.157	2759	Layer 2005	7
	8.158	2478	Ph 9826 layer 2	7
	8.159	1977	P2256 layer 8	7
	8.160	2427	Layer 1562	7
	8.161	1935	P2261 layer 1	7/8
	8.162	2775	Layer 1997	4
	8.163	2466	P2531 layer 2	6
	8.164	2190	P2346 layer 7	7
	8.165	2143	Layer 1257	7
	8.166	2780	Layer 2048	3
	8.167	1986	P2256 layer 10	7
	8.168	2617	P2579 layer 4	7
	8.169	2762	Layer 1997	4
	8.170	2048	Layer 920	7
	8.171	1830	P1978 layer 1	6
	8.172	2148	Ph 9007 layer 1	-
	8.173	2781	Ph 10090 layer 4	3-5

Artefact type	Publ. no.	SF no.	Context	Phase
	8.174	2410	Layer 1512	7
	8.175	1931	Layer 851	7
	8.176	1806	P2016 layer 8	7
	8.177	1746	P1843 layer 1	3
	8.178	1507	P1207 layer 2	7
	8.179	1940	Layer 868	7
	NI	1527	Ph 4816 layer 1	-
	NI	1709	P1790 layer 7	7
	NI	1831	P2115 layer 2	7
	NI	1907	Layer 803	3
	NI	1971	P2269 layer 9	7
	NI	1973	P2271 layer 9	7
	NI	2431	P2534 layer 7/8	7
	NI	2489	P2509 layer 3	3
	NI	2581	P2563 layer 4	7
	NI	2815	Layer 983	7
	NI	2816	Layer 1027	3
Miscellaneous chalk and marl objects and fragments	8.180	2468	P2534 layer 7	7
	8.181	1853	P1981 layer 5	7
	8.182	1840	P2115 layer 4	7
	8.183	2763	Layer 1997	4
	8.184	2018	P2206 layer 4	6/7
	8.185	2679	P2590 layer 3	7
	8.186	1510	P1161 layer 9	7
	8.187	2818	P2066 layer 3	7
	8.188	1692	P1638 layer 3	-
	8.189	1932	Layer 851	7
	NI	2406	P2493 layer 3	4
	NI	2575	P2563 layer 3	7
	NI	2587	P2563 layer 3	7
	NI	2861	P2346 layer 8	7/8
	NI	2862	P2435 layer 6	7/8
	NI	2863	P2254 layer 8	7

Details of stone weight type W1

Publ no	SF no	Material	Weight (g)	D (mm)	H (mm)	Attachment	Condition	cp	Context
8.74	1965	Grey sandstone	c 3000	133	122	Fe ring in situ	Near complete	7	P2273 layer 1
8.75	1851	Marl (chalk)	1070	135	110	Hole and Fe stain	Near complete profile; burnt	7	P2032 layer 6
8.76	1538	Chalky sandstone	1270	256	217	Hole and Fe stain	Complete profile; burnt	3	P1346 layer 2
8.77	1650	Greensand (lower)	1704	130	95	None	Near complete	8	P1579 layer 13
NI	1556	Marl (chalk)	340	-	-	-	Fragment; burnt	7	P1224 layer 16
NI	1644	Greensand (lower)	350	-	-	Hole and Fe stain	Top fragment only; burnt	7/8	P1481 layer 7
NI	1944	Greensand (?Lodsworth)	2500	247	-	-	Top missing; burnt	7	P2222 layer
NI	2284	Ironstone (ferruginous sandstone)	255	85	-	-	Small fragments	7	P2363 layer 1
NI	2495	Greensand (lower)	735	-	83	Hole	Fragment; burnt	7	P2547 layer 5
NI	2753	Greensand (lower)	440	-	-	-	Fragment; burnt	7	P1350 layer 11

D = Diameter
H = Height

Details of stone weights possibly type W1

Publ no	SF no	Material	Weight (g)	D (mm)	H (mm)	Attachment	Condition	cp	Context
NI	1589	Unidentified chalky material	155	-	-	Hole and Fe stain	Top fragment only	8	F71 layer 2
NI	1663	Unknown	275	-	-	-	Small fragment; burnt	7	P1485 layer 6
NI	1943	Greensand (lower)	1405	-	-	-	Fragment	-	Unstratified
NI	2103	Greensand (?lower)	490	-	-	-	Fragment; burnt	7/8	P1543 layer 2
NI	2301	Greensand	535	-	-	Hole and Fe stain	Small fragments	7/8	P2435 layer 5
NI	2729	?Marl (chalk)	150	-	-	-	Small fragment	7	P2590 layer 1

D = Diameter
H = Height

No weights of type 2 were recovered 1979-88

Details of stone weight type W3

Publ no	SF no	Material	Weight (g)	D (mm)	H (mm)	Attachment	Condition	cp	Context
8.78	1652	Greensand (lower)	1640	117	113	Hole; Fe stain and thread wear grooves	Near complete	7	P1456 layer 6
8.79	1798	Sarsen	c 3500	136	137	Hole and Fe stain	Near complete	5	F110 layer 1

Details of stone weights possibly type W3

Publ no	SF no	Material	Weight (g)	D (mm)	H (mm)	Attachment	Condition	cp	Context
NI	1964	Greensand (?lower)	1745	122	-	?Hole	Top missing; burnt	7	P2273 layer 1
NI	2397	Greensand (lower)	850	-	-	-	Fragment; burnt	1-3	Ph 9780 layer 1

Details of stone weight type W4

Publ no	SF no	Material	Weight (g)	D (mm)	H (mm)	Attachment	Condition	cp	Context
8.80	2417	Sarsen	520	-	-	Knob	Top only	7	Layer 1530

D = Diameter
H = Height

Details of unclassified stone weights (not illustrated)

SF no	Material	Weight (g)	Context	cp	Comments
1529	Sarsen	56	Layer 592	6/7	Small fragment
1615	Sarsen	315	Ph 6157 layer 3	-	Small fragment
1662	Greensand (lower)	88	P1579 layer 14	8	Small fragment; burnt
1807	Unknown	1555	P1990 layer 6	7	Fragment; burnt
2194	Chalky sandstone?	345	P2346 layer 5	-	Fragment; burnt
2416	Greensand (lower)	555	P2535 layer 5	7	Fragment
2583	Greensand (lower)	260	P1350 layer 5	7	Small fragment; burnt
2596	Sarsen	76	Layer 1567	7	Small fragment
2642	Cretaceous - chalky sandstone?	550	P2583 layer 1	6/7	Fragment; burnt
2822	Cretaceous - chalk with fossils	195	G324 layer 1	5	Small fragment
2834	Sarsen	170	P2598 layer 8	6/7	Small fragment

The stone weights: statistical tests

A general description and the results of the Chi-Squared Tests performed on the stone weights can be found in the main text. The details of the procedure are given below.

x^2 Test using standard of 638 grammes (multiples of 63.8 g)

Remainders

SF No	Rem	SF No	Rem	SF No	Rem	SF No	Rem	SF No	Rem
536	4	761	23.4	634	11.8	418	5.2	787	2.6
684	31.2	1245	4.2	1165	37	1163	18	1133	13
905	7	98	8	1385	2.2	1263	2.8	1248	3.6
683	11.8	616	15.6	752	15.2	86	6.4	1650	47.4
226	10.6	978	18.4	247	7.2	633	5.6	1652	54.7
								1538	32.6
								1851	62.6

Test One

That they cluster within (N $\pm$ 0.25) 63.8

(remainders < 15.95 or > 47.85)

(Fisher's Exact)	close	not close
Obs	20	7
Exp	13.5	13.5
(O-E)	6.5	6.5
(O-E)-.5	6	6
Squared	36	36
E	3.13	3.13

x^2 = 6.26 $\therefore$ Probability = .05

Test Two

That they cluster within (N $\pm$ 0.10) 63.8

(Remainders < 6.38 or > 57.42)

	close	not close
Obs	9	18
Exp	5.4	21.6
(O-E)	3.6	3.6
(O-E)-.5	3.1	3.1
Squared	9.61	9.61
E	1.78	0.45

x^2 = 2.23 $\therefore$ Probability = > .05

Test Three

That they cluster within (N ± .05) 63.8

(remainders < 3.19 or > 60.61)

	close	not close
Obs	4	23
Exp	2.7	24.3
(O-E)	1.3	1.3
(O-E)-.5	.8	.8
Squared	0.64	0.64
E	0.24	0.03

$x^2 = 0.27$ ∴ Probability = > .05

X^2 Test using standard of 309 grammes (multiples of 30.9 g)

Remainders

SF No	Rem	SF No	Rem	SF No	Rem	SF No	Rem	SF No	Rem
536	6.9	761	5.3	634	2.9	418	9.9	787	.45
684	1.35	1245	2	1165	12.1	1163	.15	1133	6.6
905	12.1	98	0.75	1385	8.5	1263	3.5	1248	.55
683	8	616	3.4	752	4.5	86	6.7	1650	20.5
226	7.05	978	4.2	247	1.35	633	8.9	1652	27.8
								1538	7.7
								1851	6.8

Test One

That they cluster within (N $\pm$ 0.25) 30.9

(remainders < 7.725 or > 23.175)

	close	not close
Obs	20	7
Exp	13.5	13.5
(O-E)	6.5	6.5
(O-E)-.5	6	6
Squared	36	36
E	2.666	2.666

X^2 = 5.327 $\therefore$ Probability = .05

Test Two

That they cluster within (N $\pm$ 0.10) 30.9

(remainders < 3.09 or > 27.81)

	close	not close
Obs	8	19
Exp	5.4	21.6
(O-E)	2.6	2.6
(O-E)-.5	2.1	2.1
Squared	4.41	4.41
E	0.817	0.204

X^2 = 1.021 $\therefore$ Probability = > .05

Test Three

That they cluster within (N $\pm$ .05) 30.9

(remainders < 1.545 or > 29.355)

	close	not close
Obs	6	21
Exp	2.7	24.3
(O-E)	3.3	3.3
(O-E)-.5	2.8	2.8
Squared	7.84	7.84
E	2.904	0.323

X^2 = 3.227 $\therefore$ Probability = > .05

Acknowledgement: I would like to thank Martin Jones for his advice on the statistical test and Clive Orton for his suggestions and comments on the report as a whole. Gary Lock modified the original test to include the 1979-1988 data.

Further notes on stone used in the Iron Age

1. Local types of stone

PLEISTOCENE GRAVELS

Sarsen

This was collected in the form of pebbles, typically ones with a rounded, rather plump cross section. Only four pebbles were utilized for smaller tools and signs of battering round the edge on three of them indicate use as hammer stones (SF 166, SF 2192, SF 2415); this may be combined with a worn, flattened surface (SF 166, SF 2192) suggestive of smoothing or grinding processes, and perhaps connected with the working of leather. A small slab (SF 2323) has a well worn flat surface, and also possible traces of whetting.

Quartzite

There are only two finds. Part of a pebble (SF 142) has a worn, smoothed surface, while a larger, broken cobble (SF 2278, SF 2300) shows signs of battering; the broken halves come from cp 3 and 8.

2. Stone imported over relatively short distances

TERTIARY

Gritstone or heathstone

The seven utilized pieces are all made from fairly flat slabs of relatively fine-grained, dark red 'heathstone' suitable for rubbers; the coarser varieties of grit were more likely to be used for querns. One larger, rectangular block (SF 715) has two worn surfaces coated with a ferric deposit, and appears to have been used for whetting. A pebble fragment with one worn surface (SF 2039) is of indeterminate use.

Ironstone

The single whetstone, from phase 8 (SF 1743, no 8.106) made of this unpromising material is paralleled by a similar single find at Hengistbury Head (Roe 1987, 175).

CRETACEOUS

Grey micaceous sandstone

There are nine pieces of matching grey sandstone which contains

quartz, glauconite, muscovite and sometimes additional carbonaceous material, and a source in the greensand is thought to be the most likely. Most of the pieces are small in size with one or two worked surfaces, indicating use as rubbers, while two, both broken pebbles, also have worn ends (SF 106, no 8.100; SF 443). Another variation is a slightly concave worn surface (SF 1532; SF 2167, no 8.101). The same stone appears to have been used to a limited extent for querns.

Greensand

Four more fragments of mixed varieties of greensand exhibit different wear traces. A rectangular block (SF 1151) made from a well sorted greensand of a type that was also used for querns has four worn surfaces. Two fragments of thinner slabs (SF 2550, SF 2891) appear to have been further rubbers or grinders. The small hollowed stone (SF 2852) utilizes a finer-grained greensand.

3. Stone imported over longer distances

DEVONIAN

Lower Devonian sandstone

This micaceous sandstone is fairly variable, and may grade into a siltstone (SF 56, SF 1185), include enough iron to rate as an ironstone (SF 663, SF 1530) or contain thin veins of white quartz (SF 1545, SF 2121). Six thin-sectioned examples share underlying characteristics which are summarized in Frames 26:E3-4. They divide into two main categories, depending on whether or not the grains are coated with haematite. Three thin-sectioned examples which can be matched with the Staddon Grit (SF 716, SF 2121, SF 2131) have iron-coated grains, while one further example (SF 1730), which also can be matched with the Staddon Grit lacks the additional iron.

All these are typified by an estimated 50%-80% angular or subangular quartz grains, the angularity being an important factor in a stone which is required to have good grinding properties. The clasts themselves often contain inclusions, and they may also be strained, while there are examples of overgrowths between a few of the grains. The thin sections also show the presence of rock fragments, which allow the rock to be classified as a litharenite or sublitharenite. The rock fragments include chert, quartzite and altered material which may be volcanic tuff, while there is also a certain amount of decomposed feldspar. The thin sections additionally show thin flakes of muscovite, altered biotite, iron ores, a little fresh feldspar and sericite. Each slide contains as well a few grains of epidote and tourmaline.

Another thin section (SF 1530) varies from this pattern, since it shows an ironstone with a much higher content of iron ore and

proportionally less quartz, but other matching characteristics suggest that it belongs with the rest of the Lower Devonian material. The final thin section (SF 56) lacks iron coating on the clasts, is finer-grained, and has a higher content of mica, but otherwise appears to resemble the thin sections described above, and it is felt that further work may show that this variety of rock also relates to the Staddon Grit. Not all the Danebury whetstones of potential Lower Devonian sandstone have been matched up at the time of writing, and inevitably further fieldwork needs to be carried out to explore the variations in the Staddon Grit and related rocks in south Devon.

CARBONIFEROUS

Pennant Sandstone

This variety of flaggy sandstone is known to have been used for some whetstones during the Roman period (Roe 1987), so it is not altogether surprising to find that some was also utilized and presumably traded at an earlier date. The seven pieces from Danebury appear to have originated as water-worn pebbles and are made from a purplish-grey or red-grey, slightly micaceous stone, coarser grained than the Devonian sandstone described above. These are all whetstones, though some also appear to have been used as rubbers (SF 265, SF 631, SF 1251). One of these whetstones was thin sectioned (SF 1251, Frames 26:B3-4) for petrological analysis. This again showed a content of angular quartz grains in an iron-rich matrix, and a range of other minerals not so different from those seen in the Devonian sandstone, but with a contrast in the type and quantity of rock fragments, which rise to about 45% in this thin section. A certain amount of fibrous material was also seen. It is difficult to be specific about possible sources with such a wide field area, but it may be noted that samples of Pennant sandstone collected from streams and rivers in the Bristol Coalfield did not seem to be sufficiently water-worn, whereas pebbles from the beach at Portishead could be matched more closely with the finds from Danebury. Portishead as it happens has the only coastal exposure of Pennant sandstone on the eastern side of the Severn.

Tool types

The numbers of each tool type do not add up to the total number of implements examined, since some artefacts were of uncertain use, while others were employed for more than one purpose, which seems to have been a common practice with this type of tool. For instance a whetstone may also function as a point sharpener (SF 1530, no 8.94), or have worn ends from use as a rubber or grinder (SF 1963, no 8.84). Dual purpose tools were also noted in the worked stone from Beckford, Worcestershire (Roe forthcoming a). Other items from Danebury may be classified not so much as artefacts but rather as imported stone which was intended to be worked into tools, which would include the pebbles with only

slight wear traces, and fragments resulting from the breaking up of larger pebbles of Devonian sandstone to obtain suitable slabs for whetstones. These are all listed in the catalogue under worn pebbles.

Hammerstones

These are few in number, two or possibly three being of Sarsen, and one of greenstone, with another possible example of quartzite.

Rubbers or grinding stones

There are twenty of these, with a further nine implements that fall into the same category with varying degrees of certainty. All are smaller than rubbers of the type usually associated with saddle querns. Each has at least one flat surface that has been made smooth from use. It seems likely that some at least of these must be reused quern fragments, though the Lodsworth greensand is notably absent from the materials used. The Tertiary gritstone and the grey micaceous sandstone account for 70% of these rubbers, while there are one or two examples each and further uncertain examples made from the other main types of stone.

Whetstones

The 36 or so whetstones provide a complete contrast in materials, since 83.3% are made from Palaeozoic sandstones, leaving only two that are made from Tertiary materials, and a handful of uncertain items utilizing miscellaneous pebbles. The Lower Devonian sandstone accounts for 76.6% of the Palaeozoic stone, the rest being Pennant sandstone. Long distance trade was evidently considered worthwhile, not only to obtain materials that would break into convenient slabs, but also ones that were well cemented and with a content of angular quartz grains, reasonably spaced out so that they would do a good sharpening job.

Pebbles

These are predictably mainly of Devonian sandstone (19 examples), together with nine assorted beach pebbles also thought likely to be of south western origin. There is just one pebble of Tertiary stone.

Other

Very few items deviate from the pattern laid out above, but note can be made of the point sharpener incorporated in a whetstone

(SF 1530), and the hollowed stone (SF 2852), possibly a small palette.

Chronology

As noted in the text, very little chronological distinction can be made within this assemblage. In two cases a broken object from one phase has been found to join up with a find from a later phase. There are two joining halves of a quartzite pebble (SF 2278, SF 2300) from phases 3 and 8, and two joining pieces of Devonian pebble (SF 1791, SF 2120) from phases 7 and 8. This need cause no surprise, since as stone is almost indestructible, there is always the possibility that finds may be residual, having lain around on a site for a while before being abandoned in a pit or post-hole.

Summary of minerals found in thin sections

Iron Age Whetstones from Danebury

Lab No	R 142	R 144	R 145	R 160	R 170	R 171	R 143
Small Finds No	2131	716	2121	1530	1730	56	1251
Ceramic phase	7	7	7	3	7	u/p	7
1. Quartz grains	c 75%	c 65%	c 80%	c 50%	c 50%	c 55%	c 40%
2. Black opaque	●	●	●	c 40%	O	O	O
3. Muscovite	O	O	O	O	O	O	O
4. Biotite	O	O	O	O	+	O	O
5. Rock fragments	O	O	O	O	O	O	c 45%
(i) chert	O	O	O	O	O	O	●
(ii) quartzite	O	O	O	O	O	O	O
(iii) tuff	O	O	O	-	O	+	-
(iv) other	-	-	-	-	-	-	O
6. Decomposed feldspar	+	+	+	-	+	?	O
7. Fresh feldspar	+	+	+	+	+	-	-
8. Fibrous material	-	-	-	-	+	-	+
9. Chlorite	+	+	+	+	+	+	-
10. Calcite	-	-	-	-	-	+	-
11. Epidote	+	+	+	+	+	+	-
12. Tourmaline	+	+	+	+	+	+	+
13. Average grain size	c 66 µ	c 66 µ	c 66 µ	c 50 µ	c 100 µ	c 35 µ	c 250 µ
14. Matrix	fe and sericite	fe and sericite	fe and sericite	fe and sericite	sericite	some sericite	iron-rich
15. Iron-coated grains	yes	yes	yes	yes	-	-	yes
16. Sorting	poor	poor	poor	moderate	poor	moderate	moderate
17. Rock type	Lower Devonian	Lower Devonian	Lower Devonian	Lower Devonian? (ironstone)	Lower Devonian	Lower Devonian? (f-g)	Pennant sandstone

Key ● occurs in some quantity O small amounts only + trace

Catalogue of whetstones and other small utilised stone

1. EARLIER PREHISTORIC ARTEFACTS

SF	Context and layer	Stone types	Tool types	Notes
Ceramic phase 3				
790	P783 layer 4	greenstone (ungrouped)	axe fragment	thin section R 244
1624	P1542 layer 1	sarsen	pebble-hammer fragment	
1658	F84	arkose	axe	thin section R 246
2776	Layer 2047	sandstone	axe fragment	thin section R 247
Ceramic phase 7				
246	P110 layer 6	group I greenstone	axe fragment	thin section R 245

2. WHETSTONES, SMALL RUBBERS OR GRINDERS AND UTILIZED PEBBLES

SF	Context and layer	Stone types	Pebbles: rounded	Pebbles: flat	Pebbles: misc, beach	Plaqqy: thin slab	Plaqqy: rect block	Plaqqy: fragment	Tool types: hammer-stone	Tool types: small rubber	Tool types: whetstone	Tool types: worn pebble	Tool types: other	Notes	Illus	Weight
Ceramic phase 1																
166	G16	sarsen	+	-	-	-	-	-	+	+	-	-	-			
Ceramic phase 1-3																
2115	Ph 6836 1	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey		
Ceramic phase 3																
142	P63A 7	quartzite	+	-	-	-	-	-	-	+	-	-	-			
218	P98 9	Pennant ss	-	-	-	-	+	-	-	-	+	-	-	well worn	8.96	195 g
825	Layer 216	black slate	-	-	-	-	-	+	-	-	-	+	-	prob from SW		
1150	P906 1	brown ss	-	-	-	-	-	+	-	-	-	+	-	Palaeozoic?		
1151	P908 3	greensand	-	-	-	-	+	-	-	+	-	-	-	4 worn surfaces		476 g
1320	P1083 1	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey/pink		
1530	P1293 2	Devonian ss	-	-	-	-	+	-	-	-	+	-	+	thin section R160 ironstone; grooved	8.94	
1532	P1250 6	grey mic ss	-	-	-	-	+	-	-	+	-	-	-	sl concave surface		359 g
1595	P1200 1	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	pink/grey		
1797	Layer 730	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	brown/grey; quartz veins	8.92	
1963	P2205 2	Devonian ss	-	+	-	-	-	-	-	+	+	-	-	ground ends	8.84	426 g
2122	P2257 5	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey/pink		
2278	P2317 1	quartzite)	+	-	-	-	-	-	?	-	-	-	-			906 g
joins 2300, P2435, phase 7/8)																
2414	P2505 2	grey ss	-	+	-	-	-	-	-	-	?	+	-	Palaeozoic?		114 g
Ceramic phase 4																
128	P51 6	greenstone	-	+	-	-	-	-	-	-	?	+	-	probably from SW	8.104	110 g
265	P117 3	Pennant ss	-	-	-	+	-	-	-	?	+	-	-		8.95	146 g
671	P621 1	Tertiary grit	-	-	-	+	-	-	-	+	-	-	-			
714	P617 1	Devonian ss	-	-	-	-	-	+	-	-	+	-	-	grey/pink		
717 (x2)	P617 1	Devonian ss	-	-	-	-	-	++	-	-	-	++	-	2 fragments, grey/pink		
2167	P2369 4	grey mic ss	-	-	-	+	-	-	-	+	-	-	-	end worn	8.101	
Ceramic phase 5																
1545	P1221 1	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey/pink, quartz vein		
1571	P1284 1	Devonian ss	-	+	-	-	-	-	-	-	+	-	-	grey, quartzitic		

SF	Context and layer	Stone types	Pebbles: rounded	Pebbles: flat	Pebbles: misc, beach	Flaggy: thin slab	Flaggy: rect block	Flaggy: fragment	Tool types: hammer-stone	Tool types: small rubber	Tool types: whetstone	Tool types: worn pebble	Tool types: other	Notes	Illus	Weight
Ceramic phase 6																
443	P361 1	grey mic ss	-	+	-	-	-	-	-	+	-	-	-	end worn		
621	P576 1	Devonian ss	-	-	-	-	-	+	-	-	?	-	-	grey		
631	P576	Pennant ss	-	-	-	-	+	-	-	?	+	-	-		8.97	451 g
715	P576 1	Tertiary grit	-	-	-	-	+	-	-	-	+	-	-	iron stained		
2039	P2206 1	Tertiary grit	-	-	+	-	-	-	-	-	-	+	-	irregular pebble		
2070	P2206 +	Siltstone	+	-	-	-	-	-	-	-	-	+	-	banded	8.103	
2118	P1252 2	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey		
2570	P2575 1	Black pebble	-	-	-	-	+	-	-	-	-	+	-	metamorphic?		122 g
Ceramic phase 6-7																
2170	Layer 1246	greenstone	+	-	-	-	-	-	+	-	?	+	-	probably from SW	8.105	222 g
2192	Layer 1284	sarsen	+	-	-	-	-	-	+	?	-	-	-			
Ceramic phase 7																
106	Layer 9	grey mic ss	-	+	-	-	-	-	-	+	-	-	-		8.100	
110	P27 10	black slate	-	-	-	-	-	+	-	-	-	+	-	probably from SW		
125 (x2)	Layer 9	Devonian ss	-	-	-	-	-	++	-	-	??	-	-	2 fragments, brown		
188	P28 2	Pennant ss	-	-	-	-	+	-	-	-	+	-	-			124 g
230	P63 2	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	grey	8.89	
298	P79 1	blue clay	-	-	-	-	-	+	-	?	-	-	-	Oxford clay?		
452	P366 2	Devonian ss	-	+	-	-	-	-	-	-	-	+	-	brown/grey		
565	P530 5	Devonian ss	-	-	-	-	+	-	-	+	+	-	-	quartz veins	8.98	120 g
660	P556 3	Devonian ss	-	-	-	-	-	+	-	-	+	-	-	heavily worn	8.86	109 g
663	P556 5	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	ironstone, burnt	8.88	
716	P627 3	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	thin section R 144		
718	P612 4	Tertiary grit	-	-	-	+	-	-	-	+	-	-	-			
734	P680 5	Devonian ss	-	-	-	+	-	-	-	?	+	-	-	brown	8.90	219 g
925	P895 1	grey mic ss	-	-	-	-	+	-	-	+	-	-	-	2 worn surfaces		
1003	P29 4	grey mic ss	-	-	-	+	-	-	-	+	-	-	-	2 worn surfaces		
1116	Layer 5	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey/pink		
1185	P953 1	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	grey/pink, siltstone		98 g
1231	Layer 393	calc ss	-	-	-	-	-	+	-	?	-	-	-			
1251	Layer 394	Pennant ss	-	-	-	+	-	-	-	?	+	-	-	thin section R 143		129 g
1700	P1940 6	Devonian ss)	-	+	-	-	-	-	-	-	-	+	-	reddish brown	8.85	470 g
joins 2890, P1940 8, same phase)																
1730	P1940 8	Devonian ss)	-	+	-	-	-	-	-	-	+	-	-	thin section R 170	8.99	170 g
joins 2119, P1940 4, same phase)																
1781	Layer 725	Devonian ss)	-	+	-	-	-	-	-	-	-	+	-	pink/grey, burnt		
joins 1790, Layer 716, same phase) and 1796, Layer 720, same phase)																
[1790, see 1781]																
1791	Layer 716	Devonian ss)	-	+	-	-	-	-	-	-	+	-	-	grey/pink/brown		
joins 2120, Layer 726, phase 7/8)																

SF	Context and layer	Stone types	Pebbles: rounded	Pebbles: flat	Pebbles: misc, beach	Flaggy: thin slab	Flaggy: rect block	Flaggy: fragment	Tool types: hammer-stone	Tool types: small rubber	Tool types: whetstone	Tool types: worn pebble	Tool types: other	Notes	Illus	Weight
[1796, see 1781]																
1813	P2047 1	Devonian ss	-	+	-	-	-	-	-	-	-	+	-	brown/grey		
1838	P2032 6	siltstone	-	+	-	-	-	-	-	-	-	+	-	banded	8.102	74 g
1893	P2158 3	grey mic ss	-	-	-	-	+	-	-	+	-	-	-	carbonaceous matter		
1895	P1981 5	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	brown/grey; burnt		
1896	P1988 2	Devonian ss	-	-	-	+	-	-	-	-	-	+	-	grey		73 g
2052	P2300 2	Devonian ss	-	+	-	-	-	-	-	-	-	+	-	grey/pink/brown		
[2119, see 1730]																
2121	Layer 911	Devonian ss	-	-	-	-	-	+	-	-	+	-	-	thin section R 145		
2123	Layer 725	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey; burnt		
2131	Layer 1157	Devonian ss	-	-	-	+	-	-	-	-	+	-	-	thin section R 142	8.91	
2319	P2320 10	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	pink; iron stained	8.87	147 g
2323	P2477 3	sarsen	-	-	-	+	-	-	-	+	?	-	-			295 g
2415	P2534 6	sarsen	+	-	-	-	-	-	?	-	-	-	-			
2454	Layer 1567	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey; burnt		
2612	Layer 1734	Pennant ss	-	-	-	-	?	-	-	-	+	-	-	triangular section		270 g
2631	Layer 1869	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	ironstone; burnt		78 g
2689	P2590 9	Devonian ss	-	-	-	-	+	-	-	-	+	-	-	grey/pink		
2850	Layer 587	Tertiary grit	-	-	-	+	-	-	-	+	-	-	-			
2851	P2558 1	grey mic ss	-	-	-	+	-	-	-	+	-	-	-			
[2890, see 1700]																
Ceramic phase 7/8																
1743	P1900 3	Tertiary grit	-	-	-	-	+	-	-	-	+	-	-	ironstone	8.106	114 g
2117	P1481 5	grey mic ss	-	-	-	-	-	+	-	+	-	-	-			
[2120, see 1791, phase 7]																
[2300, see 2278, phase 3]																
2891	P1669 1	greensand	-	-	-	+	-	-	-	?	-	-	-			
Unphased																
56	P12 116	Devonian ss	-	-	+	-	-	-	-	-	+	-	-	thin section R 171 siltstone, worn		189 g
1129	N85	Tertiary grit	-	-	-	+	-	-	-	+	-	-	-			
1749	Ph 7665 1	Pennant ss	-	-	-	-	+	-	-	-	+	-	-			
1750	P1923 2	Tertiary grit	-	-	-	+	-	-	-	+	-	-	-			
1837	Ph 8288 1	Devonian ss	-	+	-	-	-	-	-	-	+	-	-	grey/pink	8.93	55 g
2116	P1462 1	Devonian ss	-	-	-	-	-	+	-	-	-	+	-	grey/pink		
2550	Tr 108 2	greensand	-	-	-	+	-	-	-	?	-	-	-	feldspathic		28 g
2852	+	greensand	-	-	-	-	-	+	-	-	-	-	+	hollowed stone		

Upper rotary querns - greensand

Key: D = diameter
T = thickness
DCH = diameter central hole
DHOP = diameter hopper
WHg = width handle groove
DeHg = depth handle groove
DH = diameter handle hole
DeH = depth handle hole
Wt = weight

Publ no	SF no	Context	cp	Dimensions	Comments
8.107	1805	F110 layer 1	5	D: 315 mm T: 66-96 mm DCH: 58 mm DHOP: 145 mm WHg: 48 mm DeHg: 41 mm	Lodsworth Rock: Type R1. Complex central hole/handle groove arrangement (see illustration). Precisely shaped on all faces. Slight wear on concave grinding face
8.108	2747/ 2748	P2596 layer 5/ P2595 layer 8	7	D: 325 mm T: 65-145 mm DHOP: 145 mm DCH: 55x89 mm WHg: 25-48 mm DeHg: 24-34 mm Wt: c 14,500 g	Lodsworth Rock: Type R1/R2. Near complete precisely shaped quern, diagonal tooling visible on outer edge. Shallow circular hopper surrounding an oval central hole which has vertical slots at each end (see illustration). Handle groove tapers towards and terminates before central hole. Concave grinding face has moderate amount of wear and faint concentric ring striations. Separate halves of stone found on the bases of adjacent small beehive pits. Special behaviour
8.110	1638	P1526 layer 1	4	T: 11-95 mm DCH: 90 mm DeHg: 22 mm	Lodsworth Rock: Type R2. But notably thin at the centre. One side of horizontal handle groove evident in top of stone. Roughly shaped, slight wear on grinding face
8.112	1534	P1322 layer 1	7	D: 260-378 mm T: 98-145 mm DCH: 90 mm DH: 24-50 mm DeH: 65 mm	Type R4. Several fragments, evidence for a horizontal handle hole part way down the side of the stone. Neatly shaped; high amount of grinding wear
8.114	1974	P2256 layer 6	7	D: 385-408 mm DCH: 55x64 mm T: 39-87 mm DH: 41x57 mm DeH: 59 mm Wt: c 14,500 g	Lodsworth Rock: Type R6. Somewhat oval-shaped and notably flat stone. Vertical handle hole on one side of upper face. Roughly shaped. Minimal grinding wear only.
NI	1536	P1224 layer 8	7	T: 74 mm	Lodsworth Rock. Roughly tooled. Slightly concave grinding face is slightly worn with faint concentric ring striations
NI	1546	P.224 layer 13	7	-	Small edge fragment. Precise shaping. One face worn smooth

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1587	F71 layer 2	8	T: 54-99 mm	Small fragment, precise shaping. High amount of wear on grinding face.
NI	1609	P1497 layer 1	5	-	Edge fragment. Slightly concave grinding face with high amount of wear and concentric ring striations visible. All worked faces precisely shaped. Vertical toolmarks on outer edge
NI	1636	P1577 layer 7	7/8	-	Fragment. Slightly concave grinding face showing high amount of wear and concentric ring striations. Central hole and a shallow hopper evident. Precise shaping
NI	1668	P1579 layer 14	8	-	Lodsworth Rock. Small fragment. Precise shaping. Slight wear on slightly concave grinding face
NI	1669	P1579 layer 14	8	T: 73-93 mm	Lodsworth Rock. Fragment. Precisely shaped. Convex grinding face is moderately worn with visible concentric ring striations
NI	1716	P1940 layer 9	7	D: 258 mm T: 96-113 mm DCH: 66 mm WHg: 41 mm DeHg: 25 mm Wt: 7,500 g	Type R1 but without hopper. Near complete stone with horizontal handle groove in top surface. Neatly shaped on all faces. Moderate amount of wear on grinding face
NI	1717	P1940 layer 9	7	-	Small fragment, precisely shaped faces. High amount of wear on slightly concave grinding face
NI	1719	P1940 layer 9	7	D: 335 mm T: 136 mm	Type ?R1/R2. Roughly chopped convex upper face. Neatly shaped concave lower grinding face. Handle groove in the top of the stone. Wear evident on grinding face and within handle groove
NI	1723	P1687 layer 4	7/8	T: 81-103 mm WHg: 40 mm DeHg: 25 mm	Type R1. Horizontal handle groove in the top of the stone. Somewhat elongated central hole. Fairly precise shaping on all faces. Toolmarks on outer edge run slightly diagonally. Toolmarks on top surface radiate out from central hole. Moderate amount of wear on grinding face
NI	1729	P1727 layer 6	7/8	-	Small fragment. Precise shaping. Slightly concave grinding face worn very smooth
NI	1731	P1687 layer 5	7/8	T: 120 mm	Lodsworth Rock. Neatly shaped. Flat top, some evidence for a handle groove. Slightly concave grinding face is worn smooth
NI	1744	P1900 layer 1	7/8	T: 27-78 mm	Lodsworth Rock. ?Type 2. Flat top, very slight hopper. Roughly shaped, some diagonal toolmarks on the outer edge. Unusual relatively flat grinding face with high amount of wear

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1789	unstratified	-	DH: 37 mm	Type R4. Small edge fragment with evidence for a handle hole part way down the side of the stone. Neatly shaped on all faces
NI	1801	Layer 722	7/8	-	Lodsworth Rock. Small edge fragment. Precise shaping
NI	1802	P2115 layer 1	7/8	T: 98-116 mm	Lodsworth Rock. Small fragments, precise shaping. Moderate amount of wear on one face, presumably the grinding face
NI	1812	Layer 728	7	-	Small fragment, precisely shaped faces, one face highly worn
NI	1820	P2032 layer 6	7	-	Fragment, slightly convex grinding face has slight wear. Precise shaping
NI	1825	P2112 layer 1	7	T: 62 mm	Small fragment, precisely shaped. Moderate amount of grinding wear on one face. Opposing face also highly smoothed, fragment possibly reused.
NI	1901	P2047 layer 1	7	-	Precisely shaped fragments. Slight grinding wear
NI	1902	P2035 layer 8	7	T: 79 mm WHa: 30 mm	Lodsworth Rock: Type R1. Small fragment showing evidence for a horizontal handle groove in the top of the stone. Precise shaping. Moderate amount of grinding wear
NI	1914	P2032 layer 5	7	-	Type R4. Edge fragment with evidence for a horizontal handle hole part way down the side of the stone. Precise shaping. Moderate amount of grinding wear
NI	2040	Layer 930	7	-	Small fragment, neatly shaped, high amount of grinding wear
NI	2093	Ph 3981 layer 1	-	T: 73 mm	Lodsworth Rock. Fragment, roughly shaped on two faces, more precisely shaped on the slightly concave grinding face. Slight grinding wear only
NI	2094	Ph 4564 layer 1	-	T: 71 mm	Small fragment, precisely shaped. Grinding wear not evident
NI	2099	P1477 layer 1	6	-	Small edge fragment, rough shaping
NI	2100	P1577 layer 7	7/8	T: 72-104 mm DeHa: 28mm	Lodsworth Rock: Type R1. Fragment with evidence for horizontal handle groove in top of stone. Neatly shaped
NI	2271	unstratified	-	T: 66 mm	Small fragment, neatly shaped. High amount of grinding wear. Concentric ring striations towards outer edge of grinding face, extremely smooth towards centre
NI	2281	P2480 layer 1	3	-	Fragment, precisely shaped. High amount of grinding wear. Deeply incised concentric ring striation, but worn almost completely flat and smooth, resulting in a slight sheen around the outer edge of the grinding face
NI	2308	P2447 layer 4	7	-	Small fragments, precisely shaped. High amount of grinding wear, concentric ring striations

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2312	P2320 layer 2	7	T: 110 mm WHg: 40-48 mm	Lodsworth Rock: Type ?R1. Fragment with evidence of a horizontal handle groove in the top of the stone. Rough shaping. Slight grinding wear
NI	2344	F140 layer 1	6/7	-	Fragment, precisely shaped, slight grinding wear
NI	2345	P2233 layer 3	7	T: 56-74 mm	Small fragment, precisely shaped. Very high amount of wear forming a raised lip around the perimeter of the grinding face
NI	2360	P1669 layer 2	7/8	-	Lodsworth Rock. Small fragment, precise shaping, very slight grinding wear
NI	2363	P1579	8	T: 133 mm	Lodsworth Rock. Edge fragment, neatly shaped. Diagonal toolmark on outer edge
NI	2367	Layer 1165	-	-	Small fragment, precisely shaped. Very high amount of grinding wear, concentric ring striations
NI	2368	P2435 layer 3	7/8	-	Several small fragments, roughly shaped, high amount of grinding wear
NI	2377	P2032 layer 6	7	-	Lodsworth Rock. Fragments, precise shaping. Moderate amount of grinding wear particularly around the central hole
NI	2378	P1982 layer 7	7	T: 120 mm	Lodsworth Rock. Small fragments, precise shaping. Moderate amount of grinding wear
NI	2398	P2535 layer 2	7	T: 79-120 mm	Type ?R4. Fragment with shallow hopper and some evidence for a handle hole part way down side of stone. Precise shaping. Grinding wear evident
NI	2419	P2549 layer 1	7	-	Small fragment, precise shaping. High amount of grinding wear particularly around outer edge of the grinding face. Some concentric ring striations visible
NI	2423	Layer 1530	7	-	Small fragment, precise shaping. Lack of wear may indicate the stone was unused
NI	2426	unstratified	-	160 mm	Lodsworth Rock: Type ?R1. Fragment with slight evidence for a hopper, precisely shaped with vertical toolmarks on the outer edge. Moderate amount of grinding wear
NI	2594	Layer 1699	7	-	Small fragment, some evidence for a hopper, neatly shaped faces.
NI	2597	Layer 1699	7	-	Small fragment, neatly shaped. Worn smooth on grinding face, some concentric ring striations visible
NI	2603	Layer 1856	7	-	Lodsworth Rock. Small edge fragment, neatly shaped
NI	2620	P2579 layer 4	7	-	Small fragment with evidence for a hopper. Neatly shaped

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2628	P2579 layer 4	7	T: 175 mm DCH: 54 mm	Lodsworth Rock: Type R1. Fragment with evidence of a horizontal handle groove in the top of the stone. Precise shaping. Only slight grinding wear indicates stone little used
NI	2677	P349 layer 2	6	T: 102-150 mm	Fragment from thick heavy upper stone, roughly shaped outer edge, more neatly shaped grinding face. High amount of wear on grinding face and within the central hole
NI	2730	Layer 1965	7	-	Small fragment, neatly shaped, extremely worn grinding face
NI	2744	P2596 layer 5	7	-	Lodsworth Rock. Small fragments, neatly shaped, worn grinding face
NI	2754	P2598 layer 4	6/7	T: 75 mm	Lodsworth Rock. Small fragment. Fairly neatly shaped. Slight wear on grinding face
NI	2755	P2606 layer 1	7	-	Small fragment, roughly shaped outer face, more precisely shaped grinding face. Moderate amount of grinding wear
NI	2841	P2535 layer 5	7	-	Lodsworth Rock. Small fragment. Grinding face only survives, slightly worn, one or two concentric ring striations visible
NI	2849	P2435 layer 5	7/8	T: 82 mm	Type R4. Fragment with evidence for a handle hole part way down the side of the stone. Precise shaping. Grinding face worn smooth.

Upper rotary querns - Potterne Rock

Key: T = thickness
DCH = diameter central hole
DeHg = depth handle groove
DH = diameter handle hole

Publ no	SF no	Context	cp	Dimensions	Comments
8.111	1720/ 1721	P1940 layer 9	7	T: 130-180 mm DCH: 83 mm DH: c 40-45 mm	R4 type quern, probably the upper stone to SF 1715. A thick heavy stone with convex lower grinding face which is precisely shaped, while the upper surface is only roughly chopped to shape. There are two horizontal handle holes about half way down the sides of the stone, approximately one third of the circumference of the stone away from one another. High amount of wear in the central hole, the handle holes and on the lower grinding face
NI	1665	Ph 7233 layer 1	-	T: 110 mm	Small edge fragment, precisely shaped on all faces with diagonal striations on the outer edge. Slight wear on one face, presumably the grinding face
NI	2035	P2248 layer 8	7	-	Small fragment, precise shaping and moderate amount of wear on the one face indicating a grinding face
NI	2106	P1511 layer 1	7	T: 146 mm DH: 46 mm	Small fragment, horizontal handle hole in the side of the quern and a central hole evident. Precise shaping on all faces, a moderate amount of wear on one face
NI	2112	P1996 layer 7	7	T: 94 mm	Small edge fragment. One face precisely shaped and moderately worn, other faces roughly chopped
NI	2113	P2233 layer 1	7	-	Small fragments. Precise shaping, high wear on one face
NI	2340	P2233 layer 1	7	-	Small edge fragments. Precise shaping. Very high amount of wear on one face, presumably the grinding face
NI	2346	P2248 layer 8	7	T: 114 mm DeHg: 26 mm	Type ?R1/R2. Edge fragment with evidence for a handle groove in the top of the stone. Neatly shaped. High amount of wear on the slightly concave grinding face
NI	2351	P2233 layer 2	7	-	Type R4. Small fragments only, some evidence for a horizontal handle hole. Neatly shaped, highly worn on one face
NI	2355	P1996 layer 7	7	T: 65-97 mm	Roughly shaped fragments, moderate amount of wear on one face
NI	2370	P2435 layer 3	7/8	-	Small roughly shaped fragments. Moderate amount of wear on one face
NI	2425	P2549 layer 10	7	-	Small fragment from flat upper surface, roughly shaped. Central hole is evident and smoothed through wear

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2456	P2550 layer 1	7	-	Small fragment, precisely shaped convex grinding face, worn smooth particularly at the outer edge
NI	2475	P2545 layer 5	7	-	R4. Fragment from the top surface of a quern, evidence for a basin-shaped hopper. Precisely shaped
NI	2784	Layer 2063	7	-	Small edge fragment, precisely shaped with some diagonal toolmarks. Smoothed through wear on lower grinding face
NI	2839	Layer 1499	6/7	-	Small fragment from the flat top surface of a quern. Central hole evident and smoothed through wear. Precise shaping
NI	2846	P2545 layer 5	7	-	Small fragment with relatively flat grinding face which is worn smooth and has visible concentric ring striations. Precise shaping.

Upper rotary querns - other stone types

Key: D = diameter
T = thickness
DCH = diameter central hole
DHOP = diameter hopper
WHg = width handle groove
DeHg = depth handle groove
DH = diameter handle hole
DeH = depth handle hole
Wt = weight

Publ no	SF no	Context	cp	Dimensions	Comments
8.109	1653	P1452 layer 9	7	D: 353 mm T: 68-102 mm DCH: 47 mm WHg: 24-39 mm DeHg: 38 mm Wt: 13,000 g	Sarsen. Type R1, but no hopper present and unusually rectangular in shape. Precise shaping in places. High amount of wear on grinding face, in the central hole and in the handle groove
8.113	1821	P2032 layer 6	7	D: 375 mm DHOP: 200 mm DCH: 60x101 mm T: 180 mm DeH: 55 mm DH: 44 mm WHg: 37-39 mm DeHg: 30 mm Wt: 34,000 g	Gritstone. Type R4, near complete but in five fragments. Pronounced hopper, handle half way down side of the stone, and a handle groove in the top of the stone. Convex sides and top, slightly convex grinding face. Precise shaping and high amount of wear on the grinding face and within the central hole. A band of iron staining encircles the outer edge.
NI	1897	Ph 8541 layer 2	-	-	Brown sandstone (Tertiary). Small fragments, precise shaping, wear on one face
NI	2638	P2577 layer 1	7	-	Sarsen Conglomerate. Small fragment, precise shaping. Grinding face worn smooth.

Lower rotary querns - Greensand

Key: D = diam
T = thickness
DS = diameter socket
DeS = depth socket
Wt = weight

Publ no	SF no	Context	cp	Dimensions	Comments
8.115	2045/ 2036	P2248 layer 8	7	D: 320-340 mm T: 104-144 mm DS: 48 mm DeS: 41 mm Wt: c 21,730 g	Near complete massive type lower rotary. Flat base, convex, moderately worn grinding face, straight edge. Shaping is fairly precise on all faces, slightly rougher on the edge with a vertical direction to the toolmarks. The central socket does not pierce the stone and is worn very smooth
8.116	2501	P2531 layer 5	6	D: 310 mm DS: 44 mm DeS: 39 mm T: 80-145 mm Wt: 15,000 g	Complete massive type lower rotary. Flat base, grinding face slopes upwards towards central socket which does not pierce the stone. The stone is notably thicker on one side and is only roughly shaped, chisel marks around the edge run in a diagonal direction. Little wear evident indicating that the stone was hardly used
8.117	1787	P2115 layer 1	7/8	D: 370 mm DS: 35 mm T: 35-90 mm Wt: 11,000 g	Lodsworth Rock. Near complete, relatively thin lower rotary. Roughly shaped, slightly concave base. More precisely shaped convex grinding face is only slightly worn. Tooling in a diagonal direction is noted around the edge. Central socket pierces the stone
8.118	2500	P2531 layers 4/5	6	D: 370 mm DS: 33 mm T: 41-54 mm Wt: 7,535 g	Lodsworth Rock. Near complete, relatively thin lower rotary. Concave base. Convex grinding face is smooth through wear with concentric ring striations. All faces are neatly shaped and the central socket pierces the stone. Of particular note is the base. The concavity and the wear evident on this face may indicate that it is a discarded upper rotary which has been reused as a lower
8.119	1637	P1577 layer 1	7	D: 350 mm T: 180-240 mm	Lodsworth Rock. Half of a massive type lower rotary. Flat, roughly shaped base. More precisely shaped convex grinding face which is worn very smooth and has concentric ring striations visible and a raised lip around the central socket
8.120	2376 2353 1863	P1982 layer 7	7	D: 338 mm DS: 36 mm DeS: 33 mm T: 30-70 mm Wt: 9,000 g	Complete thin type lower rotary. Flat, roughly shaped base. Precisely shaped convex grinding face which shows moderate wear and a raised lip around the central socket. The socket does not pierce the stone
NI	1646	P1577 layer 7	7	T: 120-165 mm DeS: 40 mm	Lodsworth Rock. Large fragment from a massive type lower rotary. Flat, roughly shaped base. Precisely shaped, slightly convex grinding face which is highly worn leaving a raised lip around the central socket, and with concentric ring striations visible. The grinding face is notably smooth around the outermost edge. Diagonal tooling marks are noted on the outer edge. The central socket does not pierce the stone

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1670	P1579 layer 14	8	T: 143 mm	Lodsworth Rock. Fragment of massive type lower rotary. Flat, roughly shaped base. Precisely shaped, slightly concave face which shows slight wear is presumably the grinding face
NI	1701	P1940 layer 6	7	-	Lodsworth Rock. Edge fragment of massive type lower rotary. Precisely shaped edge and slightly convex grinding face which shows wear particularly on the outermost edge. Tooling on the outer edge runs vertically
NI	1718	P1940 layer 9	7	DS: 52 mm DeS: 45 mm	Lodsworth Rock. Fragment only, massive type. Central socket does not pierce the stone and has raised lip around it due to wear on the convex grinding face. Precise shaping
NI	1722	Ph 7525 layer 1	-	T: 130 mm	Lodsworth Rock. Fragments only, massive type
NI	1742	P1793 layer 6	7	D: 350 mm T: 79-120 mm	Lodsworth Rock. About one half of an apparently unused lower rotary. All faces precisely shaped, vertically running tool-marks noted on the outer edge. Convex grinding face has no apparent wear
NI	1811	P110 layer 1	5	DS: 34 mm DeS: 55 mm T: 156-195 mm	Fragments of a massive type lower rotary. Central socket does not pierce the stone. Slightly convex, precisely shaped grinding face shows high amount of wear resulting in a raised lip around the socket and visible concentric ring striations. Neatly shaped edge has vertically running toolmarks
NI	1862	P2163 layer 4	7	T: 79-104 mm	Large fragment from a massive type lower rotary. Highly worn grinding face.
NI	1874	P2032 layer 6	7	DS: 34 mm DeS: 66 mm T: 170 mm	Lodsworth Rock. Fragment from a massive type lower rotary. Flat, roughly shaped base. Convex, neatly shaped grinding face with a moderate amount of wear resulting in a raised lip around the socket and visible concentric ring striations. The socket does not pierce the stone
NI	1903	P2090 layer 3	7	DS: 25 mm DeS: 46 mm T: 107 mm	Lodsworth Rock. Small fragment only, central hole evident which does not pierce the stone. Neatly shaped slightly convex grinding face with a moderate amount of wear. Central socket is worn very smooth
NI	1968	P2178 layer 4	7	DS: 15-32 mm DeS: 62 mm T: 98-130 mm	Lodsworth Rock. Fragment from a massive type lower rotary. Central socket which does not pierce the stone. All faces neatly shaped. Slightly convex grinding face has a moderate amount of wear
NI	2071	Layer 979	7	DS: 34 mm	Lodsworth Rock. Fragment of massive type lower rotary. Central hole which does not pierce the stone. Slightly convex grinding face with slight wear and some concentric ring striations visible. All faces neatly shaped. Vertical toolmarks visible on outer edge
NI	2134	Layer 1166	6	T: 51-82 mm	Small edge fragment. Neatly shaped, moderately worn grinding face

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2280	P2435 layer 5	7/8	T: 55-83 mm	Small edge fragments, roughly shaped. Moderate amount of wear and faint concentric ring striations on the presumed grinding face
NI	2314	P2367 layer 1	7	T: 62 mm DS: 27 mm DeS: 38 mm	Lodsworth Rock. Lower rotary, notably thin. All faces neatly shaped. Slightly convex, slightly worn grinding face. Unusual slightly concave base which also has slight wear. Stone may have been reused as a small saddle quern
NI	2327	P2320 layer 2	7	T: 71-111 mm	Lodsworth Rock. Edge fragment only. Moderate amount of wear on neatly shaped grinding face. Outer edge has some visible vertical toolmarks.
NI	2362	P1577 layer 7	7	-	Lodsworth Rock. Small fragment only. Slightly convex, neatly shaped grinding face with fairly high amount of wear and concentric ring striations visible
NI	2364	P1577 layer 8	7	T: 90 mm	Edge fragment. Convex, highly worn grinding face
NI	2371	P2435 layer 4	7/8	-	Edge fragment. Highly worn grinding face
NI	2375	?P2346 layer 7/8	7/8	T: 108-155 mm	Massive type lower rotary fragment. Flat base, convex, highly worn grinding face, polished appearance around edge. Neatly shaped, some diagonally running toolmarks on the outer edge
NI	2379	F110 layer 747	3	T: 25-60 mm	Small fragments only. Precise shaping. Moderate amount of wear on presumed grinding face
NI	2380	P2233 layer 2	7	-	Small fragments only. Roughly shaped. High amount of wear on presumed grinding face
NI	2424	P2536 layer 8	7	T: 95 mm	Lodsworth Rock. Small edge fragment. Flat, roughly shaped base. Neatly shaped grinding face slopes towards centre of stone and is smoothed through wear, most notably towards the edge. Outer edge has visible diagonal toolmarks
NI	2474	P2534 layer 7	7	T: 94-126 mm	Faces only roughly shaped. Flat base, convex grinding face. Little wear evident
NI	2490	P2534 layer 9	7	T: 110 mm	Fragment of massive type lower rotary. Flat, roughly shaped base. Convex sloping grinding face with high amount of wear and visible concentric ring striations
NI	2493	P2546 layer 2	7	T: 24-36 mm	Lower rotary fragment of notably thin and flat type. All faces only roughly shaped. Flat base slightly convex and sloping grinding face with an upturned lip/rim around the outer edge possibly as a result of excessive wear. Grinding face is smooth particularly on the lip
NI	2494	P2534 layer 12	7	T: 118 mm	Lodsworth Rock. Flat, roughly shaped base. More precisely shaped convex sloping grinding face with moderate amount of wear and concentric ring striations

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2604	Layer 914	7	DeS: 46 mm	Lodsworth Rock. Small fragment, evidence for central hole which does not pierce the stone. Neatly shaped convex grinding face, raised lip/rim around the central socket where wear is particularly noticeable. Concentric ring striations visible
NI	2618	P2579 layer 5	7	-	Lodsworth Rock. Small fragment only, apparently unused
NI	2619	P2579 layer 4	7	-	Lodsworth Rock. Possibly associated with 2618. Small fragment, shaped but apparently not worn/used
NI	2627	P2579 layer 4	7	T: 63-123 mm DS: 29 mm DeS: 38 mm	Lodsworth Rock. Notably neatly shaped on all faces. Moderate amount of wear on convex sloping grinding face. Faint concentric ring striations. Slightly concave base. Both horizontal and diagonal tooling on the outer edge. A central perforation is present which does not pierce the stone
NI	2825	P1350 layer 1	-	-	Small fragment only. Perforation evident with a lip around it through wear. Smooth grinding face
NI	2825	Tr 134 layer 3	-	-	Small edge fragment, notably flat. Wear not evident. One neatly shaped, slightly convex face. Vertical toolmarks on the edge
NI	2885	F110 layer 1	5	T: 92 mm	Small edge fragment. Flat, roughly shaped base. Slightly concave grinding face is worn extremely smooth. Diagonal toolmarks noted on the outer edge
NI	2886	F110 layer 1	5	-	Fragments from a massive type lower rotary. Convex grinding face only survives which is worn extremely smooth and has faint concentric ring striations
NI	2889	P2032 layer 6	7	DS: 31 mm	Small fragments. Convex, neatly shaped grinding face with a raised lip around the central socket where wear is most evident. Vertical toolmarks on outer edge.

Lower rotary querns - Potterne Rock

Key: D(E) = diameter (estimated)
DS = diameter socket
DeS = depth socket
T = thickness

Publ no	SF no	Context	cp	Dimensions	Comments
8.111	1715	P1940 layer 9	7	D(E): 350 mm T = 178-188 mm	Fragments of a massive type rotary, almost certainly matching upper rotary quern 1720/1721 (publ no 8.111). Flat, roughly shaped base. Slightly convex, neatly shaped grinding face which is highly worn. The grinding face slopes up towards the central socket around which is a raised lip and concentric ring striations due to excessive wear
NI	1975	Layer 843	7	DS: 41 mm DeS: 68 mm T: 120-150 mm	Fragments from a massive type lower rotary ?roughout. Flat base, also a flat upper presumed grinding face. Wear not evident. Central socket does not pierce the stone
NI	2044	P1986 layer 6	7	D(E): 340 mm T: 115-145 mm	Large fragment from a massive type lower rotary. Roughly shaped faces. Flat base, flat grinding face which has been worn very smooth. Some evidence for a raised lip towards the central socket, no longer remaining
NI	2279	P2435 layer 6	7/8	DS: 41 mm DeS: 38 mm	Fragment only. Central socket and part of a precisely shaped, highly worn grinding face only
NI	2473	P2545 layer 5	7	-	Edge fragment from a massive type lower rotary. Roughly shaped outer edge. Precisely shaped, highly worn, sloping grinding face
NI	2509	unstratified	-	-	Small fragment with neatly shaped, slightly worn grinding face only. Faint concentric ring striations evident
NI	2844	Layer 1506	7	-	Fragment from a massive type lower rotary. Grinding face only which is neatly shaped and fairly well worn with visible concentric ring striations

Lower rotary quern: Conglomerate/Puddingstone

Key: DS = diameter socket
DeS = depth socket
T = thickness

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1814	P2035 layer 7	7	DS: 46 mm DeS: 53 mm T: 157-170 mm	Large fragment from a massive type lower rotary. Shaping not evident. Slightly convex grinding face clearly worn. A central socket is present which does not pierce the stone

Lower rotary quern - Sarsen

Key: T = thickness

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2585	P2575 layer 1	7	T: 160 mm	Fragment from massive type lower rotary. Flat base, slightly convex grinding face, smoothed through wear with concentric ring striations just visible. Roughly shaped base, more precisely shaped edge and grinding face

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7 Material remains (cont)

7.1 Small finds (cont)

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Lower rotary querns - Tertiary

Publ no.	SF no	Context	cp	Dimensions	Comments
NI	2791	P1350 layer 8	7	-	Fragments only. Highly worn grinding face with polish around the outer edge. Precise shaping on all faces
NI	2887	P2032 layer 6	7	-	Small fragments, probably from a massive type lower rotary. Precise shaping. Highly worn. Slightly convex grinding face
NI	2888	P2032 layer 6	7	-	Fragments from a massive type lower rotary. Slightly convex highly worn grinding face with concentric ring striations visible. Rough shaping noted on outer edge

Rotary querns - indeterminate type: Greensand

Key: T = thickness

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1583	P1285 layer 8	7	T: 34 mm	Lodsworth Rock. Small fragments, precise shaping and small amount of wear evident
NI	1592	P1285 layer 8	7	-	A number of fragments. Precise shaping and some wear
NI	1967	Ph 8695 layer 1	-	-	Small fragment. Precise shaping and a high amount of wear on one face
NI	2046	P2227 layer 2	6	T: 53-89 mm	Lodsworth Rock. Numerous fragments, rough shaping on most faces. Wear not evident
NI	2110	P1579 layer 7	8	-	Very small fragments, shaped and worn on one face only
NI	2263	P247 layer 1	3	-	Lodsworth rock. A number of edge fragments. Rough shaping. Wear not evident
NI	2357	P1900 layer 7	7/8	-	Edge fragment, roughly shaped. Wear not evident
NI	2374	P2473	7	-	Fragments, roughly shaped. Slight wear on one face
NI	2510	unstratified	-	-	Small fragment, edge and flat face. Neatly tooled but no wear
NI	2560	Layer 1664	7	-	Small fragment, neatly shaped, wear on one face
NI	2623	Layer 1866	6/7	-	Lodsworth Rock. Fragment, edge and one flat face. Precise shaping, multidirectional toolmarks, but no wear evident
NI	2764	Ph 10059	5	T: 92 mm	Small fragments, roughly shaped, wear not evident
NI	2881	Ph 4816 layer 2	-	-	Edge fragment, roughly shaped. Wear not evident
NI	2883	P1687 layer 4	7/8	-	Small edge fragment. Roughly shaped. Wear not evident

Rotary querns - indeterminate type: Potterne Rock

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2457	P2550 layer 1	7	-	Small edge fragment. Smoothed through use
NI	1581	P1385 layer 1	7/8	-	One curving, one flat face. Precisely shaped but wear not evident

Saddle querns - Greensand

Key: L = length
W = width
T = thickness
Wt = weight

Publ no	SF no	Context	cp	Dimensions	Comments
8.121	1815	P2141 layer 6	1/3	L: 470 mm W: 245-310 mm T: 43-90 mm Wt: 17,000 g	Lodsworth Rock. Complete saddle quern. Roughly rectangular in shape, slightly narrowing towards one end, which has notches on each side. Well finished surfaces. Notably scooped/concave longitudinal grinding face. Slightly convex widthways. High amount of wear running longitudinally. Type S1
8.122	2476	Layer 1558	7	L: 320 mm W: 120-185 mm T: 20-55 mm Wt: 4,000 g	Complete saddle quern. Subrectangular shape, flattened sub-rectangular cross section. Neatly finished. Flat worn grinding face. Type S1
NI	1524	P1258 layer 1	3	T: 52-83 mm	Fragment only. Type S1
NI	1555	P1346 layer 7	3	W: 47-141 mm T: 42 mm	Fragments from both ends of a saddle quern with a flat slightly worn grinding face. Type S3
NI	1582	P1389 layer 1	-	-	Small edge fragment. Flat worn grinding face. Type S2
NI	1584	Ph 5187 layer 2	-	W: 49 mm T: 34-52 mm	Small fragment with convex worn grinding face. Precisely shaped. Type S3
NI	1586	Ph 5419 layer 1	-	T: 72-100 mm	Lodsworth Rock. Fragment, precisely shaped. Grinding face slightly convex widthways and slightly concave lengthways, reasonably well worn. Slight iron staining on the surface. Type S1
NI	1616	Ph 6157 layer 3	-	T: 72 mm	Small fragment, flat highly worn grinding face. Shaping evident. Type S1
NI	1633	Ph 6690 layer 1	-		Lodsworth Rock. Small fragment, precise shaping evident. Slightly convex, worn grinding face. Type S1
NI	1667	Layer 637	6/7	T: 45 mm	Small fragment, shaping evident. Slightly convex grinding face exhibiting some wear. Type S2
NI	1808	P2141 layer 5	1/3	T: 73-96 mm	Lodsworth Rock. Large piece with slightly convex grinding face with moderately high amount of wear. Roughly pecked to shape. Type S1
NI	1839	P2155 layer 2	7	T: 42 mm	Small fragment, precise shaping, highly worn grinding face. Type S3

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1913	P2026 layer 3	4	T: 40-49 mm	Small fragment, flat moderately worn grinding face. Precisely shaped. Type S1
NI	2051	P2285 layer 5	7	T: 29-66 mm	Edge fragment of ?small quern. Slightly convex highly worn grinding face. Shaped faces. Vague circular striations on the grinding face may indicate reuse of a rotary quern fragment. Iron staining on the surface. Type S3
NI	2095	Ph 5604 layer 1	-	T: 38 mm	Lodsworth Rock. Small edge fragment from small saddle quern. Flat moderately worn grinding face. Shaped faces. Type S2
NI	2096	Ph 3910 layer 1	-		Lodsworth Rock. Small edge fragment. Rough shaping. One face slightly worn; presumed grinding face. Type S3
NI	2097	Ph 3981 layer 1	-	T: 106 mm	Lodsworth Rock. End fragment, slightly convex grinding face with moderate amount of wear. All faces shaped. Type S1
NI	2101	P1452 layer 3	7	T: 25-47 mm W: 125 mm	Lodsworth Rock. Small end fragment from small thin saddle quern. Precisely shaped. High amount of wear on grinding face which is slightly convex widthways and slightly concave lengthways. Iron staining on the grinding face. Type S2
NI	2104	P1545 layer 6	4	-	Small edge fragment. Flat worn grinding face. Shaped on all faces. Type S2
NI	2105	Ph 7132 layer 1	-	T: 44-109 mm	Small end or corner fragment. Precisely shaped on all faces. Moderate amount of wear on presumed grinding face. Type S1
NI	2132	P2351 layer 1	7/8	T: 39 mm	Lodsworth Rock. Very small edge fragment. Slightly convex grinding face has moderate amount of wear. Shaping on all faces, more precisely on the grinding face. Type S2
NI	2133	Layer 1174	6/7	T: 64 mm	Edge fragment. Shaping on all faces. Very slight evidence of wear on flat, upper surface. Type S1
NI	2187	P2347 layer 11	7	T: 72-100 mm	Lodsworth Rock. Large edge piece. Convex grinding face shows only slight wear. Precise shaping on grinding face and edges, more roughly shaped base. Type S1
NI	2188	P2347 layer 11	7	T: 62-78 mm	Lodsworth Rock. Large edge piece. Slightly convex grinding face shows a moderate amount of wear. Shaped on all faces. Type S1
NI	2189	P2347 layer 11	7	T: 77-97 mm L: 320 mm	Large edge fragment. Flat moderately worn grinding face. All faces shaped. Type S1
NI	2262	P2426 layer 10	7/8	T: 105 mm	Lodsworth Rock. Precise shaping on one face which also has a moderate amount of wear and is presumably the grinding face. Other faces are roughly shaped. Type S1
NI	2270	P2480 layer 3	3	T: 53 mm	Small edge fragment. All faces shaped. Very high amount of wear on upper grinding face; polished appearance. Type S1

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2283	Ph 9376 layer 1	1/3	W: 226 mm T: 75-106 mm	Lodsworth Rock. One end of a quern. Flat grinding face has a moderately high amount of wear. All faces are shaped, the grinding face more precisely than the others. Type S1
NI	2287	P2478 layer 10	6/7	T: 40-65 mm W: 189 mm	Central portion of saddle quern, ends missing. Slightly convex moderately worn grinding face. Roughly pecked to shape. Type S1
NI	2290	P2428 layer 6	3	W: 217 mm T: 10-25 mm	Fragment from notably thin, flat, possible saddle quern. Very high wear on flat grinding face, some shaping. Sufficiently unusual to suggest that some specific use was intended. Type S3
NI	2331	P2427 layer 9	7	T: 30-60 mm Wt: 410 g	Small edge fragment. Flat, highly worn grinding face. Some shaping noted on edge and base Type S1
NI	2333	P2321 layer 2	3	L: 156 mm W: 145 mm T: 46 mm Wt: c 2,500 g	Can probably be regarded as complete. The saddle quern has apparently been broken at some stage, but use has continued and the break smoothed off. Slightly convex grinding face exhibiting a very high amount of wear in a diagonal manner. Some shaping on all faces, more precise on the upper grinding face and one edge. Type S1
NI	2341	P2300 layer 2	7	T: 16-44 mm	Lodsworth Rock. Small edge fragment. Flat, moderately worn grinding face. Shaping more noticeable on the grinding face. Type S3
NI	2342	Ph 8759 layer 1	-	T: 84 mm	Small fragment Flat grinding face with very high amount of wear. Shaped on all faces. Iron staining on the surface. Type S1
NI	2347	G241 layer 1	-	T: 36 mm	Very small edge fragment. High amount of wear on flat grinding face. Precise shaping on all faces. Type S2
NI	2349	Layer 1007	7	T: 61-74 mm	Lodsworth Rock. Edge fragment. Moderately worn grinding face. Shaped on all faces, more precisely on the grinding face. Type S2
NI	2350	P2300 layer 1	7	T: 50 mm	Lodsworth Rock. Small fragment, slight wear on one face. Shaping only evident on the worn face. Type S3
NI	2352	P2056 layer 1	3	T: 44 mm	Lodsworth Rock. Very small fragment. One face shows shaping and a moderate amount of wear; presumed grinding face. Type S3
NI	2354	P2141 layer 1	1/3	-	Fragment with fairly precise shaping. Wear not evident. Type S1
NI	2356	P2118 layer 1	7	T: 68 mm	Lodsworth Rock. Small edge fragment. One precisely shaped face shows a moderate amount of wear and is presumably the grinding face. Type S1

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2358	P1953 layer 1	3	-	Small end or corner fragment. One precisely shaped face has slight wear. Type S1
NI	2359	P89 layer 5	5	-	Lodsworth Rock. Small edge fragment. Flat grinding face has moderate amount of wear. Shaping on all faces. Type S2
NI	2365	Ph 6769 layer 11	-	T: 5? mm	Small fragment, shaping on two opposing faces one of which is slightly smoothed through wear and is presumably the grinding face. Type S3
NI	2366	P1479 layer 1	7	T: 73 mm	Small corner fragment. Shaping visible on two faces. Wear not evident. Type S1
NI	2372	P2426 layer 18	7/8	T: 24-67 mm	Small fragment. Slightly concave grinding face has a small amount of wear. Precise shaping on grinding face. Rough shaping on the base. Type S3
NI	2373	P2372 layer 1	7	T: 43 mm W: 112 mm	Rounded point end of a relatively small quern. Flat upper grinding face is slightly smoothed through wear. Rough shaping. Type S2
NI	2418	P2498 layer 3	4	T: 66 mm	Fragment from the roughly rounded tip of a thick saddle quern. Flat upper grinding face is worn extremely smooth. Shaping not evident. Type S1
NI	2504	Layer 1628	6/7	T: 36-50 mm	Small fragment. Slightly concave grinding face is worn extremely smooth. Base also smooth. Precise shaping on the grinding face. Type S3
NI	2511	P2427 layer 2	7	-	Lodsworth Rock. Small edge fragment possibly from a relatively large quern. Slightly concave grinding face is smooth through wear. The base is also smooth. Shaping on all faces, more precisely on the grinding face. Type ?S1
NI	2557	P2573 layer 5	7	-	Small edge fragment. Flat grinding face is worn exceptionally smooth. Some precise shaping evident. Possible iron staining on the grinding face. Type S3
NI	2558	P2573 layer 5	7	T: 45 mm	Small end fragment. Flat upper grinding face and the tip are worn smooth. Precise shaping; score marks visible on the tip. Type S3
NI	2559	P2573 layer 5	7	T: 49-71 mm	Small edge and tip fragment. Concave grinding face is worn exceptionally smooth. Precise shaping on all faces. Type S1
NI	?573	P2570 layer 2	6/7	T: 33-36 mm	Small fragment, notably thin and flat. Flat grinding face is worn very smooth. Rough shaping on the grinding face. Type S2
NI	2579	Layer 1734	6	T: 57 mm	Fragment from an apparently fairly large saddle quern. Flat grinding face is smooth through wear. Base also smooth. Precisely shaped. Type S1

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2601/ 2602	P2579 layer 2	7	W: 120-170 mm T: 65 mm max Wt: 2,930 g	Lodsworth Rock. Two fragments joining to form a complete relatively small roughly oval quern. Slightly convex grinding face is worn extremely smooth. Also smooth on the base. Precisely shaped on both faces. Iron staining noted towards one end of the grinding face and also on the base. Type S1
NI	2640	P2231 layer 2	5	T: 42 mm	Small edge fragment. Flat grinding face is worn extremely smooth. Fairly precise shaping on all faces. Type S3
NI	2641	Layer 1859	7	T: 40 mm	Small fragment. Flat grinding face worn very smooth. Base also slightly smooth. Precise shaping on grinding face only. Type S3
NI	2645	Layer 1743	3	T: 140-170 mm	Several fragments from a large thick quern. Flat grinding face is worn smooth in one particular area. Precise shaping on the grinding face only. Type S1
NI	2646	P2563 layer 4	7	T: 48 mm	Small fragment. Flat grinding face is smooth through wear. Precise shaping on the grinding face, more roughly shaped base. Type S3
NI	2669	unstratified	-	T: 10-26 mm	Very small end fragment. Slightly convex grinding face is worn very smooth. Precise shaping on the grinding face. Type S2
NI	2739	Layer 1968	6	T: 12-54 m	Fragment with flat grinding face which shows only slight evidence of wear. Base is smooth, however, through use. This may indicate that the grinding face has been reworked. Rough shaping on the grinding face. Type S1
NI	2740	Layer 1990	7	T: 47 mm	Small end fragment. Flat grinding face is smoothed through wear. Precise shaping on grinding face, rough shaping on base. Type S3
NI	2756	P2604	6/7	W: 80 mm T: 38 mm	Small end fragment. One face worn notably smooth. Shaping not evident. Type S3
NI	2762	P2600 layer 1	7	-	Lodsworth Rock. Small edge fragment. Flat grinding face is smooth through wear. Precise shaping visible on all faces. Type 3
NI	2766	Layer 1997	4	T: 17-34 mm	Small end fragment of a thin quern. Two flat opposing surfaces are smoothed through wear. One with faint parallel striations is probably the grinding face. Shaping is not apparent. Type S2
NI	2786	Layer 2012	3	-	Very small edge fragment. Precise shaping visible on all faces. One face worn extremely smooth; grinding face. Type S3
NI	2787	Layer 2012	3	T: 15-20 mm	Small edge fragment. Flat grinding face is smoothed through wear. Precise shaping on all faces. Type S?

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2820	Layer 621	6	-	Lodsworth Rock. Small edge fragment. Two opposing flat faces smoothed through wear. One face has slightly polished appearance and may be the grinding face. Precise shaping on both flat faces. Type S3
NI	2821	P2590 layer 4	7	T: 69 mm	Fragment of quern, flat grinding face is worn smooth. Precise shaping on flat grinding face, rough shaping on edge and base. Type S1
NI	2823	P2590 layer 7	7	-	Small fragment with a flat grinding face which is smoothed through wear. Precise shaping on grinding face. Rough shaping on the edge. Type S3
NI	2824	Layer 1966	6/7	W: 85 mm T: 40-52 mm	End fragment with flat worn grinding face. Precise shaping on the grinding face and the edges. Type S3
NI	2826	Layer 1952	7	-	Very small fragment with flat worn grinding face and edge. Precise shaping on all faces. Type S3
NI	2827	[illegible]r 1990	7	-	Small fragment; flat grinding face smoothed through wear. Precise shaping on grinding face. Type S3
NI	2828	Layer 1990	7	-	Lodsworth Rock. Small fragment; flat grinding face is smoothed through wear particularly towards the edge. Precise shaping on the grinding face. Type S3
NI	2832	P2598 layer 3	6/7	T: 55 mm	Small end fragment. Flat grinding face is smooth and exhibits slight polish. Precise shaping visible on all faces. Type S1
NI	2833	Layer 1997	4	-	Small fragment with a slightly convex worn grinding face. Precisely shaped on all faces. Type S3
NI	2835	P2575 layer 2	7	T: 45 mm	Small, pointed end fragment. Flat grinding face is worn exceptionally smooth. Shaping not evident. Iron staining noted on the grinding face. Type S2
NI	2840	Ph 9631 layer 4	3	T: 35-42 mm	Small fragment. One slightly convex, one slightly concave opposing face. Both faces smoothed. Precise shaping evident on convex face indicating this may be the grinding face. Type S3
NI	2843	P2534	7	-	Small edge fragment. Flat smoothed grinding face with some faint parallel striations visible. Shaping not evident. Type S3
NI	2845	P2494 layer 1	5	T: 45-50 mm	Small edge fragment. Slightly concave grinding face notably smoothed through wear. Other faces also smoothed. Precise shaping on grinding face. Type S3

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2847	P2541 layer 2	6	T: 79 mm	Fragment from tip of a relatively thick quern. Flat grinding face worn very smooth. Base also worn. Precise shaping on grinding face. Type S1
NI	2882	P1454 layer 1	3	T: 55 mm	Small fragment from the pointed end of a small saddle quern. Flat grinding face is highly smoothed with slight polish visible. Precise shaping on all faces. Type S3
NI	2884	P1317 layer 1	4	-	Possible saddle quern fragment/roughout. Large rough piece of stone. One surface notably flat and slightly smooth with some faint evidence of precise shaping. Type S1.

Saddle querns - Tertiary Rock

Key: T = thickness

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1912	P2017 layer 1	4	T: 27 mm	Small thin edge fragment. High amount of wear on flat face
NI	2108	P1579 layer 1	8	T: 32 mm	Small end fragment, flat worn grinding face. Neatly shaped
NI	2176	P2347 layer 8	7	T: 23-57 mm	Edge fragment. Flat smooth grinding face. Slightly burnt
NI	2193	P2347 layer 8	7	T: 54 mm	Small end fragment. Slightly convex, very smooth grinding face
NI	2315	P2477 layer 3	7	T: 42 mm	Small edge fragment. High amount of wear on flat grinding face
NI	2343	unstratified	u/p	T: 50 mm	Small corner fragment. Flat highly worn grinding face. Slightly burnt
NI	2361	P1809 layer 4	3	T: 34-55 mm	Small fragment only. Two moderately worn flat faces
NI	2381	P2367 layer 1	7	T: 67 mm	Badly weathered small fragment. One flat face moderately worn
NI	2432	Ph 5877 layer 1	u/p	-	Fragment of flat smooth grinding face only
NI	2741	Tr 122 layer 1878	3	T: 39 mm	End fragment with slightly convex, extremely smooth grinding face
NI	2765	Layer 1997	4	-	Small end fragment. Wear not evident
NI	2848	P2315 layer 5	6/7	T: 34 mm	Small edge fragment. Flat and extremely smooth grinding face

Saddle querns - other stone types

Key: T = thickness
W = width

Publ no	SF no	Context	cp	Dimensions	Comments
NI	1533	P1250 layer 6	3	T: 45 mm W: 46-160 mm	Fossiliferous limestones. Pointed end fragment from a flat, thin quern. Flat, smooth grinding face. Slightly burnt
NI	2838	Layer 1499	6/7	-	Potterne Rock. Small fragment only. Smooth, flat grinding face

Saddle querns - Sarsen

Key: L = length
W = width
T = thickness
Wt = weight

Publ no	SF no	Context	cp	Dimensions	Comments
8.123	2332	P2321 layer 2	3	L: 217 mm W: 83-112 mm T: 67 mm Wt: c 3000 g	Highly worn concave grinding face. Slightly burnt
8.124	2551	P2573 layer 5	7	W: 103 mm T: 40-55 mm Wt: 890 g	Grinding face worn extremely smooth and is hollowed. Burnt. ?Iron staining on grinding face.
NI	1509	P1203 layer 1	7	T: 66 mm	Edge fragment. Flat face slightly worn
NI	1578	P1363 layer 1	6	T: 69 mm	Small fragment only
NI	1591	P1241 layer 4	3	W: 122 mm T: 84 mm	End fragment, one concave, one convex face. Convex face is notably smooth
NI	1745	P1798	6-7	T: 15-42 mm	End fragment. Flat smooth grinding face. Slightly burnt
NI	1788	Ph 8096 layer 1	u/p	T: 62 mm	End fragment. High amount of wear on flat grinding face
NI	1861	P2112 layer 1	7	T: 53 cm	Small end fragment. Flat grinding face, highly worn and with ?iron staining on the surface
NI	2114	Layer 894	6	T: 60 mm	Small corner fragment. Flat smooth grinding face. Slight burning
NI	2146	Layer 1058	7	T: 41-54 mm W: 121 mm L: 158 mm	Small oval quern, partly flat, partly concave grinding face worn very smooth
NI	2166	Layer 1331	6-7	T: 35-58 mm	Small edge fragment. Slightly convex highly worn grinding face. ?Iron staining on grinding face
NI	2313	P2477 layer 1	7	W: 108 mm T: 20-48 mm	End fragment of presumed rectangular shaped quern. Highly worn grinding face. ?Iron staining on grinding face
NI	2348	P2205 layer 1	3	T: 53 mm	Small fragment only. Flat worn grinding face
NI	2420	P2549 layer 2	7	T: 42-63 mm	Rounded tip fragment. Flat smooth grinding face
NI	2556	Layer 1349	7	T: 30 mm	Small fragment only. Slightly concave grinding face worn very smooth. Slight burning

Publ no	SF no	Context	cp	Dimensions	Comments
NI	2595	P2575 layer 4	7	T: 60 mm	Small fragment, smooth grinding face showing some polish. Slight burning
NI	2691	Layer 1990	7	T: 74 mm	Edge fragment from relatively thick quern. Flat, smooth grinding face
NI	2829	Ph 10010 layer 1	6	-	Small end fragment. Flat, extremely smooth grinding face
NI	2831	F355 layer 3	3	-	Small fragment only. One flat, one slightly concave face, both smooth
NI	2836	Layer 2080	3	T: 37-58 mm	Small edge fragment, flat smooth grinding face. Slight burning
NI	2842	P2534 layer 7	7	-	Small edge fragment. Flat, smooth grinding face
NI	2896	P1455	6-7	-	Small fragment only

Saddle quern rubbers

Publ no	SF no	Context	cp	Material	Weight
8.125	2553	P2573 layer 5	7	Pebble	150 g
8.126	2107	G179 layer 1	u/p	Greensand	585 g
8.127	1511	P1161 layer 10	7	Pebble	630 g
NI	2098	P1175 layer 1	3	Greensand	510 g
NI	2102	Layer 641	6	Sarsen (?reused saddle fragment)	865 g
NI	2111	P1940 layer 4	6	Sarsen (?reused saddle fragment)	585 g
NI	2472	P2529 layer 4	7	Pebble	1360 g

Chalk weights

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
8.128	2789	P2612 5	6	Sub-triangular	c3250.0	225	161	114	34x26/ 16/ 28x26	Complete. Worn	Very large weight, roughly shaped and finished. Perf cut from both sides meets imperfectly. Gouge marks 3-4 mm wide on base and one side of perf. Possible wear marks above perf on one side obscured by modern damage
8.129	1890	P1999 2	3	Roughly triangular	1310.7	205	120	70	21/ 18/ 17	Near complete. Fresh	Large, irregularly shaped. Perf cut with blade 2-3 mm wide, marks clearly preserved. Faint wear above perf. Apex broken.
8.130	1586	P1285 6	7	Pyramidal	1711.3	-	120	120	22/ 15/ 30	Incomplete. Worn	Top missing. Carefully shaped but asymmetrical. No toolmarks. Two diagonal, parallel ?peck-marks on one face. Deliberate damage?
8.131	1880a	P1990 2	7	Irregular	2018.0	145	140	110	22/ 10/ 19	Near complete. Very worn	Essentially a block of chalk modified only by cutting a perf. Marks of a tool with 2 mm tip on base, top and sides of perf. Double wear grooves, 2 mm and 10 mm wide, 8 mm apart above perf on one side. Faint mark 4 mm wide on other.
8.132	1886	P1999 2	3	Roughly triangular	1117.7	190	100	70	17/ 09/ 17	Complete. Worn	Carefully shaped and finished with small perf. Vertical striations survive across one lateral face. Deep toolmark 3 mm wide on one side of perf. Faint traces of wear above perf on both sides. Ancient damage (?deliberate) to one frontal face: groove 25 mm wide produced by pick or bar

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
8.133	1568	Ph 4612 1	-	Irregular, shouldered	1264.6	230	108	70	30x18/ 15/ 21	Complete. Worn	Roughly shaped with shoulders below perf. Faint traces of ?adze with serrated blade on exterior near perf. Gouge mark 7 mm wide on base of otherwise smooth perf. Shallow, wide wear mark above perf on one side, strand marks on other
8.134	1547	P1299 3	7	Irregular diamond shaped	1116.0	180	75	95	40x34/ 28x20/ 39x30	Near complete. Worn	Small weight with unusually large perf. Gouge marks inside perf, possible adze and point marks on exterior. Double wear grooves 6 mm wide on one side of perf, general wear on other. Ancient ?deliberate damage on one face
8.135	1561	P1393 2	4	Roughly sub-rectangular	1420.0	200	90	105	20/ 15/ 16	Near complete. Worn	Base missing. Originally well-shaped. Frontal face elongated triangle, lateral face rectangular. Adze marks near perf. Perf neatly cut with wide groove marks on base. Clear double wear grooves above perf on one side 5 mm wide, 3 mm apart. General wear on other
8.136	1550	P1334 2	-	Flattened pear shape	1326.1	160	120	80	35x24/ 09/ 25x18	Complete. Worn	Well finished. Perf roughly cut from both sides with small central opening. Blade mark and point marks on exterior. Gouge marks 6 mm wide within perf. Double wear grooves 4 mm wide one side of perf, single wear mark 8 mm wide on other. Groove 12 mm wide across top of stone, possibly deliberately cut
8.137	1632	P1456 3	7	Irregular	1424.2	135	120	130	24/ 25/ 35	Incomplete. Worn and burnt	Essentially unmodified chalk fragment with large perf preserving deep gouge marks. Double wear grooves 4 mm wide, 11 mm apart above perf on one side. Extensively burnt

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
8.138	1575	Ph 4611 2	-	Sub-triangular	954.2	170	125	55	37x20/ 17/ 24	Near complete. Fresh	Roughly shaped, essentially unfinished. Crudely cut perf preserves gouge marks 2-4 mm. Adze marks 40 mm wide run at various angles across faces (striations preserved). Stone was hacked to shape with this tool and never more finely finished. One deep wear groove 9 mm wide above perf on one side
8.139	2611	Layer 1856 7		Uncertain	490.0	-	130	-	29x21/ 11x15/ -	Incomplete. Very worn	Part of central section extant. Oval shaped perf, interior worn smooth. Traces of deep, wide wear groove producing a depression 25 mm wide at top of perf
8.140	1559	P1334 2	-	Flat pear-shape	1337.2	185	135	65	25/ 17/ 23	Complete. Slightly worn	Well-finished, symmetrical. Faint score mark from pointed implement on one frontal face. Deep, wide gouge marks on base of perf. Double wear grooves above perf on one side, 3 mm wide, single deep long groove 5 mm wide, 35 mm long on other
8.141	1557	P1334 2	-	Triangular	1186.3	185	125	50	18/ -/ 20	Complete. Very worn	Well-finished. Base of perf preserves gouge marks so deep that central section wider than ends. Top of perf worn smooth. Possible vertical toolmarks (striations) on lateral faces. Double wear grooves 5 mm and 3 mm wide above perf on one side, slight general wear mark on other
8.142	1558	P1334 2	-	Roughly triangular	1381.9	195	125	70	23/ 18/ 24	Complete. Very worn	Well-finished with small perf. Possible toolmarks of pointed implement running vertically down lateral faces. Deep gouge marks on base of perf, top of perf worn smooth. Double wear grooves above perf on both sides, 4 mm and 2 mm wide

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
8.143	1577	Ph 4611 2	-	Sub-triangular	1181.6	150	130	70	25/ 13/ 25	Complete. Worn	Small, well-finished. Neatly cut perf with deep gouge marks on all surfaces. Double wear mark 3 mm wide, 5 mm apart above perf on one side. Faint trace of wear on other
8.144	1554	P1334 2	-	Sub-triangular	1219.9	155	105	75	30x22/ 19x12/ 28x22	Near complete. Slightly worn	Well-finished. Roughly cut perf with deep gouge marks on base. Top of perf worn smooth. Double wear grooves 5 mm wide above perf on both sides. Individual strand marks visible
8.145	1576	Ph 4611 2	-	Irregular rectangular	979.9	180	90	75	23/ 16/ 19	Complete. Worn	Irregularly shaped, crudely finished small weight. Perf worn to neat hourglass shape. Blade marks preserved especially around perf. Single wear groove above perf on each side, one 3 mm wide, the other 9 mm wide, 28 mm long
8.146	1551	P1334 2	-	Roughly sub-rectangular	1327.6	210	105	70	22x15/ 09/ 22x20	Complete. Fresh	Well-finished. Small perf cut from both sides. Adze marks on surface, point marks 2 mm wide within perf. Double wear grooves 2-3 mm wide above perf on one side. Apparently little used
8.147	1562	P1393 2	4	Flattened oval	1240.8	210	55	120	19/ 13/ 15	Complete. Fresh	Well-finished, regular shape. Neatly cut perf with gouge marks 5 mm wide on base. Shallow double wear grooves above perf on one side, clear single groove 7 mm wide on other

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
8.148	1892	P1999 2	3	Uncertain	1704.9	-	150	70	15/ 17/ -	Incomplete. Worn	Top missing, frontal face damaged. Large weight, probably originally rectangular or triangular. Deep gouge marks 7-15 mm wide run vertically down one lateral face. Small perf with faint point marks. Vertically cut groove 17 mm wide, 8 mm deep across one frontal face. Deliberate damage?
8.149	1737	P1727 6	7/8	Roughly triangular	2033.0	210	95	165	35/ 24/ 29	Near complete. Modern wear	Crudely shaped and finished. Perf roughly cut. Second, unfinished perf on lateral face near base. Deep, wide gouge marks on base and sides of perf and possible striations on exterior. Wear grooves above perf obscured by modern damage (washed)
NI	1552	P1334 2	-	Roughly sub-rectangular	1262.6	90	110	85	23/ 17/ -	Incomplete. Worn	Originally well-finished. Perf roughly cut with gouge. On surviving outer edge double wear grooves 4 mm and 6 mm wide above perf with strand marks preserved
NI	1553	P1334 2	-	Triangular	1263.7	205	140	60	23/ 22/ -	Incomplete	Originally well-finished. Perf roughly cut from both sides with tool 2 mm wide. Single wear groove 1-2 mm wide above perf on surviving surface
NI	1560	u/s	-	Sub-triangular	1254.5	-	150	70	17/ -/ -	Incomplete. Worn	Top and one basal corner missing. Well-shaped. Perf roughly cut but toolmarks obscured by leaching
NI	1566	P1393 2	4	Roughly triangular	1226.6	160	65	110	18/ 12/ 25	Near complete. Worn	Roughly finished but symmetrical. Base irregular (or broken). Perf neatly cut from two sides. Gouge and point marks survive on all parts of perf. No wear grooves visible

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	1567	P1393 2	4	Sub-rectangular	1213.1	170	85	110	17/ 12/ 18	Complete. Worn	Roughly shaped, large bulge on one face. Small, neatly cut perf. No toolmarks. Faint wear marks above perf on both sides
NI	1580	P1285 1	7	Flat ?pear-shaped	1127.6	-	130	50	-/ -/ -	Incomplete. Burnt and very worn	Originally well-finished. Deep gouge marks 3-4 mm on base of perf. No other toolmarks
NI	1606	Ph 5668 1	-	Uncertain	690.0	-	-	105	-/ -/ -	Incomplete. Very worn and burnt	Top and one half missing. Apparently originally well-finished. Faint traces of gouge marks on base of perf. No other toolmarks
NI	1629	P1456 3	7	Uncertain	1775.8	-	120	110	-/ -/ -	Incomplete. Worn. Burnt	Extensively broken. No toolmarks. Thoroughly burnt after breakage
NI	1630	P1456 3	7	Uncertain	857.2	-	95	60	-/ -/ -	Incomplete. Worn	Top missing, chipped and flaked. Faint gouge mark on base of perf
NI	1631	P1456 3	7	Uncertain ?triangular	505.2	-	100	90	-/ -/ -	Incomplete. Burnt	Only top survives. Extensively burnt. Double wear groove above perf on one side (too faint to measure). On other side triple wear groove, 4 mm, 2 mm, 3 mm wide 3 mm and 2 mm apart
NI	1664	Layer 654	7	Uncertain	965.0	-	-	77	-/ -/ -	Incomplete. Worn	*Lower chalk. Half of middle section survives. Well-finished. Perf evenly cut and worn smooth with only vague traces of a small pointed tool
NI	1683	Ph 7474 1	-	Sub-triangular	795.5	-	110	80	25/ 15/ -	Incomplete. Very worn	Well-finished. No tool-marks. Two parallel wear grooves 5 mm wide, 5 mm apart above perf on one side
NI	1685	Ph 7474 1	-	Triangular?	529.1	-	-	65	22/ 07/ 18	Incomplete. Very worn, burnt	Only top half, with perf, survives. Small perf crudely cut from two sides. Toolmarks 2 mm wide along top of perf

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	1702	u/s	-	Roughly triangular	1045.7	-	150	70	-/ 23/ -	Incomplete. Very worn	Top and part of one side missing. No distinctive features or toolmarks survive due to ancient and modern damage (washed in processing)
NI	1728	P1820 3	7	Roughly triangular	615.1	102	59	160	29/ 18/ 30	Complete? Worn	Crudely shaped and finished. Inside of perf worn smooth. One faint vertical wear groove above perf on one side, general wear on other
NI	1734	P1790 5	7	Uncertain ?triangular	543.1	-	-	-	-/ 24/ -	Incomplete. Worn and burnt	Only top section survives. No toolmarks or distinctive features due to modern damage (scrubbed in processing)
NI	1739	P1727 6	7/8	Irregular scalene triangle	1961.7	165	95	190	32x25/ 23/ 25	Complete. Modern wear	Crudely shaped and finished, no attempt at symmetry. Distinguishing features obscured by modern damage (washed)
NI	1876	P2108 5	7/8	Triangular	1699.0	220	140	75	34/ 30/ 30	Incomplete. Worn	Originally well-shaped. Symmetrical. Large perf crudely cut from both sides producing a 'dog-leg'. Faint gouge and point marks along sides of perf, single wear groove above perf on both sides, one 6 mm wide, one 4-5 mm wide
NI	1877	P2115 4	7/8	Uncertain ?triangular	528.3	-	90	85	32/ 25/ 26	Incomplete. Worn	Only top survives. Large perf crudely cut and preserving deep, wide gouge marks on base and one side. Faint, wide wear mark above perf on one side, double wear grooves on other - one too faint to measure, the other 11 mm wide and very deep
NI	1878	P1993 6	7	Uncertain	329.4	-	110	70	25/ 17/ -	Incomplete. Very worn	Small fragment including part of perf survives. Faint point marks on base of perf

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	1880	P1990 2	7	Flat triangular	1282.1	190	115	65	17/ -/ 19	Near complete. Very worn	Roughly shaped and finished with small perf. Possible toolmarks on outer surfaces obscured by damage and washing. Perf worn smooth. Faint traces of wear above perf
NI	1881	P2047 2	7	Sub-rectangular?	941.7	-	105	60	-/ -/ -	Incomplete. Very worn and burnt	Originally carefully shaped. Faint traces of pointed tool on base of perf. Weathering and burning obscures toolmarks on outer surfaces
NI	1882	P2047 2	7	Sub-rectangular	1616.3	200	125	80	27/ -/ -	Incomplete. Very worn	Broken across top and one frontal face exposing perf. Large and regularly shaped. Perf preserves marks of tool with a rounded end 3 mm wide
NI	1883	P2047 2	7	Uncertain	1182.1	-	80	120	-/ -/ -	Incomplete. Partly burnt	Top missing. Small, crudely finished weight, rounded base. No toolmarks
NI	1884	P2047 2	7	Uncertain	1673.0	-	-	-	-/ -/ -	Incomplete	Small fragment of upper section with part of perf surviving. Interior of perf very worn. Single, deep wear groove 18 mm wide, 42 mm long above perf on one side
NI	1885	P2047 2	7	Uncertain	288.0	-	-	-	-/ -/ -	Incomplete	Small fragment of middle section. No toolmarks
NI	1887	P1999 2	3	Triangular	1126.5	-	130	80	19/ -/ 22	Incomplete. Very worn	Basal half missing. Crudely shaped and finished with small perf preserving deep gouge marks. General wear above perf on one side
NI	1888	P1999 2	3	Irregular	1047.8	-	100	90	-/ -/ -	Incomplete. Very worn	Broken across top and one lateral face. Essentially a chalk block modified only by the cutting of a perf. Fresh point marks survive on base of perf. Very weathered and clawed by small animals

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	1889	P1999 2	3	Uncertain ?triangular	1186.9	-	-	90	24/ 17/ 24	Incomplete	Basal corner missing. Frontal face sheared off. Originally large and crudely shaped. Base and sides of perf preserve toolmarks 2 mm wide. Area above perf on both sides shows faint traces of wear
NI	1891	P1999 2	3	Irregular	1330.3	190	130	100	15/ 15/ 16	Complete. Very worn	Irregular, roughly shaped or unmodified chalk block with small, neatly cut perf. Toolmarks 2-3 mm wide preserved along base and sides of perf
NI	1898	P2110 5	7/8	Uncertain	319.2	-	-	80	45/ -/ -	Incomplete	Small fragment of perf area. Originally well finished. Gouge and point marks 3-7 mm wide on top surface of perf. One wide wear mark above perf
NI	1899	P2110 5	7/8	Triangular?	346.7	-	-	-	-/ -/ -	Incomplete. Worn and burnt	Fragment of top. Faint toolmarks of point or narrow gouge along top of perf
NI	1900	P2094 3	7	Uncertain	514.4	-	-	-	-/ 14/ 34	Incomplete. Burnt	Small area of top and perf surviving. Interior of perf worn but faint toolmarks 2-3 mm wide
NI	1956	P2256 12	7	Flat pear-shaped	2060.0	200	70	165	27/ 22/ 30	Near complete. Worn	Small part of base missing. Carefully shaped and finished. Vertical striations on outer surfaces. Perf roughly cut and worn, preserving deep, wide gouge marks on base and side. Faint wear marks above perf on one side
NI	1957	P2256 12	7	Irregular oval	2046.1	-	90	170	30/ 18/ 42	Incomplete. Worn	Top and part of base missing. Irregularly shaped but neatly finished. Deep gouge marks on base of perf, top worn smooth. Double wear groove above perf on one side 12 mm and 6 mm wide, 13 mm apart. Shallow wear groove 15 mm wide on other

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	1966	P2182 2	7	Roughly triangular	1538.1	165	90	130	29/ -/ -	Incomplete. Battered	Top and part of middle missing. Irregular and roughly shaped and finished. Large perf with very deep gouge marks on base 5-6 mm wide
NI	1996	P2200 2	3	Uncertain	2490.3	-	-	-	-/ -/ -	Incomplete. Worn	Ten fragments which may represent more than one weight. One section of perf retains mark of a narrow gouge. A second large fragment represents a well-finished central section bearing possible graffito
NI	2000	P2200 2	3	Ovoid	750.0	175	90	40	20/ 10/ 22	Complete. Worn	Well shaped and finished with perf neatly cut from both sides. Faint point marks on base of otherwise worn perf. Single wear groove above perf on one side, 5 mm wide. Double wear grooves 2-3 mm wide, 10 mm apart above other
NI	2001	P2200 2	3	Uncertain	309.0	-	-	68	-/ -/ -	Incomplete	Central section of stone. Faint point marks on base of perf
NI	2002	P2200 2	3	Uncertain	196.9	-	-	-	-/ -/ -/	Incomplete	Small fragment of worked chalk, possibly a weight
NI	2003	P2200 2	3	Uncertain	1067.9	-	145	80	-/ -/ -	Incomplete	Central section survives. Perf cut from two sides meeting imperfectly. Gouge marks visible on perf base and diagonal striations of pointed tool on three exterior surfaces
NI	2004	P2200 2	3	Uncertain	245.1	-	-	59	-/ -/ -	Incomplete	Two fragments of central section. No toolmarks
NI	2005	P2200 2	3	Uncertain	344.1	-	-	62	-/ -/ -	Incomplete	Small fragment. Faint point marks visible over base of perf

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2006	P2200 2	3	Sub-triangular	690.7	145	100	60	34x20/ 12x7/ 28x20	Incomplete. Worn	Base missing. Small crudely shaped. Perf very worn but point marks 2 mm wide survive on base. Double wear grooves 2 mm wide, 8 mm apart above perf on one side. Crudely cut groove across top of weight
NI	2007	P2200 2	3	Uncertain	740.0	-	-	-	-/ -/ -	Incomplete	Fragment of apparently well finished weight with small areas of original face surviving
NI	2008	P2200 2	3	Uncertain	211.7	-	-	58	23/ 15/ -	Incomplete. Worn	Top survives. Gouge marks survive on one side of perf. Above perf on one side double wear groove with individual strand marks visible: 5 mm wide, 5 mm apart. General wear on other side
NI	2009	P2200 2	3	Sub-triangular	1634.7	180	150	55	-/ -/ -	Incomplete. Worn	Top missing. Carefully shaped. Perf cut from both sides joining imperfectly. Point marks surviving within perf
NI	2010	P2200 2	3	Uncertain	408.7	-	-	-	-/ -/ -	Incomplete	Small fragment of worked chalk probably belonging to a weight. No distinguishing features
NI	2011	P2200 2	3	Sub-rectangular	1710.5	200	130	70	25/ 15/ -	Incomplete. Worn	Three fragments. Irregularly shaped and crudely finished. Small perf neatly cut from two sides. Point marks on base and sides of perf. Faint double wear groove above perf on one side 2 mm wide, 8 mm apart. Striations from small pointed tool down one exterior face
NI	2012	P2200 2	3	Triangular?	777.6	-	120	70	25/ 11/ -	Incomplete. Worn	Central section survives. Relatively carefully finished. Point marks survive on base of perf and on one external face

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2013	P2200 2	3	Uncertain	221.3	-	-	-	25/ 12/ -	Incomplete. Worn	Top section survives. Perf interior worn smooth. Above perf on one side, shallow wide channel has been worn 10 mm wide
NI	2014	P2200 2	3	Uncertain	105.4	-	-	-	-/ -/ -	Incomplete	Small fragment of worked chalk, probably representing a weight
NI	2015	P2200 2	3	Uncertain	173.5	-	-	-	22/ -/ -	Incomplete	Fragment of top of stone. Three vertical wear grooves above one side of perf. Central groove, 5 mm wide, is deepest
NI	2016	P2200 2	3	Uncertain	99.3	-	-	-	-/ -/ -	Incomplete	Two small fragments of worked chalk, probably from a weight
NI	2031	P2200 3	3	Uncertain	272.6	-	89	61	22/ 14/ 21	Incomplete	Top section survives. Top of perf worn smooth. On one side, double wear grooves above perf 2-4 cm wide, 5 mm apart. Between these grooves, above perf, another perf had been partially cut to a depth of 15 mm and abandoned
NI	2032	P2200 3	3	Uncertain	305.0	-	-	-	-/ -/ -	Incomplete	Irregular fragment with small area of original face surviving
NI	2033	P2200 3	3	Uncertain	60.9	-	-	-	-/ -/ -	Incomplete	Small fragment of (?)weight with only small area of original face surviving
NI	2034	P2200 3	3	Uncertain	140.6	-	-	68	-/ -/ -	Incomplete	Small fragment with part of three faces surviving
NI	2037	P2248 8	7	?Triangular	941.7	150	90	7.5	15/ 10/ 15	Incomplete. Worn and burnt	Base, top and one side missing. Irregularly shaped. Small perf imperfectly meeting from two sides. Wide gouge marks on base of perf. Another perf partially cut 15 mm below top of stone

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2041	Layer 905	7	Uncertain	422.8	-	-	90	35/ 07/ -	Incomplete	Base and one side missing. Neatly cut and worn perf. No toolmarks visible within. Two wear grooves above perf on one side, one 3 mm wide, one indeterminate
NI	2042	Layer 905	7	Roughly ovoid	1260.0	-	80	130	25/ 18/ -	Incomplete. Worn	Top missing. Carefully shaped. Perf worn to hourglass shape. Second perf partially cut into centre of stone
NI	2043	Layer 905	7	Irregular	1325.2	195	110	110	35/ 16/ 30	Near complete. Very worn	Irregular block of chalk, little modified apart from perf which is cut neatly from two sides. Faint gouge marks on base of perf and single faint wear groove above perf on each side
NI	2060	P2119 3	6/7	Roughly triangular	1789.1	210	78	170	-/ -/ -	Incomplete. Worn	Base and part of top missing. Originally carefully shaped. Faint gouge mark on base of perf. Near base, second perf partly cut with gouge 30 mm deep
NI	2061	P2119 3	6/7	Elongated pyramidal	2022.0	240	120	135	34/ 25/ 37	Complete? Worn	Crudely shaped and finished. Faint wide gouge marks on base of perf. Shallow double wear groove above perf on one side, general wear mark on other. Modern washing has obscured possible toolmarks on surfaces
NI	2086	P2204 2	6	Flattened oval	928.4	190	70	100	28/ 25/ 35	Near complete. Very worn	Carefully shaped and finished. Faint point and gouge marks on base and on side of perf which is otherwise worn smooth. Triple wear groove above perf on one side, each 4 mm wide
NI	2087	P2200 2	3	Uncertain	697.6	-	-	-	-/ -/ -	Incomplete	Fourteen fragments. Faint gouge marks along one length of perf. Animal claw marks

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2089	P1982 7	7	?Triangular	2080.0	190	100	140	27/ 12/ -	Incomplete	Apex and one basal corner missing. Ancient damage has obscured what may have been a carefully shaped triangular weight. Diagonal toolmarks on one frontal face. Interior of perf worn smooth
NI	2157	Layer 1224	7	Roughly cylindrical?	805.0	-	93	72	21/ 18 -	Incomplete. Fairly worn	Top and base missing. Surface carefully pecked to shape with tool 2-3 mm wide at tip. Perf appears to have been cut from one side only. Gouge marks 2-5 mm wide on sides and base of perf
NI	2172	Layer 1234	7	Roughly triangular	185.0	-	-	70	25/ 20/ -	Incomplete. Very worn	Part of top survives. Carefully shaped with rounded top. Inner surfaces of perf worn fairly smooth. Faint trace of double wear groove 2 mm wide above perf on one side
NI	2177	P2353 8	7	Pear-shaped	825.0	-	-	95	-/ -/ -	Incomplete. Worn	Top and base broken. One side smoothed or worn, the other crudely shaped. Faint trace of point or gouge visible along surface of perf
NI	2195	P2346 8	7/8	Triangular?	205.0	-	-	55	15/ 15/ 20	Incomplete	Top survives. Carefully shaped. Perf imperfectly cut from two sides producing a ragged interior. Clear gouge marks 4-5 mm wide along perf
NI	2196	P2346 7	7/8	Roughly triangular	570.0	-	105	-	20x25/ 12/ -	Incomplete	Only broken middle section survives. Frontal face slightly curved but carefully finished. Clear toolmark 2-3 mm wide on base of perf which is neatly cut and smoothed or worn
NI	2197	P2346 7	7/8	Uncertain	405.0	-	-	-	-/ -/ -	Incomplete	Small fragment with little surface area surviving. Deep gouge marks on base of crudely cut perf which has been cut from both sides

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2289	P2446 1	7	Uncertain	1275.0	-	-	-	-/ -/ -	Incomplete. Very worn. Washed	Large block of chalk with 'pecked' surfaces. Three worn channels on broken surface, one of which may represent a perf
NI	2297	P2435 3	7/8	Uncertain	130.0	-	-	-	-/ 18/ -	Incomplete. Worn	Small fragment. Deep gouge mark, somewhat abraded, on surface of perf
NI	2458	P2550 2	7	Uncertain	160.0	-	-	-	19/ 14/ -	Incomplete. Worn. Burnt	Top survives. Faint tool-marks 2 mm wide on sides of perf. Top of perf worn smooth. Double wear groove above perf on one side, 4 mm wide, 24 mm long
NI	2470	P2534 8	7	Uncertain	2080.0	-	-	-	-/ -/ -	Incomplete. Burnt	Modified block of burnt chalk plus 20+ fragments. No recognizable shape. No perf. Possibly a roughout for a weight
NI	2471	P2534 8	7	Uncertain	785.0	-	-	84	-/ -/ -	Incomplete. Very worn. Burnt	Middle section survives. Surviving surface worn (or washed?) No toolmarks
NI	2487	P2545 5	7	Uncertain	210.0	-	-	45	-/ -/ -	Incomplete. Worn and burnt	Top section extant. Care-fully pecked to shape. Burnt to grey colour
NI	2492	Layer 1535	7	Flat pear-shaped	1010.0	-	93	65	-/ -/ -	Incomplete. Very worn	Top and one face missing. Surfaces pecked to shape. Toolmarks 7 mm wide on base of otherwise worn perf. Deep pick or gouge mark 13 mm wide on one face may be deliberate damage
NI	2502	Ph 9866 2	6/7	Roughly pyramidal?	460.0	-	-	71	24/ -/ -	Incomplete. Very worn	Three joining fragments representing part of apex and middle section. Care-fully finished but worn. Two faint, shallow wear marks above perf on one side 7 mm wide
NI	2513	P2534 8	7	Sub-rectangular?	1460.0	-	110	78	16x25/ 15/ -	Incomplete. Battered, worn	Top and basal corners miss-ing. Surviving surfaces well finished showing no toolmarks. Interior of perf worn or tooled smooth

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2514	P2534 8	7	Uncertain	470.0	-	-	72	-/ -/ -	Incomplete. Worn	Half of middle section extant. Faint toolmarks running the surviving length of perf base. *Possibly part of SF 2514, 2516, 2517
NI	2515	P2534 8	7	Uncertain	430.0	-	-	-	-/ -/ -	Incomplete. Worn	Small fragment. Outer surface appears to have been carefully shaped
NI	2516	P2534 8	7	Flat pear-shaped?	290.0	-	-	-	-/ 14/ -	Incomplete. Very worn	Carefully shaped. Top of perf worn smooth. Faint wear groove 2 mm wide above perf on one side and wear groove 7 mm wide on other side showing four clear strand marks. *Possibly part of SF 2514, 2517
NI	2517	P2534 8	7	Uncertain	355.0	-	-	-	-/ -/ -	Incomplete	Small fragment of lower section extant. Originally carefully finished. Perf worn smooth. *Part of SF 2514, 2516
NI	2574	P2570 4	6/7	Uncertain	400.0	-	-	-	-/ 18/ -	Incomplete. Worn and burnt	Two fragments, non-joining. One fragment may not be part of a weight although it shows traces of a perf. Other fragment preserves section of perf worn smooth with very faint toolmarks
NI	2584	Layer 1689	7	Pyramidal or sub-triangular	385.0	-	75	-	18/ 18/ -	Incomplete	Middle section extant. Surviving frontal face neatly shaped showing traces of tool 2-3 mm wide. Perf shows traces of similar wider tool up to 5 mm wide, but is fairly worn
NI	2586	P2575 8	7	Uncertain	210.0	-	-	-	-/ 18/ -	Incomplete. Worn. Washed	Top section with perf. Three small, joining fragments. Interior of perf has been scrubbed, obscuring toolmarks. Possibly a natural block of chalk with solution hole

Publ No	SF No	Context	Cp	Shape	Weight (g)	Height (mm)	Width (mm)	Lateral width (mm)	Dia Perf (mm)	Condition	Special features/Toolmarks/ Comments
NI	2605	Layer 1856	7	Triangular or pyramidal	160.0	-	-	-	-/ 15/ -	Incomplete. Very worn and burnt	Fragment of top extant. Carefully shaped. Much of surface worn or polished smooth. Perf evenly cut and worn smooth with rub marks above.

Chalk spindle whorls and small discs

Publ no	SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Weight gm	Parameter	Class	Comments/tool marks
8.150	1704	Ph 7781 layer 1	-	46-49	32	8-11	64	3136	1	Spindle whorl. Sub-spherical shape, made from harder lower chalk (marl). Off centre circular perforation, slightly countersunk from one side. Apparently smoothed surface now very weathered.
8.151	2750	F356 layer 2	4	44	33	6	84	3696	1	Spindle whorl. Made from harder lower chalk (marl). Sub-spherical shape. Slightly off centre straight-sided circular perforation. A circular indentation close to the perforation on one face indicates a repositioning of the perforation during manufacture. Surfaces smoothed and exhibiting slight polish in places. Slightly burnt.
8.152	1928	layer 838	7	48-50	27	7-10	68	3400	1	Spindle whorl. Near circular sub-square cross section. Centrally placed circular perforation, slightly countersunk from one side. Smooth overall surface finish, one or two small cut marks visible. Burnt.
8.153	2692	layer 1941	7	42	29	8x10	44 incomplete		1	Spindle whorl. Roughly circular, sub-square cross section. Apparently centrally placed straight-sided somewhat oval perforation. Score marks visible running longitudinally through the perforation. Slightly faceted, smoothed surface. Burnt.
8.154	1654	P1548 layer 8	3	29-31	18	6-7	15	465	2	Spindle whorl. Circular with a sub-rectangular cross section. Centrally placed circular perforation with straight sides. Circular depression close to the perforation on one face may indicate a repositioning of the perforation during manufacture. Smoothed surface now somewhat weathered. One or two knife score marks visible.

Publ no	SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Weight gm	Parameter	Class	Comments/tool marks
8.155	2409	P2507 layer 1	3	33-35	18	5-6	18	630	2	Spindle whorl. Roughly circular with sub-rectangular cross section. Slightly off centre straight-sided circular perforation. Somewhat faceted smoothed surfaces, weathered. Slightly burnt.
8.156	2567	layer 1681	7	43-46	24-26	10	54	2484	2	Spindle whorl. Near circular, sub-rectangular cross section. Slightly off centre, roughly circular straight-sided perforation. Smoothed surfaces, slightly burnt.
8.157	2759	layer 2005	3	42	26	6-13	30	1260	2	Spindle whorl. Sub-circular in shape and sub-rectangular in cross section. Centrally placed circular perforation, countersunk from both sides. Very battered, uneven surface possibly due to weathering. Faint concentric wear marks visible within perforation.
8.158	2478	Ph 9826 layer 2	-	34-40	22	5-14	24	960	2	Spindle whorl. Sub-circular in shape with a sub-rectangular cross section. Off centre oval-shaped perforation, countersunk from both sides. Very uneven surfaces. Faint concentric wear marks within perforation. Weathered.
8.159	1977	P2256 layer 8	7	35-36	17	6-11	20	720	2	Spindle whorl. Roughly circular shape, sub-rectangular cross section. Slightly off centre circular perforation, countersunk from both sides. Roughly smoothed surfaces.
8.160	2427	layer 1562	7	42	17	7-11	28	1176	2	Spindle whorl. Circular and disc-like. Centrally placed circular perforation, slightly countersunk from both sides. Roughly smoothed with knife scores visible on surfaces and within perforation.
8.161	1935	P2261 layer 1	8	34-35	16	4-7	20	700	2	Spindle whorl. Circular and disc-like. Slightly off centre circular perforation, slightly countersunk from both sides. Smoothed surfaces, one or two knife score marks visible. Burnt.

Publ no	SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Weight gm	Parameter	Class	Comments/tool marks
8.162	2775	layer 1997	4		14	3-5	10 incomplete		2	Spindle whorl. Now incomplete, but apparently roughly circular and disc-like. Apparently centrally placed, straight-sided, small irregularly-shaped perforation. Smoothed surfaces and broken edges very worn, possibly used after breakage.
8.163	2466	P2531 layer 2	6	55	22	5-11	48 incomplete		2	Spindle whorl. Now incomplete but apparently roughly circular disc-like whorl. Off centre roughly circular perforation, countersunk from both sides and running in a slightly diagonal manner through the whorl. Somewhat uneven surfaces, roughly smoothed with knife cuts visible. Score marks visible within perforation.
8.164	2190	P2346 layer 7	7	c.56	23	11-19	53 incomplete		2	Spindle whorl. Roughly circular disc-like whorl. Notably large centrally placed circular perforation, countersunk from both sides. Uneven surfaces with knife cuts visible. Somewhat worn appearance. Concentric striations within perforation.
8.165	2143	layer 1257	7	45-48	18	6-12	46	2208	2	Spindle whorl. Near circular disc-like whorl. Centrally placed circular perforation, countersunk from both sides. Roughly smoothed surfaces with knife scores still visible. Score marks also noted running longitudinally through the perforation.
8.166	2780	layer 2048	3	68-70	24	10-21	94	6580		Spindle whorl/small disc. Roughly circular and disc-like. Centrally placed circular perforation, countersunk from both sides. Uneven surfaces with many knife score marks, and parallel striations possibly made by a small gouge-like tool. Concentric wear striations noted within the perforation.

Publ no	SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Weight gm	Parameter	Class	Comments/tool marks
8.167	1986	P2256 layer 10	7	59-64	24-27	12-23	82	5248		Spindle whorl/small disc. Near circular, disc-like whorl. Large centrally placed roughly circular perforation, countersunk from both sides. Smoothed but somewhat uneven surfaces, knife cuts visible. Short deep score marks concentric with the perforation on both sides. Rather worn appearance.
8.168	2617	P2579 layer 4	7	61-65	25	11-15	86	5590		Spindle whorl/small disc. Roughly circular, disc-like. Off centre roughly circular perforation, slightly countersunk from both sides and runring in a slightly diagonal manner through the whorl. Roughly finished surface, knife scores visible. Weathered, particularly around the edge.
8.169	2762	layer 1997	4	70-72	25	11-22	112	8064	3 large	Spindle whorl/small disc. Roughly circular and disc-like. Centrally placed circular perforation, countersunk from both sides. Weathered/pitted surface, a few knife score marks visible. Concentric striations noted within the perforation.
8.170	2048	layer 920	4	66	17-27	15-20	52 incomplete		3 large	Spindle whorl/small disc. Roughly circular and disc-like. Off centre circular perforation, slightly countersunk from both sides. Smoothed surfaces now somewhat weathered. One or two short knife scores visible.
8.171	1830	P1978 layer 1	6	80	19	12-17	62 incomplete		3 large	Spindle whorl/small disc. Only half remains, but apparently circular and disc-like. Off centre roughly circular perforation, countersunk from both sides. Smoothed surfaces, one or two knife scores visible. Longitudinal score mark through perforation. Worn appearance.

Chalk discs - mostly perforated

Publ no	SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Indent diam mm	Weight qm	Comments/tool marks
8.172	2148	Ph 9007 layer 1	-	82-84	32		7	210	Disc. Roughly circular disc. Unpierced but a slightly off centre small circular indentation on one face indicates the very beginnings of a perforation. Roughly smoothed surfaces, knife score marks visible. Weathered.
8.173	2781	Ph 10090 layer 4	3	111	41			385	Disc. Roughly circular unpierced disc. Roughly shaped with evidence for the beginnings of a perforation on one face.
8.174	2410	layer 1512	7	87-89	35	12-22		230	Disc. Large circular disc apparently unfinished as there is no smoothing of surfaces or rounding of edges and knife score marks are very visible particularly in the rough countersinking of the centrally placed roughly circular perforation. Width score marks 1-3 mm.
8.175	1931	layer 851	7	119-24	41	27-39		515	Disc. Large roughly circular disc. Off centre, large, somewhat oval perforation. Slightly countersunk from both sides. Knife score marks noted all over surfaces which are only roughly finished. A few score marks noted running through perforation. Weathered.
8.176	1806	P2016 layer 8	7	109-13	46	19-29	7	490	Disc. Large roughly circular disc. Approx. centrally placed circular perforation, countersunk from both sides. Two small circular indentations noted on opposing sides of and roughly equidistant from the perforation. Smoothed surfaces. One or two knife scores visible. Score marks run through the perforation.

Publ no	SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Indent diam mm	Weight gm	Comments/tool marks
8.177	1746	P1843 layer 1	3		24			112	Disc. Fragment from a roughly circular disc. Evidence for an apparently circular perforation, very slightly countersunk from both sides. Smoothed surfaces, one or two faint knife scores visible. Faint score marks running through perforation.
8.178	1507	P1207 layer 2	7	108-18	36	14-25		440	Disc. Sub-circular shaped disc. Off centre roughly circular perforation, slightly countersunk from both sides. Very roughly chopped surfaces, knife scores visible. Faint score marks running through perforation.
8.179	1940	layer 868	7	66-73	37	14-19		150	?Disc. Sub-circular in shape, relatively thick cross section with a somewhat unfinished appearance. Off centre circular perforation running somewhat diagonally through the disc. Notable score marks running from the perforation to the edge on both sides suggest suspension by a thread and possible use as a weight. Very weathered.

Small chalk artefacts - whorls, discs: not illustrated

SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Weight gm	Comments/tool marks
1527	Ph 4816 layer 1	-		29		44	Disc. Small fragment from a relatively small apparently circular disc. Evidence for a circular perforation, countersunk from both sides. Roughly finished surfaces.
1709	P1790 layer 7	7	c.109	32	14-26	275	Disc. Incomplete large roughly circular disc. Apparently centrally placed circular perforation, countersunk from both sides. Concentric striations noted within perforation. Roughly finished surfaces, knife scores visible. Very weathered.
1831	P2115 layer 2	7	79	46		120	?Disc/whorl. Unfinished disc or whorl. Half remains, evidence for a roughly tooled perforation. Sub-rectangular cross section. Very roughly chopped surfaces.
1907	layer 803	3		29		105	Disc. Fragment from an apparently roughly circular disc. Apparently circular perforation, countersunk from both sides. Faces smoothed and rounded. Weathered.
1971	P?269 layer 9	7		27		78	Disc. Small fragment from the edge of an apparently circular disc. Roughly finished surface. Knife score marks visible. Weathered.
1973	P2271 layer 9	7		44		175 incomplete	Disc fragment. Small edge fragment from a large apparently circular disc. Roughly finished surfaces with knife cuts visible.
2431	P2534 layer 7/8	7				30 total	Worked fragments (?spindle whorl). Several small fragments with smoothed surfaces evident. One fragment shows evidence for a small circular perforation and probably comes from a spindle whorl.
2489	P2509 layer 3	3		22	14-20	140	Disc. Incomplete roughly circular disc. Circular perforation countersunk slightly from both sides. Roughly smoothed surfaces; knife score marks visible. Broken and weathered.

SF no	Context	cp	Diam mm	Depth mm	Perf diam mm	Weight gm	Comments/tool marks
2581	P2563 layer 4	7	c.110	44	17-26	275	Disc. Half of an apparently roughly circular disc. Relatively small circular perforation which is very slightly countersunk from both sides. Roughly finished surfaces, knife cuts visible. Faint striations running through the perforation. Weathered.
2815	layer 983	7		20-31	12-23	86	Disc. About half of an irregularly-shaped disc. Circular perforation, countersunk from both sides. Roughly chopped surfaces, weathered.
2816	layer 1027	3				24	?Disc/whorl. Small fragment of worked chalk. Evidence for a circular perforation countersunk from both sides. Probably from a spindle whorl or disc.

Chalk marl discs

SF no.	Context	cp	Diam. mm	Depth mm	Diam. Perf. mm	Weight gm	Comments/tool marks
1733	P1820 layer 3	7	c.340 (est.)	95-114	80 (est.)	c.5000 (incomplete)	Marl disc. Five joining fragments from a large thick circular disc. Perforated in the centre. Smoothed outer edge. Roughly smoothed faces, one with a raised area around the perforation. Burnt, most noticeably on surface with raised area. Scored tool marks noted within perforation.
1741	P1687 layer 3	8		32-38		550 (incomplete)	Marl disc. Two joining fragments from the outer edge of a large apparently circular flat disc. Smoothed surface on one side; smoothed convex edge; more roughly finished on the opposing face. Burnt, most noticeably on rough surface.
1786	P2121 layer 3	7		90		1820 (incomplete)	Marl disc. Fragment from a large thick circular marl disc, similar to object no. 1733. Evidence of a central hole, which in this example does not apparently totally pierce the disc. One face and the outer curved edge smoothly finished, the opposing face is roughly chopped. Burnt, most noticeably on the smoother face. Hole is from the roughly chopped face. Pecked-type tool marks noted within hole.
2169	P2353 layer 6	7	c.185	15-30		410 (incomplete)	Marl disc. Two joining fragments from a large, flat relatively thin chalk marl disc. One extremely well finished/smoothed surface. The opposing surface more roughly finished. Burnt.
2304	P2435 layer 1	7/8				190 (incomplete)	Marl disc. Curved edge fragment from a flat circular disc. Smoothed outer edge and one relatively smooth flat face survive. No dimensions. Burnt.
2391	P2535 layer 3	7				c.230 (incomplete)	Marl fragments - ?disc. A number of laminated chalk marl fragments, many showing evidence for a smoothed curving edge. Probably from a chalk marl disc. Burnt.
2479	layer 1535	7		26		165	Marl disc. Small fragment of chalk marl disc. One curved edge is highly smoothed. Burnt, weathered, and laminated.

SF no.	Context	cp	Diam. mm	Depth mm	Diam. Perf. mm	Weight gm	Comments/tool marks
2606	P2572 layer 4	7		95		1155 (incomplete)	Marl disc. Edge fragment from a large thick circular disc. Smoothly finished outer curving edge, one relatively smooth flat surface. Opposing surface damaged. Burnt, most noticeably on the complete surface. Slight evidence for a central hole.
2817	P1350 layer 8	7		31		355 (incomplete)	Marl ?disc. Large flat fragment of chalk marl. Some evidence for working on a small piece of curved, smoothed edge. Probably from a marl disc. Burnt and weathered.
2853	P1475	5				48	Marl disc. Three small fragments. The largest has a very slightly curving smoothed outer edge and one roughly smoothed surface surviving. No dimensions. Burnt.
2854	layer 716	7				130	Marl disc. Five small fragments, some joining from a flat circular disc. Smoothed curving outer edge and one flat smoothed surface surviving. No dimensions. Burnt.
2855	P2032 layer 3	7				220 (incomplete)	Marl disc. Edge fragment of flat circular disc. One roughly chopped face and a smoothly finished curving edge surviving. No dimensions. Slightly burnt.
2856	P2047 layer 1	7				60 (incomplete)	Marl disc. Small fragment displaying curving smoothed edge of a flat circular disc. No dimensions. Burnt.
2857	P2032 layer 3	7				60	Marl disc. Small edge fragment from a flat circular disc, smoothed outer curving edge only. No dimensions. Burnt.
2858	P1579 layer 1	8				24 (incomplete)	Marl disc. Small fragment displaying curved edge of a flat circular disc. No dimensions. Burnt.
2859	layer 720	7				150 (incomplete)	Marl disc. Three fragments, two joining, from a flat circular disc. Smoothed flat surface and part of curved edge survives. No dimensions. Burnt.
2860	layer 602	1-3				18 (incomplete)	Marl disc. Small fragment showing worked curved edge. Burnt. No dimensions.

Miscellaneous worked chalk and marl objects and fragments

8.180 2468 (DA86 P2534 layer 7) cp 7

Hollowed object. Oval-shaped, sub-rectangular sectioned chalk object with a roughly circular hollowed area on one face. Roughly chopped faces but relatively smooth within hollow. Burnt. Length: 55 mm. Width: 38 mm. Depth: 32 mm. Hollow: (diam) 20-22 mm, (depth) 14 mm. Wt: 54 gm.

8.181 1853 (DA82 P1981 layer 5) cp 7

Hollowed object. Flattish, somewhat disc-like chalk fragment but notably convex on one face and concave on the opposing face. The concave face has roughly at the centre a circular hollowed area. Surfaces are roughly smoothed; visible knife score marks. Very smooth within hollow. Length: 79 mm. Width: 64 mm. Depth: 13-30 mm. Hollow: (diam) 14 mm, (depth) 8 mm. Wt: 96 gm.

8.182 1840 (DA82 P2115 layer 4) cp 7

Hollowed object. Roughly chopped small irregular block of chalk. One flat face quite significantly hollowed. Hollowed face shows parallel striations as though a serrated edge was used to dig out the chalk. Weathered. Length: 76 mm. Width: 36-66 mm. Depth: 48 mm. Hollow: (diam) 37-43 mm, (depth) 15 mm. Wt: 200 gm.

8.183 2763 (DA88 layer 1997) cp 4

Hollowed object. Roughly circular in shape with a sub-rectangular cross section. One face significantly hollowed. Surfaces roughly smoothed. Notably high amount of knife score marks even within hollowing. Notably similar to object 8.67 as illustrated in Vol. 2. Diam: 71-74 mm. Depth: 40-46 mm. Hollow: (diam) 47-50 mm, (depth) 22 mm. Wt: 225 gm.

8.184 2018 (DA83 P2206 layer 4) cp 6

Hollowed object. Roughly oval-shaped block of chalk. Significantly hollowed on one face. Roughly chopped surfaces with many knife score marks visible. Weathered. Length: c. 185 mm. Width: 75-125 mm. Depth: 50-76 mm. Hollow: (length) c. 130 mm, (width) 82 mm, (depth) 31 mm. Wt: 1295 gm.

8.185 1510 (DA79 P1161 layer 9) cp 7

Pierced object. Oval-shaped, sub-rectangular sectioned object. Two roughly oval perforations placed along the long axis, one close to one end. Smoothed surfaces. Faint transverse striations run through both perforations. Notably similar to object 8.68 as illustrated in Vol. 2. Length: 88 mm. Width: 59 mm. Depth: 33 mm. Perforations: (length) 22 mm, (width) 18 mm. Wt: 140 gm.

8.186 1692 (DA81 P1638 layer 3) -

Disc. Small flat unpierced disc. Roughly smoothed surfaces with knife score marks visible. Marked on one face by a cross formed by two deeply incised score marks. Diam: 66-68 mm. Depth: 9-20 mm. Wt: 78 gm.

8.187 1932 (DA83 layer 851) cp 3

Disc. Small flat unperforated disc. Roughly smoothed surfaces with many knife score marks visible. Diam: 64 mm. Depth: 17 mm. Wt: (incomplete) 50 gm.

8.188 2818 (DA82 P2066 layer 3) cp 7

Ball. Sub-spherical piece of chalk, roughly chopped into shape. Tool marks abundant. Some wear/smoothing possibly due to weathering. Diam: 65-84 mm. Wt: 280 gm.

8.189 2679 (DA88 P2590 layer 3) cp 3

Object. Elongated, carefully shaped block of chalk (?marl). Pear shaped in cross section at one end, narrowing and becoming more circular in section at the other end. Smoothed surfaces, some tool marks visible. Length: 160 mm. Wt: 885 gm.

Not illustrated:

2406 (DA86 P2493 layer 3) cp 4

Incised block. Small irregular-shaped block of chalk, slightly hollowed on one side with several possibly deliberate deep score marks, three of which are parallel. Wt: 270 m.

2575 (DA87 P2563 layer 3) cp 5

Worked fragment. Small fragment of chalk, very weathered. One broken face has evidence of a small straight-sided circular perforation running through the fragment. One face has two circular indentations very close together, possibly an abandoned perforation. Perforation diam: 8 mm. Wt: 20 gm.

2587 (DA87 P2563 layer 3) cp 5

?Hollowed object. Fragment with one curving edge, presumably originally circular or oval in shape. Flat and smooth on one face. Roughly hollowed on the opposing face. Depth: 17-19 mm. Wt: 38 gm.

2861 (DA84 P2346 layer 8) cp 8

Worked fragments. Chalk marl; three fragments, the largest with a clearly smoothed/worked face, form unclear. No dimensions. Wt: 62 gm.

2862 (DA85 P2435 layer 6) cp 8

Worked fragment. Chalk marl; worked convex outer face, form unclear. No dimensions. Wt: 150 gm.

2863 (DA83 P2254 layer 8) cp 7

Worked fragments. Chalk marl; several (6) joining fragments apparently worked. Form unclear. No dimensions. Wt: 210 gm.

Index

7 Material remains (cont)

7.1 Small finds (cont)

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Summary list of Copper alloy objects

Rapier	1.88	2636	surface	-
La Tène I brooch	1.89	2127	surface	-
La Tène II brooch	1.90	2565	P2570 layer 2	cp 7
	1.91 (number not used)			
Brooch pin	1.92	2276	P2435 layer 5	cp 7
Finger ring	1.93	1939	layer 868	cp 7
Ornamental disc	1.94	2717	layer 1993	cp 7
Rein ring	1.95	1945	P2261 layer 7	cp 7
Terret rings	1.96	1946	P2261 layer 6	cp 7
	1.97	1666	P1579 layer 15	cp 8
	1.98	1947	P2261 layer 6	cp 7
	1.99	2393	layer 1507	cp 7
Decorated attachments	1.100	1711	P1900 layer 7	cp 7
	1.101	2136	layer 1207	cp 7
	1.102	2338	P2435 layer 5	cp 7
	1.103	2158	layer 1234	cp 7
Binding strips	1.104	2201	layer 1369	cp 5
	1.105	2405	layer 1530	cp 7
	1.106	2257	G294 layer 1	cp 7
	1.107	2467/2435	P2552 layer 1	cp 3
	not illust.	1871	P2121 layer 1	cp 7
		1955	layer 869	cp 7
Sheet	1.108	2443	layer 1567	cp 7
	1.109	1858	P1981 layer 9	cp 7
	1.110	2306	P2435 layer 6	cp 7
	1.111	2609	P2579 layer 4	cp 7
	1.112	1528	ph 3939 layer 1	-
	1.113	2265	P2444 layer 6	cp 7
	1.114	2672	layer 1933	
	not illust.	1751	P1224 layer 12	cp 7
		1782	layer 725	cp 7
		1783	layer 725	cp 7
		1785	layer 725	cp 7
		1794	layer 725	cp 7
		1925	unstratified	-
		1936	P2261 layer 1	cp 7
		1954	P2261 layer 1	cp 7/8
		1970	P2261 layer 3	cp 7
		1972	P2261 layer 6	cp 7
		1978	P2271 layer 13	cp 7
		1980	P2261 layer 11	cp 7

		1982	P2261 layer 11	cp 7
		2266	P2443 layer 1	cp 7
		2261	P2444 layer 6	cp 7
		2296	P2435 layer 3	cp 7
		2320	P2435 layer 5	cp 7
		2422	layer 1560	cp 7
		2429	layer 1567	cp 7
		2434	layer 1567	cp 7
		2438	layer 1567	cp 7
		2440	layer 1567	cp 7
		2441	layer 1567	cp 7
		2442	layer 1567	cp 7
		2444	layer 1567	cp 7
		2445	layer 1567	cp 7
		2446	layer 1567	cp 7
		2448	layer 1567	cp 7
		2453	layer 1567	cp 7
		2459	layer 1567	cp 7
		2461	layer 1567	cp 7
		2462	layer 1567	cp 7
		2482	P2531 layer 5	cp 6
		2599	P2572	cp 7
		2707	layer 1963	cp 7
		2711	layer 1965	cp 7
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		2745	G330 layer 1	cp 6
		2746	layer 2012	cp 3
		2751	G330 layer 1	cp 6
		2773	ph 10118 layer 2	cp 3
		2779	ph 10123 layer 3	-
		2819	P2575 layer 3	cp 7
Studs	1.115	2624	layer 1864	cp 7
	1.116	2390	ph 9778 layer 2	-
	1.117	1672	surface	-
	1.118	2302	P2435 layer 7	cp 7
Ring-headed pin	1.119	2480	layer 1604	-
Fitting	1.120	2450	layer 1567	cp 7
Pin	1.121	1512	surface	-
Needle	1.122	1976	P1983 layer 5	cp 6
Tube	1.123	2428	layer 1524	cp 7
Rod/tube	1.124	2294	P2435 layer 3	cp 7
Tube	1.125	2029	layer 851	cp 7
Cast fragment	1.126	2396	layer 1511	cp 7

Fragment	1.127	2269	P2435 layer 5	cp 7
Fragment	1.128	2258	layer 1459	cp 7
Pouch of filings	1.129	2639	layer 1990	cp 7
	Not illust.	1526	layer 592	cp 7
		2460	layer 1567	cp 7

The following items listed cannot now be traced:

Unidentified object	1747	P1900 layer 8	cp 7
?Slag	1779	layer 725	cp 7
Fragment of penannular	2259	P2434 layer 2	cp 7
Fragment of ring	1958	P2261 layer 7	cp 7

Copper alloy: illustrated

1.88 2636 (DA87 surface find)

Rapier. Detailed report in main text. Wt.: 20.10 gm.

1.89 2127 (DA84 surface find)

La Tène I brooch. Detailed report in main text. Wt: 8.30 gm.

1.90 2565 (DA87 P2570 layer 2) cp 7

La Tène II brooch. Detailed report in main text. Wt: 4.60 gm.

1.91 Number not used.

1.92 2276 (DA85 P2435 layer 5) cp 7

Brooch pin. Detailed report in main text. Wt: 0.30 gm.

1.93 1939 (DA83 layer 868) cp 7

Ring fragment. Curved strip fragment, ?ring. Flat outer surface, convex inner surface, producing a sub-rectangular cross section. Both ends are broken, one is thinner probably through wear. Diam: 18.5 mm. Width: 2.5 mm. Thickness: (max) 2 mm. Wt: 0.30 gm.

1.94 2717 (DA88 layer 1993) cp 7

Open work disc. Detailed report in main text. Diam: 59 mm. Thickness: 1-2 mm. Wt: 19.6 gm.

1.95 1945 (DA83 P2261 layer 7) cp 7

Rein ring. Detailed report in main text. Wt: 22.10 gm.

1.96 1946 (DA83 P2261 layer 6) cp 7

Terret. Detailed report in main text. Wt: 21.70 gm.

1.97 1666 (DA80 P1579 layer 1) cp 8

Terret. Detailed report in main text. Wt: 12.40 gm.

1.98 1947 (DA83 P2261 layer 6) cp 7

Terret. Detailed report in main text. Wt: 22.70 gm.

1.99 2393 (DA86 layer 1507) cp 7

Terret. Detailed report in main text. Wt: 9.00 gm.

1.100 1711 (DA81 P1900 layer 7) cp 7

Decorative attachment. Clasp. Detailed report in main text.

1.101 2136 (DA83 layer 1207) cp 7

Decorative attachment. A relatively thick strip of metal curving widthways into a 'U'-sectioned binding. Broken at one end, apparently complete at the other. A slightly raised lipped decoration, similar to that on terret fragment 1666. The object, inclusive of decoration, is probably cast and subsequently filed slightly to sharpen up the decorative shapes. Width: 8 mm. Depth: 7 mm. Thickness of sheet: 1.5 mm. Wt: 3.10 gm.

1.102 2338 (DA85 P2435 layer 5) cp 7

Decorative attachment. Distorted 'U'-sectioned binding. Decorated by a series of parallel evenly spaced incised lines bounded by two longitudinal incised lines. One end broken. Length: (incomplete) 24 mm. Diam: 8.5 mm. Thickness: 1.5 mm. Wt: 0.9 gm.

1.103 2158 (DA84 layer 1234) cp 7

Decorative attachment. Small irregular piece of sheet metal. Embossed dot decoration on one side. Roughly parallel lines of dots, in several groups running in different directions. Length: 12 mm. Width: 9 mm. Thickness: 1 mm. Wt: 0.20 gm.

1.104 2201 (DA84 layer 1369) cp 5

Binding. Three joining fragments from a piece of plain 'U'-sectioned binding. The binding is deliberately curved, ?mirror surround. Width: 4 mm. Depth: 6 mm. Thickness of sheet: 1 mm. Wt: 2.40 gm.

1.105 2405 (DA86 layer 1530) cp 7

Binding. A parallel-sided piece of sheet metal, neatly cut at each end. Curled to form a 'U'-sectioned binding. Length: 85 mm. Width: 6-8 mm. Depth: 4 mm. Wt: 2.90 gm.

1.106 2257 (DA86 G294 layer 1) cp 7

Binding strip. Narrow strip, slightly bent/shaped longitudinally parallel to the one complete edge. Both ends broken, cracked in several places and slightly bent across the centre. Length: 45.5 mm. Width: c. 5 mm. Thickness: c. 1.5 mm. Wt: 0.40 gm.

1.107 2467 (DA86 P2552 layer 1) cp 3

Binding strip fragments. Seventeen probably originally joining pieces of sheet metal. The three large pieces show the probable original form to be a wide strip of sheet metal with small circular rivet holes running close to the longitudinal sides. A small circular-sectioned rivet remains in situ through one of the rivet holes. Another unattached rivet is associated. There seems to be a slightly raised central midrib running along the longitudinal axis of the strip. Associated with small find 2435. Width: 16 mm. Thickness: 1 mm. Diam rivet holes: 1.5 mm. Wt: 3.80 gm.

1.107 2435 (DA86 P2552 layer 1) cp 3

Binding strip. A piece of sheet metal with two straight cut edges roughly parallel, forming a wide strip. The other two edges are broken and irregular. One possible small rivet hole. Associated with small find 2467. Thickness: 1 mm. Width: 17 mm. Wt: 0.80 gm.

1.108 2443 (DA86 layer 1567) cp 7

Sheet fragments. Two pieces of sheet metal, mostly irregular edges, but both have one edge which is relatively straight and possibly cut. Thickness: (max) 0.5 mm. Wt: 1.10 gm.

1.109 1858 (DA82 layer 9) cp 7

Sheet fragment. A sheet metal fragment with one complete edge. Two approximately parallel longitudinal grooves (16 mm apart), one close to the complete edge. The fragment is curved. Length: 24 mm. Width: 27 mm. Thickness: c. 1 mm. Wt: 1.60 gm.

1.110 2306 (DA85 P2435 layer 6) cp 7

Sheet fragments. Two pieces of sheet metal. The larger one is irregular in shape, the edges are roughly cut and the piece is folded in two. The other is a roughly cut strip folded over and crumpled at one end. Both are somewhat distorted. Length: (max) 43 mm, (min) 30 mm. Width: (max) 32 mm, (min) 5 mm. Thickness: (max) 2 mm, (min) 1 mm. Wt: (total) 2.00 gm.

1.111 2609 (DA87 P2579 layer 4) cp 7

Sheet fragments. Seven pieces of sheet metal, irregular, folded and crumpled. A small circular rivet hole is evident in one piece, a small flat circular rivet head adheres to another piece. Thickness: 0.5 mm. Diam rivet head: 3 mm. Wt: 1.70 gm.

1.112 1528 (DA79 Ph 3939 layer 1) u/p

Sheet. A roughly cut straight-sided strip of sheet metal folded into a flattened 'S' shape. One end rounded, the other squared. Slight indication of at least two pairs of punched dots towards the rounded end. The strip is somewhat distorted with cracking at the sides particularly at the folds. Length: (folded) 9.1 mm, (unfolded) 31 mm. Width: 12.5 mm. Thickness: 1 mm. Wt: 2.79 gm.

1.113 2265 (DA85 P2444 layer 6) cp 7

Sheet fragment. A large piece of sheet metal with straight cut edges folded over neatly several times to form a square compact piece. Two circular rivet holes noted on X-ray. Thickness: 0.5 mm. Wt: 43.50 gm.

1.114 2672 (DA88 layer 1933) cp 7

Folded sheet. Sheet of thin bronze metal folded over many times into a compact rectangular block. Nineteen plus small loose sheet fragments probably join. Metal thickness: 1 mm. Wt (inc. loose frags): 23.9 gm.

1.115 2624 (DA87 1869 K1119) cp 7

Stud/rivet (with sheet fragments). Two small fragments of sheet copper alloy and one fragment of iron sheet riveted together with a large slightly dome-headed rivet. Head and shaft of the rivet are both circular. Diam rivet head: 9 mm. Diam rivet shaft: 4 mm. Length rivet: 17 mm. Thickness of copper alloy sheet: 1 mm. Thickness of iron sheet: 3 mm. Wt: 4 gm.

1.116 2390 (DA86 Ph 9778 layer 2) cp 7

Stud. Dome headed; slightly flattened on the top. Circular-sectioned shaft bent over at the end. Organic material within domed head, ?leather. Head: (diam) 9 mm, (depth) 3 mm. Shaft: (diam) c. 2.5 mm. Wt: 0.80 gm.

1.117 1672 (DA81 unstratified)

Stud. Hollow, dome-headed stud with oval-sectioned shank, the end apparently hammered/filed flat. Head is slightly misshapen. Areas of dark staining around the shank are possibly of organic origin. Diam head: 8.5 mm. Diam shank: 3 x 4.5 mm. Length shank: 3 mm. Wt: 0.39 gm.

1.118 2302 (DA85 P2435 layer 7) cp 7

Disc. Circular piece of sheet metal with notched edge. Centrally pierced by a rivet, hammered over at both ends. X-ray shows incised line decoration on one side of the disc. Decoration is in the form of incised lines radiating from the centre and bordered by an incised concentric circle about 2 mm from the disc edge. Slightly domed/distorted around the rivet. Diam: 17 mm. Thickness: 2.5 mm. Rivet: (length) 6 mm. Wt: 1.10 gm.

1.119 2480 (DA86 layer 1604) u/p

Pin. Formed from a fine circular-sectioned rod tapering to a rounded pinched point at one end. A slight bend occurs at the other end which is broken across. Particularly fine surface finish survives. Precise function unknown. Surviving length: 49 mm. Diam: (min) 1.5 mm, (max) 3 mm. Wt: 2.50 gm.

1.120 2450 (DA86 layer 1567 K1101) cp 7

Fitting. Stylized horse head shaped. A small amount of probably associated wood within the hollow underside. Two small iron studs fix a separate strip of copper alloy in place on the upper surface. Width: (max) 12 mm, (min) 7 mm. Depth: (max) 11 mm, (min) 6 mm. Thickness of metal: 1-3.5 mm. Wt: 15.6 gm.

1.121 1512 (DA79 unstratified)

Pin. Disc-shaped head (formed from a two/three turn spiral of copper alloy wire), above a circular-sectioned shaft which tapers sharply to a point. The shaft has a series of short longitudinal grooves immediately below the head. Pin is slightly bent. Length: 35 mm. Diam head: 2.5 mm. Diam shaft: 1.5 mm (max). Wt: 0.28 gm.

1.122 (DA83 P1983 layer 5) cp 6

Needle. Oval eye in a flattened sub-rectangular sectioned head, above a shaft which tapers, and becomes gradually more circular sectioned, to a sharp point. Broken at the tip of the head, bent slightly in the eye area, resulting in cracking across the centre of the eye. The shaft is bent at 90 degrees, almost breaking it, and the point is curled round, almost touching the shaft. Both bends are in the same direction. XRF analysis: white metal on the surface of the object is tin. Length: (curled) 42 mm, (uncurled) c. 65 mm. Eye width: 2 mm. Eye length: 4 mm. Head width: (max) 4 mm. Av diam shaft: 2.5 mm. Wt: 1.20 gm.

1.123 2428 (DA86 layer 1524) cp 7

Tube. A piece of sheet metal rolled into a tapering tube, the narrow end forming an enclosed point. Slightly curved. Diam: 1-4 mm. Length: 56 mm. Wt: 1.30 gm.

1.124 2294 (DA85 P2435 layer 3) cp 7

Rod/tube. Two pieces, originally joining, of sheet metal, rolled into a small, slightly flattened tube. Much distorted. Length: (joined) 40 mm. Width: c. 3 mm. Wt: 0.60 gm.

1.125 2029 (DA83 layer 851) cp 7

Tube. A short piece of roughly 'U'-sectioned binding, broken at both ends. Distorted so that both ends touch in the centre, giving a pinched effect and resulting in some cracking. Length: 13 mm. Width: 4 mm. Thickness: c. 1 mm. Wt: 0.20 gm.

1.126 2396 (DA86 layer 1511) cp 7

Sheet object. Twenty-three small sheet fragments and one small amorphous nodule of metal. Mostly the sheet pieces are small, slightly bent, and have irregular broken edges. One piece however is larger and more precisely shaped/curved into a half bell-like shape. Width of shaped frag: (max) 17 mm, (min) 9 mm. Depth of shaped frag: 7 mm. Thickness of metal: 1-2 mm. Wt: 7.3 gm.

1.127 2269 (DA85 P2435 layer 5) cp 7

Fragment. Three irregular pieces of sheet metal, joining. One complete edge, apparently from around a moderately sized hole, is curled over. All other edges are broken, the metal has a very distorted uneven surface. Length: (max) 17.5 mm. Width: (max)

16.5 mm. Thickness: 1 mm. Estimated diam of hole: 16 mm. Wt: 0.30 gm.

1.128 2258 (DA85 layer 1459) cp 7

Fragment (copper alloy and iron). A thin sheet of copper alloy and a thin sheet of iron compressed together, broken into four fragments. Possible rivet hole noted in the copper alloy of the largest fragment. Possibly associated carbonized wood on one side of two pieces. Thickness: 2 mm. Wt: 2.70 gm.

1.129 2693 (DA88 layer 1990) cp 7

Pouch of filings. Detailed report in main text. Length: 37 mm. Width: (max) 37 mm. Thickness: (max) 26 mm. Wt: 45.3 gm.

Copper alloy: not illustrated

1526 (DA79 layer 592) cp 6/7

Fragments. Three indeterminate pieces of metal, one fused to a small piece of flint. No particular form apparent. Length: (max) 13 mm, (min) 5.5 mm. Width: (max) 6 mm, (min) 4 mm. Thickness: 1-2 mm. Wt: 0.29 gm.

1747 (DA81 P1900 layer 8) cp 7

Object. Artefact missing.

1751 (DA79 P1224 layer 12) cp 7

Sheet fragments. Six sheet metal fragments, various sizes, not apparently joining. Most edges broken, one or two apparently roughly cut. Several fragments slightly bent/curved. Length: (max) 23 mm, (min) 7 mm. Width: (max) 10 mm, (min) 6.5 mm. Thickness: 1 mm. Wt: 0.9 gm.

1779 (DA82 layer 725) cp 7

?Slag. Artefact missing.

1782 (DA82 layer 725) cp 7

Sheet fragment. Complete on one side only. Length: 9.5 mm. Thickness: c. 1 mm. Wt: 0.06 gm.

1783 (DA82 layer 725) cp 7

Sheet fragments. c. Twenty-three very small fragments of sheet metal, not apparently joining. Edges broken, one or two pieces slightly bent/curved. Length: (max) 6.5 mm. Width: (max) 4 mm. Thickness: 1 mm. Wt: 0.33 gm.

1785 (DA82 layer 725) cp 7

Sheet fragments. Seven small fragments of sheet metal, some apparently joining. Edges broken, one piece slightly curved. Length: (max) 7.5 mm. Width: (max) 5.5 mm. Thickness: 1 mm. Wt: 0.06 gm.

1794 (DA82 layer 725) cp 7

Sheet fragment. A sheet metal fragment, possibly complete on one side only. One or two possible punch marks. Length: 40 mm. Width: 28.5 mm. Thickness: 0.75 mm. Wt: 1.81 gm.

1871 (DA82 P2121 layer 1) cp 7

Binding. Curved, 'U'-sectioned binding. Broken at both ends, pinched together at one end. Parallel longitudinal striations seen on outer edge of the curve. Length: 53 mm. Diam: (external) 4 mm. Thickness: 1-1.5 mm. Wt: 2.33 gm.

1925 (DA83 unstratified)

Sheet fragments. Twenty sheet metal fragments, various sizes, apparently not joining. Edges broken, one or two pieces slightly bent/shaped. Length: (min) 5 mm, (max) 21 mm. Width: (min) 5 mm, (max) 16 mm. Thickness: c. 1 mm. Wt: 3.44 gm.

1936 (DA83 P2261 layer 1) cp 7

Sheet fragment. Small irregular piece of sheet metal, all edges broken. Length: 27.5 mm. Width: 19.5 mm. Thickness: c. 1.5 mm. Wt: 1.46 gm.

1954 (DA83 P2261 layer 1) cp 7

Sheet fragment. Small irregular piece of sheet metal. All edges broken, very slightly curved along one edge. Length: 28 mm. Width: 13 mm. Thickness: 1 mm. Wt: 0.80 gm.

1955 (DA83 layer 869) cp 7

Binding. A fragment of 'U'-sectioned binding; complete at one end, broken across the other. Stress at the point of fracture has pulled the binding from its original shape. Some fine striations, running longitudinally, occur on the outer surface, also some short diagonal scores are visible. A series of short, parallel lines, presumably tooling marks, are visible on the inner surface. Length: 48.5 mm. Width: (max) 9.5 mm, (min) 8 mm. Depth: 4 mm. Metal thickness: 1 mm.

1958 (DA83 P2261 layer 7) cp 7

Ring. A 'D'-shaped ring with an iron core and bronze sheath. The flat side of the 'D' is iron with no bronze cover and is badly corroded. The curved section is covered with sheet bronze with a seam visible along the inside and with the outer edge

ornamented by a raised strip of applied bronze with a regular, impressed, high-relief decoration. Length: (outer dimension) 50 mm, (inner dimension) 32 mm. Width: (outer dimension) 39 mm, (inner dimension) 24 mm. Wt: 30.80 gm.

1970 (DA83 P2261 layer 3) cp 7

Sheet fragment. Now sub-triangular piece of sheet metal, one slightly curving complete edge. The other edges are broken, one severing two possible rivet holes. Slight curvature/shaping in the region of the holes. Length: 38 mm. Width: 34 mm. Thickness: 1.5 mm. Diam rivet holes: c. 3 mm. Wt: 4.40 gm.

1972 (DA83 P2261 layer 6) cp 7

Sheet fragments. Two small pieces of sheet metal, not apparently joining. One has all edges broken, the other has one complete edge which seems to have been slightly hammered over. Length: (max) 9 mm. Width: (max) 7 mm. Thickness: less than 1 mm. Wt: 0.14 gm.

1978 (DA83 P2271 layer 13) cp 7

Sheet fragment. A relatively large but much crumpled and folded piece of sheet metal. Edges very irregular. Thickness: 1 mm. Wt: 8.70 gm.

1980 (DA83 P2261 layer 11) cp 7

Sheet fragments. c. One hundred and seventy-five fragments of sheet metal, various sizes. All edges are broken and a majority of pieces are slightly bent/distorted. Length: (max) 34 mm, (min) 3.5 mm. Width: (max) 19 mm, (min) 2 mm. Thickness: 1 mm. Wt: 19.50 gm.

1982 (DA83 P2261 layer 11) cp 7

Sheet fragments. Eight irregular pieces of sheet metal, various sizes, not apparently joining. Several pieces slightly bent/?shaped. Length: (max) 38 mm, (min) 11 mm. Width: (max) 24 mm, (min) 5 mm. Thickness: 0.5-1 mm. Wt: 2.80 gm.

2259 (DA85 P2434 layer 2) cp 7

Penannular. Artefact missing.

2266 (DA85 P2443 layer 1) cp 7

Sheet fragments. Three irregular pieces and two very small fragments, probably joining. Possible rivet hole severed by one of the edges, all edges are broken. Slightly bent/shaped? Length: 22.5 mm. Width: 21 mm. Diam hole: 1.5 mm. Thickness: 0.7 mm. Wt: 0.50 gm.

2267 (DA85 P2444 layer 6) cp 7

Sheet fragment. Sub-rectangular piece of sheet metal. Longitudinal edges complete and somewhat bent/shaped, one to a greater extent than the other to form slight uneven flanges. Surface has two shallow longitudinal ridges, possibly decorative. Both ends are broken and somewhat distorted. Length: 16 mm. Width: 11 mm. Thickness: 1 mm. Wt: 0.20 gm.

2296 (DA85 P2435 layer 3) cp 7

Sheet fragments. Four irregular fragments, not apparently joining, some edges apparently roughly cut. Possible rivet holes noted in two fragments. Bent/distorted. Thickness: 1 mm. Rivet holes: (diam) 3 mm. Wt: 4.8 gm.

2320 (DA85 P2435 layer 5) cp 7

Sheet fragments. Twenty small broken fragments, not apparently joining. One or two pieces bent/distorted. Thickness: 1 mm. Wt: (total) 0.70 gm.

2422 (DA86 layer 1560) cp 7

Sheet fragment. One very small irregular piece of sheet metal. Thickness: (max) 0.5 mm. Wt: 0.1 gm.

2429 (DA86 layer 1567) cp 7

Sheet fragments. Two small irregular fragments of sheet metal, one has a possible straight cut edge. Thickness: (max) 1 mm. Wt: 0.60 gm.

2434 (DA86 layer 1567) cp 7

Sheet fragments. Two small irregular fragments of sheet metal. Thickness: (max) 1 mm. Wt: 0.30 gm.

2438 (DA86 layer 1567) cp 7

Sheet fragments. Seven small irregular sheet metal fragments which may possibly join. Thickness: (max) 0.5 mm. Wt: 0.80 gm.

2440 (DA86 layer 1567) cp 7

Sheet fragments. Four small irregular sheet metal fragments. Thickness: (max) 1 mm. Wt: 0.60 gm.

2441 (DA86 layer 1567) cp 7

Sheet fragments. Three relatively small irregular fragments of sheet metal, not apparently joining. Thickness: (max) 1 mm. Wt: 0.50 gm.

2442 (DA86 layer 1567) cp 7

Sheet fragment. One very small fragment of sheet metal. Thickness: (max) 0.5 mm. Wt: 0.10 gm.

2444 (DA86 layer 1567) cp 7

Sheet fragments. Two small irregular fragments of sheet metal. Thickness: (max) 1 mm. Wt: 0.2 gm.

2445 (DA86 layer 1567) cp 7

Sheet fragment. One small irregular fragment of sheet metal. Thickness: (max) 1 mm. Wt: 0.1 gm.

2446 (DA86 layer 1567) cp 7

Sheet fragments. Two small irregular unjoining fragments of sheet metal. Thickness: (max) 1 mm. Wt: 0.3 gm.

2448 (DA86 layer 1567) cp 7

Sheet fragment. One small fragment of sheet metal. Organic material, ?wood fragments, adhering to one face, probably non-associated. Thickness: (max) 1 mm. Wt: 0.4 gm.

2453 (DA86 layer 1567) cp 7

Sheet fragment. One very small fragment of sheet metal. Thickness: (max) 0.5 mm. Wt: 0.10 gm.

2459 (DA86 layer 1567) cp 7

Sheet fragments. Two very small irregular pieces of sheet metal. Thickness: (max) 1 mm. Wt: 0.1 gm.

2460 (DA86 layer 1567) cp 7

Fragment. Crumpled indistinguishable fragment of metal, ?waste. Thickness: (max) 3 mm. Wt: 0.4 gm.

2461 (DA86 layer 1567) cp 7

Sheet fragments. Eight small fragments of sheet metal. Some adhering together. Thickness: (max) 0.5 mm. Wt: 1.10 gm.

2462 (DA86 layer 1567) cp 7

Sheet fragment. One relatively small irregular slightly curving piece of sheet metal. Thickness: (max) 0.5 mm. Wt: 0.40 gm.

2482 (DA86 P2531 layer 5) cp 6

Sheet fragment. One small irregular fragment of sheet metal. Thickness: (max) 1 mm. Wt: 0.20 gm.

2599 (DA87 P2572 layer 2) cp 7

Strip. Relatively wide strip of sheet metal. Cut across neatly at one end, the other end and part of one of the longitudinal cut edges broken away. Width: 13 mm. Thickness: 1 mm. Wt: 0.70 gm.

2707 (DA88 layer 1963) cp 7

Sheet fragments. Five small irregular fragments of sheet metal. Thickness: 0.5-1 mm. Wt: 0.4 gm.

2711 (DA88 layer 1965) cp 7

Sheet fragment. One moderately sized bent and curled sheet metal fragment. Thickness: 1 mm. Wt: 1.2 gm.

2719 (DA88 layer 1965) cp 7

Sheet fragment. Moderately sized irregular fragment of sheet metal. Thickness: 1 mm. Wt: 0.3 gm.

2728 (DA88 layer 622) cp 4

Sheet fragments. Four fragments of sheet metal, three small, the fourth larger, folded and somewhat crumpled. All edges irregular. Thickness: 1.5 mm. Wt: 5.6 gm.

2745 (DA88 G330 layer 1) cp -

Sheet fragment. Moderately sized bent and irregular fragment of sheet metal. Thickness: 1 mm. Wt: 0.5 gm.

2746 (DA88 layer 2012) cp 3

Sheet fragment. One small irregular fragment of sheet metal. Thickness: 0.5 mm. Wt: 0.4 gm.

2751 (G330 layer 1) cp -

Sheet fragment. Small curved fragment of sheet metal. Thickness: 1-2 mm. Wt: 0.7 gm.

2773 (DA88 Ph 10118 layer 2) cp -

Sheet fragment. One small irregular fragment of sheet metal. Thickness: 0.5 mm. Wt: 0.1 gm.

2779 (DA88 Ph 10123 layer 3) cp -

Sheet fragment. One small irregular fragment of sheet metal. Thickness: 1 mm. Wt: 0.5 gm.

2819 (DA87 P2575 layer 3) cp 7

Sheet fragment. Curled fragment of sheet metal, irregular edges. Particularly good condition. Fine scratches visible on surface. Wt: 0.6 gm.

Summary list of Iron objects

Hooked cutting tools	2.206	2485	G316 layer 1	cp 7
	2.207	2053	layer 979	cp 7
	2.208	2054	layer 979	cp 7
	2.209	2038	layer 979	cp 7
	2.210	1655	P1511 layer 7	cp 7
	2.211	1909	P2121 layer 4	cp 7
	2.212	2706	layer 1963	cp 7
	2.213	1920	P1981 layer 6	cp 7
	2.214	2400	ph 9638	cp 3
	2.215	1848	P2110 layer 5	cp 7
	2.216	2062	P2302 layer 1	cp 7
	2.217	2413	layer 1563	cp 6/7
	2.218	1864	P2095 layer 6	cp 7
	2.219	2436	layer 1571	cp 7
	2.220	2178	F213 layer 1	cp 6/7
	2.221	1989/2337	P2273 layer 4	cp 7
	2.222	2671	layer 1934	cp 7
	2.223	1822	P1988 layer 2	cp 7
	2.224	1929	layer 835	cp 7
	2.225	1804	P1900 layer 3	cp 7
	Not illust.	1847	P2109 layer 2	cp 7
		1984	P2261 layer 11	cp 7
		2198	ph 9108	-
Knives	2.226	1828	P2115 layer 3	cp 7/8
	2.227	1930	surface	-
	2.228	2637	P2577 layer 6	cp 7
	2.229	1949	P2261 layer 7	cp 7
	2.230	2160	layer 1214	cp 7
	2.231	2695	layer 1974	cp 7
	2.232	1657	P1511 layer 8	cp 7
	2.233	2153	layer 1303	cp 7
	2.234	1824	P1988 layer 2	cp 7
	2.235	2282	P2444 layer 1	cp 7
	2.236	1535	P1345 layer 3	cp 4
	2.237	1623	P1452 layer 9	cp 7
	2.238	1921	P1981 layer 6	cp 7
Saws	2.239	2318	P2447 layer 1	cp 7
	2.240	2615/2588	layer 1865/ layer 1690	cp 6/7
	2.241	1860	P2163 layer 5	cp 7
Gouges	2.242	2149	P2346 layer 4	cp 7
	2.243	1699	P1940 layer 6	-
	2.244	2683	P2590 layer 7	cp 7
	2.245	2325	P2320 layer 10	cp 7
	2.246	2578	P2575 layer 7	cp 7
	2.247	1937	layer 864	cp 7

Adzes, axes and hammers	2.248	1950	P2261 layer 7	cp 7
	2.249	1816	P2032 layer 6	cp 7
	2.250	2295	P2435 layer 3	cp 7
	2.251	2389	ph 9795	cp 3
	2.252	1656	P1586 layer 1	cp 6/7
Ferrules	2.253	1835	P2110 layer 5	cp 7/8
	2.254	2670	layer 1934	cp 7
Pointed tools	2.255	2782	P2612 layer 1	cp 6
	2.256	2404	P2500 layer 3	cp 3
	2.257	1938	P2184 layer 7	cp 6
	2.258	1872	P2047 layer 1	cp 7
	2.259	1826	P2115 layer 4	cp 7/8
	2.260	1548	P1385 layer 1	cp 7/8
	2.261	2394	layer 1502	cp 7
	2.262	2387	surface	-
	2.263	2261	P2463 layer 1	cp 4
	2.264	2625	layer 1868	cp 7
	2.265	1823	P1988 layer 2	cp 7
	2.266	2687	layer 1963	cp 7
Plough shear	2.267	2392	ph 9772	-
Currency bars	2.268	2715	P2589 layer 4	cp 7
	2.269	1727	P1727 layer 6	cp 7/8
	2.270	1516	F68	cp 3
	2.271	2388	layer 1515	cp 7
	2.272	1988	layer 909	cp 7
	2.273	1926	surface	-
	2.274	2430	layer 1506	cp 7
Anvils	2.275	1934	layer 864	cp 7
	2.276	1933	layer 864	cp 7
Bulk iron	2.277	1979	P2261 layer 11	cp 7
	2.278	1843	P2110 layer 5	cp 7/8
	2.279	2147	layer 1291	cp 7
	2.280	2285	P2444 layer 4	cp 7
	2.281	2124	surface	-
Spears and lances	2.282	1531	P1258 layer 1	cp 3
	2.283	2725	P2591 layer 2	cp 7
	2.284	1622	P1452 layer 9	cp 7
	2.285	1621	P1577 layer 1	cp 8
	2.286	1620	ph 6302	cp 3
	2.287	1674	P1628 layer 1	-
Ring and pivot	2.288	1865	P2095 layer 6	-
	2.289	2156	P2353 layer 8	cp 7
Bridles	2.290	2155	unstratified	-
	2.291	2067	ph 8857 layer 1	cp 7
	2.292	2068	ph 8857 layer 1	cp 7
	2.293	2663	ph 8857 layer 1	cp 7

	2.294	2069	ph 8857 layer 1	cp 7
Nave hoops	2.295	2063	ph 8856 layer 1	cp 7
	2.296	2064	ph 8856 layer 1	cp 7
	2.297	1866	P2095 layer 6	cp 7
	2.298	1867	P2095 layer 6	cp 7
Cauldron hooks	2.299	1515	F68	cp 7
	2.300	1517/1518	F68	cp 3
Latch lifters	2.301	1850	P2110 layer 5	cp 3
	2.302	2175	P2353 layer 8	cp 7
	2.303	1520	F68	cp 7
Handles	2.304	2664	ph 8857 layer 1	cp 7
	2.305	1651	P1579 layer 13	cp 8
Misc. rods and strips	2.306	2768	P2594 layer 1	
	2.307	1952	P2261 layer 7	cp 7
	2.308	1981	P2261 layer 11	cp 7
	2.309	1521	F68	cp 7
	2.310	2174	P2353 layer 8	cp 7
	2.311	1514	F68	cp 3
	2.312	2126	unstratified	-
	2.313	1927	layer 837	cp 7
	2.314	1525	P1349 layer 1	cp 7
	2.315	2292	P2435 layer 3	cp 7
	2.316	2183	F213	cp 6/7
	2.317	1604	ph 5758 layer 2	-
	2.318	1519	F68	cp 3
	2.319	1962	P2260 layer 3	cp 6/7
	2.320	2334	P2320 layer 10	cp 7
Rings	2.321	1600	unstratified	-
	2.322	2449	layer 1567	cp 7
	2.323	2181	P2346 layer 9	cp 7
	2.324	1523	P1278 layer 1	cp 5
	2.325	2275	layer 1476	cp 7
	2.326	2180	P2346 layer 5	cp 7
	2.327	1916	P1981 layer 6	cp 7
	2.328	2293	P2435 layer 5	cp 7
	2.329	2563	layer 1723	cp 6/7
	2.330	2447	layer 1567	cp 7
Clamps	2.331	2299	P2435 layer 5	cp 7
	2.332	1614	P1452 layer 6	cp 7
	2.333	2592	layer 1859	cp 7
	2.334	1613	P1452 layer 6	cp 7
	2.335	2066	ph 8857 layer 1	cp 7
	2.336	2065	ph 8857 layer 1	cp 7
	2.337	2688	layer 1963	cp 7
	2.338	2273	P2435 layer 5	cp 7
	2.339	2590	layer 1859	cp 7
	2.340	2607	P2557 layer 5	cp 7
	2.341	2685	layer 1965	cp 7

	2.342	2499	layer 1520	cp 7
	2.343	2173	layer 1340	cp 7
	2.344	2591	layer 1859	cp 7
	2.345	1607	P1460 layer 1	cp 5
	2.346	2743	F356 layer 2	cp 4
Bolts	2.347	1849	P2110 layer 5	cp 7/8
	2.348	1834	P2110 layer 5	cp 7/8
	2.349	1817	P2110 layer 5	cp 7/8
Discs	2.350	1844	P2032 layer 6	cp 7
	2.351	2767	P2594 layer 1	cp 7
Misc. and sheet	2.352	1617	layer 630	cp 5
	2.353	2705	layer 1963	cp 7
	2.354	2168	P2435 layer 2	cp 7
	2.355	2675	P2588 layer 1	cp 7
	2.356	1585	layer 613	cp 7
	2.357	1627	P1511 layer 9	cp 7
	2.358	2291	P2377 layer 12	cp 7
	2.359	1857	P1981 layer 6	cp 7
	2.360	2676	F349 layer 1	-
	2.361	1659	P1586 layer 1	-
	2.362	2268	P2435 layer 2	cp 7/8
	2.363	1736	P1820 layer 2	cp 7
	2.364	2718	layer 1997	cp 4
	2.365	1827	P2115 layer 3	cp 7/8
	2.366	2142	layer 1212	cp 7
	2.367	2129	G272 layer 1	cp 7
	2.368	1918	P1981 layer 6	cp 7
	2.369	2401	layer 1528	-
	2.370	2139	layer 1219	cp 7
	2.371	1598	P1207 layer 1	cp 7
Harness rings	2.372	2163	layer 1329	cp 7
	2.373	1682	P1699 layer 1	-
Penannular brooch	2.374	1639	P1481 layer 1	cp 7
Ring-headed pin	2.375	2179	P2395 layer 2	cp 3/5
Brooch pin	2.376	1703	layer 700	cp 7

Miscellaneous iron not illustrated:

Fragments of strips and sheets

1676
1915
1917
1919
2159
2452
2481

2484
2665
2684
2800
2808
2809

Fragments of bars and rods

1691
1875
1922
2191
2309
2412
2498
2660
2662
2686
2723

Waste?

2451
2488
2738
2810

Nails, rivets, tacks and bolts

1675
1678
1679
1680
1712
13
724
1725
1735
2455
2561
2613
2648
2661

Miscellaneous fragments

1522
1695
1697
1726
1784
1795
1951
2395
2399
2411
2568
2662

Iron: illustrated

Hook-shaped cutting tools

2.206 2485 (DA86 G316 layer 2) cp 7

Hook-shaped cutting tool (socketed). Blade curving round to c. 55° and tapering slightly to a rounded tip. Above the socket the blade is slightly wider and runs straight for a short distance. The socket is formed by the base of the blade flaring and the edges curling round (not quite meeting) to form an oval cross section. A circular rivet hole, centrally placed, is found in the socket directly below the base of the blade. Socket: (width) 25 mm, (depth) 19 mm. Diam rivet hole: 2 mm. Blade length: (inner edge) c. 66 mm, (outer edge) c. 113 mm. Wt: 44 gm.

2.207 2053 (DA83 layer 979) cp 7

Hook-shaped cutting tool (socketed). The blade is very slightly curved above the socket, curves sharply at approximately 60° and then runs straight to the rounded tip. Inside edge is the cutting edge. The socket is formed by the base of the blade flaring and the edges being curved around (not quite meeting) to form an oval socket. Two in situ rivets on opposing sides of the socket would have secured the haft in position. ?Wood remains are to be found inside the socket. Blade: (width) 7-17 mm, (thickness) 2 mm. Socket: (width) 21 mm, (depth) 12-18 mm. Diam rivets: 3 mm. Length: 69 mm. Wt: 30 gm.

2.208 2054 (DA83 layer 979) cp 7

Hook-shaped cutting tool (socketed). The blade is slightly curved above the socket, takes a relatively sharp turn through c. 50-60° and then continues in a virtually straight line, tapering to a rounded tip. The cutting edge is on the inside of the curve. The socket is formed from a continuation and widening of the base of the blade, the edges of which curl around forming an oval-sectioned socket, not quite enclosed. Organic handle remains within the socket are probably bone. There is some evidence for a rivet to secure the handle in place. Length: 66 mm. Socket: (width) 20-21 mm, (depth) 13-17 mm. Blade: (width) 7-21 mm, (thickness) 2-3 mm. Wt: 36.1 gm.

2.209 2038 (DA83 layer 979) cp 7

Hook-shaped cutting tool (socketed and tanged). The blade runs in a straight line from the socket for a short distance, then bends through c. 55° and continues in a straight line, curving again very slightly at the point. The cutting edge is on the inside of the curve. The socket is formed by a widening of the

blade base, the edges of which curve round to form an oval unenclosed socket. Projecting from the base of this is a square-sectioned tang which curls upwards and into the socket to secure the handle. Length: 74 mm. Blade: (length) 43 mm, (width) 4-20 mm, (thickness) 2-4 mm. Socket: (width) 19 mm, (depth) 9-14 mm. Tang: (length) 43 mm, (width) 3.5-5 mm, (thickness) 3.5-5 mm. Wt: 33.4 gm.

2.210 1655 (DA80 P1511 layer 7) cp 7

Hook-shaped cutting tool (socketed and riveted). The blade runs in a straight line from the socket for a short distance, then bends through c. 80° and continues in a straight line, tapering slightly, to the now broken point. The socket is formed from a widening of the blade base the edges of which curve round to form an oval-sectioned enclosed socket. Directly below is an unwidened uncurled continuation of the socket. A rivet remains in situ, indicating how the handle was secured in the socket. Length: 77 mm. Blade: (length) 57 mm, (width) 12-18 mm, (thickness) 2-3 mm. Socket: (width) 16 mm, (depth) 8-13 mm. Rivet: (length) c. 24 mm, (head diam) 9 mm. Wt: 21.9 gm.

2.211 1909 (DA82 P2121 layer 4) cp 7

Hook-shaped cutting tool (socketed). Blade extends vertically from the socket for a short distance before describing a smooth curve, at c. 70°, ending in a rounded point. The cutting edge is on the inside of the curve. The socket is formed by a flaring out of the blade base to form flanges which are curved round forming an oval-sectioned socket. Length: 66 mm. Blade: (width) 11.5-17 mm, (thickness) 2-4 mm. Socket: (width) 18 mm, (depth) 11 mm. Wt: 12.6 gm.

2.212 2706 (DA88 layer 1963) cp 7

Hook-shaped cutting tool (tanged). Straight, rectangular-sectioned tang, above which the metal flares out to form the blade. The inner (cutting) edge of the blade is a continuation of one edge of the tang. The blade is fairly small, forms a reasonably continuous curve, running straight on its inner edge for a short distance before the pointed tip. Blade curves roughly at an angle of c. 80°. Tang: (length) 57 mm, (width) 7-10 mm, (thickness) 5-6 mm. Blade: (length) c. 108 mm, (width) 6-26 mm, (thickness) 1-3 mm. Wt: 36.6 gm.

2.213 1920 (DA82 P1981 layer 6) cp 7

Hook-shaped cutting tool (socketed). Blade curves slightly just above socket, then bends sharply through c. 90° and continues to curve gently to the now broken tip. The cutting edge is on the inside of the curve. Only a short piece of the socket

remains; this is relatively flat with only very slight raised flanges turning up at c. 90° along the edges. Blade: (width) 14-17 mm, (thickness) 2 mm. Socket: (width) 18 mm, (thickness) 2 mm. Wt: 5.4 gm.

2.214 2400 (DA86 Ph 9638 layer 1) cp 1/3

Hook-shaped cutting tool. Blade runs straight for a short distance above the base, then curves smoothly forming an angle of c. 80°, and runs straight again and tapers to the squared off tip. A small circular hole close to the blade base is infilled with copper alloy metal, ?infilled rivet hole. The cutting edge is on the inside of the curve. Blade: (width) 10-16 mm, (length) c. 74 mm, (thickness) 2-3 mm. Wt: 10.8 gm.

2.215 1848 (DA82 P2110 layer 5) cp 7

Hook-shaped cutting tool. Blade runs vertically from the socket for a short distance then curves very sharply through an angle of c. 60°, continues to curve very slightly and ends in a rounded point. The back of the blade flattens behind the sharp curve. The socket is a continuation of the blade, flat with slight flanges turned up at c. 90° along the edges. Only a short portion of the socket survives. X-ray suggests a circular rivet hole close to where the socket is broken. Length: 54 mm. Blade: (width) 11-20 mm, (thickness) 3 mm. Socket: (width) 20 mm, (thickness) 3.5 mm. Wt: 13.1 gm.

2.216 2062 (DA83 P2302 layer 1) cp 7

Hook-shaped cutting tool fragment. Irregular fragment from the base of a blade. Length: 61 mm. Width: 41.5 mm. Thickness: 6 mm. Wt: 22.3 gm.

2.217 2413 (DA86 layer 1563) cp 6/7

Socket (tanged). Probably from a hook-shaped cutting tool. Formed from a wide strip of metal, probably a continuation of the blade, flaring and turning up along the edges (raised flanges). Protruding from the base of this is a rectangular bar of metal which tapers to a point and is upturned to form a tang for securing the handle. Socket: (width) 18 mm, (depth) 7 mm. Tang: (length) 37 mm, (width) 2-7 mm, (thickness) 2-4 mm. Wt: 4.9 gm.

2.218 1864 (DA82 P2095 layer 1) cp 7

Socket (tanged). Probably belonging to a hook-shaped cutting tool. Formed from an extension of the blade (now broken away) which flares out to form two flanges which were curled around an

apparently oval-sectioned haft. The sub-rectangular sectioned tang projecting from the base of the socket turns sharply upwards and tapers to a point. Length: 80.5 mm. Width: 35 mm. Metal thickness: 3-7 mm. Socket depth: 12-21 mm. Tang width: (max) 13 mm, (min) 5 mm. Tang thickness: (max) 6 mm, (min) 3 mm. Wt: 70.5 gm.

2.219 2436 (DA86 layer 1571) cp 7

Socket (tanged). Probably from a large hook-shaped cutting tool. The socket is formed from a widening of the blade base with two parallel edges bent up at c. 90° to form raised flanges. From the base of this projects a rectangular-sectioned tang, tapering and broken. Socket: (length) 52 mm, (width) 47 mm, (depth) 21 mm. Tang: (width) 5-7 mm, (thickness) 4 mm. Wt: 29.4 gm.

2.220 2178 (DA84 F213 layer 1) cp 6/7

Hook-shaped cutting tool (socketed and tanged). Blade curves at an angle of c. 70-80° with the cutting edge on the inside of the curve. It runs in a straight line before the rounded tip. The base of the blade widens; the edges are folded up at c. 90° to form raised flanges and thus a socket. Extending from the base of the socket is a rectangular-sectioned tang which bends outwards and upwards into the socket, and gradually tapers to a point. This would have secured the haft in position. There are wood fragments adhering to the inside of the socket. Blade: (length) 171 mm, (width) 20-39 mm, (thickness) 3-5 mm. Socket: (width) 34 mm, (depth) 19 mm. Tang: (width) 3-9 mm, (thickness) 3-6 mm, (length) 59 mm. Wt: 204.5 gm.

2.221 1989/2337 (DA83 P2273 layer 4) cp 7

Hook-shaped cutting tool. Slightly curving blade tapering to a rounded point. Socket formed by the blade terminal flaring out and the edges bent at 90° into flanges to hold the haft. One roughly circular rivet hole centrally placed close to the base of the socket indicates how the haft was secured. Blade: (length) 114 mm, (width) 21-37 mm, (thickness) 3.5-7 mm. Socket: (length) 84.5 mm, (diam) 40 mm. Rivet hole diam: 4 mm. Wt: 78.8 gm.

2.222 2671 (DA88 layer 1934) cp 7

Hook-shaped cutting tool (socketed). Round-ended blade, bent at c. 90° rather than continuously curving. Socket formed by metal at the base flaring to form flanges which are curled round to form a roughly circular-sectioned socket for hafting. The flanges do not meet but are held in place by a rivet with a large disc-like head which overlaps the edge of each flange. The rivet

shaft runs roughly centrally and pierces the back of the socket. A few wood fragments are visible within the socket. Socket: (length) 60 mm, (diam) 31 mm. Rivet: (shaft diam) 6 mm, (disc head diam) 27 mm. Blade: (width) 24-34 mm, (thickness) 2.5-4 mm, (length) 119 mm. Wt: 147.6 gm.

2.223 1822 (DA82 P1988 layer 2) cp 7

Socket. Fragmentary, but the tapering socket is formed by folding two flanges of metal in towards the centre. Length: 76 mm. Socket depth: (max) 9.5 mm, (min) 8 mm. Metal thickness: (av) 3 mm. Wt: 20.0 gm.

2.224 1929 (DA83 layer 835) cp 7

Socket. Probably belonging to a hook-shaped cutting tool. Formed by the terminal of the blade flaring out and the edges curling to enclose the haft. Secured by a circular-sectioned rivet which pierces each side of the socket. The blade is broken across very close to the socket but appears to be curving. Length: 123 mm (total). Blade: (width) 40 mm, (thickness) 7 mm. Socket diam: 30-39 mm. Rivet: (length) 45 mm, (diam) 9 mm. Wt: 168.6 gm.

2.225 1804 (DA82 P1990 layer 3) cp 7

Socket (riveted). Probably belonging to a hook-shaped cutting tool. Formed from an extension of the blade, now missing, which flares out forming flanges which were curled around an apparently circular-sectioned haft. A square-sectioned rivet pierces both flanges towards the base of the socket. Mineralized wood is visible within the socket. Length: 111 mm. Width: 35-40 mm. Socket depth: 15-31 mm. Rivet: (width) 6.5 mm, (thickness) 6.5 mm. Wt: 179.5 gm.

Knives

2.226 1828 (DA82 P2115 layer 2) cp 7/8

Knife blade (tanged). Rectangular-sectioned tang which is widest where it joins the blade. The blade is curved along both edges and belongs to Class 2c as described in Vol. 2. Length: 113 mm. Tang length: 34 mm. Tang width: 7 mm. Tang thickness: 4.5 mm. Blade width: 10-24 mm. Blade thickness: 1-2.5 mm. Wt: 19.3 gm.

2.227 1930 (DA 83 unstratified) u/p

Knife blade (tanged). Sub-rectangular sectioned tang continuing from the non-sharpened edge of the blade and tapering slightly.

The sharpened blade edge is somewhat rounded off at the base, is slightly concave in outline and tapers to meet the point of the straight unsharpened edge. Probably belongs to Class 2b as described in Vol. 2. Blade: (length) 61 mm, (width) 5-21 mm, (thickness) 2-3 mm. Tang: (length) 66 mm, (width) 4-7 mm, (thickness) 3-7 mm. Wt: 19.7 gm.

2.228 2637 (DA87 P2577 layer 6) cp 7

Knife blade (tanged). One edge slightly concave and in line with one side of the tang. The other edge (cutting edge) is convex and tapering to meet the first at a presumed rounded point, now broken. The tang is square sectioned. The break at the point shows that the blade is probably composed of a piece of sheet metal folded in two. Class 2c. Blade: (length) 76 mm, (width) max 25 mm, (width) min 12 mm, (thickness) max 3.5 mm. Tang: (length) 40 mm, (width) 6 mm, (thickness) 6 mm. Wt: 24.4 gm.

2.229 1949 (DA83 P2261 layer 7) cp 7

Knife (tanged). Elongated triangular blade, ?double edged, curving at the tip. Tang protrudes from a central position at the base of the blade, is rectangular in section and of almost the same length as the blade. Similar to object no. 2.33, class 2, as described in Vol. 2. Length: (total) 163 mm. Tang: (width) 5-9 mm, (thickness) 5 mm. Blade: (width) 5-23 mm, (thickness) 3 mm. Wt: 26 gm.

2.230 2160 (DA84 layer 1214) cp 7

Knife (tanged): Class 2a or b. The tang is sub-rectangular in section, flaring slightly at the point at which it joins the blade. The blade was apparently parallel sided but only a small portion close to the tang remains. Length: 91.5 mm. Tang: (length) 63 mm, (width) 7-12.5 mm, (thickness) 3.5-5 mm. Blade: (width) c. 16.5 mm, (thickness) 4 mm. Wt: 8.3 gm.

2.231 2695 (DA88 layer 1974) cp 7

Knife (tanged): Class 2 (Sellwood - ill. no. 2.33, Vol. 2). Apparently double-edged blade, tapering presumably to a rounded tip which is now missing. Rectangular-sectioned tang extends from the centre of the blade base and tapers to a rounded point. Blade: (width) 18-22 mm, (thickness) 1.5-3 mm. Tang: (length) 40 mm, (width) 4-12 mm, (thickness) 5 mm. Wt: 21.4 gm.

2.232 1657 (DA80 P1511 layer 8) cp 7

Blade fragment (and miscellaneous sheet fragments): ?Class 2b. c. Twenty-five fragments of metal, mostly sheet. One may be a blade fragment with straight back and convex cutting edge. Thickness: 2.5-5 mm. Wt: (total) 22.8 gm.

2.233 2153 (DA84 layer 1303) cp 7

Knife (tanged): Class 3. The blade is curved, its upper, non-cutting edge, extending directly from the tang edge. Two circular-sectioned copper alloy rivets are centrally placed through the tang. Blade: (length) 37 mm, (width) 9-20 mm, (thickness) 2.5 mm. Tang: (length) 15.5 mm, (width) 11.5 mm, (thickness) 3 mm. Rivets: (diam) 2.5 mm, (length) 9 mm. Wt: 3.9 gm.

2.234 1824 (DA82 P1988 layer 2) cp 7

Knife. Relatively wide blade, one edge straight, the other curving to meet the first at a tip, now missing. Metal at the base of the blade has the edges bent at c. 90° to form raised flanges within which the haft would have been positioned. Two rivet holes on a longitudinal central line, one with a double headed rivet in situ, secured the haft in position. The rivet has a circular-sectioned shaft with a roughly circular head. Class 3. Length: (incomplete) 111 mm. Width: 18-27 mm. Thickness: 1-3 mm. Flange: (depth) 3.5 mm. Rivet: (length) 13 mm, (shaft diam) 4 mm, (head diam) c. 9 mm. Wt: 24 gm.

2.235 2282 (DA85 P2444 layer 1) cp 7

Knife blade (tanged): Class 2b. One edge is straight and an extension of the line of the tang. The lower cutting edge is slightly convex and tapers to meet the other edge at the tip. This example has a relatively wide blade the base of which runs very slightly diagonally away from the tang which was apparently rectangular in section. Length: 96 mm (incomplete). Blade: (width) 18-43.5 mm, (thickness) 1.5-5.5 mm. Tang: (width) 7.5 mm, (thickness) 5.5 mm. Wt: 51.2 gm.

2.236 1535 (DA79 P1345 layer 3) cp 4

?Blade fragment. Thin, slightly curving sub-rectangular piece of sheet metal, ?blade fragment. Length: 59.5 mm. Width: 23.0 mm. Thickness: c. 1.5 mm. Wt: 16.6 gm.

2.237 1623 (DA80 P1452 layer 9) cp 7

?Blade fragment. Roughly leaf-shaped sheet fragment, possibly a blade. Length: 52.5 mm. Width: (max) 19 mm. Thickness: 1.5-3.5 mm. Wt: 3.3 gm.

2.238 1921 (DA82 P1981 layer 6) cp 7

Blade fragments. Two fragments of sheet metal forming the tip of a blade which has one straight side, one very slightly curving side, ?the cutting edge, and a rounded point. Length: 45.5 mm. Width: (max) 19.5 mm. Thickness: 2 mm. Wt: 3.4 gm.

Saws

2.239 2318 (DA85 P2447 layer 1) cp 7

Saw. Blade missing part of the cutting edge and the tip. The tang is rectangular in outline and in section. It has upturned flanges along the edges of both faces. There are two circular rivet holes on the tang's central axis, presumably for securing a haft. The blade has a slightly curved upper edge and a straight lower cutting edge. The teeth are backward slanting and of quite regular size and spacing. In one place they are clearly off-set. Length: 227.5 mm. Blade: (width) 19-40 mm, (thickness) 4 mm. Tang: (length) 60.5 mm, (width) 31 mm, (thickness) 7 mm. Diam rivet holes: c. 4 mm. Wt: 107.4 gm.

2.240 2615/2588 (DA87 layers 1864/1690) cp 6/7

Saw. Blade has one slightly convex and one toothed edge tapering presumably to a rounded tip which is now broken across. The small triangular teeth slant slightly backwards towards the socket. The metal at the base of the blade is thicker and wider, the edges curl round to form the oval socket. Blade: (near complete length) 163 mm. Width: (min) 18 mm, (max) 35 mm. Thickness: 2 mm. Socket: (length) 61 mm, (width) 34 mm, (depth) 21 mm. Wt: 78.3 gm.

2.241 1860 (DA82 P2163) cp 7

Saw blade fragment. Strip of sheet metal, tapering towards one end. One of the longitudinal edges has been cut into small triangular saw teeth which point diagonally towards the wider end of the strip, i.e. towards the handle end. The handle end has two rivet holes along the central longitudinal axis, one with rivet in situ. Width: 19-24 mm. Thickness: 2-4 mm. Height of teeth: c. 3 mm. Diam rivet: 6 mm. Wt: 33.1 gm.

Gouges

2.242 2149 (DA84 P2346 layer 4) cp 7

Gouge (socketed). Roughly circular-sectioned rod which at one end flares out considerably, each side being curled round the edges meeting to form a conical socket, the end of which curls over on the side opposite the join to form a lip. Bone present within the socket suggests a bone handle. The other end of the rod is formed into the gouge by flattening, flaring and c ving slightly to form a short curved blade. Length: 212 mm. Diam: 28-10 mm. Gouge end: (width) 15 mm, (thickness) 2 mm. Wt: ?.

2.243 1699 (DA81 P1940 layer 6) -

Gouge. Cylindrical head with a sub-rectangular shaft. Shaft is badly corroded, but the rounded gouge blade end is intact. Length: 283 mm. Diam head: 25 mm. Thickness head: 16.5 mm. Width shaft: 22.5 mm. Thickness shaft: 14.5 mm. Wedge end: 19 x 4.5 mm. Wt: 315.3 gm.

2.244 2683 (DA88 P2590 layer 7) cp 7

Gouge (socketed). Functional end of tool broken and badly corroded. But essentially the tool is a rectangular-sectioned bar (?shaft) becoming narrower towards the functional end and having a socket for hafting at the other end. The socket, although now partly missing, is presumed to have been conical shaped to house a circular-sectioned haft which tapered to a point. Mineralized wood remains are found within the socket. Length: (incomplete) 185 mm. Socket diam: (external) 17-30 mm, (internal) 11-20 mm. Shaft: (width) 14-15 mm, (thickness) 16-12 mm. Wt: 138.9 gm.

2.245 2325 (DA85 P2320 layer 10) cp 7

Gouge (socketed). A solid, circular-sectioned shaft, the end of which has been flattened and folded over to form a flat sub-rectangular gouge blade. At the other end of the shaft is a circular-sectioned socket. Wood remains are found within the socket and also on the shaft. Length: c. 230 mm. Socket: (length) c. 39 mm, (diam) 25 mm. Shaft diam: 12.5-19 mm. Blade: (width) 16.5 mm, (thickness) 4 mm. Wt: 154 gm.

2.246 2578 (DA87 P2575 layer 7) cp 7

Gouge/point. An apparently double-ended tool. An oval-sectioned rod which at one end becomes suddenly square sectioned and tapers to a blunt point. The other end is flattened and flared out, the edges curved round to form a gouge-like end. Length: 97 mm.

Diam rod: 5 mm. Gouge: (length) 13 mm, (max width) 7 mm. Point: (width) 3-6 mm, (thickness) 3-6 mm. Wt: 11.0 gm.

2.247 1937 (DA83 P2259 layer 1) cp 7

Rod/gouge. Short piece of thin rectangular-sectioned rod. One end tapering and slightly bent, the other showing a wide concave longitudinal groove; somewhat gouge-like. Apparently broken at both ends. Length: 100 mm. Width: 5-7 mm. Thickness: 4-6 mm. Wt: 14.1 gm.

Adzes, axes and hammers

2.248 1950 (DA83 P2261 layer 7) cp 7

Adze head. An oval head, accommodating an oval, slightly askew but approximately central shaft socket. The top of the head has a short rectangular-sectioned projection or butt. A rectangular-sectioned arm links the socket to the blade. It tapers and flares to a wide thin blade edge sloping slightly downwards. The blade is positioned at 90° to the socket. Carbonized wooden shaft remains are clearly evident within the socket. Apparently tangentially cut (i.e. parallel to the grain) from a 'ring porous wood'. Length: (total) 148 mm. Blade: (width) 20-54 mm, (thickness) 3-11 mm. Head: (length) 51 mm, (width) 17-34 mm, (thickness) 24-27 mm. Socket: 18 x 28-19 x 30 mm. Arm: (width) 14-20 mm, (thickness) 12-22 mm. Wt: 270.6 gm.

2.249 1816 (DA82 P2032 layer 6) cp 7

Adze. Socketed adze head. Roughly oval socket with a small rectangular butt projecting from one side and a rectangular-sectioned arm projecting from the other. The arm flattens, curves downwards slightly and widens to form a flared blade. Length: 180 mm. Blade width: 69 mm. Blade thickness: 5 mm. Socketed diam: (external) 43 mm. Socket dimensions: (internal) 22 x 38 mm. Arm width: 22 mm. Arm thickness: 19 mm. Wt: 570 gm.

2.250 2295 (DA85 P2435 layer 3) cp 7

Adze blade. Square-sectioned head, socket no longer present, which flares out and flattens into the blade, the cutting edge along the flared out end. Length: 83 mm. Head: (width) 17 mm, (thickness) 17 mm. Blade: (width) 18.5-51.5 mm, (thickness) 3.5-14 mm. Wt: 112.1 gm.

2.251 2389 (DA86 Ph 9785 layer 1) cp 3

Adze blade. Half of the adze blade survives. Thin flared blade edge. Broken across the thicker part of the blade displaying that the blade was composed from a sheet of metal folded over once and hammered into shape. Width: 45-63 mm. Thickness: 2-8 mm. Wt: 74.9 gm.

2.252 1656 (DA80 P1586) cp 6-7

Hammer head. Robust and heavy, one end rectangular in section, thicker and square sectioned towards the centre, tapering to a rectangular-sectioned wedge at the other end. The hole for hafting is approximately central and is an elongated oval shape. Length: 101 mm. Width: (max) 32 mm, (min) 19 mm. Thickness (max) 32 mm, (min) 12 mm. Hole dimensions: 10 x 35 mm. Wt: 379.5 gm.

Ferrules

2.253 1835 (DA82 P2110 layer 5) cp 7/8

Ferrule. Formed by rolling a triangular-shaped piece of sheet metal to form a conical socket which tapers to a solid point, the tip of which has been flattened. Length: 70 mm. Socket diam: (external) 23 mm. Metal thickness: 5 mm. Diam point: 17 mm. Tip dimensions: 3.5 x 9 mm. Wt: 28.2 gm.

2.254 2670 (DA88 layer 1934) cp 7

Ferrule. Circular-sectioned socket tapering to an elongated solid point, also circular sectioned but flattened somewhat towards the point. Socket broken across. Length: (incomplete) 94 mm. Diam: 9-19 mm. Wt: 44.1 gm.

Pointed tools

2.255 2782 (DA88 P2612 layer 1) cp 6

Chisel/punch. Rectangular-sectioned bar tapering towards one end which is broken but presumed to have terminated in a chisel blade. Flat sub-rectangular head with 'bashed' appearance at the other end. Bar: (width) 17 mm, (thickness) 6-10 mm. Head: (length) 20 mm, (width) 13-18 mm, (thickness) 5 mm. Wt: 48.7 gm.

2.256 2404 (DA86 P2500 layer 3) cp 3

Chisel/punch. A sub-circular sectioned rod of metal tapering gradually to a rounded point at one end with a much bashed

appearance at the head. Diam: 3-13 mm. Length: 81 mm. Wt: 32.5 gm.

2.257 1938 (DA83 P2184 layer 7) cp 6

Rod. Short piece of sub-rectangular section; one end tapering to a squared point, the other end apparently broken. Length: 70 mm. Width: 4-9 mm. Thickness: 4-7 mm. Wt: 17 gm.

2.258 1872 (DA82 P2047 layer 1) cp 7

Rod, ?awl. Square sectioned, tapering sharply to a point at both ends. Length: 110 mm. Width: 6 mm (max). Thickness: 6 mm (max). Wt: 15.6 gm.

2.259 1826 (DA82 P2115 layer 4) cp 7/8

Rod, ?awl. Small square-sectioned rod tapering towards each end, one end in particular becoming circular in section and more pointed. Length: 76 mm. Width: (max) 5 mm, (min) 3.5 mm. Thickness: (max) 5 mm, (min) 3.5 mm. Wt: 6.6 gm.

2.260 1584 (DA79 P1385 layer 1) cp 7/8

Rod. Rectangular sectioned and straight with noticeably fine dimensions; slightly tapering towards one end. Hammered at each end. Length: 85 mm. Width: 4-5.5 mm. Thickness: 4.5 mm. Wt: 8.4 gm.

2.261 2394 (DA86 layer 1502) cp 7

?Point. A long, mainly circular-sectioned rod, tapering gradually to a rounded rectangular-sectioned point at one end. Broken at the other end. Length: 204 mm. Diam: 8 mm. Point: (width) 3 mm, (thickness) 2 mm. Wt: 40.7 gm.

2.262 2387 (DA86 unstratified) u/p

Point. A complete rod, one half square sectioned and tapering to a point, the other half circular sectioned and tapering to a particularly sharp point. Diam: 1-4 mm. Width: 2-4 mm. Thickness: 2-4 mm. Wt: 4.5 gm.

2.263 2261 (DA85 P2463 layer 1) cp 4

Rod. Mostly circular sectioned, one end becoming rectangular sectioned and tapering sharply to a point. Other end broken. Length: 10.9 mm. Diam: 6 mm. Wt: 14.2 gm.

2.264 2625 (DA87 layer 1869) cp 7

Point. A rectangular-sectioned bar tapering to a square-sectioned, relatively sharp point at one end, tapering to a rounded point at the other end. Length: 140 mm. Width: 2-8.5 mm. Thickness: 2-6.5 mm. Wt: 23.8 gm.

2.265 1823 (DA82 P1988 layer 2) cp 7

Rod. Square sectioned. Pointed at both ends. Length: 153.5 mm. Width: (min) 4 mm, (max) 6.5 mm. Thickness: (min) 4 mm, (max) 6.5 mm. Wt: 16.6 gm.

2.266 2687 (DA88 layer 1963) cp 7

Awl. A circular-sectioned iron rod, tapering to a point at the functional end of the tool. Rectangular sectioned and slightly tapering at the other end; presumably a tang for hafting. Tang separated from point by a circular rim of thin sheet metal. Tang: (length) 30 mm, (width) 4-7 mm, (thickness) 3-6 mm. Point: (length) 54 mm, (diam) 2-8 mm. Rim diam: 9 mm. Wt: 9.2 gm.

Ploughshare

2.267 2392 (DA86 Ph 9772 layer 1) -

Ploughshare tip. Flattened rectangular-sectioned bar, upper surface slightly convex, the lower slightly concave. Tapering to a thick rounded point. Broken across a short distance from the point. Width: 11-27 mm. Thickness: 7 mm. Wt: 31.8 gm.

Currency bars

2.268 2712/2715 (DA88 P2589 layer 4) cp 7

Currency bar. Thick flat strip of parallel-sided sheet metal (?blade), broken at one end, formed into a circular-sectioned handle/socket at the other end. Handle: (diam) 14-17 mm. Blade: (width) 36 mm, (thickness) 4-5 mm. Total length (incomplete) c. 405 mm. Wt: 370 gm.

2.269 1727 (DA81 P1727 layer 6) cp 7/8

Currency bar. Slightly tapering relatively thin strip of metal. Broken across both ends. Length: 143 mm. Width: 21-3? mm. Thickness: 3-4 mm. Wt: 56.4 gm.

2.270 1516 (DA79 F68) cp 3

Currency bar fragment. Small portion from the tip; transmission from gradual to sharper tapering of the edges can be seen and the bar is slightly bent. Length: 135 mm. Width: 14-32 mm. Thickness: c. 6.5 mm. Wt: 99.7 gm.

2.271 2388 (DA86 layer 1515) cp 7

Currency bar tip. A thick sheet metal strip broken at one end. Tapering slightly, becoming thinner and rounded off at the other end. Probably the tip of a currency bar. Width: 15-22 mm. Thickness: 2-3 mm. Wt: 25.2 gm.

2.272 1988 (DA83 layer 909) cp 7

Currency bar fragment. Short fragment of flat metal strip, slightly tapering towards one end. Broken across both ends. Length: 77 mm. Width: 19.5-22 mm. Thickness: 4 mm. Wt: 22.2 gm.

2.273 1926 (DA83 unstratified) u/p

Currency bar fragment. Fairly wide, short piece of flat metal strip. Slightly tapering towards one end. Broken across both ends. Length: 64 mm. Width: 21.5-25.5 mm. Thickness: 4-4.5 mm. Wt: 22 gm.

2.274 2430 (DA86 layer 1506) cp 7

Currency bar fragment. Short piece from across a parallel-sided strip. Broken at both ends. Width: 2 mm. Thickness: 17 mm. Wt: 2.9 gm.

Anvils

2.275 1934 (DA83 layer 864) cp 7

Anvil. Large heavy piece of metal shaped roughly into a square at one end, tapering to something of a rounded point at the other end. Length: 115 mm. Width: 21-55 mm. Thickness: 26-36 mm. Wt: 676 gm.

2.276 1933 (DA83 layer 864) cp 7

Anvil. Heavy sub-rectangular sectioned bar which tapers and becomes more square sectioned towards one end. Bent into a 'U'

shape. Length: (unbent) 150 mm. Width: 14-28 mm. Thickness: 13-30 mm. Wt: 262.2 gm.

Bulk iron

2.277 1979 (DA83 P2261 layer 11) cp 7

Strip/band. Wide, parallel-sided, slightly curving band of strip metal, displaying overlapping scarf joint at one end. Edges slightly flanged. Broken across both ends. Length: 264 mm. Width: c. 45 mm. Thickness: c. 5 mm. Wt: 283.1 gm.

2.278 1843 (DA82 P2110 layer 5) cp 7/8

Bar fragment. Rectangular-sectioned, relatively heavy metal bar. Curved into a shallow 'S' shape. Length: 73 mm. Width: 25.5 mm. Thickness: c. 8 mm. Wt: 30 gm.

2.279 2147 (DA84 layer 1291) u/p

Bar fragment. Broken across both ends. Length: 55 mm. Width: 19.5-23 mm. Thickness: 3.5 mm. Wt: 9.0 gm.

2.280 2285 (DA85 P2444 layer 4) cp 7

Wedge. Sub-rectangular piece of iron narrowing at one end to form a wedge. Head has hammered appearance. Length: 54 mm. Width: 30-36 mm. Thickness: 18-4 mm. Wt: 92.6 gm.

2.281 2124 (DA84 unstratified) u/p

Bar fragment. The rounded tip of a sub-rectangular sectioned bar, the sides of which are tapering gradually towards the tip. One end broken. Length: 34 mm. Width: 9-18 mm. Thickness: 10 mm. Wt: 11.5 gm.

Spearheads

2.282 1531 (DA79 P1258 layer 1) cp 3

Spearhead (socketed). A long double-edged blade with a raised midrib, tapering to a rounded tip. Conical-shaped socket to house a tapering circular-sectioned haft. Two rivet holes at the base of the socket indicate the means by which the haft was secured. Original smooth metal surface survives. Blade slightly bent. Blade: (length) 120 mm, (width) 6-28 mm, (thickness) 2-4 mm. Socket: (length) 71 mm, (diam) 13-20 mm, (metal thickness) c. 1 mm. Diam rivet holes: 4 mm. Total length: 197 mm. Wt: 58 gm.

2.283 2725 (DA88 P2591 layer 2) cp 7

Spearhead. Small pointed leaf-shaped blade sitting on an extended circular-sectioned shaft, which widens and terminates in a conical-shaped socket. A small circular rivet hole at the back of the socket indicated how the haft was secured. Blade: (length) 68 mm, (width) 4-32 mm, (thickness) 2-4 mm. Shaft: (length) 190 mm, (diam) 8-21 mm. Wt: 114.8gm.

2.284 1622 (DA80 P1452) cp 7

Spearhead (socketed). Relatively long, probably leaf-shaped blade. Tapering to a rounded off point. Central raised midrib on both faces, tapering towards the blade tip. Conical socket. Base of socket missing. Blade damaged and bent at approximately 45°. Length: (total) 265 mm. Blade: (length) 204 mm, (width incomplete) 39 mm, (thickness) 1.5-9 mm. Socket diam: 12-17 mm. Wt: 91.5 gm.

2.285 1621 (DA80 P1577) cp 8

Spearhead (socketed). Leaf-shaped blade with longitudinal midrib along one face. Edges near tip have been hammered over, presumably for narrowing effect. The tip is rounded and curled over. Conical socket. Two possible rivet holes, one is a very precisely cut square-shaped rivet close to the base of the socket. Length: (total) 173 mm. Blade: (length) 94 mm, (width) 5-46 mm, (thickness) 2-7 mm. Socket diam: 16-20 mm. Wt: 113.2 gm.

2.286 1620 (DA80 Ph 6302 layer 1) cp 3

Spearhead (socketed). Leaf-shaped blade, conical socket. Partial remains of two rivet holes in roughly opposing positions on each side of socket. Organic remains within socket. Length: (total) 113 mm. Blade: (length) 51 mm, (width) 5-19 mm, (thickness) 2-3 mm. Socket diam: 13-19 mm. Wt: 27.2 gm.

2.287 1674 (DA81 P1628 layer 1) -

Spearhead. Near complete with flat leaf-shaped blade and conical socket. A single circular rivet hole towards the base of the socket. Length: 124 mm. Blade length: 42 mm. Blade width: (max) 16.5 mm. Blade thickness: (max) 4.5 mm. Socket diam: (max) 19 mm. Diam rivet hole: 3 mm. Wt: 45.9 gm.

Rings and pivots

2.288 1865 (DA82 P2095 layer 6) u/p

Ring (with attachment). Complete iron ring, composed of a circular-sectioned rod, join not visible. The attachment is very similar to that of object 2156 (see description), differences being mostly in dimensions. Ring: (external diam) 58 mm, (rod diam) 7-9 mm. Attachment 1: (length) 88 mm, (width) 7-23 mm, (thickness) 8-33 mm. Attachment 2: (length) 79 mm, (width) 9-22 mm, (thickness) 4-7 mm, (head diam) 13 mm. Wt: 81.9 gm.

2.289 2156 (DA84 P2353 layer 8) cp 7

Ring (with attachment). Similar to object number 1865. Complete iron ring, composed of a circular-sectioned rod, join not visible. A two-part attachment is linked to this ring. Attachment part 1 is composed of a rectangular-sectioned rod, mostly flattened into a strip. A portion in the centre only remains as a rod and is bent around the ring to form a free-running loop. The two strip portions are parallel and pushed together to sandwich attachment part 2. This is a strip which at the end furthest from the ring narrows to a rectangular-sectioned rod terminating in a flat roughly circular head. The two parts are held together by a small iron rivet close to the strip ends. Now set at an angle of c. 45°, the presence of a second rivet hole further along the strips suggests the possibility of it having been set straight. Function is uncertain though it may have been some type of chariot fitting. Ring: (external diam) 61 mm, (rod diam) 7 mm. Attachment 1: (length) 91 mm, (width) 7-17 mm, (thickness) 8-21 mm. Attachment 2: (length) 101 mm, (width) 7-17 mm, (thickness) 3-5 mm, (head diam) 16 mm. Wt: 95.6 gm.

Bridles

2.290 2155 (DA84 unstratified) u/p

Rein ring and link. The ring is complete and composed of a relatively thin circular-sectioned rod. The ends abutt to form the join. Attached to the ring is a link composed of a bar, rectangular sectioned where it loops around the ring. Tapering to a circular-sectioned point at the other end which is shaped into a loop for further linkage. The link itself is of a curved nature, thickest at the centre. Ring: (diam) 69 mm, (rod diam) 5-6 mm. Link: (length) 58 mm, (width) 4-9 mm, (thickness) 3-5 mm. Wt: 38.2 gm.

2.291 2067 (DA83 Ph 8857 layer 1) cp 7

Ring. Complete ring composed of a circular-sectioned rod, probably joined by an overlapping scarf joint. The rod is

encircled by a small rectangular-sectioned bar which has been bent around the rod forming a free-moving ?staple. Ring: (diam) 74 mm, (rod diam) 9-11 mm. Staple: (width) 6 mm, (thickness) 3 mm, (length) c. 8.5 mm. Wt: 96.0 gm.

2.292 2068 (DA83 Ph 8857 layer 1) cp 7

Ring. A possible rein ring made from a circular-sectioned rod, curled into a roughly circular shape, the two ends abutting. The two ends have however been pulled apart so distorting the ring. One end has a small circular rivet hole piercing it. Ring: (estimated diam) c. 74 mm, (rod diam) 7 mm. Diam rivet hole: c. 3 mm. Wt: 40.8 gm.

2.293 2663 (DA83 Ph 8857 layer 1) cp 7

Rein ring. Detailed report in main text. Wt: 54.4 gm.

2.294 2069 (DA83 Ph 8857 layer 1) cp 7

Bridle bit. Detailed report in main text. Wt: 129.2 gm.

Nave rings

2.295 2063 (DA83 Ph 8857 layer 1) cp 7

Nave/hub binding. A complete ring composed from a roughly semi-circular sectioned bar; i.e. the inner face is slightly concave, the outer face is convex. A joint is not visible. The thickness of the bar is somewhat irregular. Diam: (external) 137 mm, (internal) 127 mm. Width: 11.5 mm. Thickness: 5-7 mm. Wt: 92.60 gm.

2.296 2064 (DA83 Ph 8857 layer 1) cp 7

Nave/hub binding. A complete ring, composed from a roughly semi-circular sectioned bar. The join is not visible. The bar is noticeably thinner in one particular area, ?wear. Diam: (external) 139 mm, (internal) 126 mm. Width: 11-12.5 mm. Thickness: 5-8 mm. Wt: 92.57 gm.

2.297 1866 (DA82 P2095 layer 6) cp 7

Nave/hub binding. A complete ring, composed from a roughly semi-circular sectioned bar. Overlapping scarf join visible. Diam: (external) 136 mm, (internal) 123 mm. Width: 14 mm. Thickness: 6-8 mm. Wt: 136.0 gm.

2.298 1867 (DA82 P2095 layer 6) cp 7

Nave/hub binding. A complete ring, composed from a roughly semi-circular sectioned bar. Join not visible. Diam: (external) 134 mm, (internal) 122 mm. Width: 13-15 mm. Thickness: c. 6 mm. Wt: 175.7 gm.

Cauldron hooks

2.299 1515 (DA79 F68) cp 7

Cauldron hook. Essentially made from two long, circular-sectioned rods. At the hook end, the ends of the rods curl upwards, join, run together for a short distance and are then flattened over to form a flat circular head. Above this the rods separate slightly to give some width to the hook, but run parallel along the main shaft of the object. At the top of the shaft the rods double over to form a loop and then run parallel to themselves down the length of the shaft, stopping just above the hook, so that the result is a solid arrangement of four rods in a square. The whole is held in place by two sets of binding, one just below the loop, one just above the hook. The binding takes the form of wide metal strips wound around so forming a small sphere encompassing the rods. The portions of rod between the two bindings have been consistently twisted (decoration). The rods are thickest at the hook end, thinnest at the loop. Wear is noted at the top of the loop and in the curve of the hook. Paired with object 1517. Length 275 mm. Diam rods: 6-11 mm. Dimensions of shaft: 18 x 18 mm. Dimensions of loop: (external) 28 x 38 mm. Hook: (width) 33 mm, (depth) c. 50 mm, (diam head) 21 mm. Diam binding sphere: 28-29 mm. Wt: 477.3 gm.

2.300 1517 (DA79 F68) cp 7

Cauldron hook. Very similar to its pair, object 1515 (see description). Same wear apparent though object in more deteriorated condition. Length: 258 mm. Wt: 416.4 gm.

2.300 1518 (DA79 F68) cp 3

Rod fragments. Three fragments of circular section, forming chain associated with 1517. Diam: (max) 9 mm.

Latch lifters

2.301 1850 (DA82 P2210 layer 5) cp 3

Latch lifter. Circular ring/handle at one end formed from a continuation of the main rod curling round and joining itself with an abutting join. The main rod is consistently circular in

section but tapers gradually towards the tip. Two turns, approximately 70° and 60° in angle respectively, about one third of the way along the rod form an 'S'-shaped bend. Length: 360 mm. Diam ring: 56 mm. Diam rod: 7-10 mm. Wt: 139.7 gm.

2.302 2175 (DA84 P2353 layer 8) cp 7

Latch lifter. Complete and relatively large in size. Circular ring or handle at one end apparently formed by dividing the main rod of the object into two oval/circular rods which are curved round and joined with a slightly diagonally abutting join. The main rod is partly circular in section, the greater diameter being directly below the ring. It becomes gradually narrower and more square in section. The tip of the rod is upturned and somewhat flattened. Two turns form an 'S'-shaped bend approximately one quarter of the way along the circular-sectioned part of the rod. The portion of rod between the bend and the upturned tip is slightly curved. Length: 560 mm. Ring: (ext diam) 61 mm, (rod dimensions) 6 x 7-9 mm. Rod: (diam) 11-14 mm. 'S'-shaped bend depth: c. 65 mm. Wt: 351.4 gm.

2.303 1520 (DA79 F68) cp 7

Latch lifter. Small and incomplete. Circular ring or handle at one end formed from a circular-sectioned rod with a simple abutting join. The ring is a continuation of the main bar of the object which, directly below the ring, is of flattened rectangular section, gradually becoming narrower and becoming circular sectioned once again; this end is mostly missing. Below the handle, two bends create an 'S' shape along the length of the bar/rod. Length: 200 mm. Ring: (diam) 40 mm, (rod diam) 5-7 mm. Bar: (width) 10-13 mm, (thickness) 6 mm. Rod: (diam) 9 mm. 'S'-shaped bend: (depth) c. 60 mm. Wt: 93.9 gm.

Handle

2.304 2664 (DA83 Ph 8857 layer 1) cp 7

Handle. A curving, roughly circular-sectioned rod. Each end flattened considerably into a strip which has been curled in the opposite direction to the curve of the handle to form a hook and thus the handle attachments. One hook appears to be pierced by a small flat circular-headed rivet. The other hook is split as though the rivet has been wrenched out. Length: 136 mm. Rod diam: 9 mm. Hooks: (length) c. 48 mm, (width) c. 14 mm, (thickness) 3 mm. Diam rivet head: 5 mm. Wt: 49.4 gm.

Curb

2.305 1651 (DA80 P1579 layer 13) cp 8

Curb? Sub-rectangular sectioned bar, curving slightly and tapering towards the ends which are fashioned into oval loops. Bar becomes circular sectioned at the loops. Bar: (width) 9-12 mm, (thickness) 6-9 mm. Loops: (rod diam) 7 mm, (dimensions) 41 x 53 mm. Length: (total) 245 mm. Wt: 108.8 gm.

Miscellaneous rods and strips

2.306 2768 (DA88 P2594 layer 1) cp 7

Rod. Rectangular sectioned, slightly tapering towards the rounded off ends. Length: 142 mm. Width: 4-6 mm. Thickness: 2-4.5 mm. Wt: 14.8 gm.

2.307 1952 (DA83 P2261 layer 7) cp 7

Rod. Circular sectioned, curving slightly at one end. Broken across both ends. Length: 208 mm. Diam: c. 9 mm. Wt: 71.3 gm.

2.308 1981 (DA80 P2261 layer 11) cp 7

Rod. Square sectioned, tapering towards both ends. Spirally twisted three times at approximately centre of rod. Length: 228 mm. Width: 5-10 mm. Thickness: 5-10 mm. Wt: 84.9 gm.

2.309 1521 (DA79 F68) cp 3

Rod, ?handle fragment. Circular sectioned with the possible remains of a loop/hook at one end. The other end is cut across. The rod is bent into an elongated 'S' shape. Length: 234 mm. Diam: 7 mm. Wt: 55.4 gm.

2.310 2174 (DA84 P2353 layer 8) cp 7

Rod. Sub-rectangular sectioned, tapering towards each end. Length: 285 mm. Width: 6.5-9 mm. Thickness: 5-8.5 mm. Wt: 59.7 gm.

2.311 1514 (DA79 F68 layer 1) cp 3

Rod. Circular sectioned towards the ends, sub-rectangular sectioned in the centre where an overlapping scarf join is noted. The rod is slightly curved and twisted. One end is broken, the

other cut. Length: 446 mm. Width x thickness in centre: 11.5 x 11 mm. Diam: 11-14 mm. Wt: 144.6 gm.

2.312 2126 (DA84 unstratified) u/p

Bar fragment. Sub-rectangular sectioned, slightly bent. Broken at both ends, encrusted with mineralized organic remains. Length: 55.5 mm. Width: 12.5 mm. Thickness: 7.5 mm. Wt: 9.0 gm.

2.313 1927 (DA83 layer 837) cp 7

Strip. Short, slightly curving piece of thin strip. One end slightly wider and possibly complete. The other end is broken. Length: 53 mm. Width: 12.5-14 mm. Thickness: 3-5 mm. Wt: 5.8 gm.

2.314 1525 (DA79 P1349 layer 1) cp 7

Rod. Sub-square sectioned, dividing into two at one end, each branch having been somewhat flattened and slightly upturned. Undivided end apparently cut. Length: 81 mm. Width: 8 mm. Thickness: 8 mm. Wt: 20.4 gm.

2.315 2292 (DA85 P2435 layer 3) cp 7

Rod (copper alloy plated). Square sectioned, rounded off at one end, tapers slightly towards the other end which is broken. Length: 77 mm. Width: 8-11 mm. Thickness: 8-11 mm. Wt: 34.3 gm.

2.316 2183 (DA84 F213 layer 1) cp 6/7

Bar. Flattened rectangular-sectioned bar, one end apparently complete the other broken and slightly twisted. Length: (incomplete) 111 mm. Width: 8-9 mm. Thickness: 3.4 mm. Wt: 16 gm.

2.317 1604 (DA80 Ph 5758 layer 2) -

Bar fragment. Rectangular sectioned, tapering. Broken across the shaft and missing part of the blade. Length: 69 mm. Width: (max) 10 mm, (min) 8 mm. Thickness: (max) 7 mm, (min) 2 mm. Wt: 16.5 gm.

2.318 1519 (DA79 F68) cp 3

Bar. Rectangular sectioned, flat, ?cut at both ends. Length: 68 mm. Width: 14 mm. Thickness: 7.5 mm. Wt: 37.6 gm.

2.319 1962 (DA83 P2260 layer 3) cp 6/7

Strip. Slightly curving band, mostly parallel sided. At one end, one side inclines sharply to form a point with the other side. The other end is slightly flaring and broken. Length: 136 mm. Width: 14 mm. Thickness: c. 2 mm. Wt: 8.3 gm.

2.320 2339 (DA85 P2320 layer 10) cp 7

Rod. Fragmentary object, original form uncertain. Fragments mainly rod-like but some appear to be from a socket. Object encrusted in mineralized wood. Diam: 5-21 mm. Wt: 45.7 gm.

Rings

2.321 1600 (DA80 unstratified)

Ring. Circular sectioned, overlapping scarf join. Ring diam: (max) 34.5 mm. Rod diam: 5 mm. Join overlap: 19 mm. Wt: 10 gm.

2.322 2449 (DA86 layer 1567) cp 7

Ring. A circular-sectioned rod curved round to form a ring, the two ends meeting in an abutting join. Diam: (max) 26 mm. Rod diam: (max) 5 mm. Wt: 2 gm.

2.323 2181 (DA84 P2346 layer 9) cp 7

Split ring. Composed of a circular-sectioned rod bent round until the ends almost touch. Diam: (external) 34 mm, (internal) 21.5 mm. Rod diam: 5 mm. Wt: 6.4 gm.

2.324 1523 (DA79 P1278 layer 1) cp 5

Split ring. Circular sectioned, cut ends touching. Ring diam: (max) 33.5 mm. Thickness: 4.5-5 mm. Wt: 7.3 gm.

2.325 2275 (DA85 layer 1476) cp 7

Ring. Circular-sectioned rod forming a ring with a neatly abutting join. Rod in area of join seems thinner possibly

through wear. Diam: (external) 35 mm, (internal) 19.5 mm. Rod diam: 6-8.5 mm. Wt: 16.8 gm.

2.326 2180 (DA84 P2346 layer 5) cp 7

Ring. Circular sectioned, overlapping scarf join. Slightly oval rather than circular in shape. Diam: (external) 31-34.5 mm, (internal) 18-23.5 mm. Width: 6 mm. Wt: 7.8 gm.

2.327 1916 (DA82 P1981 layer 6) cp 7

Ring, ?split ring. Circular-sectioned rod. A complete circle is not described possibly because the two ends have become prised apart. Diam: (external) 35 mm. Thickness: 7-8.5 mm. Wt: 10.8 gm.

2.328 2293 (DA85 P2435 layer 5) cp 7

Ring. Circular ring made from a circular-sectioned rod, join not visible. Diam: c. 25 mm. Wt: 13.80 gm.

2.329 2563 (DA87 Tr 102, F297, layer 1723) cp 6/7

Ring. Sub-rectangular sectioned rod curled around to form a ring. The two ends of the rod taper somewhat and are overlapping. Ring diam: 22 mm. Rod: (width) 5 mm, (thickness) 4 mm. Wt: 4 gm.

2.330 2447 (DA86 layer 1567) cp 7

Split ring. Circular-sectioned rod curved round to form a ring. The two ends of the rod do not quite meet. Ring diam: (max) 27 mm. Rod diam: (max) 5 mm. Wt: 4 gm.

Clamps

2.331 (DA85 P2435 layer 5) cp 7

Clamp/fitting. A wide, slightly concave strip tapers towards each end and becomes a rectangular-sectioned bar, each bending at 90° and having a flattened wedge-shaped point. Strip: (length) 63 mm, (width) 15-24 mm, (thickness) 3.5 mm. Rods: (length) 28-32 mm, (width) 4-11 mm, (thickness) 8-9 mm. Wt: 32.4 gm.

2.332 1614 (DA80 P1452 layer 6) cp 7

Clamp/bracket. Made from a rectangular-sectioned rod, the object may have originally been rectangular or 'D' shaped. Length: 71

mm. Width: 43 mm. Rod dimensions: (max) 10.5 x 4.5 mm. Wt: 15.0 gm.

2.333 2592 (DA87 layer 1859) cp 7

Clamp. Roughly circular-sectioned rod. Bent approximately one quarter of the way from each end. One of the bent ends has been somewhat flattened. Length: 75 mm. Diam rod: 6 mm. Wt: 19.2 gm.

2.334 1613 (DA80 P1452 layer 6) cp 7

Clamp. 'D' shaped, but pulled out of shape on one side. Made from a rectangular-sectioned iron bar, larger at the centre than the ends. Length: 46.5 mm. Width: 35 mm. Dimensions bar: (max) 16.5 x 4.5 mm, (min) 4.5 x 2.5 mm. Wt: 40.3 gm.

2.335 2066 (DA83 Ph 8857 layer 1) cp 7

?Clamp/bracket. A rectangular-sectioned bar, tapering notably towards each end, becoming almost a point at one end. Two bends occur approximately one third of the distance from each end. One is precise and at c. 85°. The other is continuous and curves into a hook (the pointed end). Bar: (unbent length) 206 mm, (width) 4-15 mm, (thickness) 4-5 mm. Clamp: (length) 97 mm, (depth) 59 mm max. Wt: 41.7 gm.

2.336 2065 (DA83 Ph 8857 layer 1) cp 7

?Clamp. A complete rectangular-sectioned bar, tapering slightly towards each end. Bent in two places, approximately one quarter of the length of the bar from each end, at an angle of c. 80°, so producing two very slightly curving projecting arms. Bar: (unbent length) 144 mm, (width) 7-8 mm, (thickness) 3 mm. Clamp: (length) 89 mm, (depth) 34-36 mm. Wt: 41.6 gm.

2.337 2688 (DA88 layer 1962) cp 7

Clamp. Rectangular-sectioned bar, both ends bent at c. 65° and flattened in the opposite direction to the main bar, tapering to a flat, rounded, wedge-like end. Width: 5-11 mm. Thickness: 2-5 mm. Length: (bent) 111 mm, (unbent) 182 mm. Wt: 43.5 gm.

2.338 2273 (DA85 P2435 layer 5) cp 7

Clamp. Rectangular-sectioned rod tapering to a point at each end. One end curled to make a hook. The other end bent over but distorted to one side. Length: 74.5 mm. Width: 4.5-8.5 mm. Thickness: 4.5-7.5 mm. Hook diam: 21.5 mm. Wt: 9.3 gm.

2.339 2590 (DA87 layer 1859) cp 7

Clamp. A rectangular-sectioned bar tapering to a rounded point at each end. Bent at each end to about 90°. Bar: (length) 66 mm, (width) 3-6 mm, (thickness) 3 mm. Clamp: (length) 40 mm. Wt: 2.5 gm.

2.340 2607 (DA87 P2578 layer 5) cp 7

?Clamp/staple. A rectangular-sectioned bar, tapering to a point at one end. Bent round onto itself approximately one quarter of the way along the length of the bar from each end. The two ends slightly overlap but are positioned side by side. An elongated oval loop is formed. Bar: (width) 2-6 mm, (thickness) 2-4 mm. Clamp: (length) 35 mm, (width) 13 mm. Wt: 5.5 gm.

2.341 2685 (DA88 layer 1965) cp 7

?Clamp/fitting. A circular-sectioned iron rod bent into a loop, the ends just touching and curling up slightly. Length: (unlooped) c. 186 mm, (looped) 75 mm. Rod diam: 5-7 mm. Wt: 5.2 gm.

2.342 2499 (DA86 layer 1520) cp 7

Clamp. A flattened rectangular-sectioned bar, complete and rounded off at both ends. Bent at 90° at each end. Bar: (length) 104 mm, (width) 7 mm, (thickness) 3.5 mm. Clamp: (width) 35 mm, (depth) 44 mm. Wt: 10.0 gm.

2.343 2173 (DA84 layer 1340) cp 7

Clamp. Rectangular-sectioned bar, tapering to a blunt point at each end. Two right-angle bends. Length: 44 mm. Width: 28 mm. Bar: (width) 5-7 mm, (thickness) 4 mm. Wt: 8.1 gm.

2.344 2591 (DA87 layer 1859) cp 7

Clamp/fitting. A rectangular-sectioned bar. Doubled over into a loop, pinched together a short distance from the top of the loop, both branches running straight and then flaring outwards. Bar: (width) 4-8 mm, (thickness) 3-4 mm. Length: 50 mm. Wt: 11.7 gm.

2.345 1607 (DA80 P1460 layer 1) cp 5

Clamp/strip fitting. Thin, flattened rectangular-sectioned, curving strip becoming straight and slightly wider at each end to accommodate circular-sectioned iron rivets. Length: 153.5 mm. Width: 8-10 mm. Thickness: 1.5-2 mm. Rivet head diam: 7 mm. Rivet shaft diam: 4 mm. Rivet lengths: 13.5-14 mm. Wt: 5.6 gm.

2.346 2743 (DA88 P356 layer 2) cp 4

?Clamp. A strip of sheet metal, slightly wider at the ends than at the centre. Each end pierced by a rivet with a sub-rectangular head and a circular-sectioned shaft. Length: 46 mm. Width: 9-12 mm. Thickness: 2 mm. Rivet: (length) 7 mm, (shaft diam) 2-3 mm. Wt: 4.1 gm.

Bolts

2.347 1849 (DA82 P2110 layer 5) cp 7/8

Bolt. Double headed. A square-sectioned shaft with flat sub-rectangular head at each end, very similar to 1834. Length 73.5 mm. Shaft width: 8 mm. Shaft thickness: 8 mm. Wt: 20.6 gm.

2.348 1834 (DA82 P2110 layer 5) cp 7/8

Bolt. Double headed and similar to 1849. Square-sectioned shaft with a head at each end. Heads formed by passing each end of the shaft through a sub-rectangular piece of sheet metal and hammering the shaft ends flat to hold in place. Length: 62 mm. Shaft width: 6 mm. Shaft thickness: 6 mm. Wt: 4.4 gm.

2.349 1817 (DA82 P2110 layer 5) cp 7/8

Bolt fragments. Two pieces of rectangular-sectioned shaft. One fragment has a flat circular head piercing an irregular-shaped piece of sheet metal. The other flares slightly to a squared off end. Both fragments probably belong to the same object but do not join. Length: c. 71 mm. Shaft width: 9 mm. Shaft thickness: 6-10 mm. Head diam: 14.5 mm. Wt: 11.8 gm.

Discs

2.350 1844 (DA82 P2032 layer 6) cp 7

Disc. Flat and lozenge shaped, perforated through the centre. Disc dimensions: 83.5 x 69 mm. Diam perforation: 9.5 mm. Thickness: 2 mm. Wt: 38.7 gm.

2.351 2767 (DA88 P2594 layer 1) cp 7

Disc. Flat circular disc of sheet metal. Thickest towards its centre where a small perforation is found. Small semi-circular piece is cut from the outer edge. Diam: 66 mm. Thickness: 2-4 mm. Wt: 31.5 gm.

Miscellaneous and sheet

2.352 1617 (DA80 layer 630) cp 5

?Terminal/weight. A faceted, truncated biconical object with a flat base, pointed top and seven irregular sides. Function uncertain. Length: 17 mm. Wt: 23.1 gm.

2.353 2705 (DA88 layer 1963) cp 7

Ring binding. Parallel-sided strip of sheet metal curved into a ring-shaped binding. Overlapping join apparently held in place by a circular-headed iron rivet. One small circular stud of copper alloy metal is near but not on the join. This may presumably be some form of decoration, or alternatively, to plug a hole. Strip: (width) 15 mm, (thickness) 1 mm. Ring diam: 22 mm (max). Wt: 4.5 gm.

2.354 2168 (DA84 layer 1291) cp 7

Loop attachment. Roughly oval-sectioned piece of rod bent into a distorted loop. Ends cut across diagonally. Surface coated with copper alloy. Length: 23 mm. Width: 6 mm. Thickness: 5 mm. Wt: 6.8 gm.

2.355 2675 (DA88 P2588 layer 1) cp 7

Loop attachment. Strip of sheet metal bent lengthways into a 'U' shape, wider and thinner at the ends than at the centre. Each branch of the 'U' has a small rivet piercing it about 10 mm from the end. The rivets have circular-sectioned shafts and roughly square heads. One branch of the 'U' has an extra piece of strip metal attached to its end apparently by two very small rivets. Strip: (width) 6-13 mm, (thickness) 1-4 mm. Length: (unbent) 90 mm. Wt: 8.5 gm.

2.356 1585 (DA79 layer 613) cp 7

Chain link fragments. Two small rod fragments, sub-rectangular in section. Each tapering at the ends and having two curves.

Length: 47.0-49.5 mm. Width: 4-7.5 mm. Thickness: 2-6.5 mm. Wt: 10.4 gm.

2.357 1627 (DA80 P1511 layer 9) cp 7

Strip (perforated). Thin flat metal strip with flattened rectangular section. Slightly wider at each end, accommodating a roughly circular rivet hole. Broken across rivet hole at one end. Length: 54 mm. Width: 9-15 mm. Thickness: 2-3 mm. Diam rivet hole: c. 4 mm. Wt: 5.5 gm.

2.358 2291 (DA85 P2377 layer 12) cp 7

Loop. Sub-rectangular bar curled round into a loop, the internal surface being slightly concave. Tapering to a circular-sectioned rod at each end and terminating in flat circular feet. Length: 37 mm. Bar: (width) 14-21 mm, (thickness) 10 mm. Diam feet: 8-11 mm. Wt: 23.5 gm.

2.359 1857 (DA82 P1981 layer 6) cp 7

Rod and ring. Roughly circular-sectioned rod, encircled at one end by a rectangular strip of sheet metal which has been wrapped around the rod to form a collar. Length: 52.5 mm. Diam rod: 8 mm. Strip length: 55 mm. Strip width: 12 mm. Strip thickness: 3 mm. Diam collar: 15 mm (external). Wt: 8.7 gm.

2.360 2676 (DA88 F349 layer 1) -

Plate fragment. Irregular-shaped piece of sheet metal, two straighter edges are possibly original. Possible rivet head attached to one face. Thickness: 1.5-2 mm. Wt: 3.1 gm.

2.361 1659 (DA80 P1586 layer 1) -

Sheet fragment. Edges apparently roughly cut, sub-rectangular in shape. Folded twice. Length: 41 mm. Width: 32 mm. Metal thickness: c. 1 mm. Wt: 23.2 gm.

2.362 2268 (DA85 P2435 layer 2) cp 7/8

Strip. Parallel-sided, both ends diagonally cut. Three small circular rivet holes. Length: 56 mm. Width: 15 mm. Thickness: 2.5 mm. Diam rivet holes: c. 2.5 mm. Wt: 2.0 gm.

2.363 1736 (DA81 P1820 layer 2) cp 7

Strip. Rectangular in shape with centrally placed circular perforation. One of the ends has an upturned flange. Perforation is slightly countersunk from one side indicating the direction in which it was punched through. Length: 45.5 mm. Width: 21 mm. Thickness: 1-3 mm. Diam perforation: 1.6 mm.

2.364 2718 (DA88 layer 1997) cp 4

Strip fragment. Relatively wide parallel-sided strip of sheet metal. Broken across both ends. Width: 18 mm. Thickness: 1.5 mm. Wt: 2.6 gm.

2.365 1827 (DA82 P2115 layer 3) cp 7/8

Strip. Parallel-sided piece of strip metal. Ends broken. Length: 50 mm. Width: 19 mm. Thickness: 1.5 mm. Wt: 4.6 gm.

2.366 2142 (DA84 layer 1212) cp 7

Strip. Roughly parallel-sided thin strip. One end diagonally cut, the other end broken. Length: 35 mm. Width: 17 mm. Thickness: 3 mm. Wt: 2.6 gm.

2.367 2129 (DA84 G272 layer 1) cp 7

Strip, (?binding fragment). Parallel-sided strip of sheet metal, slightly flanged along the long sides. Broken across the ends. Length: 45 mm. Width: 15.5 mm. Thickness: 2-3 mm. Wt: 4.2 gm.

2.368 1918 (DA82 P1981 layer 6) cp 7

Sheet fragment. Small sub-rectangular piece of sheet metal with a centrally placed circular rivet hole. All edges apparently complete. 'V'-shaped cut made below rivet hole along one of the longitudinal edges. Length: 30 mm. Width: 23.5 mm. Thickness: 2.5-3 mm. Diam rivet hole: 2.5 mm. Wt: 3.8 gm.

2.369 2401 (DA86 layer 1528) -

Sheet fragment. A neat cut strip of sheet metal. Complete at one end which has a roughly centrally placed circular rivet hole. The other end is broken across. A flaring of one side of the strip towards the broken end is suggestive of the base of a blade. Width: 24-27 mm. Thickness: 1.5 mm. Diam rivet hole: 2 mm. Wt: 5.7 gm.

2.370 2139 (DA84 layer 1219) cp 7

Sheet fragment. Flat fragment with two original straight edges forming a right angle corner. Other edges broken. Length: 42 mm. Width: 23.5 mm. Thickness: 4 mm. Wt: 3.8 gm.

2.371 1598 (DA79 P1207) cp 7

Sheet fragment. Irregular shape. Two edges bent, one to a more notable extent, ?possible flange. Length: 30 mm. Width: 29 mm, (unbent) 40 mm. Thickness: 2 mm. Wt: 2.5 gm.

Harness rings

2.372 2163 (DA84 layer 1329) cp 7

Harness ring. Circular-sectioned rod forming a roughly circular ring decorated with bi-lobed bulges protruding from the outer edge in groups of three. Much distorted by corrosion. Diam (external) 34.5 mm, (internal) 21 mm. Diam rod: 5 mm. Wt: 10.5 gm.

2.373 1682 (DA81 P1699 layer 1) -

Harness ring. Made from a circular-sectioned rod. Decorated with incised bands. An area of wear is quite distinct where the ring has been pulled out of shape. Diam (external) 37 mm, (internal) 23.5 mm. Rod diam: 6 mm. Wt: 11.2 gm.

Penannular brooch

2.374 1639 (DA80 P1481 layer 1) cp 7

Penannular brooch. Fine, flattened, rectangular-sectioned rod curved into a semi-circle. Broken at one end, curled into a small ?terminal at the other end. Rod: (width) 4 mm, (thickness) 2.5 mm. Ring diam: (approx) 26 mm. Wt: 1.2 gm.

Ring-headed pin

2.375 2179 (DA84 P2395 layer 2) cp 3/5

Ring-headed pin. Circular-sectioned thin rod. One end bent into a closed oval loop. Rod leaves loop at c. 90° and then bends at c. 70°, tapering slightly. Length: 49 mm. Loop diam: (external) 23.5 mm, (internal) 12 mm. Rod diam: 3.5-6 mm. Wt: 5.2 gm.

Brooch pin

2.376 1703 (DA81 layer 700) cp 7

Brooch pin. Detailed report in main text. Wt: 1.10 gm.

Iron: not illustrated

1522 (DA79 F68) cp 7

Punch. Sub-rectangular bar, sub-circular hammered head at one end, tapering to a wedge shape at the functional end. Length: 131 mm. Diam head: 15 mm. Width shaft: (max) 17.5 mm, (min) 3 mm. Thickness shaft: (max) 11 mm, (min) 1.4 mm.

1675 (DA81 G203 layer 1) (Recent)

Nail. Square-sectioned shaft, tapering to a point. Flat circular head. Length: 51 mm. Diam shaft: 6 mm. Diam head: 14.5 mm. Wt: 6.2 gm.

1676 (DA81 layer 692) (Recent)

Strip fragment. Short piece of strip metal. One end cut across corners with possible rivet showing on X-ray. Length: 36 mm. Width: 4-14 mm. Thickness: c. 1.5 mm. Wt: 2 gm.

1678 (DA81 layer 1) (Recent)

Nails. Two near complete nails with sub-rectangular heads. Wt: 5.9 gm.

1679 (DA81 layer 690) (Recent)

Nails. Nineteen nails and nail fragments. Wt: 70.0 gm.

1680 (DA81 F85 layer 1) (Recent)

Nails. Six iron nails, four with sub-rectangular heads, two with heads which are almost integral with the shanks. Associated with 2665. Wt: 57.9 gm.

1691 (DA81 layer 692) (Recent)

Rod. Rectangular sectioned, slightly tapering. Broken at both ends. Length: 130 mm. Width: 5-7 mm. Thickness: 4.5-6.5 mm. Wt: 26.4 gm.

1695 (DA81 F85) (Recent)

Spike. A heavy rectangular-sectioned rod tapering sharply to a point at one end. Bashed into a roughly circular flat head at

the other end. Length: 88 mm. Diam head: 18 mm. Width rod: 5-16 mm. Thickness rod: 4-13 mm. Wt: 78.9 gm.

1697 (DA81 F85 layer 1) (Recent)

Horseshoe fragments. Three fragments, the two larger pieces representing both heels. The shoe was probably originally relatively broad and flat at the toe. Four sub-rectangular nail holes, one with a rectangular-sectioned and headed nail in situ. Width heel: (max) 16.5 mm. Width toe: (approx) 33 mm. Width nail holes: 3 mm. Length nail holes: 4 mm. Wt: 100 gm.

1712 (DA81 layer 696) (Recent)

Nail. Square-sectioned shaft, with sub-square, flat head. Length: 18 mm. Wt: 3.1 gm.

1713 (DA81 P1815 layer 5) cp 7

Nail. Rectangular-sectioned shaft. Head not evident. Length: 50.5 mm. Wt: 8.7 gm.

1724 (DA81 layer 700) (Recent)

Nail. Rectangular-sectioned shaft. Head flat and roughly circular. Length: 57 mm. Wt: 10.0 gm.

1725 (DA81 Ph 7456) (Recent)

Nail. Square-sectioned shaft. Flat sub-rectangular head. Length: 51 mm. Wt: 5.0 gm.

1726 (DA81 G199 layer 1) (Recent)

Ox goad. ?Modern. Wt: 5.0 gm.

1735 (DA81 Ph 7883 layer 1) (Recent)

Nail/bolt. Square-sectioned shaft flattened to a somewhat wedge-shaped end. Relatively small domed head. Wood adhering close to the end of the shaft. Length: 155 mm. Head diam: 16 mm. Head thickness: 9 mm. Shaft dimensions: 8.5 x 8.5 mm. Wt: 57.3 gm.

1780 (DA82 layer 725) (Recent)

Fragment. Missing.

1784 (DA82 layer 725) cp 7 (Recent)

Ring. Roughly circular-sectioned rod forming a ring with overlapping scarf joint. Broken and distorted close to the join. Small fragment of sheet copper alloy adheres to one of the broken ends. Diam: (external) 48 mm. Diam rod: 7-10 mm. Wt: 19.5 gm.

1795 (DA82 layer 721) cp 7 (Recent)

Ring. Circular-sectioned rod, forming a precisely circular ring, join not visible. Some variation in rod thickness may indicate wear. Diam: (external) 44 mm, (internal) 25 mm. Diam rod: 7-9 mm. Wt: 42.7 gm.

1829 (DA82 P1978 layer 1) cp 6

Fragment. Missing.

1847 (DA82 P2109 layer 2) cp 7

Socket fragments. Curving/flanged pieces of sheet metal, possibly from the socket of a tool. Metal thickness: 2.5-4.5 mm. Depth of socket: 14 mm. Width of socket: c. 20 mm. Wt: 40.6 gm.

1875 (DA82 Ph 8465 layer 1) u/p

Bar, ?chisel/wedge. Rectangular-sectioned bar fragment, one end flattened into a wedge shape. Length: 50.5 mm. Width: 10.5 mm. Thickness: 1-5 mm. Wt: 5.5 gm.

1915 (DA82 P2163 layer 5) cp 7

Strip, ?binding. Shallow, 'U' sectioned. Length: 35.5 mm. Width: 16 mm. Thickness: 2.5 mm. Wt: 2.6 gm.

1917 (DA82 P1981 layer 6) cp 7

Sheet fragment, ?blade. Small, sub-triangular fragment of sheet metal. Most edges apparently complete suggests a small scalpel-like blade. Length: 21 mm. Width: 4-20 mm. Thickness: 2.5 mm. Wt: 2.2 gm.

1919 (DA81 layer 6) cp 7

Strip fragment. Broken at both ends. Possible slight flanges along the longitudinal edges. Length: 18.5 mm. Width: 18.5 mm. Thickness: 3 mm. Wt: 0.8 gm.

1922 (DA82 P1981 layer 6) cp 7

Bar fragment. Thin rectangular-sectioned bar narrowing towards one end. Both ends broken. Length: (incomplete) 46 mm. Width: 7-15 mm. Thickness: 4 mm. Wt: 4.7 gm.

1951 (DA83 P2261 layer 7) cp 7

Saw blade tip. One edge straight but serrated in zig zags, forms the blade. The other edge curves slightly to meet the blade and form the blade tip. Width: 4-19 mm. Thickness: 2-3 mm. Teeth: (depth) 1.5 mm. Wt: 10 gm.

1984 (DA83 P2261 layer 11) cp 7

Hook-shaped cutting tool. Socket formed by folding both sides of the expanded base in towards the centre. The tapering haft was secured in the socket by means of a tang which projects from the base of the shaft. The blade curves round quite steeply from the socket and has a single cutting edge on its inner side. The tip is now missing. Length: 62.5 mm. Blade: (width) 8-16 mm, (thickness) 2-3.5 mm. Socket: (external diam) 17.5 mm, (internal diam) 12.5 mm. Wt: ?

2159 (DA84 P2362 layer 7) cp 7

Strip (?blade fragment). Small flat strip of metal, tapering towards one end, broken across both ends. Length: (incomplete) 44 mm. Width: 5.5-10 mm. Thickness: 4.5 mm. Wt: 2.6 gm.

2191 (DA84 layer 970) cp 7

Rod. Thin, circular-sectioned piece of metal, slightly curved, broken across both ends. Some possible widthways scored bands may be decoration? Length: 32.5 mm. Diam: 4 mm. Wt: 1.1 gm.

2198 (DA84 Ph 9108 layer 1) u/p

Socket fragment? Shallowly curving piece of iron, no clear distinguishing features, edges mostly broken. Length: 52 mm. Diam: 44 mm (external). Thickness: 8 mm. Wt: 26.6 gm.

2309 (DA85 layer 1496) cp 6

Rod (?wedge). Small circular-sectioned rod becoming more rectangular sectioned towards one end; and flattened and flaring at this end to form a flat blade. Head of the circular-sectioned end has hammered appearance. Length: 38 mm. Diam: 10 mm. Blade: (width) 8.5 mm, (thickness) 3 mm. Wt: 5.8 gm.

2395 (DA86 unstratified) (Recent)

Horseshoe fragment. The left hand side of a wide flat horseshoe, narrowing towards the heel. Five nail holes visible along the outer edge with three small square-headed nails in situ. Width: 14-29 mm. Thickness: 3 mm. Wt: 39.8 gm.

2399 (DA86 Ph 9638 layer 1) cp 1/3

?Blade tip. Small sheet metal strip, one end broken. Two complete edges, one straight, the other curving to meet the first in a rounded point. Probably the tip from a small knife blade. Width: 6-11 mm. Thickness: 2-3 mm. Wt: 2.1 gm.

2411 (DA86 P2514 layer 3) cp 3

Point. A small piece of sheet metal, cut into an elongated triangular shape, or point. Broken across the non-pointed end. Width: 3-8 mm. Thickness: 2.5 mm. Wt: 0.5 gm.

2412 (DA86 P1114 layer 4) cp 6

Rod. Circular sectioned, ends apparently complete and rounded off. Bent at 90° a short distance from one end. Length: 67 mm. Diam: 5-7 mm. Wt: 6.8 gm.

2451 (DA86 layer 1567) cp 7

Waste. Small amorphous nodule of metal. Wt: 0.1 gm.

2452 (DA86 layer 1567) cp 7

Sheet fragment. Small, thin, irregular fragment of sheet metal. Thickness: 1 mm. Wt: 0.2 gm.

2455 (DA86 layer 1567) cp 7

Tack/small nail. Square-sectioned, slightly curved, shaft, tapering to a rounded point at one end. Flat, sub-rectangular head at the other end. Length: 35 mm. Shaft: (width) 2-4 mm,

(thickness) 2-4 mm. Head: (length) 9 mm, (width) 5 mm. Wt: 2.2 gm.

2481 (DA86 layer 1595) cp 6/7

Sheet fragment. Two small irregular fragments of sheet metal. Thickness: 1.5 mm. Wt: 0.4 gm.

2484 (DA86 P2531 layer 3) cp 6

Strip. Relatively narrow, parallel-sided strip of sheet metal, both ends broken. Width: 7 mm. Thickness: 1.5 mm. Wt: 0.9 gm.

2488 (DA86 layer 1590) cp 6/7

Waste. A particularly large piece of iron waste/slag. Wt: 42.4 gm.

2498 (DA86 Ph 9857 layer 1) cp 7

Bar. Rectangular sectioned, bent slightly at the two broken ends. Width: 6 mm. Thickness: 4 mm. Wt: 7.1 gm.

2561 (DA87 layer 1819) (Recent)

Tack/horseshoe nail. Rectangular-sectioned shaft now broken across. Rectangular-shaped and cross-sectioned head, barely wider than the thickness of the shaft. Shaft: (width) 4 mm, (thickness) 2 mm. Head: (length) 8 mm, (width) 4 mm, (thickness) 4.5 mm. Wt: 1.4 gm.

2568 (DA87 unstratified) (Recent)

Horse or pony shoe fragment (modern). Most of the left hand side, including the heel, of a small horse or pony shoe. Three evenly and widely spaced rectangular-shaped nail holes run around the central axis of the shoe. Width: 13 mm. Thickness: 4 mm. Nail holes: (length) 5 mm, (width) 3 mm. Wt: 20.0 gm.

2613 (DA87 layer 1785) (Recent)

Nails (modern). Twenty-three modern fencing nails, various sizes. Wt: 106.3 gm.

2648 (DA86 G316 layer 2) cp 7

Rivet (square headed). Square-sectioned shaft with a relatively large square-cut piece of sheet metal forming the head. Associated with 2485. Length: 24 mm. Shaft: (width) 5 mm, (thickness) 5 mm. Head: (width) 14 mm, (length) 14 mm, (thickness) 2 mm. Wt: 2.2 gm.

2660 (DA81 layer 692) (Recent)

Rod fragments. Two small pieces; possibly nail shafts made from sheet metal curled round, but much distorted. Width: 3.5-6 mm. Wt: 1.6 gm.

2661 (DA81 layer 692) (Recent)

Nail. Rectangular-sectioned shank. Separate head not evident. Length: 30 mm. Width: 12 mm. Thickness: 7.5 mm. Wt: 3.2 gm.

2662 (DA81 layer 692) (Recent)

Bar. Fragment terminating in a loop. Rectangular-sectioned bar becoming more square sectioned at one end and forming a circular loop. Length: 45.5 mm. Diam loop: 14.5 mm. Bar width: (min) 5 mm, (max) 9 mm. Bar thickness: (min) 4 mm, (max) 6.5 mm. Wt: 7.1 gm.

2665 (DA81 F85 layer 1) (Recent)

Strip (modern). A rectangular iron strip, broken. Associated with 1680. Length: 47 mm. Width: 12 mm. Thickness: 2 mm. Wt: 3.4 gm.

2684 (DA88 G134 layer 1) cp 3

Strip/?object. Thin narrow strip of metal bent over double. Length: (unbent) c. 46 mm. Width: 5 mm. Thickness: 2 mm. Wt: 1.2 gm.

2686 (DA88 layer 1976) cp 7

Rod fragment/?tool. Sub-rectangular sectioned rod, tapering to a rounded point at one end, probably broken at the other end. Length: (incomplete) 47 mm. Width: 3.5-7 mm. Thickness: 3-6 mm. Wt: 6.5 gm.

2723 (DA88 P1350 layer 10) cp 7

Rod fragment/?tool. Square-sectioned rod tapering to a point at one end, broken across the other end. Width: 3-6 mm. Thickness: 3-6 mm. Length: (incomplete) 41 mm. Wt: 4.7 gm.

2738 (DA88 layer 2006) cp 7

Waste fragments. Six heavily corroded iron fragments, indeterminate form. Wt: 2.6 gm.

2800 (DA88 layer 1993) cp 7

Sheet fragment. Small fragment of sheet metal. One curving edge possibly original, the others broken and irregular. Thickness: 1.5-3 mm. Wt: 1.1 gm.

2808 (DA79 P1242 layer 1 3532) cp 4

Sheet fragment. Small irregular fragment of thin sheet metal. Mineralized wood fragments adhering to both faces. Thickness: 2-3 mm. Wt: 1.9 gm.

2809 (DA79 P1242 layer 1 3589) cp 4

Sheet fragment. Small fragment of thin sheet metal, one straight edge, other edges broken. Folded at 90° at one end. Length: (incomplete) 38 mm. Thickness: 2-4 mm. Wt: 7.6 gm.

2810 (DA82 P2066 layer 3) cp 7

Waste. Two small amorphous fragments of waste metal. Wt: 2.4 gm.

Bone and Antler

Combs

Publication no	Small find no	Context	Phase
3.228	1544	ph 4655	-
3.229	1540	P1346 layer 8	cp 3
3.230	1539	P1346 layer 8	cp 3
3.231	1640/1634	P1456 layer 3	cp 7
3.232	1612	P1452 layer 6	cp 7
3.233	2274	P2435 layer 5	cp 7/8
3.234	2322	P2427 layer 9	cp 7
3.235	2702	layer 1963	cp 7
3.236	1859	P2163 layer 5	cp 7
3.237	2714	layer 1965	cp 7
3.238	2708/2732	layer 1963	cp 7
3.239	1681	P1698 layer 2	cp 7/8
3.240	2696/2710/2731	layer 1963	cp 7
3.241	1570	P1333 layer 2	cp 7
3.242	1894	P2163 layer 5	cp 7
3.243	1819	P2032 layer 7	cp 7
3.244	1793	surface	-
3.245	1661	P1579 layer 13	cp 8
3.246	1541	P1346 layer 8	cp 3
3.247	2253	P1647 layer 1	cp 3
3.248	2733	layer 1963	cp 7
3.249	1602	P1479	cp 7
3.250	2721	layer 1963	cp 7
3.251	2250	ph 7704 layer 1	-
3.252	2277	P2426 layer 10	cp 7/8
3.253	1818	P1996 layer 1	cp 7
3.254	1714	P1759 layer 1	cp 6
3.255	2555	layer 1640	cp 6/7
3.256	2090	layer 725	cp 7
3.257	1740	ph 7705	-
Not illust	2214	P1537 layer 1	cp 6
Not illust	2217	P1579 layer 1	cp 8
Not illust	2632	P2572 layer 2	cp 7

Toggles

Publication no	Small find no	Context	Phase
3.258	2700	layer 1963	cp 7
3.259	2697	layer 1963	cp 7
3.260	2698	layer 1963	cp 7
3.261	2616	P2580 layer 2	cp 7
3.262	1543	P1361 layer 1	cp 6
3.263	2622/2630/2635	layer 1869	cp 7
3.264	1832	P2032 layer 6	cp 7
3.265	1642	P1455 layer 7	cp 7

3.266	1953	layer 835	cp 7
3.267	2554	layer 1640	cp 7
3.268	2701	layer 1963	cp 7
3.269	1597	P1333 layer 3	cp 7
3.270	2699	layer 1963	cp 7
3.271	2694	P2591 layer 1	cp 7
3.272	1569	P1285 layer 2	cp 7
3.273	1573	P1285 layer 1	cp 7
3.274	2736	layer 1965	cp 7
Not illust	2667	layer 1567	cp 7

Needles

Publication no	Small find no	Context	Phase
3.275	2200	P2346 layer 8	cp 7/8
3.276	2709	layer 1963	cp 7
3.277	2469	P2530 layer 8	cp 5
3.278	2317	P2478 layer 6	cp 7
3.279	1841	P2115 layer 3	cp 7/8
3.280	1564	P1285 layer 2	cp 7
3.281	2610	layer 1859	cp 7
3.282	2593	layer 1856	cp 7
3.283	2260	G288 layer 1	cp 7
3.284	2286	P2450 layer 4	cp 7
3.285	2130	layer 1191	cp 7
3.286	2199	ph 9172 layer 1	cp 6/7
3.287	2761	layer 2017	cp 7
3.288	2598	layer 1744	cp 3
3.289	1856	layer 798	cp 3
3.290	2569	P2575 layer 1	cp 7
Not illust	2898	P2518 layer 2	cp 5

'Scoops'/'gouges'

Publication no	Small find no	Context	Phase
3.291	1836	P2064 layer 3	cp 3
3.292	1641	P1454 layer 5	cp 3
3.293	2231	P2042 layer 1	cp 3
3.294	2402	P2498 layer 1	cp 4
3.295	2403	P2507 layer 1	cp 3
3.296	2224	layer 775	cp 5
3.297	1991	P2269 layer 7	cp 7
3.298	2785	layer 1997	cp 4
3.299	2713	layer 1975	cp 7
3.300	2204	P1202 layer 4	cp 7
3.301	1995	P2200 layer 3	cp 3
3.302	1846	P2042 layer 1	cp 3
3.303	2477	P2492 layer 1	cp 3
3.304	1748	P1913 layer 2	cp 5
3.305	2226	layer 730	cp 3
3.306	2772	P2587 layer 5	cp 5

3.307	1706	P1820 layer 3	cp 7
3.308	1908	P2047 layer 1	cp 7
3.309	2203	P1346 layer 1	cp 3
3.310	1610	ph 6371	-
3.311	2678	layer 1938	cp 7
3.312	2145	layer 1160	cp 6/7
3.313	1845	P2042 layer 1	cp 3
3.314	2722	layer 1990	cp 7
Not illust	2232	P2042 layer 1	cp 3
Not illust	2876	layer 1216	cp 7
Not illust	2933	DA86 +	+
Not illust	2897	P2497 layer 6	cp 7

Awls, splinters and points

Publication no	Small find no	Context	Phase
3.315	1873	P2066 layer 4	cp 7
3.316	1625	P1481 layer 7	cp 7/8
3.317	2202	P1256 layer 4	-
3.318	2047	P2261 layer 1	cp 7/8
3.319	1628	layer 648	cp 7
3.320	2264	P2426 layer 10	cp 7/8
3.321	2165	P2345 layer 9	cp 7/8
3.322	2311	layer 1444	cp 6/7
3.323	2234	P2113 layer 4	cp 7
3.324	2229	P2130 layer 1	cp 3
3.325	1993	P2200 layer 11	cp 3
3.326	1590	P1374 layer 1	cp 3
3.327	2668	surface	-
3.328	2690	layer 1955	cp 7
3.329	2552	P2564 layer 2	cp 7
3.330	2151	layer 1048	-
3.331	2228	P2130 layer 1	cp 3
3.332	2803	P2579 layer 3	cp 7
3.333	2804	P2578 layer 3	cp 6-7
3.334	2716	layer 1963	cp 7
Not illust	2162	layer 994	cp 3
Not illust	2811	layer 724	cp 7
Not illust	2878	P2405	cp 7
Not illust	2899	layer 1680	cp 7
Not illust	2925	layer 1505	cp 7
Not illust	2928	P2320 layer 2	cp 7

Tools manufactured from sheep's long bones

Publication no	Small find no	Context	Phase
3.335	2225	layer 743	cp 6
3.336	2049	P2290 layer 4	cp 3
3.337	2465	P1023 layer 4	cp 3
3.338	2161	layer 970	cp 3
3.339	2150	layer 1050	-

3.340	2185	P2353 layer 6	cp 7
3.341	2589	layer 1681	cp 7
3.342	1969	P1991 layer 3	cp 7
3.343	2674	layer 1930	cp 7
3.344	2486	layer 1581	cp 7
3.345	2256	P2194 layer 2	cp 7
3.346	1654	P1481 layer 1	cp 7/8
3.347	2240	P2011 layer 3	cp 3
3.348	2144	layer 1153	cp 7
3.349	2213	P1529 layer 1	cp 4
3.350	2247	layer 983	cp 7
3.351	2026	P2258 layer 5	cp 7
3.352	2249	layer 873	cp 7
Not illust	2021	P2214 layer 2	cp 3
Not illust	2028	P2263 layer 3	-
Not illust	2152	layer 1053	-
Not illust	2227	layer 717	cp 7
Not illust	2233	P2115 layer 2	cp 7/8
Not illust	2242	P2000 layer 6	cp 7
Not illust	2245	P2016 layer 8	cp 7
Not illust	2252	P1992 layer 4	cp 7
Not illust	2254	P1904 layer 1	cp 3
Not illust	2802	P2549 layer 4	cp 7
Not illust	2873	layer 1196	cp 7
Not illust	2877	layer 1326	cp 7
Not illust	2895	P2561	cp 7
Not illust	2927	G316 layer 1	cp 7
Not illust	2930	P2473 layer 4	cp 7
Not illust	2932	P2377 layer 9	cp 7

Polished bone: cow and horse metapodials, not illustrated

Small find no	Context		Phase
1660	P1579 layer 14	Horse metatarsal	cp 8
1961	P2269 layer 1	?Cow metatarsal	cp 7
1992	P2261 layer 11	Cow metatarsal	cp 7/8
1997	P2261 layer 7	Cow metacarpal	cp 7/8
1998	P2184 layer 7	Cow metatarsal	cp 6
1999	P2270 layer 1	Cow metatarsal	cp 7
2019	P2259 layer 4	Horse metatarsal	cp 6
2020	P2184 layer 6	Horse metapodial	cp 6
2023	P2261 layer 7	Cow metapodial	cp 7/8
2027	P2269 layer 1	Horse metatarsal	cp 7
2058	P2261 layer 7	Horse metatarsal	cp 7/8
2059	P2238 layer 9	Horse metatarsal	cp 3
2218	P2184 layer 6	?Cow metapodial	cp 6
2219	P2184 layer 7	?Cow/horse metapodial	cp 6
2221	P2261 layer 7	Cow metapodial	cp 7/8
2222	P2261 layer 7	Cow metatarsal	cp 7/8
2223	P2261 layer 7	Cow metatarsal	cp 7/8
2243	P2016 layer 8	Cow metatarsal	cp 7
2433	P2534 layer 4	Cow metacarpal	cp 7
2814	layer 724	Cow metacarpal	cp 7

2866	layer 1207	Horse metapodial	cp 7
2869	P2353 layer 5/6	Cow metatarsal	cp 7
2874	unstratified	Cow metatarsal	-

Utilized antler tines

Publication no	Small find no	Context	Phase
3.353	1985	P2256 layer 13	cp 7
3.354	1983	P2261 layer 11	cp 7/8
3.355	1959	P2261 layer 7	cp 7/8
3.356	1960	P2261 layer 7	cp 7/8
3.357	1948	P2261 layer 7	cp 7/8

Miscellaneous bone and antler items

Publication no	Small find no	Context	Phase
3.358	1501	ph 3839 layer 2	-
3.359	2324	P2447 layer 1	cp 7
3.360	2216	P1981 layer 9	cp 7
3.361	2248	P2121 layer 3	cp 7
3.362	1809	P2089 layer 6	cp 7
3.363	1505	P1162 layer 1	cp 6
3.364	1506	P1218 layer 1	cp 6
3.365	1810	P2110 layer 2	cp 7/8
3.366	2805	P2572 layer 1	cp 7
3.367	1842	P2110 layer 5	cp 7/8
3.368	2549	layer 1645	cp 7
3.369	1987	P2256 layer 8	cp 7
3.370	2154	ph 8990 layer 1	cp 3

Bone and antler working debris

3.371	2212	P1521 layer 1	cp 6
3.372	1565	P1346 layer 8	cp 3
3.373	2238	P1982 layer 2	cp 7
3.374	1855	P1981 layer 9	cp 7
3.375	2334	P1982 layer 2	cp 7
3.376	1870	P1263 layer 6	cp 3
3.377	2024	P2261 layer 7	cp 7/8
3.378	1854	P1981 layer 6	cp 7
3.379	2724	P2591 layer 1	cp 7
3.380	2236	P1981 layer 6	cp 7
3.381	2056	P1992 layer 7	cp 7
3.382	1869/1905	P1981 layer 9	cp 7
3.383	1910	P1981 layer 6	cp 7
3.384	2251	P1981 layer 2	cp 7
3.385	2246	P2261 layer 6	cp 7/8
3.386	2643	P2580 layer 2	cp 7
3.387	2924	layer 1969	cp 7

Miscellaneous worked antler fragments: not illustrated

2022	P2191 layer 5	cp 7
2055	P1986 layer 1	cp 7
2206	P1579 layer 1	cp 8
2208	P1452 layer 4	cp 7
2209	P1452 layer 5	cp 7
2210	P1452 layer 6	cp 7
2211	P1452 layer 9	cp 7
2215	P1530 layer 2	cp 7/8
2220	P2261 layer 7	cp 7/8
2230	layer 716	cp 7
2235	P2044 layer 1	cp 6
2239	ph 6272 layer 1	-
2241	ph 5851 layer 2	-
2335	P1981 layer 6	cp 7
2336	P1981 layer 6	cp 7
2727	layer 1967	cp 7
2771	G330 layer 1	cp 7
2812	layer 719	cp 7
2813	P2023 layer 6	cp 7
2864	P2346 layer 4	cp 7/8
2894	P2561 layer 2	cp 7
2926	P2443 layer 1	cp 7/8

Miscellaneous worked bone: not illustrated

Small find no	Context	Phase
2030	P2178 layer 4	cp 7
2057	P2295 layer 1	cp 3
2091	P2248 layer 7	cp 7
2092	P2286 layer 5	cp 7
2140	ph 8989 layer 1	cp 3
2141	ph 8989 layer 2	cp 3
2207	P1511 layer 8	cp 7
2237	P1258 layer 3	cp 3
2244	P2030 layer 4	cp 6
2255	P1793 layer 3	cp 7
2566	P2570 layer 2	cp 7
2577	layer 1734	cp 6
2614	layer 1856	cp 7
2639	layer 1867	cp 7
2666	P2535 layer 6	cp 7
2865	P2371 layer 5	cp 7
2867	layer 1207	cp 7
2868	P2353 layer 7	cp 7
2870	layer 1257	cp 7
2871	P2369 layer 2	cp 4
2872	P2347 layer 10	cp 7
2875	layer 1079	-
2879	P2371 layer 5	cp 7
2893	P1114 layer 3	cp 6

2900	layer 1644	cp 7
2901	layer 1644	cp 7
2923	P2372 layer 10	cp 7
2929	P2318 layer 4	cp 7
2931	P2435 layer 5	cp 7/8
2934	layer 1369	cp 5
2935	layer 1997	cp 4

Bone and Antler

Combs: illustrated

3.228 1544 (DA79 Ph 4655 layer 1)

Comb (undecorated): antler. Sub-rectangular butt, handle becoming wider towards dentate end. Of a possible ten teeth, one remains. This is rectangular-sectioned, tapers to a rounded point and has faint transverse wear grooves on both surfaces. Apparently polished surface may be due to weathering. Length: 150.5 mm. Handle: (width) 23-33 mm. Butt: (width) 29 mm, (length) 33 mm. Tooth: (length) 13.5 mm. Wt: 27.7 gm.

3.229 1540 (DA79 P1346 layer 8) cp 3

Comb (undecorated): antler. Circular butt with central perforation. The handle becomes wider towards the teeth. Of the nine teeth, five survive intact. They are rectangular in section and taper to round pointed tips. Two of the broken teeth, at the extreme edges of the comb, have been worn subsequent to breakage. Transverse wear grooves are visible on both surfaces of the teeth, being more pronounced on those at the comb edges. Faint wear indentations are visible on both sides of the handle immediately above the butt, possibly indicating suspension by a thong. Wear sheen is apparent on the upper surface. Burnt. Length: 121 mm. Handle: (width) 16-30 mm. Butt: (diam) 24 mm. Perforation: (diam) 5 mm. Teeth: (length) 10-13 mm. Wt: 21.1 gm.

3.230 1539 (DA79 P1346 layer 8) cp 3

Comb (undecorated): antler. Roughly circular butt, and a handle which widens towards the teeth. Of the original ten teeth, six survive intact. An incised 'setting out' line runs across the base of the teeth, indicating a re-cut of the dentate end. The teeth are rectangular in section and taper to flat rounded tips. One of the broken teeth on the comb edge shows signs of wear after breakage. There are numerous pronounced transverse wear grooves on the lower surfaces of the teeth with fainter indentations on the upper surfaces. Wear grooves on either side of the handle just above the butt may indicate suspension with a thong. Polish is evident on all original surfaces. Length: 132 mm. Width: 16.5-32 mm. Tooth: (length) 13.5-15 mm.

3.231 1634 (+ 1640) (DA80 P1456 layer 3) cp 7

Comb (undecorated): antler. The butt and handle are integral. A circular perforation occurs on the central axis a short distance above the butt end. The eight teeth are now broken, and

do not exhibit wear. The natural texture of the antler is retained on both surfaces. A little wear sheen is evident on the upper surface. Extensively burnt. Length: 157 mm. Width: (max) 37 mm. Diam perforation: 6 mm. Wt: 37.8 gm.

3.232 1612 (DA80 P1452 layer 6) cp 7

Comb (undecorated): antler. A large piece of the dentate end is now missing. Sub-rectangular butt and a handle which widens towards the teeth. Of the six surviving teeth only two are complete. They are rectangular in section and taper to pointed tips. None of the broken teeth display substantial wear. Three teeth have fine transverse wear grooves on both surfaces. Two parallel incised 'setting out' lines run directly below the base of the teeth. Haphazard knife scores are visible on the handle and butt. The comb is on the whole only roughly finished. Wear polish is visible on all surfaces, notably on the upper one. Burnt. Length: 150 mm. Butt: (length) 20 mm, (width) 40 mm. Handle: (width) 23-30 mm. Tooth: (max length) 14 mm. Wt: 47.4 gm.

3.233 2274 (DA85 P2435 layer 5) cp 7/8

Comb (undecorated): antler. Comb shape follows the natural curve of the antler and maintains the natural texturing on its upper surface. A fragmentary butt appears to have been sub-rectangular. It is pierced by a circular perforation. Of the fourteen teeth, only the two at each edge remain intact. One of these is almost completely worn away. The complete tooth is sub-rectangular in section and is worn to a rounded point with a significant transverse wear groove a short distance from the tip. Extensively worn and burnt. Length: 131 mm. Butt: (length) 15 mm. Tooth: (max length) 8.5 mm. Handle: (width) 23-32 mm. Diam perforation: 6 mm. Wt: 29.2 gm.

3.234 2322 (DA85 P2427 layer 9) cp 7

Comb (undecorated): antler. Broken across the butt and the dentate end. There is evidence for at least seven teeth. Two parallel incised 'setting out' lines run directly below the teeth. The tooth at the extreme right hand edge has been apparently re-cut through this line. Some wear subsequent to breakage is evident on teeth broken in antiquity. There are a few faint parallel transverse wear striations on the upper surface of the teeth. High polish, particularly on the upper surface. Length: 122 mm. Handle: (width) 20-30 mm. Tooth: (max length) 9.5 mm. Wt: 18.6 gm.

3.235 2702 (DA88 layer 1963) cp 6

Comb fragments (undecorated): antler. Complete dentate end and small fragment of rectangular butt remaining. Main shaft of handle missing. Butt fragment shows evidence of a centrally placed circular perforation. The dentate end is particularly fine. Eleven narrow teeth are well preserved and curve slightly downwards in a 'claw'-like fashion. The teeth are slightly worn, incised '?marking out' lines are visible on the front face across their base. Green staining indicates some association with Cu alloy metal, probably after deposition. The front surface is smoothed and exhibits slight polish. Some evidence of burning. Teeth: (length) 22 mm max, (width) 1-3 mm. Width: (max) 30 mm. Thickness: (max) 8 mm. Wt: 12 gm.

3.236 1859 (DA82 ?2163 layer 5) cp 7

Comb (undecorated): cow. The comb is missing the butt, has broken across the dentate end, and is longitudinally split. Of the six surviving teeth, only one is complete. There are no signs of wear on the broken teeth. Transverse wear grooves are evident on both surfaces of the complete tooth. High overall polish. Burnt. Length: 116 mm. Width: (max) 21.5 mm. Wt: 14.5 gm.

3.237 2714 (DA88 layer 1965) cp 7

Comb (undecorated): antler. Plain rectangular handle terminal. Widens towards dentate end. Five of a possible eleven teeth remaining in a central position. Incised line runs across the base of the teeth on both sides of the comb. Cut/saw marks visible on the reverse. The teeth are worn and rounded, the comb has an overall worn/smoothed appearance. Length: (total) 129 mm. Width: (min) 16 mm, (max) 35 mm. Thickness: 6-12 mm. Teeth: (length) 19 mm max, (width) 2-4 mm. Wt: 24 gm.

3.238 2708 (+ 2732) (DA88 layer 1963) cp 6

Comb (decorated): antler. Evidence of butt, now mostly missing and exact form indistinguishable. Elaborately decorated handle which becomes wider towards the dentate end, which has three of eight teeth remaining. The teeth are worn, with rounded tips; two incised lines run across their base. The decoration on the handle takes the form of a double incised line which zig-zags along the length of the handle. The shapes outlined by the zig-zag are infilled with ring-and-dot motifs. This decoration seems to overrun onto the teeth which may suggest re-cutting of the dentate end. The comb is slightly curving downwards and is burnt. Teeth: (length) 27 mm, (width) 2-4 mm. Length: (incomplete) 136 mm. Width: 17-24 mm. Thickness: 7-9 mm. Wt: 17 gm.

3.239 1681 (DA81 P1698 layer 2) cp 7/8

Comb (decorated): antler. Broken across the dentate end. Small, sub-rectangular butt and a handle which widens towards the teeth. The handle is pierced through, just above the butt, with an off-centre, circular perforation. All ten teeth are broken and do not display subsequent wear. Two incised 'setting out' lines run directly below the base of the teeth. The handle is decorated by four diagonal lines in zig-zag formation, running from edge to edge down the handle. The comb has also been decorated on the underside in an identical fashion. Saw/cut marks are visible on the base of the butt which is somewhat crudely finished. The upper surface has slight sheen despite weathering. Length: 108 mm. Butt: (length) 7.5 mm, (width) 23 mm. Handle: (width) 13-42 mm. Diam perforation: 8 mm. Wt: 24.5 gm.

3.240 2696 (+ 2710 + 2731) (DA88 layer 1963) cp 6

Comb (decorated): antler. Rectangular decorated butt; decorated handle which becomes wider towards the missing dentate end. Decoration on the butt is an incised line outlining the rectangulr shape, within which is a row of ring-and dot motifs. Along the handle are two pairs and one possible triple (below the teeth) of ring-and-dot mnotifs, at evenly spaced intervals. There are two incised lines running across the base of the teeth. Burnt. Length: (incomplete) 126 mm. Butt: (depth) 21 mm, (thickness) 13 mm. Shaft: (max width) 19 mm, (thickness) 20 mm. Wt: 20 gm.

3.241 1570 (DA79 P1333 layer 2) cp 7

Comb (decorated): antler. Broken across the teeth; butt missing. Of the seven teeth, only one is complete. The teeth are rectangular in section becoming thinner and more rounded towards the tips. The complete example is at the left hand extreme and is extremely worn. Transverse wear striations are clearly visible on the lower surface of the teeth. Two parallel incised 'setting out' lines occur immediately below the teeth. The handle is decorated by three rows of three ring-and-dot motifs, placed at right angles to the long axis, and arranged approximately parallel to each other. Slight polish on all surfaces. Length: 90 mm. Handle: (width) 21-27 mm. Wt: 16.9 gm.

3.242 1894 (DA82 P2163 layer 5) cp 7

Comb (decorated): ?antler/?metapodial (cow/horse). Part of the dentate end and handle remain. Of eight surviving teeth, seven are complete. They are rectangular in section and have flattened or rounded points. They are highly worn particularly the one at

the right hand extreme which may have been broken during the life of the comb. An incised 'setting out' line runs just below the teeth. The handle is decorated with randomly arranged ring-and-dot motifs. Slight polish on all surfaces, particularly the upper one. Burnt. Length: 62 mm. Width: (max) 27 mm. Tooth: (length) 1-5 mm. Wt: 8.4 gm.

3.243 1819 (DA82 P2032 layer 7) cp 7

Comb (decorated): antler. Broken across handle and teeth. Of eight teeth, three are near complete. One pair of parallel incised 'setting out' lines runs across the teeth. A second pair runs across the handle just below the teeth, indicating recutting of the dentate end, probably shortly before the abandonment of the comb as the knife cuts running through the first 'setting out' lines are sharp and unworn while the tops of the near complete teeth are rounded through wear. A single line runs parallel with and below the 'setting out' lines and is connected to a series of lines which zig-zag down the handle. The triangular zones, thus defined, are decorated with ring-and-dot motifs. Occasional faint transverse parallel grooves are visible on both surfaces of the more complete teeth. No polish. Excessively burnt resulting in distortion. Length: 68.5 mm. Width: (max) 23 mm. Wt: 7.8 gm.

3.244 1793 (DA82 unstratified)

Comb (decorated): antler. Broken across the teeth, split longitudinally, and butt missing. There is evidence for nine teeth, rectangular in section becoming rounded at the tip with a few faint transverse indentations on both surfaces of the one near complete tooth. None of the teeth show wear subsequent to breakage. The handle is decorated with a single ring-and-dot motif. Very slight polish on upper surface only. Highly weathered. Length: 83 mm. Width: (max) 35 mm. Wt: 11.8 gm.

3.245 1661 (DA80 P1579 layer 13) cp 8

Comb fragment (decorated): antler. Part of the butt end and handle. The rectangular butt is outlined by an incised line, visible along three sides. Another line divides the handle from the butt. The butt is pierced by a centrally positioned circular perforation. Slight polish on upper surface. Burnt. Length: 28 mm. Width: 26.5 mm. Diam perforation: 5 mm. Wt: 4.7 gm.

3.246 1541 (DA79 P1346 layer 8) cp 3

Comb fragment (undecorated): antler. The butt and part of the handle survives. The butt is circular with a central, circular perforation. Traces of two compass-inscribed circles can be seen on the right hand side of the butt. Small indentations at the

junction of the butt with the handle may indicate suspension with a thong. Highly polished on all faces, particularly on the upper surface. Excessively burnt. Length: 40.5 mm. Butt diam: 27 mm. Diam perforation: 5 mm. Wt: 4.2 gm.

3.247 2253 (DA81 P1647 layer 1) cp 3

Comb fragment (undecorated): antler. Small fragment from the dentate end. Evidence for three teeth all broken. Slight polish on uppermost face. Burnt. Length: 46.5 mm. Width: (incomplete) 25 mm. Wt: 8.5 gm.

3.248 2733 (DA88 layer 1963) cp 7

Comb fragment (undecorated): antler. Small fragment from dentate end of comb, evidence of three teeth remaining only. Wt: 2 gm.

3.249 1602 (DA80 P1479) cp 7

Comb fragment (undecorated): antler. Broken across the teeth, split longitudinally, and missing butt. Evidence for nine rectangular-sectioned teeth survives. Upper surface retains natural antler surface. Excessively burnt and weathered. Length: 70 mm. Width: (max) 21 mm. Wt: 8.0 gm.

3.250 2720 (+ 2721) (DA88 layer 1963) cp 7

Comb fragments (undecorated): antler. Fragments from the dentate end of a comb, teeth all missing. Bases of twelve teeth evident with two incised 'setting out' lines running across them. Smoothed outer face exhibiting a slight amount of polish. Burnt. Width: 34 mm. Thickness: 10 mm. Wt: 13 gm.

3.251 2250 (DA81 ph 7705 layer 1)

Comb fragment (undecorated): antler. A small butt fragment which had a probably centrally placed circular perforation, now broken across. The butt was possibly originally circular. Two knife cuts are visible, one at the junction of the butt and the handle, one below this on the butt. High polish on upper surface. Burnt. Wt: 6.4 gm.

3.252 2277 (DA85 P2426 layer 10) cp 7/8

Comb fragment (undecorated): antler. A sub-rectangular butt and part of the handle. The handle has two roughly parallel, discontinuous knife cuts. Slight polish on upper surface. Butt:

(width) 27.5 mm, (length) 13.5 mm. Handle: (width) 18-19.5 mm. Wt: 5.0 gm.

3.253 1818 (DA82 P1996 layer 1) cp 7

Comb fragment (undecorated): antler. Handle fragment broken below the dentate end and above the butt. The break at the butt end is across a circular perforation, placed on the central axis. Excessively burnt and weathered. Width: 21 mm. Diam perforation: c 9 mm. Wt: 7.0 gm.

3.254 1714 (DA81 P1759 layer 1) cp 6

Comb fragment (decorated): bone fragment. Small handle fragment decorated with two ring-and-dot motifs. Wt: 1.2 gm.

3.255 2555 (DA87 layer 1640) cp 6/7

Comb fragment (decorated): cattle size fragment. Small fragment from the edge of a bone comb handle. Diagonal incised lines are probably decorative. Smoothed surface. Burnt. Wt: 2 gm.

3.256 2090 (DA83 layer 725) cp 7

Comb fragment (undecorated): antler. Rectangular butt only. Knife cuts visible where butt joined handle. Slight polish on upper surface. Burnt. Butt: (length) 20 mm, (width) 23.5 mm. Wt: 2.5 gm.

3.257 1740 (DA81 ph 7705 layer 2)

Comb fragment (undecorated): antler. Handle fragment. Polish apparent on upper surface. Burnt. Width: 22 mm. Wt: 3.2 gm.

Comb fragments - not illustrated

2214 (DA80 P1537 layer 1) cp 6

Comb fragments: antler. Two handle fragments. One is probably the remains of the butt end, showing that the butt and handle were integral. Saw marks are visible across the base of the butt which is somewhat crudely finished. Burnt and weathered. Width: (max) 49 mm. Wt: 17.5 gm.

2217 (DA80 P1579 layer 1) cp 8

Comb fragment: antler. Small burnt comb handle fragment, flattened and smoothed surface, rounded and smoothed edge. Slight polish visible. Wt: 3.5 gm.

2632 (DA87 P2572 layer 2) cp 7

Worked fragment, ?comb: cattle size fragment. Small fragment of bone. Smooth polished surface. Burnt. Wt: 3 gm.

Toggles: illustrated

3.258 2700 (DA88 layer 1963) cp 7

Toggle: antler. Slice of antler forming a complete decorated toggle. Outer faces smoothed but not polished. Decoration in the form of encircling incised lines at top and bottom, between which are ring-and-dot motifs arranged in longitudinal lines each with three motifs. Roughly centrally placed circular perforation on one side. Diam: 22 mm. Depth: 34 mm. Wt: 12 gm.

3.259 2697 (DA88 layer 1963) cp 7

Toggle: horse metatarsal. Slice of long bone forming a complete decorated toggle. Outer faces smoothed but not polished. Decoration takes the form of encircling incised lines at top and bottom, between which are randomly positioned ring-and-dot motifs. Circular roughly centrally placed perforation on one side. Burnt. Diam: 25 mm. Depth: 30 mm. Wt: 14 gm.

3.260 2698 (DA88 layer 1963) cp 7

Toggle: ?antler/bone. A slice which has been hollowed, smoothed and decorated to form a toggle (now incomplete). Decorated with an encircling incised line at top and bottom, in between which are randomly placed ring-and-dot motifs. Diam: 24 mm. Depth: 27 mm. Wt: 8 gm.

3.261 2616/2627 (DA87 P2580 layer 2/P2579 layer 3) cp 7

Toggle: horse metapodial fragment. Near complete decorated toggle. Evidence of a small circular perforation on one side. Decoration takes the form of ring-and-dot motifs arranged in blocks of six and eight motifs. Surfaces smooth, saw marks visible across the ends. Burnt. Diam: 25 mm. Depth: 28 mm. Wt: 14 gm.

3.262 1543 (DA79 P1361 layer 1) cp 6

Toggle: antler. 'D'-shaped in section with a circular perforation, centrally placed close to one end. A shallow discontinuous groove runs round both ends. A second groove is visible at the perforated end, but is shallow and clearly unfinished. The body of the toggle is decorated with twenty-five ring-and-dot motifs. Depth: (max) 38mm. Width: 30-34 mm. Thickness: 24-25 mm. Wt: 17.6 gm.

3.263 2622/2630/2635 (DA87 layer 1869) cp 7

Toggle fragment: horse metapodial. Fragment of decorated toggle. Decoration takes the form of double incised lines at top and bottom, between which are randomly positioned ring-and-dot motifs. Smoothed surface. Burnt. Depth: 32 mm. Wt: 14 gm.

3.264 1832 (DA82 P2032 layer 6) cp 7

Toggle fragment: ?horse metapodial. Decorated fragment. The two ends are accentuated by incised grooves running parallel with the edges. The body of the toggle is decorated with two sets of opposed zig-zag incised lines delineating alternate diamond- and triangle-shaped divisions. Deeply incised ring-and-dot motifs occur within the divisions, four motifs to each diamond and one to each triangle. Saw marks are visible across both ends. Slight polish. Excessive burning. Depth: 21.5 mm. Diam: 18 mm. Wt: 6.2 gm.

3.265 1642 (DA80 P1455 layer 7) cp 7

Toggle fragment: ?horse metapodial fragment. Approximately half survives with a centrally placed circular perforation now broken across. Decorated with two incised lines encircling both ends, and diagonal incised lines possibly forming a cross, only half of which survives. Also two ring-and-dot motifs. The double incised lines at one end are worn away in line with the perforation. Slight polish. Burnt. Depth: 22.5 mm. Wt: 3.3 gm.

3.266 1953 (DA83 layer 835) cp 7

Toggle fragment: ?cow shaft fragment. Decorated with an incised line running parallel with the one complete end and a series of unusually large but faint ring-and-dot motifs. Three are visible, superimposed over which are a series of small, deep circular depressions arranged in rows running parallel with the long axis, two rows of three motifs each survive. Slight polish. Weathered and burnt. Depth: (incomplete) 28 mm. Wt: 3.0 gm.

3.267 2554 (DA87 layer 1640) cp 7

Toggle fragment: antler. Small fragment only. Incised line and ring-and-dot motif decoration evident. Also a circular perforation close to the complete end. Thickness: 5 mm. Perforation diam: 5 mm. Wt: 2 gm.

3.268 2701 (DA88 layer 1963) cp 7

Toggle fragment: ?antler/horse metapodial. Small fragment from the edge of a toggle, decoration evident by incised line along one edge and ring-and-dot motifs. Slightly burnt. Wt: 2 gm.

3.269 1597 (DA79 P1333 layers 2 and 3) cp 7

Toggle fragment: horse metatarsal. Decorated by two rough shallow grooves encircling the ends. One side has been artificially flattened resulting in a 'D'-shaped section. There is a centrally placed circular perforation on the flattened side. Saw marks are visible across the ends. Slight polish. Weathered. Depth: 31.5 mm. Diam: (max) 26 mm. Diam perforation: 7 mm. Wt: 19.1 gm.

3.270 2699 (DA88 layer 1963) cp 7

Toggle: horse metatarsal. Near complete plain toggle formed from a piece sliced from a long bone. The outer face and ends have been smoothed and exhibit a polished appearance. There is a circular perforation, centrally placed, on one side of the toggle. Slight burning. Diam: (max) 26mm. Depth: (max) 35 mm. Wt: 16 gm.

3.271 2694 (DA88 P2591 layer 1) cp 7

Toggle fragment: ?horse metapodial. Fragment of toggle formed from a slice of long bone. Outer face and ends smoothed and exhibiting slight polish. Centre hollowed. Encircling incised line decoration at top and bottom. Evidence of a central perforation on one side. Burnt. Depth: 44 mm. Wt: 18 gm.

3.272 1569 (DA79 P1285 layer 2) cp 7

Toggle fragment: ?cow. Decorated with two deeply scored grooves which run parallel with the ends. Knife cuts visible across one end. High polish. Burnt. Length: 37.5 mm. Wt: 4.5 gm.

3.273 1573 (DA79 P1285 layer 1) cp 7

Toggle fragment: bone fragment. Small fragment only, decorated by an interrupted knife score which runs parallel with the one surviving end. Slight polish. Burnt. Depth: 23 mm. Wt: 1.6 gm.

3.274 2736 (DA88 layer 1965) cp 7

?Toggle fragment: antler. Small fragment of worked antler, outer surface smoothed, evidence of two possible perforations. Slightly burnt. Wt: 2 gm.

Toggle fragment: not illustrated

2667 (DA86 layer 1567, sample 6674) cp 7

Toggle fragment: cattle-size fragment. Small fragment from the end of a plain toggle. Surfaces smooth and polished. Burnt. Wt: 4 gm.

Needles and pins: illustrated

3.275 2200 (DA84 P2346 layer 8) cp 7/8

Needle: bone shaft fragment. Pointed head, oval eye and a long, tapering irregular shaft which is sub-rectangular in section. A series of knife cuts and facets probably result from the manufacturing process. Crudely finished. Slight polish, particularly on the edges. Length: 82 mm. Width: 3-8 mm. Thickness: 2-3 mm. Eye: (width) 3 mm, (length) 5 mm. Wt: 1.4 gm.

3.276 2709 (DA88 layer 1963) cp 7

Needle: bone fragment. Long slice of bone, somewhat crudely cut with an irregularly-shaped longitudinal slit/eye towards one end. Little finishing of shape but surface smoothed and slightly polished. Longitudinal striations in the eye region on both sides of the tool are possibly use wear marks. Tips at both ends now missing. Length: 82 mm. Width: 5-7 mm. Thickness: 2-3 mm. Wt: 3 gm.

3.277 2469 (DA86 P2530 layer 8) cp 5

Needle: bone fragment. Slice of bone, rounded and smoothed surface. Circular eye close to one end. Rounded off above the eye, tapering gradually to a point below the eye, tip of point missing. Length: (incomplete) 66 mm. Width: 2-5 mm. Thickness: 3 mm. Wt: 2 gm.

3.278 2317 (DA85 P2478 layer 6) cp 7

Needle: sheep shaft fragment. Broken across the shaft, but the pointed head and eye are intact. The shaft is oval in section. The eye is narrow and pointed at both ends, grooves extend from these ends on both faces. The head has a round-sectioned point. It is banded with two faint wear striations similar to those found on weaving comb teeth. The needle head curves upwards from the shaft. Polish on all surfaces. Width: 2.5-5.5 mm. Eye: (width) 2 mm, (length) 6 mm. Wt: 1.0 gm.

3.279 1841 (DA82 P2115 layer 3) cp 7/8

Needle: bone fragment; unidentifiable. Broken across shaft and tip of head. Sub-rectangular-sectioned shaft until just below the eye, after which it becomes rounded. Elongated oval-shaped eye with grooves extending from each end of the eye on both faces. Highly smoothed and polished on all surfaces. Length: 51.5 mm. Width: (max) 4.75 mm. Eye: (length) 5.5 mm, (width) 1.5 mm. Wt: 1.8 gm.

3.280 1564 (DA79 P1285 layer 2) cp 7

Needle: bone shaft fragment. Shaft is mostly rectangular sectioned, becoming rounded at the point. The eye is an elongated oval shape, with grooves running from each end on both sides. Knife marks are visible on the shaft. The pointed head has a transverse wear groove just below the tip, reminiscent of wear grooves found on bone comb teeth. Polish on all surfaces. Length: 69 mm. Eye: (width) 2mm, (length) 9 mm. Width: 2-5 mm. Thickness: 2-3 mm. Wt: 0.6 gm.

3.281 2610 (DA87 layer 1859) cp 7

Needle: bone fragment. Slice of bone, smoothed and edges rounded off. Oval-shaped eye towards one end. Rounded off above the eye. Presumed to taper to a point now missing below the eye. Width: 3-5 mm. Thickness: 2-2.5 mm. Wt: 1 gm.

3.282 2593 (DA87 layer 1856) cp 7

Needle: bone fragment. Slice of bone, rounded and smoothed. Tapering to a point at one end. Elongated oval-shaped eye at the other end is broken across. 'V'-shaped grooves below the eye on both sides are probably due to use. Length: (incomplete) 66 mm. Diam: 1-5 mm. Wt: 2 gm.

3.283 2260 (DA85 G288 layer 1) cp 7

Needle: bone splinter; unidentifiable. Broken across the eye and the point. Very thin and flat in the vicinity of the eye; below this it becomes circular-sectioned and tapering. Slight polish on all surfaces. Width: 3-5 mm. Thickness: 1-3 mm. Eye: (width) 1.5 mm. Wt: 0.5 gm.

3.284 2286 (DA85 P2450 layer 4) cp 7

Needle: bone splinter; unidentified. Broken across the eye and the tip. Sub-rectangular-sectioned and irregular. The eye appears to have been a countersunk circular perforation. Longitudinal scores are visible running down the non-polished face. One surface displaying polish. Width: 4-6.5 mm. Diam of eye: 3.5 mm. Wt: 1.1 gm.

3.285 2130 (DA84 layer 1191) cp 7

Needle: bone splinter; unidentifiable. Broken across the eye and the shaft just below the eye. The eye is an elongated oval shape with grooves running from the surviving end on both faces.

The shaft is oval-sectioned. Slight polish on all surfaces. Width: 4-6.5 mm. Thickness: 4 mm. Eye: (width) 2 mm. Wt: 0.5 gm.

3.286 2199 (DA84 ph 9172 layer 1) cp 6/7

Needle: bone fragment; unidentifiable. Pointed head, broken across the eye, survives only. The head is thin, flat, and tapers rapidly to a point. Some knife cuts visible. High polish. Width: 1.5-5.5 mm. Eye: (width) 2 mm. Wt: 0.3 gm.

3.287 2761 (DA88 layer 2017) cp 5

Needle fragment: bone fragment. Broken across oval-shaped eye, tapering to a point below the eye. 'V'-shaped groove directly below the eye on one side is possibly wear as a result of use. Bone surface is smooth and polished. Width: 2-6 mm. Thickness: 2 mm. Wt: 1 gm.

3.288 2598 (DA87 layer 1744) cp 3

Pin: bone fragment. Slither of bone, rounded and tapering to a sharp point. Smoothed but slightly uneven surface. Broken towards the unpointed end. Length: (incomplete) 36 mm. Diam: 1-2.5 mm. Wt: 0.5 gm.

3.289 1856 (DA82 layer 798) cp 3

Needle/pin: bone fragment; unidentifiable. Circular-sectioned shaft tapering to a sharp point. Head and eye missing. Slight polish. Weathered. Diam: (max) 2.5 mm. Wt: 0.3 gm.

3.290 2569 (DA87 P2575 layer 1) cp 7

Pin: bone fragment. Slither of bone, rounded, smoothed and tapering to a point at one end. Particularly well finished. Length: 55 mm. Diam: 1-4 mm. Wt: 2 gm.

Needle: not illustrated

2898 (DA86 P2518 layer 2) cp 5

Needle: bone fragment. Fragment of pointed head only survives, broken across an elongated oval eye. Above the eye on one face is a 'V'-shaped groove, possibly through wear. Smoothed surface. Wt: 0.4 gm.

Scoops/gouges: illustrated

3.291 1836 (DA82 P2064 layer 3) cp 3

Gouge: sheep metatarsus. The proximal end is hollowed and pierced through by two opposing circular perforations, now broken across. The gouge end has been formed by a longitudinal slice across the shaft. The tip is sharply pointed and flat. Slight polish. Weathering. Length: 109 mm. Diam perforations: 4 mm. Wt: 7.1 gm.

3.292 1641 (DA80 P1454 layer 5) cp 3

Gouge: sheep tibia. The distal end has been partially removed, and hollowed. It is pierced through by two opposing circular perforations, one now broken across. The gouge end is formed by an oblique slice across the shaft which has removed the proximal epiphysis. Very high polish on all surfaces. Some weathering. Length: 134 mm. Diam perforations: 2 mm. Wt: 14.7 gm.

3.293 2231 (P2042 layer 1) cp 3

Gouge: sheep tibia. The distal end is hollowed and pierced through by two opposing circular perforations, now broken across. The gouge end has been formed by a longitudinal diagonal slice across the shaft. The gouge tip is missing. Small knife cuts are visible on the shaft and around the perforations. High surface polish. Length (incomplete): 111 mm. Width: 13-20 mm. Thickness: 6-18 mm. Diam perforation: 4 mm. Wt: 12 gm.

3.294 2402 (P2498 layer 1) cp 4

Gouge/point: sheep tibia. Long bone with hollowed head at the distal end, circular perforation piercing one side. Shaft sliced across and cut into a point. Surfaces and point edges smoothed and exhibiting polish. Longitudinal striations visible. The size of the tool and the pierced head suggests use for threading, ie a shuttle. Length: 103 mm. Width: 4-21 mm. Thickness: 2-11 mm. Perforation diam: 3 mm. Wt: 12 gm.

3.295 2403 (P2507 layer 1) cp 3

Gouge/point: sheep metatarsal. Long bone with hollowed head at the proximal end pierced on one side by a circular countersunk perforation. Shaft sliced in a similar way to a gouge but more tapering and terminating in a pointed tip. Size of tool and presence of perforation suggests possibly a threading function, ie a shuttle. The smoothed surface exhibits polish. Length: 92 mm. Width: 2-16 mm. Thickness: 2-13 mm. Wt: 8 gm.

3.296 2224 (DA82 layer 775) cp 5

Gouge: sheep tibia. The tool has been broken across the gouge point and across the circular perforation at the head end. The gouge end is formed by an oblique cut across the shaft. Slight polish. Weathered. Length: (incomplete) 107 mm. Diam perforation: 3 mm. Wt: 12.0 gm.

3.297 1991 (DA83 P2269 layer 7) cp 7

Gouge: sheep metatarsal. The proximal end has been pierced transversely by a single irregular countersunk perforation, and there is a second countersunk perforation running down the head of the proximal end. The point has been formed by an oblique cut across the shaft. It is now broken across, but there is evidence of much wear after breakage. A series of parallel knife cuts are visible on the shaft. High polish on all surfaces. Weathering and animal gnawing evident. Length: 84 mm. Diam perforations: 4-5 mm. Wt: 8.8 gm.

3.298 2785 (layer 1997) cp 4

Gouge (pierced head): sheep tibia. Long bone wih gouge-like end formed by diagonal longitudinal slicing, gouge tip missing. Remains of head display a circular perforation on one side, with a possible second on the opposing side, now almost totally missing. Outer bone surface is smooth and exhibits a slightly polished appearance. Length: (incomplete) 103 mm. Width: 12-14 mm. Thickness: 4-11 mm. Wt: 12 gm.

3.299 2713 (layer 1975) cp 7

Gouge (perforated head): sheep tibia, distal end unfused. Long bone, longitudinally diagonally sliced at one end forming the gouge blade which has a pointed tip. Other end has a hollowed head and evidence that perforations were intended on both sides of the head but never completed. Length: 123 mm. Width: 5-22 mm. Thickness: 2-16 mm. Wt: 10 gm.

3.300 2204 (DA79 P1202 layer 4) cp 7

Gouge: sheep metatarsal. The proximal epiphysis forms the head of the tool but is now mostly missing. The bone has been hollowed, deliberately flattened on one side and obliquely cut across the shaft to form the gouge point. This was apparently broken at some time and secondary utilization as a sharpened point has probably occurred. A series of short knife cuts are visible just below the head. The head has been gnawed. Slight polish. Length: 111 mm. Wt: 10.8 gm.

3.301 1995 (DA83 P2200 layer 3) cp 3

Gouge: sheep metatarsal. The shaft has been hollowed from the proximal end and flattened on one side. The sharp point at the functional end is formed by a series of oblique cuts across the shaft. Polish on all surfaces. Weathered. Length: 100 mm. Wt: 11.0 gm.

3.302 1846 (DA82 P2042 layer 1) cp 3

Gouge: sheep tibia. The non-utilitarian end of the tool is formed from the hollowed distal epiphysis. There may have been opposing perforations now broken across. The shaft is artificially flattened and longitudinally obliquely cut to form the point of the gouge. The tip is broken away. Knife cuts visible near the distal end. Slight polish. Weathered. Length: 116 mm. Wt: 12.2 gm.

3.303 2477 (P2492 layer 1) cp 3

Gouge/point: sheep tibia. Long bone, head broken away at one end, shaft longitudinally diagonally sliced at the proximal end, cut to a point at the tip. Surface highly smoothed and exhibiting polish. Some longitudinal striations noted. Length: (incomplete) 153 mm. Width: 4-13 mm. Thickness: 2-10 mm. Wt: 16 gm.

3.304 1748 (DA81 P1913 layer 2) cp 5

Gouge: sheep tibia. Proximal end partially complete and some evidence of a circular perforation. Shaft longitudinally diagonally sliced across towards the other end. Gouge tip broken/cut across diagonally and displaying some subsequent wear. Bone surface smoothed, some slight polish. Length: (incomplete) 119 mm. Width: 12-22 mm. Thickness: 5-12 mm. Wt: 12.6 gm.

3.305 2226 (DA82 layer 730) cp 3

Gouge: sheep tibia. Broken across the distal head and across the gouge tip, but subsequent use evident. The gouge is formed by an oblique cut across the shaft and artificially one surface. High polish. Weathered. Length: (incomplete) 87 mm. Wt: 6.7 gm.

3.306 2772 (DA88 P2587 layer 5) cp 5

Gouge/point: sheep tibia. Long bone broken straight across at one end and a roughly diagonal/pointed manner at the other end which has become subsequently worn smooth and is rounded at the tip. Outer bone surface is smooth and exhibits slight polish. Length: 95 mm. Width: 6-14 mm. Thickness: 3-11 mm. Wt: 12 gm.

3.307 1706 (DA81 P1820 layer 3) cp 7

Gouge: sheep tibia. Broken across the shaft just above the gouge end which is formed by an oblique longitudinal cut. Slight polish. Weathered particularly towards break. Wt: 7.2 gm.

3.308 1908 (DA82 P2047 layer 1) cp 7

Gouge: sheep metatarsal. The proximal end is intact, hollowing of the shaft has occurred from this end. The gouge is formed by a longitudinal slice across the shaft. The tip is broken. High polish. Wt: 4.7 gm.

3.309 2203 (DA79 P1346 layer 1) cp 3

Gouge: sheep tibia. Hollowing has occurred through the end of the unfused distal epiphysis. An oblique cut across the shaft forms the gouge, now broken across. Very weathered. Length: (incomplete) 71 mm. Wt: 3.4 gm.

3.310 1610 (DA80 ph 6371 layer 1)

Gouge: sheep tibia. Broken across the shaft below the distal end. Gouge remains intact and is formed by an oblique cut across the shaft. The cut surface is particularly flat and worn. High polish. Weathering. Length: 84 mm. Wt: 8.4 gm.

3.311 2678 (DA88 layer 1938) cp 7

Gouge: sheep metatarsal. Rounded gouge tip only remaining, formed by a longitudinal diagonal slicing of the bone, thus revealing the pulp cavity. Bone surface much eroded, but some evidence of smoothing and polish survives. Width: 10 mm. Thickness: 2-11 mm. Wt: 4 gm.

3.312 2145 (DA84 layer 1160) cp 6/7

Gouge: unidentifiable bone fragment. Only small fragment of the gouge blade remains. The gouge blade tapers and flattens to a tip which has also been broken but subsequently worn. Slight polish. Weathering. Wt: 2.1 gm.

3.313 1845 (DA82 P2042 layer 1) cp 3

Gouge: unidentifiable bone fragment. Tip of gouge blade remains only, flat and pointed. Small knife cuts noted at very tip. High polish, slight weathering. Wt: 1.8 gm.

3.314 2722 (DA88 layer 1990) cp 7

Gouge fragment: sheep tibia. Small fragment from across a gouge blade, outer surface smoothed and exhibiting polish. Width: 12-14 mm. Thickness: 4-10 mm. Wt: 4 gm.

Gouges: not illustrated

2232 (DA82 P2042 layer 1) cp 3

Gouge: sheep metatarsal. Fragmentary gouge-like tool, broken at both ends. An oblique cut across the shaft towards the distal end forms the gouge point. Shaft has been flattened on all sides. Slight polish, weathered. Length: (incomplete) 84 mm. Wt: 6.4 gm.

2876 (DA84 layer 1216) cp 7

Gouge tip: unidentifiable bone fragment. Piece of bone sliced and tapered to form a rounded point-ended gouge tip. Some evidence for having been cut across just above the tip possibly indicating that it had a handle of an alternative material. Wt: 2.5 gm.

2897 (DA86 P2497 layer 6) cp 7

Gouge: sheep long bone. Bone is longitudinally diagonally sliced towards one end to form the gouge. The gouge tip is broken as is the other end of the tool. Smoothed surface exhibiting slight polish. Transverse cut marks visible towards the missing end. Width: 9-12 mm. Thickness: 3-9 mm. Wt: 7.7 gm.

2933 (DA88 unstratified) cp -

Gouge: sheep tibia. Fragment of tool showing longitudinal diagonal slicing of the bone shaft towards one end. Smoothed surfaces. Some longitudinal striations visible. Width: 11 mm. Thickness: 5-9 mm. Wt: 6.3 gm.

Awls, splinters and points: illustrated

3.315 1873 (DA82 P2066 layer 4) cp 7

Point: sheep tibia. The proximal epiphysis forms the head which has been slightly trimmed, hollowed and has two opposing circular perforations. An oblique longitudinal slice across the shaft forms the pointed end of the tool. Knife cuts are visible on the shaft and point. Slight polish. Length: 131 mm. Diam perforations: 4.5 mm. Wt: 19.4 gm.

3.316 1625 (DA80 P1481 layer 7) cp 7/8

Point: sheep tibia. Only one half of the proximal end survives, pierced by a circular perforation and forming the head of the tool. A number of oblique slices across the shaft form the pointed end of the tool. The point tip is somewhat rounded and blunt. Polish, particularly at the tip. Length: 144 mm. Diam perforation: 5 mm. Wt: 20.0 gm.

3.317 2202 (DA79 P1256 layer 4) cp -

Awl: human humerus. Distal epiphysis broken across. Point formed from a ragged break across the shaft with some possible subsequent working and certain evidence of wear. Highly weathered. Length: (incomplete) 132 mm. Wt: 31.7 gm.

3.318 2047 (DA83 P2261 layer 1) cp 7/8

Point: sheep radius. Broken across shaft just below the proximal end which formed the head. The blunt rounded point has been formed by an oblique cut across the shaft. The point has probably continued in use after being broken. Slight polish. Weathering. Length: 90 mm. Wt: 6.2 gm.

3.319 1628 (DA80 layer 648) cp 7

Point: horse lateral metapodial. Naturally tapering distal end of this bone has been modified to a smoothed point. Weathered. Length: 97 mm. Diam of point at tip: 1.5 mm. Wt: 9.3 gm.

3.320 2264 (DA85 P2426 layer 10) cp 7/8

Awl: sheep. Made from a splinter of bone. The tip of the tool is sharply pointed and rounded in section. High polish overall. Length: 89 mm. Diam of tip: 4.5 mm. Wt: 3.9 gm.

3.321 2165 (DA84 P2345 layer 9) cp 7/8

Point: sheep metatarsal. The proximal epiphysis forms the head, now mostly missing but evidence remains of a circular perforation. An oblique cut across the shaft forms the point, now broken across. A few knife cuts visible on shaft. High polish, weathering. Diam of perforation: 3 mm. Wt: 5.3 gm.

3.322 2311 (DA85 layer 1444) cp 6/7

Point: bone splinter. Broken towards the head end, the bone splinter tapers to a point and has a smoothed if somewhat irregular shaft. Polish on all surfaces. Length: (incomplete) 70 mm. Width: 1.5-8 mm. Wt: 1.7 gm.

3.323 2234 (DA82 P2113 layer 4) cp 7

Awl: sheep. Bone splinter roughly triangular in shape, tapering to a sharp point of smoothed rounded cross section. Slight polish on all surfaces and notably on the point tip. Length: 56 mm. Width: (max) 14.5 mm. Diam of point: 1.5-5 mm. Wt: 2.0 gm.

3.324 2229 (DA82 P2130 layer 1) cp 3

Point: sheep tibia. Sliced across the proximal end, which presumably formed the head of the tool, and obliquely chopped across the shaft towards the distal end. Partly hollowed. Pointed end of tool shows fairly extensive but uneven working resulting in a round and blunt tip. Slight polish on all surfaces, particularly at the tip. Length: 98 mm. Wt: 6.8 gm.

3.325 1993 (DA83 P2200 layer 1) cp 3

Point: cow. Splinter of bone, tapering to a rounded, smoothed point at one end. High polish on all surfaces particularly on the pointed end. Length: 95 mm. Wt: 8.8 gm.

3.326 1590 (DA79 P1374 layer 1) cp 3

Point: cow ulna. Broken across the point tip and across the non-functional end. Knife cuts visible on all surfaces towards pointed end. Slight polish. Length: (incomplete) 66 mm. Wt: 7.8 gm.

3.327 2668 (DA88 unstratified) cp -

Point: sheep metatarsal. Hollowed head of a long bone; cut to a smoothed point a short distance below the head. Length: 68 mm. Width: 2-15 mm. Thickness: 2-17 mm. Wt: 4 gm.

3.328 2690 (DA88 layer 1955) cp 7

Point: sheep metatarsal. Head of a long bone, broken a short distance along the bone shaft and tapering to a smoothed point. Length: 65 mm. Width: 2-17 mm. Thickness: 2-16 mm. Wt: 4 gm.

3.329 2552 (DA87 P2564 layer 2) cp 7

Point: sheep size fragment. Shortish slice from near the head of a bone, tapering to a rounded point. Smoothed surface. Length: 58 mm. Width: 4-10 mm. Thickness: 2-8 mm. Wt: 2 gm.

3.330 2151 (DA84 layer 1048) cp -

Point: sheep ulna. Broken across point tip and across the non-utilitarian end. Naturally tapering nature of this bone is modified to form the fine point. Slight polish, weathering. Wt: 1.1 gm.

3.331 2228 (DA82 P2130 layer 1) cp 3

Point: scapula fragment, ox. Triangular-shaped splinter of bone. The point is thin, flat, sub-rectangular in section and terminates in a rounded point. Surfaces smoothed and very slight polish evident. Length: 73.5 mm. Width: 3-27 mm. Thickness: 2-3 mm. Wt: 3.3 gm.

3.332 2803 (DA87 P2579 layer 3) cp 7

Point: ?pig tibia. Short slice from near the head of a long bone. Tapering to a smoothed point. Length: 62 mm. Wt: 4 gm.

3.333 2804 (DA87 P2578 layer 3) cp 6

Worked fragment: ?spatula, ?bone type. Small flat piece of bone tapering to a rounded tip at the unbroken end. One surface smoothed. Width: 6-8 mm. Thickness: 2 mm. Wt: 2 gm.

3.334 2716 (DA88 layer 1963) cp 6

Point/awl: bone fragment. Small fine slice of bone tapering to a point at both ends. Overall smoothed appearance. Some longitudinal striations visible, possibly a result of use. Length: 54 mm. Width: 1-6 mm. Thickness: (max) 2-5 mm. Wt: 1 gm.

Awls, splinters and points: not illustrated

2162 (DA84 layer 994) cp 3

Point: pig ulna. Head formed from proximal epiphysis, now partly missing. Shaft diagonally sliced to form the point, the tip of which is broken. Knife cuts are visible on the surface which also exhibits high polish. Length: (incomplete) 82 mm. Wt: 8.2 gm.

2811 (DA82 layer 724) cp 7

Point: sheep radius. Proximal end intact. Roughly cut into a point a short distance below head. Point has smoothed surfaces. Weathered. Length: 72 mm. Diam point: 2-4 mm. Wt: 4.7 gm.

2878 (DA84 P2405) cp 7

Point: sheep-sized fragment. Slice of bone. Tapered and smoothed to a now broken point at one end. Slight polish. Wt: 2.8 gm.

2899 (DA86 layer 1630) cp 7

Point: bone fragment. Slice of bone tapering to a somewhat flattened and now broken tip. Notch towards the wider end. Width: 4-7 mm. Thickness: 2-3 mm. Wt: 1.5 gm.

2925 (DA86 layer 1505) cp 7

Point: sheep metatarsal. Slice down through long bone. Part of one epiphysis remains intact. Shaft tapers gradually to a flattened point, the tip of which is missing. Smoothed surface with a fairly deep longitudinal groove noted. Width: 7-15 mm. Wt: 6.7 gm.

2928 (DA85 P2320 layer 2) cp 7

Point: bone shaft fragment. Narrow slice of bone tapering to a smooth rounded point at one end. Width: 2-5 mm. Wt: 3.7 gm.

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7 Material remains (cont)

7.1 Small finds (cont)

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Tools manufactured from sheep's long bones: illustrated

3.335 2225 (DA82 layer 743) cp 6/7

Utilized long bone: sheep metatarsal, category 2. Pierced through with a circular perforation a short distance below the distal end. Both surfaces of the bone have deep grooves cut centrally along the entire length. Knife cuts are evident within and immediately adjacent to the grooves. Slight polish overall. Weathering. Length: 120 mm. Diam of perforation: 4 mm. Groove: (width) 3 mm, (depth) 1.5 mm. Wt: 13.1 gm.

3.336 2049 (DA83 P2290 layer 4) cp 3

Utilized long bone: sheep tibia, category 2. Hollowed and transversely pierced through the distal end. The two opposing perforations are of irregular shape and countersunk. Broken across the shaft. High polish, weathered. Probably the head of a gouge. Wt: 10.3 gm.

3.337 2465 (DA86 P1023 layer 4) cp 3

Utilized long bone, ?shuttle: sheep tibia, category 2. Long bone with the head at the distal end hollowed and partly sliced away. Small perforation through the intact side of the head. Broken across the shaft; break slightly worn. Surface smooth and exhibiting polish. Possibly used as a shuttle. Length: 77 mm. Perforation diam: 3 mm. Wt: 8 gm.

3.338 2161 (DA84 layer 970) cp 7

Utilized long bone: sheep tibia, category 2. Broken across both ends. The bone has been hollowed from and pierced through the distal end. Evidence for only one probably circular perforation survives. One surface is artificially flattened. Knife cut marks and animal tooth marks are visible. Polish, weathering. Probably a gouge. Diam of perforation: c 5 mm. Wt: 13.0 gm.

3.339 2150 (DA84 layer 1050) cp -

Utilized long bone: sheep tibia, category 2. Both ends broken, shaft hollowed. Slight evidence for a circular perforation at the distal end. Artificial flattening of one face of the shaft. Polish, weathering. Wt: 9.2 gm.

3.340 2185 (DA84 P2353 layer 6) cp 7

Utilized long bone: sheep metacarpal (fused epiphysis), category 2. Pierced through the shaft close to both epiphyses by roughly circular opposing perforations. Knife cuts visible on the shaft.

Slight polish. Length: 142 mm. Diam perforations: 4 mm. Distance between perforations: 104 mm. Wt: 17.6 gm.

3.341 2589 (DA87 layer 1681) cp 7

Centrally pierced long bone, bobbin (pierced head): sheep metacarpal, distal end unfused, category 1. Long bone with an oval perforation in a slightly off-centre position, piercing both sides of the bone and slightly countersunk from both sides. Also a perforation is to be found running down through the proximal articulation. No other evidence of working. Length: 85 mm. Width: 10-19 mm. Thickness: 8-11 mm. Central perforation diam: 3.5 mm. Proximal perforation diam: 5 mm. Wt: 8 gm.

3.342 1969 (DA83 P1991 layer 3) cp 7

Centrally pierced long bone, ?bobbin: sheep metacarpal, category 1. Perforated by a circular perforation, positioned equidistant between the two unfused epiphyses. Slight polish, weathering. Length: 93.5 mm. Diam perforation: 3.5 mm. Wt: 9.1 gm.

3.343 2674 (DA88 layer 1930) cp 7

Centrally pierced long bone, ?bobbin: sheep metacarpal, category 1. Long bone, both ends partially missing. Pierced through both sides in a central position along the bone shaft. Perforation on the concave side of the bone is slightly countersunk. No further evidence of working or wear. Length: 116 mm. Width: 12-19 mm. Thickness: 9 mm. Wt: 12 gm.

3.344 2486 (DA86 layer 1581) cp 7

Centrally pierced long bone, ?bobbin: sheep metacarpal, category 1. Long bone pierced in a central position along the shaft through both sides of the bone. The perforations are very slightly countersunk. No other apparent working. Broken close to perforation. Width: 12-19 mm. Thickness: 10-15 mm. Perforation diam: 4-5 mm. Wt: 8 gm.

3.345 2256 (DA83 P2194 layer 2) cp 7

Centrally pierced long bone: sheep metatarsal, category 1. Sliced across the shaft towards the distal end, split longitudinally, proximal end only remains intact. Evidence for a centrally positioned circular perforation running through the shaft. Probably functioned as a bobbin originally and may have been used as a point subsequent to splitting. Polish. Length: 96.5 mm. Diam of perforation: 5 mm. Wt: 8.7 gm.

3.346 1645 (DA80 P1481 layer 1) cp 7/8

Centrally pierced long bone: sheep metatarsal, category 1. Both ends broken across. The shaft is artificially flattened on two surfaces. Two opposing circular perforations have been made through the shaft. One end has been broken across another possible circular perforation. Knife marks visible on shaft. Weathered. Length: 63 mm. Diam perforations: 4.5 mm. Wt: 3.8 gm.

3.347 2240 (DA82 P2011 layer 3) cp 3

Utilized long bone: sheep metatarsal, category 5. The proximal end and most of the shaft survive. The proximal end has been pierced down through the articulating surface and has a transverse irregular-shaped perforation on one side just below it. Knife cut visible on shaft just above where it is broken across. Slight polish, weathering. Length: 82 mm. Wt: 11.0 gm.

3.348 2144 (DA84 layer 1153) cp 7

Utilized long bone: sheep metacarpal, category 5. Pierced down through the articular surface of the proximal end. The shaft is broken across. Weathered. Diam perforation: 7.5 mm. Wt: 4.7 gm.

3.349 2213 (DA80 P1529 layer 1) cp 4

Utilized long bone: sheep metatarsal, category 6. Complete metatarsal, knife scores visible along shaft but no modification of bone shape. Highly polished particularly along the shaft. A series of parallel transverse wear indentations occur on both sides of the shaft and are particularly noted close to the distal end. Length: 129 mm. Wt: 19.1 gm.

3.350 2247 (DA83 layer 983) cp 7

Utilized long bone: sheep metatarsal, category 6. Hollowed from the proximal end, chopped obliquely across the shaft. The shaft is worn with parallel transverse striations on all surfaces particularly towards the proximal end which has resulted in a hollowing. High polish. Length: 108 mm. Wt: 11.4 gm.

3.351 2026 (DA83 P2258 layer 5) cp 7

Utilized long bone: sheep metacarpal, category 6. Complete metacarpal, shaft slightly flattened on one surface. A slight circular depression on this surface is presumably an incomplete centrally placed perforation. A small area of the opposing face

has also been slightly flattened. Knife cuts visible on shaft. Slight polish. Length: 142 mm. Wt: 11.2 gm.

3.352 2249 (DA83 layer 873) cp 7

Utilized long bone: sheep metatarsal, category 6. Pierced down through the top of the proximal end; no further modification. Highly polished with transverse wear striations running around the shaft, most notably towards the distal end where a hollowed area has formed through wear. Length: 128 mm. Wt: 16.0 gm.

Tools manufactured from sheep's long bones: not illustrated

2021 (DA83 P2214 layer 2) cp 3

Utilized long bone: sheep tibia. Shaft fragment, broken at both ends. Artificially flattened, high polish, burnt, weathered. Wt: 7.9 gm.

2028 (DA83 P2263 layer 3) unphased

Utilized long bone: sheep tibia. Shaft fragment only, broken across both ends. Some artificial flattening of the shaft and fine parallel diagonal striations noted. Worn and polished. Wt: 11.7 gm.

2152 (DA84 layer 1053) unphased

Utilized long bone: sheep tibia. Broken across the shaft towards the distal end. Knife cuts visible. Polish on the shaft. Function uncertain. Wt: 21.4 gm.

2227 (DA82 layer 717) cp 7

Utilized long bone: sheep metatarsal. Shaft fragment, broken at both ends. The shaft is artificially flattened on one side and exhibits high polish. Weathered. ?Fragment from a gouge. Length: (incomplete) 75 mm. Wt: 6.7 gm.

2233 (DA82 P2115 layer 2) cp 7/8

Utilized long bone: sheep metatarsal. Sliced in half longitudinally, hollowed. Knife cuts visible on outer surface which is smoothed and exhibits very slight polish. Length: 123 mm. Wt: 10.8 gm.

2242 (DA82 P2000 layer 6) cp 7

Utilized long bone: sheep radius. The distal end and half of the shaft survives. The shaft is chopped into a roughly pointed end. Above this are three deep 'V'-shaped cuts along the edge of the shaft. Slight polish. Length: 84 mm. Wt: 7.7 gm.

2245 (DA82 P2016 layer 8) cp 7

Utilized long bone: sheep metatarsal. Sliced longitudinally; hollowed; proximal end missing. Knife cuts and polish on outer surface. Length: (incomplete) 88 mm. Wt: 8.1 gm.

2252 (DA82 P1992 layer 4) cp 7

Utilized long bone: sheep metatarsal. Shaft fragment only, broken across both ends. Artificially flattened faces, deep score marks down one face. Slight polish, particularly in area of score marks. Length: (incomplete) 64 mm. Wt: 7.0 gm.

2254 (DA81 P1904 layer 1) cp 3

Utilized long bone: sheep metatarsal. Pierced down through the proximal articulation. Score marks on the shaft, wear and high polish visible. Length: 119 mm. Wt: 14.6 gm.

2802 (DA86 P2549 layer 4) cp 7

Utilized long bone: sheep tibia. Long bone shaft, smoothed surface. Function unknown. Wt: 8 gm.

2873 (DA84 layer 1196) cp 7

Utilized long bone: sheep metatarsal. Shaft intact, both ends partly missing. Shaft polished and has visible horizontal grooves, running parallel in small clusters down one face of the shaft. Some evidence for a perforation transversely through the distal end. Length: 110 mm. Wt: 3.6 gm.

2877 (DA84 layer 1326) cp 7

Utilized long bone: sheep metatarsal shaft. Shaft only survives. Neatly cut across one end, now broken across the other end. The shaft is trimmed, smoothed and polished. The complete end is somewhat rounded. Wt: 9.7 gm.

2895 (DA86 P2561) cp 7

Utilized long bone: sheep metatarsal, category 3. Complete metatarsal. Slightly polished surface. Longitudinal 'V'-sectioned grooves run centrally along two opposing faces. Length: 124 mm. Max width of grooves: 3 mm. Wt: 14.8 gm.

2927 (DA86 G316 layer 1) cp 7

Utilized long bone: sheep metatarsal. Broken c half way down shaft and only half of remaining epiphysis survives. This is centrally pierced down through. Slight polish on shaft. Wt: 6.4 gm.

2930 (DA85 P2473 layer 4) cp 7

Utilized long bone: sheep metacarpal. Epiphysis and short length of shaft only survive. This is burnt and polished. Wt: 3.3 gm.

2932 (DA85 P2377 layer 9) cp 7

Utilized long bone: sheep metatarsal. Complete metatarsal. Highly polished shaft. Slight indentation and very faint short transverse grooves towards one end. Length: 126 mm. Wt: 18.1 gm.

Polished cow and horse metapodials: not illustrated

1660 (DA80 P1579 layer 14) cp 8

Polished long bone: horse metatarsal. Split longitudinally, part of the proximal end and part of the shaft survives. Worn and highly polished. Transverse grooves noted on the shaft. Length: 145 mm. Wt: 50.8 gm.

1961 (DA83 P2269 layer 1) cp 7

Polished long bone: cow metatarsal. Shaft fragment only. Highly polished and burnt. Wt: 42.9 gm.

1992 (DA83 P2261 layer 11) cp 7/8

Polished long bone: cow metatarsal. Proximal end and part of the shaft survives. Extremely worn at the epiphysis. Displaying high overall polish and patches of green staining, particularly on the epiphysis. Shaft burnt towards broken end. Length: 126 mm. Wt: 64.7 gm.

1997 (DA83 P2261 layer 7) cp 7/8

Polished long bone: cow metacarpal. Fragments from both ends survive. Worn, highly polished and excessively burnt. Slight traces of green staining on the distal end. Length: 157 mm. Wt: 51.3 gm.

1998 (DA83 P2184 layer 7) cp 6

Polished long bone: cow metatarsal, proximal end. Seven fragments from both ends and about half of the shaft, split longitudinally. Worn notably at the epiphyses. Highly polished overall and burnt. Wt: 57.7 gm.

1999 (DA83 P2270 layer 1) cp 7

Polished long bone: cow metatarsal. Complete metatarsal. Notably worn at the ends. Highly polished shaft, some knife cuts visible. Weathered. Length: 202 mm. Wt: 109.5 gm.

2019 (DA83 P2259 layer 4) cp 7

Polished long bone: horse metatarsal. Complete metatarsal. Knife cuts visible towards distal end. Both ends very worn. High polish overall. Length: 235 mm. Wt: 128.6 gm.

2020 (DA83 P2184 layer 6) cp 6

Polished long bone: horse metapodial. Two fragments from the distal epiphysis and a short piece of the shaft. Excessively burnt. Worn and highly polished. Wt: 36.2 gm.

2023 (DA83 P2261 layer 7) cp 7/8

Polished long bone: cow metatarsal, proximal end. Two small fragments from the distal epiphysis. Worn, highly polished and burnt. Wt: 13.1 gm.

2027 (DA83 P2296 layer 1) cp 7

Polished long bone: horse metatarsal. Most of bone survives. Notably worn at the proximal end, knife cuts noted towards the distal end. Polish on the shaft. Wt: 115.1 gm.

2058 (DA83 P2261 layer 7) cp 7/8

Polished long bone: horse metacarpal. Proximal epiphysis and about half of the shaft surviving. Worn, highly polished and burnt. Length: 147 mm. Wt: 86.1 gm.

2059 (DA83 P2238 layer 9) cp 3

Polished long bone: horse metacarpal. Near complete metacarpal. Knife cuts visible on shaft. Wear most noticeable at the end. High polish on shaft. Length: 252 mm. Wt: 191.9 gm.

2218 (DA83 P2184 layer 6) cp 6

Polished long bone: cow metatarsal. Fragment of shaft and proximal end. Worn, highly polished and burnt. Wt: 13.8 gm.

2219 (DA83 P2184 layer 7) cp 6

Polished long bone: cow/horse metapodial. Shaft fragment only survives, longitudinally split and broken at both ends. Highly polished and burnt. Wt: 11.6 gm.

2221 (DA83 P2261 layer 7) cp 7/8

Polished long bone: cow metacarpal, distal end. Four fragments from the distal end. Worn, highly polished and burnt. Wt: 18.5 gm.

2222 (DA83 P2261 layer 7) cp 7/8

Polished long bone: cow metatarsal. Distal end and a short length of shaft survive. Worn, highly polished and burnt. Wt: 43.4 gm.

2223 (DA83 P2261 layer 7) cp 7/8

Polished long bone: cow metatarsal. Part of the proximal end and about half of the shaft survives. Worn at the epiphysis and wear facets also noted on the shaft. Highly polished overall and burnt. Wt: 68.0 gm.

2243 (DA82 P2016 layer 8) cp 7

Polished long bone: cow metatarsal, proximal end. Proximal end and part of shaft survives. Very worn, particularly at the epiphysis. High surface polish all over. No wear on the break. Length: 77 mm. Wt: 9.6 gm.

2433 (DA86 P2534 layer 4) cp 7

Polished long bone: cow metacarpal, proximal end. Head and short length of long bone shaft. Polished. No other working apparent. Wt: 50 gm.

2814 (DA82 layer 724) cp 7

Polished long bone: cow metacarpal. No notable alteration to the bone. High degree of polish on bone shaft. Patches of burning at both ends. Length: 175 mm. Wt: 70 gm.

2866 (DA84 layer 1207) cp 7

Polished long bone: horse metapodial. Distal end survives only. Polish across epiphysis. Wt: 26.2 gm.

2869 (DA84 P2353 layer 5/6) cp 7

Polished long bone: cow metatarsal. Small shaft fragment surviving only, polished surface. Wt: 14.1 gm.

2874 (DA84 unstratified)

Polished long bone: cow metatarsal. Near complete long bone. High polish on shaft and distal end. Cut marks on shaft. Length: 185 mm. Wt: 108.0 gm.

Utilized antler tines: illustrated

3.353 1985 (DA83 P2256 layer 13) cp 7

Utilized antler tine. A tine which has been cut and smoothed neatly at both ends. Hollowed slightly at the wider end which is also notably degraded. The wider end is pierced through laterally. The object is decorated towards both ends, but on one side only, indicating the intended outer and uppermost face. The decoration at the wide end comprises an incised rectangle, emphasized by a second incised line towards the undecorated central portion of the object. Seventeen randomly placed ring-and-dot motifs occur within the rectangle. The decoration on the opposing end is very similar. Of the fourteen motifs in this section many are severely abraded. The side of this end, undecorated by the ring-and-dot motifs, has an incised line running parallel with the end. Polish, weathered. Length: 106 mm. Diam: 12.5-21 mm. Diam perforation: 7 mm. Wt: 18.7 gm.

3.354 1983 (DA83 P2261 layer 11) cp 7/8

Utilized antler tine. The tine has been cut at both ends. The wider end is pierced through laterally by a circular perforation. The wider end is decorated with two discontinuous parallel incised lines at the extreme edge. A further pair of incised lines is placed on a level with the perforation, one of these is visible on one side only. The zone thus defined contains one faint ring-and-dot motif only, but others may be obscured by iron staining. Burning occurs at the narrower end. High polish in places, particularly the narrow end. Weathered. Two notable wear facets on wider end, and a flattened area towards the narrow end lines up with one of these. Length: 116 mm. Diam: 15.5-22.5 mm. Diam perforation: 6 mm. Wt: 28.7 gm.

3.355 1959 (DA83 P2261 layer 7) cp 7/8

Utilized antler tine. Two fragments, one end of the tine missing. The narrow end has been cut, neatly smoothed and slightly hollowed. Evidence for a circular perforation is evident in the break across the opposing end. Decoration occurs at the narrow end in the form of incised lines describing two triangles, infilled with ring-and-dot motifs. Two motifs are visible outside the triangles. Excessively burnt and weathered. Length: 93.5 mm. Diam: 12.5-19.5 mm. Diam perforation: 6 mm. Wt: 15.0 gm.

3.356 1960 (DA83 P2261 layer 7) cp 7/8

Utilized antler tine. Cut and smoothed neatly at both ends, slightly hollowed and apparently longitudinally pierced at the wider end. Also laterally perforated at this end. Both ends are decorated. Ring-and-dot motifs at the wider end are arranged in

five parallel rows of four motifs each, except for the row in line with the perforation which has only three motifs. At the narrower end, ring-and-dot motifs are also arranged in rows of three or four motifs in each, but in some places they are totally worn away. Knife cuts and slices at the narrow end indicate trimming during the life of the object, as they interrupt motifs. Smoothed surface, burnt and very worn. The longitudinal perforation may indicate that the object was being converted into a handle. Length: 101 mm. Diam: 13-22 mm. Diam lateral perforation: 6 mm. Diam longitudinal perforation: 7 mm. Wt: 18.6 gm.

3.357 1948 (DA83 P2261 layer 7) cp 7/8

Utilized antler tine. Fragment from the wider end of an antler tine, cut across and neatly smoothed. Broken across a circular perforation. Slight faceting at the very end. Iron staining, high polish and burnt. Length: 43.5 mm. Diam: (max) 22 mm. Diam perforation: 7 mm. Wt: 7.5 gm.

Miscellaneous bone and antler items: illustrated

3.358 1501 (DA79 ph 3839 layer 2) cp -

Handle: antler tine. A fragmentary handle, deliberately hollowed and neatly finished at both ends; now split longitudinally. Slight polish, much weathered. Length: 71 mm. Wt: 5.5 gm.

3.359 2324 (DA85 P2447 layer 1) cp 7

Handle: antler tine. A fragmentary handle, split longitudinally. The outer surface is smoothed and the two ends are neatly cut across. Hollowed, more notably at one end which presumably would have taken the tang. Slight iron staining on the inner surface. Slight polish. Weathering. Length: 63 mm. Diam: 15-16.5 mm. Wt: 5.8 gm.

3.360 2216 (DA82 P1981 layer 9) cp 7

Handle: antler. Worked fragment, probably a handle. Broken at one end. Deliberately sliced longitudinally, and partially hollowed towards the unbroken end which is neatly cut and smoothed. All surfaces smoothed. Burnt. Length: (incomplete) 64 mm. Width: 19 mm. Wt: 9.0 gm.

3.361 2248 (DA82 P2121 layer 3) cp 7

Handle: antler tine. Fragmentary handle, broken across both ends. There are two circular rivet holes on one side of the narrower end, positioned one above the other. The hole furthest from the broken end has an iron rivet in situ. At 90° to the rivet holes is an irregular slot running the entire width of the tine. This presumably held a ?tang which was secured by the rivets. There is iron staining within the slot and on the external surface of the handle. Smoothed; very slight polish visible. Length: (incomplete) 63 mm. Diam: 19-21 mm. Diam rivet holes: 4 mm. Slot: (length) 18.5 mm, (width) 3 mm. Wt: 12.0 gm.

3.362 1809 (DA82 P2089 layer 6) cp 7

Toggle: antler tine. A complete cylindrical toggle. Cut neatly across both ends and pierced through the centre by an elliptical perforation. Polish; slight weathering. Length: 69.5 mm. Diam: 15.5-19 mm. Perforation: (length) 19.5 mm, (width) 8.5 mm. Wt: 11.8 gm.

3.363 1505 (DA79 P1162 layer 1) cp 6

?Handle: antler fragment. Squared and finished on three sides, broken across the fourth. Exact form unknown. Slight polish; weathering. Width: 17.5 mm. Thickness: 8 mm. Wt: 4.4 gm.

3.364 1506 (DA79 P1218 layer 1) cp 6

Toggle fragment: antler. Small fragment only, one end complete, neatly cut and smoothed. Polished, burnt, weathered. Width: 14 mm. Thickness: 5 mm. Wt: 1.0 gm.

3.365 1810 (DA82 P2110 layer 2) cp 7

Perforated object: sheep metatarsal shaft. Cut neatly across at both ends, but split longitudinally. One side is artificially flattened. Perforations occur at each end on the flattened side. There were apparently opposing perforations on the other side, but these are now mostly broken away. High polish, slight weathering, burnt. Length: 40 mm. Diam: 9.5 mm. Diam perforations: 4.5 mm. Wt: 2.2 gm.

3.366 2805 (DA87 P2572 layer 1) cp 7

Worked peg or point: bone fragment. Small piece of bone, rounded and smoothed, slightly tapering. As the object is broken its exact form is not clear, but it may be a point. Wt: 2 gm.

3.367 1842 (DA82 P2110 layer 5) cp 7/8

Perforated object: antler. Intact on three sides, broken across the fourth. Deliberately sliced longitudinally. The complete end has been sawn across and slightly trimmed. Close to the end is a centrally placed circular perforation. Smoothed on all surfaces. Polish, weathered, burnt. Length: 47 mm. Width: 14-18 mm. Thickness: 7-11 mm. Diam perforation: 5 mm. Wt: 5.1 gm.

3.368 2549 (DA87 layer 1645) cp 7

Knife spatula: ?rib fragment. Thin flat piece of bone tapering to a rounded tip at the unbroken end. Both surfaces smoothed. Diagonal score mark on one surface may be a form of decoration. Length: (incomplete) 50 mm. Width: 8-17 mm. Thickness: 1-2 mm. Wt: 2 gm.

3.369 1987 (DA83 P2256 layer 8) cp 7

Spindle whorl: cow femur head. The proximal end has been cut across and removed from a cow femur. It is perforated by a longitudinal, off centre, countersunk, circular perforation. Burnt, much weathered. Diam: 42 mm. Diam perforation: 4-6 mm. Wt: 24.6 gm.

3.370 2154 (DA84 ph 8990 layer 1) cp 3

Perforated scapula: pig. Perforated diagonally through the articulation, the end of the perforation appearing at the neck. Scapula blade now much broken but polish visible particularly along the edges. Diam perforation 5-6 mm. Wt: 39.5 gm.

Bone and antler working debris: illustrated

3.371 2212 (DA80 P1521 layer 1) cp 6

Worked fragment: antler tine. Broken across the wider end. The surface is scored with knife cuts and saw marks. Trimming facets are also visible. The tip is considerably smoothed with visible polish. Weathered. Length: (incomplete) 149 mm. Wt: 21.2 gm.

3.372 1565 (DA79 P1346 layer 8, cp 3

Worked fragment: antler tine. Tip broken, wider end cut or sawn across. A knife score runs diametrically across the cut end and there is also a small circular depression. Smoothed and flattened facets run parallel with its length. High polish in places. Burnt. Length: (incomplete) 127 mm. Diam: 11-16 mm. Wt: 20.9 gm.

3.373 2238 (DA82 P1982 layer 2) cp 7

Worked fragment: antler tine. Broken across both ends. Smoothed outer surface. Slight polish, weathering. Length: (incomplete) 82 mm. Diam: 10-20 mm. Wt: 15.1 gm.

3.374 1855 (DA82 P1881 layer 9) cp 7

Worked fragment: antler tine. Roughly cut across wider end, broken across other end. Hollowed at wider end with some iron staining. May be a handle? Polish, burnt. Length: (incomplete) 45 mm. Diam: 14-16.5 mm. Wt: 5.5 gm.

3.375 2334 (DA82 P1982 layer 2) cp 7

Worked fragment: antler tine. Fresh breaks at both ends. Smoothed surface with some iron staining. Polish. Length: (incomplete) 48 mm. Diam: 11-15.5 mm. Wt: 3.5 gm.

3.376 1870 (DA82 P2163 layer 6) cp 3

Worked fragment: antler tine. Neatly cut across wider end. Trimmed to a point at the tip resulting in faceting. Smoothed surface. High polish, some weathering, burnt. Length: 50.5 mm. Diam: 7-15 mm. Wt: 6.7 gm.

3.377 2024 (DA83 P2261 layer 7) cp 7/8

Worked fragments: antler tine fragments. A number of fragments all showing working and wear. Smoothed surfaces, cut marks and facets. Burnt. Wt: 10.6 gm.

3.378 1854 (DA82 P1981 layer 6) cp 7

Worked fragments: antler tine. Longitudinally split and broken at one end. The wider end has been cut across. A series of discontinuous knife cuts encircle the shaft towards the broken end. Smoothed surface exhibiting high polish. Weathered and burnt. Possibly a handle fragment. Length: (incomplete) 61 mm. Width: 21-23 mm. Wt: 12.7 gm.

3.379 2724 (DA88 P2591 layer 1) cp -

Cut fragment, ?ring: antler. Small slice cut through an antler tine, some of the central cavity missing but no apparent subsequent working. Diam: (max) 24 mm. Thickness: 5 mm. Wt: 2 gm.

3.380 2236 (DA82 P1981 layer 6) cp 7

Worked fragment: antler. The base, burm and part of the brow tine survive. The burm is particularly smoothed and polished by wear. Broken across the burm and split along the tine. The tine however has been neatly cut across and hollowed. The tine is pierced by a circular perforation, now broken across, on one side. Where the tine meets the beam are two bowl-shaped depressions, now broken across. Extensively burnt. Diam perforation: 5 mm. Diam depressions: 9 mm. Diam tine: 12 mm. Wt: 40.6 gm.

3.381 2056 (DA83 P1992 layer 7) cp 7

Horn core: cattle horn core. Saw cuts run around the horn core base. No other alteration. ?Manufacturing waste. Width of cut: 5 mm. Wt: 22.2 gm.

3.382 1869 (+ 1905) (DA82 P1981 layers 7 and 9) cp 7

Object: antler. Fragmentary object, possibly originally roughly circular and flat. One of the flat surfaces has been bored with two circular bowl-shaped depressions, one of which is now broken across. All surfaces are smoothed and exhibit high polish. Burnt. Very similar to 3.383. Thickness: 14.5 mm. Depressions: (diam) 11.5 mm, (depth) 7 mm. Wt: 23.9 gm.

3.383 1910 (DA82 P1981 layer 6) cp 7

Object: antler. Fragmentary object, perhaps originally hexagonal in shape but one side only is intact. The upper surface has been smoothed. Two bowl-shaped depressions are

evident on this surface, one now broken across. Small area of iron staining on upper surface. The lower surface is badly damaged, the intact edge is rounded and smoothed. Polish, weathered, burnt. Thickness: 13 mm. Depressions: (diam) 11 mm, (depth) 6 mm. Wt: 14.1 gm.

3.384 2251 (DA82 P1981 layer 2) cp 7

Worked fragment: antler beam. Part of the end, neatly cut across and smoothed, survives. Hollowed. There is a circular perforation through the antler wall, now broken across, and a small roughly circular depression close to this on the outer surface. Smoothed surface, polish, burnt. Diam perforation: c 8 mm. Diam depression: 4 mm. Wt: 9.4 gm.

3.385 2246 (DA83 P2261 layer 6) cp 7/8

Worked fragment: antler tine. Broken at both ends. A long slot pierces one end. This has been worn significantly into a hollow on one side. The bottom of the slot also shows much wear. Original antler surface retained. Smoothness through wear evident within slot. Burnt. Length: (incomplete) 62 mm. Slot: (incomplete length) 27 mm, (width) 5 mm. Diam: 18 mm. Wt: 9.8 gm.

3.386 2643 (DA87 P2580 layer 2/F324) cp 7

Worked fragment: antler. Small sawn piece of antler. Function unknown. Green staining may indicate association with a copper alloy metal. Wt: 12 gm.

3.387 2924 (DA88 layer 1969) cp 7

Worked bone fragment. Very small fragment showing signs of shaping and polish. Carved into the form of a phallus. Wt: 4.5 gm.

Miscellaneous worked antler fragments: not illustrated

2022 (DA83 P2191 layer 5) cp 7

Worked fragment: antler. Part of the beam and a short section of tine surviving. Split longitudinally. Smoothing through wear evident. Of convenient size to hold in the hand. Length: 153 mm. Wt: 123.5 gm.

2055 (DA83 P1986 layer 1) cp 7

Worked fragment: antler. The burr, beam and part of a tine surviving. Beam is flattened and smoothed through wear. Knife marks, wear striations and some transverse wear grooves/indentations noted on beam. Breaks across beam and tine worn smooth. Slight polish visible. Possibly used in weaving to separate warp threads. Length: 134 mm. Wt: 25.6 gm.

2206 (DA80 P1579 layer 1) cp 8

Worked fragment: antler. Sawn across the beam and tines. Additional saw and knife cuts on surface. Wt: 177.9 gm.

2208 (DA80 P1452 layer 4) cp 7

Worked fragments: antler. Two small fragments, one is sawn across one end, both have partly smoothed surfaces. Wt: 9.0 gm.

2209 (DA80 P1452 layer 5) cp 7

Worked fragments: antler. Two small burnt fragments, outer surfaces smoothed by wear, knife cuts visible. Wt: 13.7 gm.

2210 (DA80 P1452 layer 6) cp 7

Worked fragments: antler. Two burnt fragments, outer surfaces smoothed by wear. Wt: 8.1 gm.

2211 (DA80 P1452 layer 9) cp 7

Worked fragment: antler. Cut fragment, outer surface smoothed, burnt. Wt: 27.7 gm.

2215 (DA80 P1530 layer 2) cp 7/8

Worked fragments: antler. Four fragments, all sawn across. No wear evident. Wt: 93.6 gm.

2220 (DA83 P2261 layer 7) cp 7/8

Worked fragments: antler. Two joining burnt fragments. Smoothed surface, knife cuts visible. Wt: 9.6 gm.

2230 (DA82 layer 716) cp 7

Worked fragment: antler. Small fragment, one surface flattened, smoothed and exhibiting high polish. Some wear on all surfaces. Burnt. Thickness: (max) 10 mm. Wt: 2.5 gm.

2235 (DA82 P2044 layer 1) cp 6

Worked fragments: antler. The base and beam represented by six fragments, one large, five small, probably from the same piece. The base is scored with a number of apparently random knife cuts. Outer surface of beam removed. Burnt and highly worn. Slight polish on base. Diam: (max) 50 mm. Length: 47 mm. Wt: 53.2 gm.

2239 (DA80 ph 6272 layer 1) cp -

Worked fragment: antler. Antler tine fragment, partly sawn across both ends and hollowed. ?Unfinished toggle. Length: 56 mm. Diam: 32.5 mm. Wt: 25.3 gm.

2241 (DA80 ph 5851 layer 2) cp -

Worked fragment: antler. Tine fragment, neatly cut across at the base, split longitudinally and partly cut/partly broken across at the other end. Partly hollowed, slight polish on outer surface, weathered. ?Unfinished toggle. Length: 59 mm. Diam: 28.5 mm. Wt: 13.2 gm.

2335 (DA82 P1981 layer 6) cp 7

Worked fragment: antler. Small beam fragment. Burnt, smoothed surface. Evidence for a circular perforation, now broken across. Polished and particularly smooth around perforation. Wt: 5.2 gm.

2336 (DA82 P1981 layer 6) cp 7

Worked fragment: antler. Small burnt fragment of beam. Smoothed surface. Wt: 4.9 gm.

2727 (DA88 layer 1967) cp 3

Worked fragment: antler. Highly polished outer surface. Burnt. Wt: 10 gm.

2771 (DA88 P2587 layer 5) cp -

Worked fragment: antler. Fragment of a piece cut from an antler tine. Saw/cut marks across one end and a certain amount of smoothing on the outer face. Indeterminate function. Burnt. Wt: 6 gm.

2812 (DA82 layer 719) cp 7

Worked fragment: antler. Small flat fragment. Smoothed along one edge. Slight polish visible. Burnt. Thickness: 4-5 mm. Wt: 2.6 gm.

2813 (DA82 P2032 layer 6) cp 7

Worked fragment: antler tine. Neatly cut across one end, broken at the other end. Possible evidence for a slot piercing the now broken end. Smoothed surfaces. Extremely weathered and burnt. Some green staining on the surface. Length: (incomplete) 53 mm. Diam: 13-14 mm. Wt: 3.4 gm.

2864 (DA84 P2346 layer 4) cp 7/8

Worked fragment: antler base. Base smoothed and polished. Wt: 8.1 gm.

2894 (DA86 P2561 layer 2) cp 7

Worked antler. Complete tine, sawn off and smoothed somewhat across the base. Surface smooth and exhibiting slight polish in places, particularly towards the tip. Longitudinal fine striations noted along with a few short transverse cut marks. Length: 128 mm. Width: 9-35 mm. Thickness: 12-18 mm. Wt: 43.8 gm.

2926 (DA85 P2443 layer 1) cp 7/8

Worked antler. Tip of an antler tine only, apparently removed by sawing. Outer surface extremely smooth. Some longitudinal and diagonal striations/tool marks visible. Notch cut out on one side. Length: 46 mm. Diam: 8-15 mm. Wt: 6.3 gm.

Miscellaneous worked bone: not illustrated

2030 (DA83 P2178 layer 4) cp 7

Worked fragment: cow scapula. Three fragments. Knife cuts and polish visible particularly towards the neck. Wt: 99.2 gm.

2057 (DA83 P2295 layer 1) cp 3

Worked fragment: ?horse metapodial. Small shaft fragment. High polish, burnt. Wt: 5.0gm.

2091 (DA83 P2248 layer 7) cp 7

Worked fragment: cow size fragment. Small shaft fragment. Polish on both inner and outer surfaces. ?Toggle fragment. Wt: 3.5 gm.

2092 (DA83 P2286 layer 5) cp 7

Worked fragment: sheep. Small shaft fragment, artificial flattening and polish visible. Wt: 1.5 gm.

2140 (DA84 ph 8989 layer 1) cp 3

Worked fragment: sheep rib. Short fragment, broken at both ends. Highly polished, burnt Wt: 1.2 gm.

2141 (DA84 ph 8989 layer 2) cp 3

Worked fragment: sheep rib. Short fragment, broken at both ends. High polish, burnt. Wt: 1.1 gm.

2207 (DA80 P1511 layer 8) cp 7

Worked fragment: horse radius. Split longitudinally by means of a series of rough saw cuts. Possibly results from the removal of bone splinters to make points and needles. Wt: 76.0 gm.

2237 (DA79 P1258 layer 3) cp 3

Worked fragment - splinter: cow sized long bone. Tapers at one end to a thin flat point, sub-rectangular in section. The point tip is broken, with wear subsequent to breakage. Smoothed upper surface with very fine transverse cut marks visible. Slight polish overall, more notable polish at the point. Length: (incomplete) 112 mm. Width: 8-28 mm. Thickness: 4 mm. Wt: 9.6 gm.

2244 (DA82 P2030 layer 4) cp 6

Worked fragments: cow scapula. Four fragments probably from the same scapula. Knife cuts, trimming of the spine and slight polish visible. Wt: 88.0 gm.

2255 (DA81 P1793 layer 3) cp 7

Worked fragment: cow scapula. Chopped and broken across the scapula blade. Polish visible. Wt: 71.9 gm.

2566 (DA87 P2570 layer 2) cp 7

Worked fragment: bone fragment. Very small fragment of bone. Extremely smooth surface suggests working. Green staining suggests association with a copper alloy metal.

2577 (DA87 layer 1734) cp 6

Worked fragment: cow metatarsal fragment. Fragment of long bone. Smoothed surface. Burnt. Wt: 6 gm.

2614 (DA87 layer 1856) cp 7

Worked fragment: sheep femur. Small bone fragment. Smoothed surface, function indeterminate. Wt: 2 gm.

2639 (DA87 layer 1867) cp 7

Worked fragment: bone fragment, ?rib. Small fragment of bone, smoothed surface. Wt: 2 gm.

2666 (DA86 P2535 layer 6, sample 6663) cp 7

Worked fragment: bone fragment. Possible tip from a spatula-like object. Small flat piece of bone tapering to a point at the unbroken end. Smoothed, polished and burnt. Thickness: 1.5-3 mm. Wt: 0.5 gm.

2865 (DA84 P2371 layer 5) cp 5

Worked fragment: cow/horse scapula. Small scapula blade fragment. Polish on one surface. Wt: 56.8 gm.

2867 (DA84 layer 1207) cp 7

Worked fragment: horse scapula. Articulate end only survives. Articulation trimmed around the edges. Slight polish on most surfaces. Wt: 73.4 gm.

2868 (DA84 P2353 layer 7) cp 7

Worked fragment: ?horse metapodial. Small shaft fragment. Burnt and highly polished. Wt: 6.7 gm.

2870 (DA84 layer 1257) cp 7

Worked fragment: cow scapula. Articulate end only survives. Polish visible on most surfaces. Articulation trimmed. Wt: 32.2 gm.

2871 (DA84 P2369 layer 2) cp 4

Worked fragment: pig scapula. Near complete scapula. Polished towards and across the articulation. Some trimming of the articulation. Wt: 6.7 gm.

2872 (DA84 P2347 layer 10) cp 7

Worked fragment: cow/horse metapodial fragment. Slice of long bone, score marks and polish on outer surface, slight polish on inner surface. Partially burnt. Length: 145 mm. Width: 14-16 mm. Wt: 19.2 gm.

2875 (DA84 layer 1079) cp -

Worked bone fragment: goat horn core. Broken across base and tip. Cut marks noted towards base. Wt: 13.4 gm.

2879 (DA84 P2371 layer 5) cp 5

Worked fragment: horse scapula. Articulate end of scapula only. Polish evident on most surfaces, but not on articulation itself. Wt: 74.3 gm.

2893 (DA86 P1114 layer 3) cp 6

Worked bone: ?pig long bone. Broken at one end. Smoothed shaft. Two 'U'-sectioned grooves running centrally and longitudinally down opposing faces. Max width of groove: 4 mm. Wt: 17.6 gm.

2900 (DA87 layer 1644) cp 7

Point: bone fragment. Small slither of bone. Highly polished. Wt: 0.6 gm.

2901 (DA87 layer 1644) cp 7

Worked bone fragment. Long bone fragment (?sheep) which has been longitudinally sliced. Cut edge and outer bone surface smooth and exhibiting slight polish. Width: 8 mm. Thickness: 3 mm. Wt: 1.7 gm.

2923 (DA85 P2372 layer 10) cp 7

Worked bone: horse scapula. Polished surfaces. Wt: 163.5 gm.

2929 (DA85 P2318 layer 4) cp 7

Worked bone: horse scapula. Polished surface possibly through handling. Wt: 101.3 gm.

2931 (DA85 P2435 layer 5) cp 7/8

Worked bone: cattle metacarpal. Distal epiphysis only which has been chopped transversely to remove from the shaft and sliced in half longitudinally. Slight polish noted on surfaces. Wt: 12.4 gm.

2934 (DA84 layer 1369) cp 5

Worked bone: rib - ?cattle. Cut in a zig-zag fashion across the rib. Wt: 23.3 gm.

2935 (DA88 layer 1997) cp 4

Utilized long bone: sheep tibia. Epiphysis only survives. This is pierced down through and has evidence of a small transverse perforation. Wt: 2.0 gm.

Summary list of Shale

Bracelets	4.9	2310	layer 1496	cp 6
	4.10	2437	layer 1571	cp 7
	4.11	2272	P2448 layer 1	cp 7
	4.12	2681	layer 1974	
Bead	4.13	2125	F168 layer 1153	cp 7
Ring	4.14	1792	layer 716	cp 7
Roughout	4.15	2303	P2447 layer 4	cp 7
Raw material	4.16	1596	P974 layer 1	cp 7
	4.17	2138	layer 1213	cp 7

Shale

4.9 2310 (DA85 layer 1496) cp 6

Bracelet fragment. Approximately one third of a well-finished shale bracelet. Hand cut with faint tooling marks visible on the innermost surface. Sub-triangular in cross section with a deep indented score mark running around the outer edge giving a rim-like appearance. Diam: (external) 100 mm, (internal) 80 mm. Width: 8-11 mm. Thickness: 11 mm. Wt: 11.70 gm.

4.10 2437 (DA86 layer 1571) cp 7

Bracelet fragment. Small fragment from a hand-cut shale bracelet. Oval or circular in cross section, though only a portion remains. Smooth, but undulating surface finish. Diam: (external) 80 mm, (internal) 60 mm. Width: 8 mm. Wt: 1.90 gm.

4.11 2272 (DA85 P2448 layer 1) cp 7

Bracelet fragment. Small fragment from a hand-cut shale bracelet, some slight undulations from tooling visible on the innermost surface. Sub-oval/somewhat pear-shaped in cross section with a smooth surface finish. Diam: (external) 100 mm, (internal) 80 mm. Width: 10 mm. Thickness: 11 mm. Wt: 3.50 gm.

4.12 2681 (DA88 layer 1974)

Bracelet fragment. Hand cut, roughly oval in cross section, but somewhat flattened around outer edge. Smooth overall finish. Diam: (external) 95 mm, (internal) 80 mm. Width: 7 mm. Thickness: 10 mm. Wt: 3.40 gm.

4.13 2125 (DA84 F168 layer 1153) cp 7

Bead. Sub-rectangular in cross section with convex sides and edges. Countersunk central perforation with faint tool-cut marks. Broken along bedding plane. Diam: 27 mm. Diam. perforation: 5-9 mm. Wt: 6.40 gm.

4.14 1792 (DA82 layer 716) cp 7

Ring. Small oval-sectioned ring. Precisely smoothed and finished surface. Particularly even on the innermost face, probably due to wear. ?Finger ring, although it seems a little small. Diam: (internal) 12 mm, (external) 22 mm. Width: 5 mm. Thickness: 4.5 mm. Wt: 0.80 gm.

4.15 2303 (DA85 P2447 layer 4) cp 7

Roughout (bracelet). Large, roughly-cut circular ring of shale, with a countersunk central hole. Flat top and bottom faces, extensive tool marks visible around the outer edge and within the central hole, resulting in many small facets. Within the hole tool marks are clear enough to establish that a small round-ended blade or gouge-like tool with a maximum width of 8 mm was being used. Diam: (external) 98 mm, (internal) 39-57 mm. Width: 31 mm. Thickness: 28 mm. Wt: 243.87 mm.

4.16 1596 (DA77 P974 layer 1) cp 7

Worked fragment. Flat, relatively thick, sub-angular piece of worked shale. Three cut edges form approximately one third of a roughed out disc. The object is split in two along the horizontal plane. Length: 91 mm. Thickness: 18 mm. Wt: 76.50 gm.

4.17 2138 (DA84 layer 1213) cp 7

Worked fragment. Small irregularly-shaped piece of worked shale. Concentric striations on one face suggest possible lathe turning. Thickness: 11-14 mm. Wt: 6.70 gm.

Summary list of Beads of glass

publication no.	small finds no.		ceramic phase
6.9	1852	P2100 layer 2	cp 3
6.10	2017	layer 954	cp 7
6.11	2483	P2534 layer 10	cp 7

Glass beads: technical details
by Julian Henderson

Chemical composition of the glass (weight % oxide)

For details of the conditions of the analysis (Electron-probe microanalysis), see Henderson 1988.

Bead	1852	1852	2017	2483
Matrix/decn.	M.	D.	M.	M.
Colour	blue	white	green	blue
Element oxide				
Na_2O	12.40	17.60	16.2	18.0
MgO	0.4	0.3	0.7	1.3
Al_2O_3	2.2	2.7	2.7	2.4
SiO_2	72.6	70.4	70.0	64.6
P_2O_5	0.1	ND	ND	0.1
SO_3	0.1	0.2	0.3	0.3
Cl	0.8	0.4	0.8	1.0
K_2O	1.1	0.6	0.6	0.9
CaO	7.6	5.1	7.5	8.5
TiO_2	ND	0.1	ND	ND
MnO	0.5	ND	0.6	1.0
Fe_2O_3	0.8	0.8	0.4	0.7
CoO	0.16	ND	ND	0.2
NiO_2	ND	ND	ND	ND
CuO	0.4	0.1	ND	0.2
ZnO	ND	0.1	ND	ND
As_2O_3	ND	MDL	ND	ND
SnO_2	ND	ND	ND	ND
Sb_2O_3	ND	3.4	0.6	ND
PbO	0.3	0.1	ND	0.06

ND = not detected; MDL = minimum detectable level.

6.9 Sf 1852, cp 3. The opaque white glass which forms the trailed on spiral decoration is compositionally distinct from the blue matrix of the bead. This different composition, perhaps the higher levels of antimony, has reduced the durability of the white glass. The opaque white spirals are roughly wound and two of them have tails which begin to turn back onto the spiral. Once trailed into place the spirals would have been marvered into the bead surface.

6.10 Sf 2017, cp 7. The pattern of weathering on the outside of the bead, a series of very shallow circumferential grooves, indicates that the glass was probably wound into place on the metal former on which it was made. Cracking of the glass around the central hole was probably caused when the central rod expanded and contracted when the bead was still in place.

6.11 Sf 2483, cp 7. As for no. 6.9, the opaque decorative glass is more highly weathered, probably due to its different chemical composition from the bead matrix. Weathered grooves on the bead surface reveal the way in which the filaments of glass were aligned. The bead manufacture involved a technique which has been found in many Continental ring beads of La Tène C or D date. A rod of glass was wound around a metal rod former and the two ends fused to create a ring. More glass was gathered onto the ring and the entire object probably spun to regularize the bead shape. Such a technique is inferred from the presence of striations which curve across the bead surface from the central hole, in a radial fashion. Part of the outer layer of glass has become detached revealing the underlying ring bead of a smaller diameter.

Summary list of objects of Baked clay

Publ no	SF no	Context	Phase
Slingshots			
7.72	2329	DA85 P2447(5)	cp 7 El
7.73	2137	DA84 L1241	cp 6 Ek=cp 7
7.74	2527	DA81 P1715(7)	cp 3
7.75	2128	DA84 L1151	cp 7 Fm=cp 8
7.76	2050	DA83 (+)	-
7.77	2307	DA85 P2425(2)	cp 7 Ei-k
Ceramic Balls			
7.78	2548	DA86 L1560	cp 6 Dj2=cp 7
7.79	2644	DA87 P2580(4)	cp 7 Dj1
7.80	2608	DA87 P2572(5)	cp 7 Dj2
7.81	2703	DA88 L1963	cp 6 Hk
7.82	2505	DA86 P2568(1)	cp 3 Dg=cp 6/7
7.83	2533	DA82 P2030(3)	cp 6
7.84	2546	DA84 P2361(3)	cp 5 Ei-l=cp 7
7.85	2749	DA88 L2006	cp 6 Hi
Spindle Whorls			
7.86	1990	DA83 P2199(3)	cp 5
7.87	1994	DA83 L947	cp 3 Fi=cp 7
7.88	1770	DA80 (+)	-
7.89	1643	DA80 P1569(5)	cp 3
7.90	2910	DA86/87/88 (+)	-
7.91	1563	DA79 P1333(9)	cp 7
7.92	2600	DA87 P2578(2)(3)	cp 6 Dα-l
7.93	2506	DA86 P1137(5)	cp 5 Di1=cp 7
7.94	2077	DA83 P2256(11)	cp 7
7.95	2135	DA84 L1163	cp 3 Em=cp 8
7.96	2408	DA86 P1127(3)	cp 4
7.97	2496	DA86 P2510(7)	cp 5
7.98	2908	DA86 P2534(6)	cp 7
7.99	2909	DA86 L1573	cp 7 Dj2
Pottery Discs			
7.100	2186	DA82 P2347(7)	cp 7 Ei-l
7.101	2082	DA80 P1455(1)	cp 6/7
7.102	2083	DA81 P1646(1)	cp 7
7.103	1808	DA82 P2163(4)	cp 7 Ff-k

Publ no	SF no	Context	Phase
Clay Weights			
7.104	2521	DA80 P1411(6)	cp 3/8 Ia=cp 3
7.105	1649	DA80 P1411(6)	cp 3/8 Ia=cp 3
7.106	2522	DA80 P1411(6)	cp 3/8 Ia=cp 3
7.107	2523	DA80 P1411(6)	cp 3/8 Ia=cp 3
7.108	1648	DA80 P1411(6)	cp 3/8 Ia=cp 3
7.109	2936	DA80 P1411(6)	cp 3/8 Ia=cp 3
7.110	1923	DA81 P1768(8)	cp 6/7
7.111	2543	DA81 P1768(8)	cp 6/7
7.112	1732	DA81 P1768(4)	cp 6/7
7.113	1924	DA81 P1768(8)	cp 6/7
7.114	1684	DA81 Ph 7474(1)	-
7.115	1686	DA81 Ph 7474(1)	-
7.116	1687	DA81 Ph 7474(1)	-
7.117	1694	DA81 Ph 7474(1)	-
7.118	1689	DA81 Ph 7474(1)	-
7.119	1690	DA81 Ph 7474(1)	-
7.120	1693	DA81 Ph 7474(1)	-
7.121	1688	DA81 Ph 7474(1)	-
7.122	2530	DA81 Ph 7474(1)	-
7.123	2572	DA87 P2570(4)	cp 6 Di1=cp 7
7.124	2634/2633	DA87 L1914/1913	cp 6 Dq-h
7.125	2576	DA87 P2570(3)	cp 6 Di1=cp 7
7.126	2571/2634	DA87 P2570(4)/L1914	cp 6 Di1=cp 7
7.127	2902	DA87 P2570(3)(4)(5)	cp 6 Di1=cp 7
7.128	1708	DA81 P1687(4)	cp 8
7.129	1906	DA82 P2047(1)	cp 7
7.130	1904	DA82 P2110(5)	cp 8
7.131	2497	DA86 P2541(7)	cp 6
7.132	1941	DA83 P2259(3)	cp 6 Fk=cp 7
7.133	1513	DA79 Ph 4568(1)	-
7.134	1647	DA80 P1530(2)	cp 8
7.135	1707	DA81 P1820(2)	cp 7
7.136	2542	DA79 P1224(3)	cp 7
7.137	2171	DA84 L1207	cp 7 Ej
7.138	2544	DA82 P2032(6)	cp 7
7.139	1542	DA79 P1224(13)	cp 7
Metalworking Accessories			
7.140	2778	DA88 L2047	cp 4 Hb
7.141	2774	DA88 L2050	cp 1/3 Hc
7.142	2682	DA88 P2590(9)	cp 7 Hl
7.143	2760	DA88 L1997	cp 4 Hd
7.144	2807	DA80 Ph 6954(2)	-
7.145	2880	DA88 L2039	cp 3 Hd
7.146	2792	DA88 L2080	cp 4 Hb
7.147	2075	DA83 P2196(2)	cp 8
7.148	1608	DA80 (+)	-
7.149	2777	DA88 L2006	cp 6 Hi=cp 7
7.150	2916	DA80 F84(666)	cp 5 Hk=cp 7

Slingshots

7.72 DA85 P2447(5) SF:2329 S:6384 cp7 El

Slingshot: Length 43 mm
Width 27 x 30 mm
Weight 34.5gm
Fabric F

This slingshot is complete, except for slight damage at one end. It is of pointed ovoid shape.

7.73 DA84 L1241 SF:2137 S:7198 cp6 Ek = cp7

Slingshot: Length 40 mm
Width 26 mm
Weight 24.5gm
Fabric J

This slingshot is complete except for slight surface damage to one side. It is of pointed ovoid shape, with a very smooth surface and well formed.

7.74 DA81 P1715(7) SF:2527 S:4000 cp3

Slingshot: Length 31 mm
Width 22 mm
Weight 12.5gm
Fabric L

This slingshot is incomplete, having suffered damage and distortion as a result of being in a flotation sample, from which it was retreived during flotation before it totally disintegrated being entirely unfired. It appears to have been of typical pointed ovoid shape.

7.75 DA84 L1151 SF:2128 S:7195 cp7 Em = cp8

Slingshot: Length 43 mm
Width 28 x 30 mm
Weight 34gm
Fabric K

This slingshot is complete, except for a slight chip at one end. It is of pointed ovoid shape, very even and symmetrical, with a well smoothed surface.

7.76 DA83 (+) SF:2050 S:5623 cp-

Slingshot: Length 43 mm
Width c.30 mm
Weight 20.5gm
Fabric A

Roughly half of this slingshot survives. It has a pointed ovoid shape with slightly rounded ends and a very smooth surface.

7.77 DA85 P2425(2) SF:2307 S:6353 cp7 Ei-k

Slingshot: Length +30 mm (estimated total - 50 mm)
Width 30 mm
Weight 21gm
Fabric A

Slightly less than half of this slingshot survives. What survives clearly shows it is of pointed ovoid shape. It has a very smooth surface.

DA88 P2612(2) SF:2914 S:8033 cp7 Hf

Slingshot: Length c.50-55 mm
Width c.32-34 mm
Weight 6gm
Fabric J

These two fragments appear to be part of the same object and both have a very smooth convex surface. The general appearance and characteristics suggest slingshot as the most likely function.

Ceramic balls

7.78 DA86 L1560 SF 2548 S6956 cp 6 Dj2 = cp 7

Clay ball: Diameter 30 x 25 mm
Height 28 mm
Weight 19 gm
Fabric F

This object takes the form of a roughly spherical ball, but very irregularly formed. On the more flattened area there are three parallel grooves 10 mm apart, that look as though it had been pressed against some wattles measuring 7 mm and 6 mm in diameter. The other surfaces have been drawn up to form a slight knob. There are some fingerprints visible on the surface. It is not clear whether this object was complete or was intended as some other object such as slingshot or perforated ball left unfinished.

7.79 DA87 P2580(4) SF 2644 S7439 cp 7 Dj1

?Clay ball: Width 30-35 mm
Height 25-31 mm
Weight 40 gm
Fabric J

This object has the form of a pentagonal drum. It is flattened top and base, which are converging not parallel, with five flattened sides. There has been some damage to one side. It is not clear whether this was intended as an object with any practical function, such as an unfinished slingshot or perforated ball. It is possible it was a functional object of unknown use or alternatively nothing in particular.

7.80 DA87 P2572(5) SF 2608 S7383 cp 7 Dj2

Clay ball: Diameter 17 x 20 mm
Height 22 mm
Weight 7.5 gm
Fabric E

The ball is slightly oval in shape and complete. There is no evidence of any perforation, nor any attempt to make one.

7.81 DA88 L1963 SF2703 S7970 cp 6 Hk CS68

Clay ball: Diameter 22 mm
Height 22 mm
Weight 11 gm
Fabric K

This is a spherical ball flattened at one end, where it has been

pierced by a perforation. The perforation measures 3.5 mm in diameter and is 11 mm deep. The surface is well smoothed.

7.82 DA86 P2568(1) SF 2505 S6916 cp 3 Dg = cp 6/7

Clay ball: Diameter 50 mm
Height 45 mm
Weight 82.5 gm
Fabric L

This object is largely complete, except for some damage on one side from a tool cutting into it during excavation. This is essentially a spherical ball with a rough surface flattened round the perforation. This forms a void in the middle of the ball and measures 23 x 15 mm at the surface, but becomes wider inside and extends to a depth of 35 mm. It is almost impossible for an adult to have moulded by hand and it is possible the clay was moulded around something that has since rotted.

Ceramic Reels

7.83 DA82 P2030(3) SF:2533 S:4664 cp6

Reel: Length +42 mm
Width 16 x 18 mm
Weight 11.5gm Fabric K

This fragment represents one end of reel or bobbin, though it is somewhat dissimilar to those found in 1978. It is more roughly formed, beign less regular in shape. Through it is one complete perforation c.4 mm in diameter as well as two incomplete holes of similar size made to a depth of 3 mm and 6 mm. One is at right angles to the other two. The end has broken off across another possible perforation.

7.84 DA 84 P2361(3) SF:2546 S:6122 cp5 Ei-1 =cp7

?Reel: Length +28 mm
Width 16 mm x 26 mm
Weight 12 gm
Fabric K

This fragment could be the end of a reel. It has a rectangular section and roughly rounded end and smooth surfaces. There are no distinctive features such as perforations, but its general size suggests it could be a fragment of reel.

Ceramic Beads

7.85 DA88 L2006 SF:2749 S:7972 cp6 Hi

Bead: Diameter 18 x 19 mm
Height 13 mm
Weight 4gm
Fabric J

This circular bead is biconical in section, flattened top and base. The perforation measures 3.0-3.5 mm in diameter. The bead is decorated with thin lines scratched from the central perforation curving to the outer edge. On the opposite side the lines are shorter and straighter. Between these are numerous dots apparently formed with some sort of fine point. The dots sometimes form a row or sometimes a more random pattern.

Spindle Whorls

7.86 DA83 P2199(3) SF:1990 S:5620 cp5

Spindle whorl: Diameter 53 mm
Height 30 mm
Weight 84gm
Fabric A

This is almost complete except for a small area of damage to the surface on one side. The shape is semi-biconical, one side being more rounded than conical. The conical side has a groove encircling the perforation. The perforation is slightly off-centre and measures 7 mm in diameter, widening to 8-9 mm at the edge. Type 3b.

7.87 DA83 L947 SF:1994 S:5622 cp3 Fi = cp7

Spindle whorl: Diameter 40 x 38 mm
Height 25 mm
Weight 40.5gm
Fabric A

This is essentially complete, with just a few slight areas of surface damage. In shape it is biconical, but rounded having convex top and base surfaces with a straight sided edge around the middle. The perforation is slightly off centre and measures 5 mm in diameter, widening to 6 mm at the surface. Type 3b.

7.88 DA80 (+) SF:1770 S:7179 Cp-

Spindle whorl: Diameter 48 mm
Height 33 mm
Weight 70gm
Fabric A

This is complete and is biconical in shape. The edge has been flattened around the middle and around part of this are a series of shallow vertical incisions possibly made with a finger nail and presumably intended as some form of decoration. The centrally placed perforation measures 5 mm in diameter. Type 2c.

7.89 DA80 P1569(5) SF:1643 S:7166 cp3

Spindle whorl: Diameter 50 mm
Height 30 mm
Weight 87.5gm
Fabric A

This is almost complete, having suffered slight damage on one edge. It is cylindrical in shape, the top and base being slightly convex. The surfaces are well smoothed. The perforation is very slightly off centre and measures 10 mm in diameter at one end narrowing to 8 mm at the other. Type 1a.

7.90 DA86/87/88 (+) SF:2910 S:8028 cp-

Spindle whorl: Diameter 26 mm
Height 20 mm
Weight 18gm
Fabric F

This spindle whorl was found amongst the spoil from the flotation samples and as material from the three years indicated had been dealt with, its context cannot be more closely indicated. It is complete, cylindrical in shape with straight sides and very slightly convex ends. There is a perforation, off centre by 2-3 mm, which measures 5 mm in diameter. Type 1a.

7.91 DA79 P1333(9) SF:1563 S:7170 cp7

Spindle whorl: Diameter 38 mm
Height 25 mm
Weight 40 mm
Fabric A

This is complete, elliptical in shape with top and base flattened; the surface is smooth with a few rounded indentations. The perforation is centrally placed and is triangular at either end measuring 7 x 8 mm narrowing to 6 mm in the middle. Type 3a.

7.92 DA87 P2578(2)/(3) SF:2600 S:7438 cp6 Dg-1

Spindle whorl: Diameter 26 mm (middle) 30 mm (ends)
Height 25 mm
Weight 27.5gm
Fabric F

This spindle whorl is complete and undamaged. It is basically cylindrical in shape, but is slightly narrower in the middle to form a dumbell shape. The narrowest point is emphasised by simple decoration of three parallel incised lines running around the middle. The perforation has been placed off centre by 2-3 mm; it measures 4 mm in diameter, widening to 5 mm at either end. Type 1c.

7.93 DA86 P1137(5) SF:2506 S:6853 cp5 Di1 = cp7

Spindle whorl: Diameter 48 x 60 mm
Height 28 mm
Weight 74gm
Fabric KL (unfired clay)

This spindle whorl is of cylindrical type, but as the fabric is unfired it has suffered some damage and distortion. One end appears to ahve suffered damage from tools during excavation, possibly obliterating the perforation on that side. It is possible the perforation completely pierced it originally, though now it only appears to be c.18 mm deep; it measures 6 x 10 mm at the surface, but appears to widen out inside.

The condition of the original surface is uncertain, but it appears to be moderately smooth. It is possible this spindle whorl was unfinished. Type 1u,

7.94 DA83 P2256(11) SF2077 S:5517 cp7

Spindle whorl: Diameter 44 mm
Height 23 mm
Weight 44.5gm
Fabric K

This object is possibly a spindle whorl that was only partly finished. During excavation part of the base has been sliced through resulting in some damage and slight distortion. It is basically disc shaped having a convex topy and base and rounded sides. A perforation has been made at a diagonal and off centre that does not extend through the whole thickness. It measures 8 mm in diameter, gradually narrowing and reaching a depth of 17 mm where it is only a few mm wide. Although the damage may have obliterated the end of the perforation, the gradual thinning suggests it never completely perforated the object. It could be either an unfinished spindle whorl or a partly perforated clay ball.

7.95 DA84 L1163 SF:2135 S:7196 cp3 Em = cp8

Spindle whorl: Diameter 39 mm
Height 44 mm
Weight 6gm
Fabric F

This small fragment of spindle whorl is cylindrical in shape and has smooth surfaces, the sides slightly convex and the ends flat. Very little of the perforation survives, but it appears to measure c.6-7 mm in diameter. Type 1a.

7.96 DA86 P1127(3) SF:2408 S:7200 cp4

Spindle whorl: Diameter 40 mm
Height 41 mm
Weight 21gm
Fabric A

Only about a quarter of this spindle whorl survives. It is spherical in shape and has a smooth surface and has been slightly flattened at one end. Part of the central perforation survives and measures 7 mm in diameter. Type 3a.

7.97 DA86 P2510(7) SF:2496 S:7201 cp5

Spindle whorl: Diameter 44 mm
Height +25 mm (estimated c.40 mm)
Weight 13.5gm
Fabric A

Only about a quarter of this spindle whorl survives and what remains is onion shaped with a flattened end. The surface is well smoothed. It is basically of spherical type. The perforation measures 8 mm in diameter and the flattened end encircling it forms a rim 5-7 mm wide. Type 3a.

7.98 DA86 P2534(6) SF:2908 S:7636 cp7

Spindle whorl: Diameter c.40 mm
Height c.30 mm
Weight 8gm
Fabric A

Only a quarter or less survives from one side of this spindle whorl. It appears to be spherical in shape. Insufficient survives to have any part of the perforation present, so it is possible that this could be part of another object such as partly perforated clay ball or clingshot. However the general dimensions suggest spindle whorl to be most likely. Type 3a

7.99 DA86 L1573 (K1012) SF:2909 S:6823 Cp7 Dj2

? Spindle whorl: Diameter c.50-60 mm (estimated)
Height 8 mm
Weight 2.5gm
Fabric K

This small fragment apparently comes from a clay disc. It has a rounded edge, smooth top and lower surface, slightly undulating. There is a perforation 8 mm wide, placed only 7 mm from the edge.

DA83 G243(1) SF:- S:5627 cp7

? Spindle whorl: Diameter 35 mm
Height 25 mm
Weight 20gm
Fabric F

This appears to be a fragment of a biconcical spindle whorl, though any surface is very worn. There is the slightest hint of a central perforation. Type 3b.

Pottery discs

7.100 DA82 P2347(7) SF 2186 cp 7 Ei-l

Pottery disc: Diameter 84 mm
Thickness 13 mm
Weight 94 gm
Pottery fabric D5

This has been roughly shaped to be circular, but part of one side has broken off. There is a large central perforation measuring 14 mm in diameter widening to 17 x 16 mm on the inner surface of the pot and 15 x 16 mm on the outside.

7.101 DA80 P1455(1) SF 2082 cp 6/7

Pottery disc: Diameter 83 x 87 mm
Thickness 8 mm
Weight 83 gm
Pottery fabric D17

This piece of pottery has been chipped to a roughly circular shape, somewhat polygonal in places, as the chipping has resulted in some straight edges. An attempt has been made to drill a hole from the inner surface of the pot. This is only about 2 mm deep and no attempt has been made from the outside. It is very slightly off-centre.

7.102 DA81 P1646(1) SF 2083 cp 7

Pottery disc: Diameter 53(x +45) mm
Thickness 11 mm
Weight 41 gm
Pottery fabric D17

This circular pottery disc has been carefully shaped, but part of one edge has broken off. An attempt has been made to drill a hole from the outer side, but the depression is only 2 mm deep. It is possible the damage occurred to the edge, whilst it was being made and resulted in it being discarded.

7.103 DA82 P2163(4) SF 1808 cp 7 Ff-k

Pottery disc: Diameter 64 x 69 mm
Thickness 11 mm
Weight 68 gm
Pottery fabric B4

This pottery disc was carefully made to form a sub-circular shape. At first glance there appears to have been an attempt to

drill a perforation, but on closer examination this appears to be the void left from some coarse flint tempering being dislodged.

NI DA80 P1597(7) SF 1626 cp 8

Pottery disc listed in small finds index, but apparently now lost.

Clay weights by group

Group 1

DA80 P1411(6)*S4437 cp8 sp Ia = cp3

There are six triangular weights from this context, all very similar, type 1 and made in the same fabric C/E. They appear to have been made as a group.

7.104 SF:2521

Weight: Approximately half of this triangular weight survives with one complete edge measuring 180 mm. The surviving complete corner is quite angular and sharp, whilst the other only partially preserved is more rounded. There are the remains of two perforations across these corners, one very fragmentary and the other complete, measuring mm in diameter. The surface survives on only one triangular face and is generally quite smooth. It measures 68 mm thick. It weighs 716gm.

7.105 SF:1649

Weight: This is a near complete triangular weight, of which one corner is missing broken across the perforation. The complete side measures 165 mm and the other two are estimated at c.170 mm each. The maximum width measures 85 mm. The surfaces are flat and smooth and the angles are sharp. The two surviving corners are quite angular, though one has been slightly rounded off.

There are three perforations across each of the corners. They measure: 12 mm decreasing to 10 mm (made from both sides); 11 mm decreasing to 10 mm; 12 mm. It weighs 1392gm and has been fired.

7.106 SF2522

Weight: The joining fragments form about half of this weight, but it is possible some unassigned fragments form part of the third corner that is not represented. The surfaces survive on one triangular face and part of the sides and are smooth and flat; the corners and angles are fairly sharp. The length of the complete side is 180 mm and the weight measures 60 mm wide. Two perforations are present, both measuring 11 mm diameter and being quite close to the corners. the joining pieces weigh 662gm and other fragments packed with them 435gm. however some of the latter could belong to other weights from this pit.

7.107 SF2523

Weight: Probably about half of this triangular weight is present. It measures nearly 150 mm in height, but no complete side survives. It is c.65 mm thick. The triangular surface is flat and fairly smooth, but the side tends to be quite rough and irregular. The corner is fairly angular, but rounded. No perforations occur on the main fragment, but two other pieces that could be part of the same weight have perforations measuring 13 mm and c.8 mm diameter. The main fragments weigh 374gm and associated fragments 333gms.

7.108 SF:1648

Weight: This is a complete triangular weight with sides measuring 170 mm, 170 mm and 140 mm; it was 70 mm wide. All the surfaces are very smooth flat and all angles are very sharp including the corners. One side surface has been damaged.

There are three perforations across each of the corners and these measure 13 mm, 15 mm and 15 x 10 mm decreasing to 6 mm. The latter appears to be incomplete and wrongly positioned, being too close to one side and at the wrong angle across the corner. A second attempt has been made to pierce this corner, two holes having been made from either side with a pointed stick or similar implement, but the perforation has not been completed, possibly because it was so close to the corner; it seems to have been made after the clay had dried and hardened. This weight weighs 1083gm.

7.109 SF:2936

Weight: This comprises nine fragments of which the main one is the corner of the weight, representing about a third of the object. No complete side was present. It measured +45 mm in width, with the total width being estimated at 55-60 mm. The surface though basically flat was rough and irregular, with rounded edges and corners.

One perforation was present, very close to the corner at one end 20 mm from it, but cutting across diagonally to be 30 mm at the other side. The perforation measured 13 mm at the edge thinning to 10 mm in the middle.

All the other fragments were very small with one coming from a corner. The total weight for all the pieces was 238 gm.

Group 2

7.110 DA81 P1768(8)* SF:1923 S:5169 cp6/7

Weight: The majority of this triangular weight survives, only one corner having broken off along the perforation. The surfaces are smooth and flat and the corners and edges angular. The weight is very large with one side measuring 200 mm long and the other two estimated at 190-200 mm. It is 80 mm thick. There are three perforations across each of the corners, two of which measure 15 mm in diameter and the third increases from 14 mm to 18 mm in diameter. The weight is made from fabric K clay and is unfired. It weights 2021gm with 60gm of fragments, which could belong to either this or SF:1924. Type 1.

7.111 DA81 P1768(8)* SF:2543 S:4616 cp6/7

Weight: This weight was very fragile made in daub fabric P, which was finely tempered and lightly baked, tending to flake away. Thus all measurements are approximate. The corners and edges were well rounded and the surfaces smooth. The sides were approximately 120 mm long and it is 65 mm thick. There was evidence of two perforations across two corners measuring c.15-20 mm diameter. There appears to have been no perforation across the third corner. Both perforations were placed much closer to one side than the other. The main fragment weighs 1075gm with smaller pieces weighing 202gm. Type 1.

7.112 DA81 P1768(4) * SF:1732 S:7181 cp6/7

Weight: The main large fragment forms the majority of a triangular weight. Two corners are badly squashed and deformed as the weight is made of clay fabric K and is completely unfired or baked. There is also a lot of damage to the surface from modern tools. The best preserved side measures 185 mm and the other two sides are estimated to have been c.190 mm long. It measures 70 mm thick. Across the undamaged corner is a well preserved perforation measuring 11 mm diameter in the centre widening to 12 mm and 13 mm at either end and becoming more oval in shape. Across the second very distorted corner is part of a perforation, measuring c.9 mm wide at one end, but disappearing about half way across. In this case it is likely it had been destroyed by the squashing of the corner, though it is possible that it was always an incomplete perforation. Across the third corner there is no perforation; it is possible one never existed or that the corner had broken along the perforation and subsequent damage had obliterated any trace of it. The weight weighs 1940gm, and a few associated fragments weigh 42gm. Type 1.

7.113 DA81 P1768(8)* SF:1924 S:5170 cp6/7

Weight: This triangular weight has lost one corner, broken along the perforation and one of the others has suffered a lot of damage. It is very similar to SF:1923, but is somewhat smaller and the surfaces are more irregular and the edges and corners more rounded. The one complete side is 150 mm long and the others are estimated at 150-160 mm. It measures 85 mm thick. Three perforations occur across each of the corners: these measure 15 mm, 16 mm and 12-15 mm. It is formed of clay fabric K, unfired and weighs 1300gm. Type 1.

Group 3

DA81 Ph7474(1) S:7184 cp-

7.114 SF:1684

Weight: This triangular weight is nearly complete, having suffered only slight damage to one corner. It is well formed with fairly even smooth surfaces and the corners are rounded. The sides measure in length, 120 mm, 125 mm and 130 mm and it is 70 mm wide. There are three peforations across each of the corners, which measure 12 mm in diameter, though one decreases to 11 mm at one side. It weighs 1103gm and is made in fabric F, fired. Type 1.

7.115 SF:1686

Weight: This triangular weight is almost complete except for one corner, partly broken off across the perforation and there is slight surface damage one other corner. The triangular faces are smooth and flat, though the sides are slightly rougher; the corners and angles are curved. The sides measure 140 mm, 145 mm and 145 mm long and the width is 57 mm. There are three perforations across the corners, two of which measure 11 mm in diameter and the other 10 mm. It is made in fabric F, fired and weighs 1135gm. Type 1.

7.116 SF:1687

Weight: This triangular weight has two damaged corners, one almost entirely broken off along the perforation and the second partially. The surfaces are smooth and flat and all the corners and edges are rounded. The one complete side measures 140 mm long and the others are estimated at 130 mm and 140 mm. It is 75 mm thick. There is a perforation across each of the corners; one has possibly been made from both sides and measures 11 mm in diameter and the other two both measure 12 mm. It is made from fabric F, fired and weighs 105615gm. Type 1.

7.117 SF:1694

Weight: This triangular weight is almost complete except for one corner that has broken off across the perforation. The surfaces are smooth and flat and the corners rounded. The surviving complete side measures 140 mm and the other two are estimated to be the same length. The width measures 73 mm. There are three perforations across the corners of which two survive complete. The latter were made in two attempts possibly from both sides resulting in a figure of 8 shape: they measure 15 mm x 12 mm and 13 mm; 16 mm x 10 mm and 12 mm;

and 12 mm. The weight is made from fabric F fired and weighs 1239gm. Type 1.

7.118 SF:1689

Weight: About two-thirds of this triangular weight survives: one corner along with evidence of the perforation has broken away. The triangular faces are smooth and slightly convex, while the sides flat or concave. The complete side measures 112 mm and the other two are estimated to be c.120 mm, long. It measures 72 mm wide. The two surviving perforations across the corners were made from two sides and measure 12 mm in diameter increasing to 15 mm. It weighs 961gm and was made in fabric F, fired. Type 1.

7.119 SF:1690

Weight: Most of this weight survives except for one corner, which has broken off. All the surfaces are smooth and flat and the corners are rounded. The surviving complete side measures 130 mm and the other two are estimated to be the same. It is 70 mm thick. There is a perforation across each of the three corners. These measure 12 mm x 15 mm; 12 mm increasing to 14 mm x 15 mm; and 15 mm decreasing to 10 mm back to 14 mm. They all look as though they have been made in two attempts. It is made of fabric F, fired and weighs 1169gm. Type 1.

7.120 SF:1693

Weight: This piece is the corner of a triangular weight, representing about a third of it in all. The surfaces are flat and smooth and the corner and edges are rounded. no side survives complete, the extant length being 100 mm and the total length could be as much as 160 mm. It measures 75 mm wide. The perforation across the corner was apparently made from both sides and it measures 17 mm - 12 mm diameter - 16 mm wide, being oval at either end. The fragment is made from fabric F, fired and the fragment weighs 468gm. Type 1.

7.121 SF:1688

Weight: This corner fragment comes from a triangular weight. the surfaces are smooth and even and the corner rounded. It measures 74mm thick. There appears to have been some attempt to form a perforation across the corner that was left incomplete. On one side there is a roughly made hole 24 x 22 mm, which is in fact a double hole made with a pointed implement to a depth of 29 mm and 30 mm. On the opposite side there is also a slight indentation, possibly representing an attempt from the other side. For some reason the perforation

was left incomplete. Around the top of the corner a slight groove has been made, possibly so a rope could be secured around the outside. It is made of fabric E fired and weighs 522gm. It may have been used as a type 1 or 6 weight.

7.122 SF:2530

Weight: Included in this are a number of fragments clearly from triangular weights, but not all of which join up. Some could come from some of the above-mentioned incomplete weights (eg. SF:1694, 1693, 1689). However some fragments are certainly part of a separate weight. One or more weights could be represented.

One piece has part of the side and triangular face surviving along with part of two perforations across the corners. These measure 15 mm and 14 mm in diameter. Another fragment has part of two perforations, both 15 mm in diameter. Other perforations on the remaining fragments measure 11 mm x 2, 13 mm x 4; (it is possible that some of these are fragments of the same perforation). All fragments are made in fabric F, fired or baked, and weigh in total 747gm. Type 1.

In addition to the weight fragments there are a lot of other daub fragments from this context, which may be of a completely different function to the weights. These weigh 130 gm and are mainly fabrics E and J.

Ph7474(1) SF:- S:4637 cp-

?Weight: These pieces look like fragments from the corner of a triangular weight, but no perforation survives or other distinctive feature to confirm this. It is made in fabric A, baked and weighs 90gm. Type 1?

PH7476(1) SF:- S:4638 cp-

?Weight: These fragments have a smooth curved surface and look as if they could be part of a triangular weight; however there are no distinctive features to confirm this. It is made of fabric A, baked and weighs 50gm. Type 1?

(This ph intercuts with ph7474 and this and the sample above could be part of the same object.)

Group 4

7.123 DA87 P2570(4) SF:2572 S:7374 cp6 Dil = cp7

Weight: Most of this triangular weight survives, except for the end of one corner. All three corners appear to have been flattened to some extent, making it difficult to measure overall dimensions. The sides measure between 80 mm and 120 mm long and one of the corners is 55 mm across. The maximum height measures 150 mm and the maximum width is 75 mm. There is a perforation across each of the corners: these measure 13 mm in diameter, 11 mm widening to 11 x 16 mm, and 12 mm widening to 12 x 15 mm. With the latter there is a curious fourth perforation piercing the triangular face, where it is 12 mm wide curving round to emerge as a small hole 6-7 mm wide in the side adjacent to the main perforation. In addition across the two corners, which survive sufficiently there is evidence of a groove in the flattened surface running parallel to the perforation. One measures 22 mm wide and the other 12 mm with a similar hollow at right angles 17 mm wide. It is likely a similar groove occurred on the third lost corner, which also shows signs of having been flattened. The weight is made in fabric E, baked and weighs 1070gm. Type 1.

7.124 DA87 L1914 & L1913 SF:2634(2633) S:7493(7491) cp6 Dg-h

Weight: Roughly half of this triangular weight survives with joining fragments from the two layers indicated. The surfaces are well smoothed and flat and the corners and edges evenly rounded. Across the apex of the surviving corner is a moulded groove. There is also evidence of three perforations across the corners; two could me measured and these were 16 mm in diameter and 15 mm widening to 18 mm in diameter. No side survives complete, but their length is roughly estimated at 150-160 mm. The weight is 65 mm thick and weighs 463gm. It is made in fabric E and was fired. Type 1.

7.125 DA87 P2570(3) SF:2576 S:7372 cp6 Dil = cp7

Weight: This fragment appears superficially to be part of a triangular weight, however it is possible one corner never existed or broke off during the making or use of the weight, which continued to be utilised. Two perforations survive, on 14 mm in diameter and the other 10 mm. The latter however appears to form more of a groove across a truncated corner, as the daub surface on either side has been smoothed and rounded. It is possible this effect occurred as a result of use and wear after the corner had broken off, however it could be a deliberately made groove in view of this feature on other weights of this group. The length of the sides cannot be estimated, but the thickness varies from 45-65 mm. The surface is fairly well smoothed, but somewhat uneven and

undulating. It weighs 294 gm and is made in fabric E and fired. Type 1.

7.126 DA87 P2570(4) & L1914 SF:2571 & 2634 S:7373 & 7493 cp6 Dil = cp7

Weight: These fragments form the majority of a triangular weight of which only one corner is missing. Of the surviving corners, one is quite angular and the other much more rounded. The latter has a slight hollowing on the surface forming a groove across the corner. The length of the complete side measures 165 mm and the two other sides are estimated to be c.160 mm. The weight is 80 mm wide and weighs 1225gm. There is a singly perforation approximately across the middle of the weight½ It measures 13 mm in diameter widening to 15 mm at the edge in its vertical axis. The weight is made in fabric D and fired. Type 1.

7.127 DA87 P2570(3)+(4)+(5) SF:2902 S:7370 cp6 Dil = cp7

Weight: This corner fragment from a triangular weight is very well rounded and has a rough flat surface. The weight is 55 mm thick, but its overall size unknown though the length of the sides could be c.170 mm. The perforation across the corner is skewed to the triangular faces and measures 10 mm in diameter. There are two additional fragments, which could be part of this weight, with evidence of perforations measuring c.10 mm and 15 mm. The surviving fragments weigh 551gm and are made in fabric C/D and fired. Type 1.

DA87 P2570(4)&(5) SF:2571, 2572 S:7375, 7377 cp6 Dil = cp7

Weight: These fragments were found associated with the weights described above and it is very likely that they are parts of those weights or others in this group, though it is possible they are part of another separate weight. Many of the fragments are clearly corners or sides of triangular weights and all have flat or slightly convex well smoothed surfaces. There are remains of two perforations, both 12 mm in diameter. They are all fabric C and weigh in all 560gm. Type 1.

DA87 L1912 SF:2904 S:7490 cp3 Dg = cp6

Weight: This fragment from the corner of triangular weight has part of the smooth flat side surface surviving. Piercing this is part of a perforation c.15 mm in diameter. It is made in fabric E, baked and weighs 29gm. Stratigraphically this layer was in close association with layers 1913 and 1914, and it is possible this weight fragment is part of group 4. Type 1

DA87 L1913 SF:2633 S:7491 cp6 Dh

Weight: The eight fragments of triangular weight in this sample may derive from one or more weights. The largest fragment is clearly from a corner of a weight, 65 mm thick and with a perforation across it 12 mm in diameter. The surfaces are well smoothed and the corner rounded except for a groove across the apex. Amongst the other pieces there is clearly another corner fragment and one with a perforation 12 mm in diameter. All the fabrics are made in fabric E and weigh in all 302gm.

DA87 Ph9975(1) SF:2903 S:7442 cp3 Dg-i = cp6-7 PS386

Weight: These fragments come from the central part of a triangular weight, except for three which appear to be parts of the corners. Little of the surface survives, but what there is is smooth and flat. There is evidence of three perforations which measure 12 mm (2) and 13 mm in diameter. The weight is made in fabric C, fired and weighs 310gm. Type 1.

DA87 Ph9975(1) SF:- S:7442 cp3 Dg-i = cp6-7

?Weight: These fragments though packed with the weight above (SF:2903) appear to be different, being made in fabric E. What survives are two smooth surfaces joined by a rounded edge; one is flat and the other slightly convex. It looks like the edge of a triangular weight, but no distinctive feature survives to confirm this. It weighs 34gm. ?Type 1.

* Oven daub is associated in same feature or context

7.128 DA81 P1687(4)* SF 1708 S7180 cp 8

Weight. This piece forms the majority of a triangular weight, of which one corner has broken off along the perforation and much of the surfaces appear to have sheered off. Where the original surface does survive, it appears to be smooth and flat and the edges and corners are quite sharply angled. The length of the complete side measures 152 mm and of the others only 95 mm survive; these are estimated to have total lengths of 150-155 mm. It measures 70 mm thick. There are three perforations across each of the corners and these measure (from side to side) 11 mm-10 mm-14 mm, 13 mm-12 mm-14 x 11 mm, and 14 mm-13 mm-11 mm. The weight weighs 925 gm and is made of fabric E/K fired and burnt.

7.129 DA82 P2047(1)* SF 1906 S4698 cp 7

Weight. These pieces represent about two-thirds of a triangular weight from which two corners are missing. The surfaces are smooth and flat and the edges and corner angular. No side survives complete, but they are estimated to have been 160-170 mm long. It measures 135 mm from side to the opposite corner apex. The maximum width is 65 mm. There are three perforations across the corners and the two most complete ones appear to have been made from both sides. These measured 11 x 14 mm increasing to 12 x 16 mm and 12 x 15 mm and the fragmentary one 12 mm in diameter. The weight is made of fabric B, fired and weighs 798 gm. Type 1.

7.130 DA82 P2110(5)* SF 1904 S7185 and 7188 cp 8

Weight. These fragments probably represent the majority of a triangular weight, though many of the smaller fragments could not be rejoined. Where the surface survives it is very roughly shaped and irregular and the clay very cracked. No side survives complete but they are estimated to have been c 130-145 mm. The surviving width is 65 mm, but originally was probably c 70 mm, as part of the surface has been destroyed. Two perforations are present across two corners: one measures 12 mm and is oval in section and the other measures 12 x 19 mm. There is no evidence of a third perforation across the other corner and it is unlikely that one ever existed. The weight is made of fabric K, baked and burnt on the surface and weighs 711 gm. Type 1.

7.131 DA86 P2541(7) SF 2497 S6902 cp 6

Weight. This is a very dumpy triangular weight, one corner of which has completely broken off and both of the other two have suffered extensive damage. The surface where it survives is flat and smooth and the edges and corners are very rounded. The complete side measures 130 mm long and the weight is 70 mm thick. The three perforations are preserved across the corners. The one across the broken corner is diagonal to the triangular faces and measures 14 mm in diameter. The second has been formed in two attempts measuring 12 mm and 14 mm in diameter (x 16 mm) making a figure-of-eight shape in section. The third measures 18 mm in diameter. It weighs 801 gm and is made in fabric E and fired. Type 1.

7.132 DA83 P2259(3)* SF 1941 S5621 cp 6 Fk = cp 7

Weight. The majority of this weight survives except for one corner, which has broken off along the perforation. There is some minor damage to the other corners. The surfaces are well smoothed and flat with sharp angular edges and corners. The length of the complete side measures 155 mm; the other two survive for 105 mm and 110 mm of their length and the total is estimated at c 160-170 mm. The maximum thickness measures 70 mm. There are three perforations across the corners. One measures 16 mm in diameter and at one end there is a slight depression on the inside, which could result from wear. The second measures 17 x 25 mm-22 mm-16 x 20 mm and at both ends there is a groove, possibly wear, on the inner edges. The third perforation is broken along its length; it measures 18 mm in diameter and there is also a groove on its inner edge. This one was clearly made from both ends as the second perforation pushed some clay back over the first attempt. The weight was made in fabric K, fired and weighs 1168 mm. Type 1.

7.133 DA79 ph 4568(1) SF 1513 S7172 cp - PS217

Weight. These fragments form about two-thirds of a triangular weight. All three corners have been damaged and one side is missing. One side survived for 110 mm of its length and the total is estimated as c 130 mm long. The width measures 50 mm. A perforation is present across each of the three corners and these measure 7 mm, 13 x 17 mm, and 18 mm, in diameter. It weighs 479 gm. It is made of fabric B and has been fired.

7.134 DA80 P1530(2)* SF 1647 S7173 cp 8

Weight. This piece represents about a half of a triangular weight. One side is almost complete and measures c 160 mm long. The maximum thickness is 80 mm. The surfaces are fairly smooth and all the angles are very rounded, particularly the surviving corner. Two perforations survive across the corners.

One measures 12 x 10 mm and the other 15 x 12 mm decreasing to 14 mm. It weighs 868.5 gm. It has been made in fabric E and baked. Type 1.

7.135 DA81 P1820(2)* SF 1707 S7182 cp 7

Weight. This is the corner of a triangular weight, broken off below the perforation. The surface is fairly rough, not very carefully formed and the corner is quite angular. It is 105 mm thick and the surviving length of side is 120 mm, both suggesting this fragment comes from quite a large weight. There is a very large perforation across the corner, curving away from the apex of the corner. The perforation is oval in section measuring 36 x 26 mm on one side where the long axis is vertical and on the other 35 x 30 mm, where it is horizontal. On both sides the clay surface slopes up towards the corner and there are some slight grooves, both of which may be evidence of wear from being suspended. It is made from fabric K, partly fired and weighs 741 gm. Type 3.

7.136 DA79 P1224(3) SF 2542 S4778 cp 7

Weight. This fragment comes from the rounded corner of a large triangular weight. The surfaces are flat and of variable quality, the side being much smoother than the front face. The edge is sharply angled. No perforation survived and insufficient of the weight exists to indicate overall size. However the surviving length is 110 mm and the thickness is +70 mm, giving the impression that the complete weight was very large. The fragment weighs 265 gm. It was made of a mixture of clay fabrics K and L with chaff tempering and had been fired. Type 3.

7.137 DA84 L1207 SF 2171 S7197 cp 7 Ej PS335

Weight. This fragment could come from a triangular weight or possibly one more oblong in shape. It has split down the middle. The surface is smooth and flat. About 25 mm from the corner are remains of a perforation, 11 mm in diameter, across it. The estimated total thickness is c 50 mm. It is possible this weight never had more than one perforation. The surviving height is 130 mm and breadth is 98 mm. It is made in fabric K, fired and weighs 227.5 gm. Type 1.

7.138 DA82 P2032(6)* SF2544 S6624 cp 7

Weight. This weight takes the form of a disc having a flat smooth base and slightly concave top, with rounded convex sides. It is more of a rounded square, rather than a circle in plan, measuring 125 x +96 mm; its original size may have been c 130 x 130 mm. It measures 60 mm thick. It is made in fabric E, fired and weighs 643 gm. Type 7.

7.139 DA79 P1224(13) SF 1542 S7167 cp 7

Weight. This object takes the form of a circular disc with a hole through the middle. It was made of clay fabric K and had not been baked or fired to any degree. As a result of this it has suffered a certain amount of distortion and damage from compression from the weight of overlying soil and modern 'toolmarks'. The least distorted diameter measures 75 mm and at right angles to this 84 mm. It was 30 mm thick. The hole through the middle measured 13 mm in diameter.

There is no other parallel in clay for this at Danebury, but very similar discs made of chalk are common. It was probably some sort of weight, but its general condition precludes the possibility of recognizing wear if any. Type 8.

NI DA79 P1298(5) SF 1572 S7169 cp 4

Weight. This piece forms the majority of a triangular weight, taking the form of an isoceles triangle. The surfaces are flat and smooth and the angles all sharp; it has been very carefully made. The top corner is missing. The base measures 125 mm long and what remains of the other two sides 150 mm each; their total length is estimated at 200 mm. The maximum width measures 60 mm in the middle and 65 mm at the base.

There is only a single perforation placed horizontally about halfway down its height. It measures 11 mm in diameter in the middle widening to 12 x 15 mm at either end (the long axis being vertical).

It weighs 1566 gm and was made of fabric E, fired. Type 1.

NI DA79 P1282(2) SF 1574 S7168 cp 4

Weight. These fragments represent about a third of a triangular weight from the central body. The surfaces are flat but fairly rough. No side survives complete. The complete thickness is estimated at 60-65 mm, though a maximum of only 55 mm survives. Remains of three perforations across each of the corners survive and all measure 15 mm in diameter. It weighs 403 gm and was made of daub fabric E, fired. Type 1.

NI DA79 P1427(1) SF 1594 S7171 cp 6

Weight. This small fragment appears to come from the corner of a triangular weight. There is possibly a fragment of the perforation surviving. It weighs 38 gm. The weight was made of fabric F and fired. Type 1.

NI DA80 ph 5626(1) SF 1601 S7174 cp -

Weight. This fragment comes from the side of a triangular weight, with an estimated width of 60-65 mm. The surfaces are smooth and even. Part of the perforation is present and measures 11 mm in diameter. The fragment weighs 100 gm and is made of fabric D, baked. Type 1.

NI DA80 ph 5762(1) SF 1605 S7175 cp -

Weight. This fragment forms the rounded corner of a triangular weight. It is 60 mm thick and the length of a side is estimated at c 150 mm. The surfaces are smooth, even and well formed. Evidence of two perforations survive. One is very fragmentary, measuring 11 mm in diameter; the other is virtually complete. The latter has been made from both sides in two attempts crossing each other resulting in a figure-of-eight shape; both measure 12 mm in diameter, with a length of 25 mm at the sides. The fragment weighs 353 gm and is made of fabric F, baked. Type 1.

NI DA80 ph 6302(1) SF 1618 S7176 cp -

Weight. This piece forms approximately half of a triangular weight. The length of the most complete side is estimated at 160 mm and the width varies from 50-75 mm. The surface on the triangular face is smooth and even, but slightly rougher on the sides. The surviving corner is rounded and slightly flattened. One perforation survives almost complete and measures 10 mm in diameter; the second is only very fragmentary and measures 8 mm in diameter. The surviving fragment weighs 645.5 gm and is made of fabric E, baked. Type 1.

NI DA80 ph 6829(1)* SF 1671 S7177 cp - PS332

Weight. These fragments form the central part of a triangular weight. It measures 70 mm thick, but its overall size cannot be estimated, though it gives the impression of being quite large. The surfaces are of variable quality: the side is smoothest and slightly undulating, whilst what survives of the triangular faces appears rougher with one side having deep depressions in it. Two perforations are represented, but one is too fragmentary to measure its size; the other is 14 mm in diameter. It weighs 352.5 gm and is made of fabric F, fired. Type 1.

NI DA81 P1820(2)* SF 1710 S7183 cp 7

Weight. This fragment comes from the side of a triangular weight. It has a smooth, well-shaped surface. The thickness is estimated at 50-60 mm. The perforation measured 14 mm in

diameter widening to 16 mm at the edge. It is made of clay fabric K, fired and weighs 98 gm. Type 1.

NI DA82 L724 SF 1803 S7187 cp 6 Ff-k

Weight. This fragment forms the corner of a triangular weight, broken along the perforation. The surface is roughly smoothed and the corner is fairly angular. The perforation across the corner measures 15 mm in diameter. The width is estimated to have been c 68 mm. It is made of fabric B, baked and weighs 155 gm. Type 1.

NI DA82 P2148(3) SF 1911 S7186 cp 6

Weight. This fragment comes from the corner of a ?triangular weight, or possibly one more pyrimidal in shape. The corner is pierced by a perforation very close to the angle. It measures 10 mm in diameter, widening to 15 mm at either end, where it is more oval. It is made in fabric A, fired and weighs 27 gm. ?Type 1 or 4.

NI DA83 P2181(2) SF 1942 S5619 cp 3

Weight. This fragment is part of the corner of a triangular weight. The surface is smooth and flat with a gently rounded edge. The estimated thickness would be c 60-65 mm. Part of the perforation across the corner survives and measures 14 mm in diameter. The weight is made in fabric F, fired and weighs 75 gm. Type 1.

NI DA83 P2119(2) SF 2072 S5472 cp 6 Ff-k

Weight. This fragment appears to be the corner of a triangular weight. The surface is smooth and rounded. It is made in fabric E and weighs 89.5 gm. Type 1.

NI DA83 P2119(4) SF 2073 S5473 cp 6 Ff-k

Weight. These fragments come from part of a triangular weight, the larger piece coming from the central part, with part of the triangular face and side present. Part of one perforation survives and measures 13 mm in diameter. The weight is estimated to have totalled c 60 mm thick. The surface is very smooth. The weight is made in fabric F, fired and weighs 154.5 gm. Type 1.

NI DA83 P2183(3) SF 2074 S5478 cp 6

Weight. This fragment is part of the corner of a triangular weight. The surfaces are flat and roughly smoothed and edges

slightly rounded. Part of a perforation across the corner measures 12 mm in diameter. The total thickness is estimated at c 50 mm. It is made in fabric F, fired and weighs 49.5 gm. Type 1.

NI DA83 P2256(2)* SF 2076 S5515 cp 7

Weight. This corner fragment from a triangular weight has roughly finished surfaces and the edges and corner are fairly angular. Part of the perforation across the corner survives and measures 14 mm in diameter. The total estimated thickness is c 70 mm. The fragment is made in fabric F, fired and weighs 106 gm. Type 1.

NI DA83 ph 8741(1) SF 2079 S5557 cp -

Weight. Most of the central part of this weight survives, but all three corners are missing. The overall size cannot be estimated, though the surviving height is 100 mm and it is 55 mm thick. Two of the perforations survive and measure 16 mm in diameter and 17-13 mm in diameter; the latter is noticeably closer to one triangular face than the other. Another fragment, which cannot be joined to the main piece, has part of a perforation 12 mm in diameter, which may be part of the third perforation. It is made in fabric F and weighs 438 gm. Type 1.

NI DA83 P2174(1) SF 2080 S5610 cp 5

Weight. This fragment comes from part of the side of a triangular weight. The surface is smooth and undulating with a curving edge. Part of the perforation pierces the side at an angle and measures 11 mm in diameter. The surviving thickness is 48 mm and the total is estimated at c 60-65 mm. The weight is made in fabric F, fired and weighs 48 gm. Type 1.

NI DA83(+) SF 2081 S5617 cp -

Weight. This fragment comes from the side of a triangular weight. The little surviving surface is well smoothed. Remains of a perforation at an angle to the side surface measures 15 mm, widening towards the edge. The thickness is estimated at c 70 mm. The fragment is made in fabric E and weighs 71 gm. Type 1.

NI DA82 L716* SF 2084 S4759 cp 7 Ff-k

Weight. These pieces apparently come from a triangular weight. The surviving surface is uneven and roughly made. The surviving maximum width is 42 mm, but the full width is estimated at c 85 mm. Part of a perforation survives piercing the side at an

angle, but it is too fragmentary to measure the diameter. It is made of fabric F, fired and weighs 321 gm. Type 1.

NI DA83 P2294(1) SF 2085 S5526 cp 3

?Weight. This small fragment probably comes from a triangular weight. None of the surface survives and the only distinctive feature is what appears to be part of a perforation measuring 7 mm in diameter. The fragment is in fabric F and weighs 19.5 gm. Type 1.

NI DA84 ph 8986(2) SF 2156 S7194 cp 7 Ek PS335

Weight. These fragments form part of a triangular clay weight consisting of the central body and one corner. It is very fragile and most of the surfaces have sheered off; where the surface does survive it is roughly smooth and flat, and has been burnt black. The corner is fairly angular. No side survives complete, but it measures c 135-140 mm in height. It is 65 mm thick and weighs 445 gm. Parts of two perforations are present and measure 10 mm and 11 mm in diameter. It is made from fabric K and is mostly unfired except for superficial burning on the surface. Type 1.

NI DA84 P2362(7) SF 2164 S7193 cp 7

Weight. This fragment is the corner of a triangular weight. It has a smooth flat surface with rounded but fairly sharp edges and corner. It measures 64 mm thick and the surviving length is 103 mm. The perforation across the corner measures 15 mm in diameter. It is made in fabric F, fired and weighs 330 gm. Type 1.

NI DA85 P2478(5) and (6) SF 2288 S6400, 6401 and 7993 cp 6 Ei-j = cp 7

Weight. These fragments probably all come from the same triangular weight, with the bulk of it occurring in layer 6. Approximately half the weight survives. The length of one side is 140 mm and the total thickness is estimated at 75-80 mm. The surfaces are smooth and flat with rounded corners and sharply curved edges. Evidence of all three perforations across the corners survive. They measure 17 mm in diameter, 9-15 mm and 12-15 mm in diameter; one has clearly been made from both sides. All the fragments total 494.5 gm in weight. They are made in fabric F and were fired. Type 1.

NI DA85 P2435(3)* SF 2305 S6374 cp 8

Weight. This fragment comes from the edge of a triangular weight. Most of the surface has sheered off, but what survives is smooth. It measures 70 mm thick and weighs 43 gm. Part of the perforation is present and measures 15 mm in diameter. It is made in fabric K and has been subjected to little heat. Type 1.

NI DA85 P2315(+) SF 2316 S6320 cp 6 Ef

Weight. This is the broken corner from a triangular weight. It has a very smooth flat triangular face, but slightly more irregular sides, and the corner is fairly angular. Part of the perforation across the corner is present and measures 13 mm in diameter. Thickness 57 mm. Weight 115 gm. Fabric F, fired. Type 1.

NI DA85 P2320(4)* SF 2328 S6331 cp 7 Ei-j

?Weight. These fragments possibly come from the side of a weight; however there are no distinctive features, so it is not clear why it was considered a small find, unless part of it has been lost or part of a perforation scrubbed away by pot washers. The fragments weigh 82.5 gm and are made in fabric F, fired. ?Type 1.

NI DA85 P2427(9) SF 2382 S6365 cp 5 Ei-k = cp 7

Weight. These fragments come from the side of a triangular weight. The surface is smooth, but undulating with remains of fingertip impressions. Part of the perforation is present and measures 18 mm in diameter and possibly another measuring 12 mm in diameter on a separate fragment. The fragments are made in fabric F and weigh 95 gm. Type 1.

NI DA85 P2427(11) SF 2383 S6368 cp 5 Ei-k = cp 7

Weight. This fragment comes from the corner of a triangular weight. It has a very smooth flat surface and a curving corner, which is pierced by a perforation 17 mm in diameter. It is made of fabric E, fired and weighs 24 gm. Type 1.

NI DA85 G294(1) SF 2384 S6414 cp 7 Ek GC23

Weight. This fragment comes from the edge of a triangular weight. It has a smooth flat surface with a sharp curving edge. Part of the perforation, but is too small to assess the diameter. The total width is estimated at c 60-66 mm. It is made in fabric D and fired, and weighs 34 gm. Type 1.

NI DA85 L1453 SF 2385 S6443 cp 5 F1 = cp 8

Weight. These fragments have the general appearance of being part of a weight. One has a well smoothed flat surface and the other has perforation measuring 20 mm in diameter. They are made in fabric K and have been subjected to little heating. They weigh 78 gm. ?Type 1.

NI DA85(+) SF 2386 S6404 cp -

Weight. This fragment from the corner of a triangular weight has a very smooth flat surface. Running across the corner is part of a perforation 25 mm in diameter. The total thickness is estimated at c 60 mm. It is made in fabric E, fired and weighs 125 gm. Type 1.

NI DA86 L1534 SF 2407 S7203 cp 6/7 Dk = cp 7

Weight. This corner fragment of a triangular weight has a smooth flat surface and well rounded corner. It measures 50-55 mm thick. The perforation across the corner measures 10 x 13 mm and appears to have been made from both sides. It weighs 182 gm and is made in fabric K and baked. Type 1.

NI DA86 P2534(7)* SF 2439 S7202 cp 7

Weight. This fragment forms part of the corner and side of a triangular weight. The surface is roughly smoothed and flat with a rounded edge and corner. The length of the side is +120 mm (estimated to total c 150 mm) and it measures 65-70 mm thick. There is evidence of two perforations across the corners. One has been made from both sides forming a figure-of-eight shape and measured 14 mm in diameter (where both overlap 14 x 15 mm). The second perforation measures 13 mm in diameter. The fragment weighs 240 gm and is made in fabric K and fired. Type 1.

NI DA85 L1486 SF 2491 S6777 cp 1/3 Eh = cp 7

Weight. This fragment from the central part of a triangular weight has a smooth flat surface and angular edge. The overall size is not known, but it measures +60 mm thick, the total probably being c 70-80 mm. Parts of two perforations are present. They measure 11 mm and 13 mm in diameter and both are running at a diagonal to the triangular face and are set at different distances from it. It is made in fabric E, fired and weighs 232 gm. Type 1.

NI DA86 P2498(1) SF 2519 S6859 cp 4

Weight. This fragment from a triangular weight has a very smooth flat side surface, pierced at an angle by a perforation measuring 13 mm in diameter. It measures +65 mm thick and weighs 132.5 gm. It is made in fabric D and fired. Type 1.

NI DA79 G130(1) SF 2520 S4427 cp 6 Rh CS40b

Weight. This fragment of triangular weight comes from the central body area. The surviving triangular surface is flat, but quite irregular and undulating; the side surface is similar, but has also been blackened from burning. Piercing the side is the remains of one perforation, which measures 11 mm in diameter and a small fragmentary area of a second measuring c 14 mm. The estimated thickness of the weight is 80 mm. It weighs 399 gm. It is made of fabric B and fired. Type 1.

NI DA80 P1545(1)* SF 2524 S4472 cp 3

Weight. This fragment is the corner of a triangular weight. The corner is rounded and the front triangular face is very smooth and flat, though the sides are a little more irregular. There remains part of a perforation c 7 mm wide across the corner. Assuming the perforation is approximately centrally placed the estimated thickness is c 65 mm. It weighs 125.5 gm and is made of fabric E. Type 1.

NI DA80 P1579(14) SF 2525 S4497 cp 8

Weight. This fragment is the corner of a triangular weight, having part of the front face and sides forming a gently curving corner. The fragment is too small to retain evidence of a perforation. It weighs 50 gm and is made of fabric F, fired. Type 1.

NI DA80 ph 7120/ph 7125(+) SF 2526 S4562 cp - PS302

Weight. The four fragments cannot be joined together, but they all clearly belong to the same triangular weight. One fragment is part of the curved corner and is pierced by a perforation 12 mm in diameter. Another fragment has part of a perforation 11 mm diameter. The fragments weigh 123 gm and are made of fabric F, fired. Type 1.

NI DA81 P1930(9) (= F101)* SF 2529 S4632 and 5171 cp 3

Weight. These fragments come from a triangular weight. The surfaces are worn and rough. One piece is from the rounded corner. The thickness is estimated at 60 mm, but the overall

dimensions are unknown. Two perforations are in evidence, one measuring 14 mm in diameter and the other 10-12 mm. The fragments weigh 171 gm and are made in fabric F. Type 1.

NI DA81 F101(2) (= P1930)* SF 2531 S4651 cp 3

Weight. This fragment is part of the corner of a triangular weight. The surface is generally smooth and flat, though slightly more irregular at the side. The width is estimated at 65-70 mm. The perforation across the corner measured 12 mm in diameter widening to 15 mm diameter at the edge. The fragment weighs 120 gm and is made in fabric F, fired. Type 1.

NI DA82 P1996(6) SF 2532 S4669 cp 7

Weight. This fragment is part of the corner of a triangular weight, broken across the perforation, which measures 15 mm in diameter. It is made in fabric E, fired and weighs 27 gm. Type 1.

NI DA82 P2032(6)* SF 2534 S6618 cp 7

Weight. This fragment comes from a triangular weight. Part of the side surface survives and is smooth and flat. This has a perforation piercing it, an angle measuring 22 mm wide at the surface decreasing to 12 mm in diameter in the middle. The thickness is incomplete, measuring 55 mm as it survives and was probably c 65 mm originally. It is made of fabric K, fired and weighs 84 gm.

NI DA83 P2208(1) SF 2535 S7165 cp 6

Weight. This fragment forms part of the side of a triangular weight. The surface is smooth and flat with a sharply rounded edge. Part of a perforation survives measuring 17 mm in diameter. It measures +45 mm thick and the total thickness is estimated c 60 mm. It is made in fabric K, baked and weighs 62 gm. Type 1.

NI DA84 P2345(11) SF 2536 S6096 cp 6 Ei-1 = cp 7

Weight. This fragment from the side of a triangular weight has a roughly smoothed surface and part of a perforation 7 mm in diameter. It is made of fabric D and weighs 41 gm. Type 1.

NI DA84 P2359(7) SF 2537 S6120 cp 8 Ei-1

Weight. This fragment comes from the corner of a triangular weight and it has a very flat smooth surface. It is made in

fabric F, fired and weighs 20 gm. Type 1.

NI DA84 L1193 SF 2538 S6150 cp 7 El = cp 8 PS335

Weight. These fragments come from a triangular weight. There are remnants of surface, which are smooth and flat and part of a perforation 8 mm in diameter. It is made in fabric K, fired and weighs 86 gm. Type 1.

NI DA84 L1215 SF 2539 S6157 cp 5 Ej = cp 7

Weight. This fragment of triangular weight has a curved edge and smooth flat surface. The total width is estimated at 70-80 mm. The perforation piercing the side surface at an angle measures 12 mm in diameter. It is made in fabric F, fired and weighs 22 gm. Type 1.

NI DA84(+) SF 2540 S6186 cp -

Weight. This fragment from a triangular weight has a curved plano-convex surface, generally smooth, with some irregularities. There are remains of two perforations piercing the side at an angle; they measure 20 mm and 21 mm in diameter. It is made from fabric F, fired and weighs 78 gm. Type 1.

NI DA86 L1628 SF 2541 S6974 cp ? Dh

Weight. This corner fragment of a triangular weight has a roughly smoothed surface. Remnants of a perforation pierce the side at an angle and measures 11 mm in diameter. The surviving width is 35 mm and the total is estimated at 70 mm. It weighs 40 gm and is made in fabric E and baked. Type 1.

NI DA84 P2347(8) and (10) SF 2545 S6104 and 6106 cp 7 Ei-l

Weight. These pieces represent the central part of a triangular weight. The surfaces are flat and vary from rough to well smoothed, with gently curving edges, where they survive. All three corners have broken off, but evidence of the perforations across them is still present. These measure 16 mm-11 mm-c 20 mm; 18 mm-c 15 mm and 14 mm. The weight is 65 mm thick and weighs 504 gm. It is made of fabric E. Type 1.

NI DA88 L1963* SF 2742 S7971 cp 6 Hk = cp 7

Weight. This triangular weight is very fragile, being made from very coarse daub in fabric E. What little survives of the surfaces suggests they were quite rough and poorly finished. The length of the sides is +130 mm (the total is estimated at c 180

mm) and the thickness varies from 90-110 mm. All three corners have broken off, but remains of two perforations across the corners survive. One measures 14 mm in diameter and the second appears to have been squashed or never fully finished measuring 5 mm at one end increasing to 8 mm close to the other side, where it splays out to 10 x 15 mm. The weight weighs 900 gm. Type 1.

NI DA87 P2581(5)* SF 2905 S7432 cp 6

Weight. This fragment comes from the side of a triangular weight. It has a very smooth flat surface and the end of a perforation piercing the side measures 10 mm in diameter. It weighs 41 gm and is made in fabric D and fired. Type 1.

NI DA87 L1849 SF 2906 S7460 cp 6 Dg

Weight. These two fragments have a smooth convex surface that could form the corner of a weight, possibly oblong rather than triangular. There is a possible groove on the broken surface that could be remains of a perforation; it is about 10 mm wide. The weight would measure 80 mm wide x 50 mm thick and is of uncertain length (only 40 mm survives). It weighs 214 gm and is made in fabric E, baked lightly. ?Type 4.

NI DA87(+) (Pit)* SF 2907 S8009 cp -

Weight. This fragment comes from the side of a triangular weight. The surface is smooth and slightly convex. The width measures +40 mm and is estimated to total c 80 mm. Remnants of a perforation piercing the side measures 11 mm in diameter. It weighs 100 gm and is made in fabric D and fired. Type 1.

NI DA88 L1997* SF 2918 S7619 cp 4 Hd

Weight. No surface survives, but what appears to be part of a perforation measures 12 mm in diameter. It is made in fabric F, fired and weighs 18.5 gm. It is most likely to be a fragment of triangular weight, though insufficient survives to be certain. ?Type 1.

NI DA82 P1978(1) SF - S4652 cp 6

?Weight. This fragment has a roughly smoothed convex surface with the merest hint of a perforation. It weighs 170 gm and is made of fabric E. ?Type 1.

NI DA82 P2040(2) SF - S4692 cp 3

?Weight. The shape of this fragment indicates it could be part of a weight; however there are no distinctive features. It is made of fabric K with a high chaff temper and weighs 35 gm. ?Type 1.

NI DA82 P2163(4)* SF - S4745 cp 7 Ff-k

Weight? This fragment possibly comes from the edge of a triangular weight, but it has no distinctive features. The surface is smooth and flat or slightly undulating. It is made of fabric F, baked and weighs 55 gm. ?Type 1.

NI DA82 P2026(3) SF - S5643 cp 4

Weight. This fragment appears to be part of the edge of a triangular weight. However it has no distinctive features to confirm this. It is made in fabric F, fired and weighs 25 gm. ?Type 1.

NI DA84 L1158 SF - S6142 cp 7 Em = cp 8

?Weight. This fragment has no surface, but part of what could be the perforation, 14 mm in diameter, of a triangular weight. It is made in fabric K, baked and weighs 5 gm. Type 1.

NI DA85 P2320(4)* SF - S6333 cp 7 Ei-j

?Weight. These fragments possibly come from the edge of a weight, but there are no distinctive features to confirm this. They are made in fabric E, fired and weigh 115 gm. ?Type 1.

NI DA85 P2320(10)* SF - S6338 cp 7 Ei-j

?Weight. These fragments have a smooth slightly convex surface with a curved edge. They could possibly be part of a corner of a triangular weight, but there are no distinctive features to confirm this. They weigh 260 gm and are made in fabric E and baked. ?Type 1.

NI DA85 P2484(2) SF - S6403 cp 6 Eh

?Weight. This fragment is probably part of a triangular weight. It has a smooth flat surface with curving edge, but no distinctive characteristics to confirm this. It is made in fabric E, fired and weighs 49 gm. Type 1.

NI DA86 L1505 SF - S6936 cp 8 D1 CS54

Weight. This fragment possibly comes from the edge of a triangular weight. It has two roughly smoothed surfaces, one slightly convex, at right angles to each other joined by a sharp curved edge. It weighs 15.5 gm and is made in fabric F and fired. There are no characteristic features to confirm it is a weight fragment. ?Type 1.

Metalworking Accessories

7.140 DA88 L2047 SF 2778 cp 4 Hb

Crucible. This piece of cup-shaped crucible has the handle and adjacent base and sides surviving. The rim diameter measures 50 mm and it stands to a height of 68 mm. The handle measures 35 mm long, 30-35 mm wide and 30-43 mm high. The walls are 10-15 mm thick. It weighs 88.1 gm. Part of the original clay surface is present on the inside and upper part of the handle; the surface is fairly well smoothed. Inside the base of the crucible is encrusted with copper alloy material and similar occurs on the base outside along with much vitrified material on the sides. It is made in fabric F, which has a very vesicular character on the outer edge. Type 2.

7.141 DA88 L2050 SF 2774 cp 1/3 Hc

Crucible. This is a complete cup-shaped crucible, which measured 60 x 65 mm in diameter and stood to a height of 52 mm. The walls are c 10-12 mm thick and the handle measures c 23 mm long, 35 mm high and 20-35 mm wide. The crucible weighs 138 gm. The fabric was nowhere visible, but is likely to be the same as the other crucibles of this type. This crucible is thickly coated with vesicular vitrified material green and purplish in colour. This occurs all over the outside over the rim and around the top inner lip. It only thins over part of the handle, where the indented surface can be seen on the top and one side. The whole of the inside is coated with green copper alloy material. Type 2.

7.142 DA88 P2590(9) SF 2682 cp 7 Hl

Crucible. This piece forms part of a small crucible consisting of a handle and the adjacent rim and base. It has a rim diameter of c 50 mm and a height of 60 mm. The walls measure c 60 mm thick. It weighs 77.9 gm and is made in fabric F, fired. This is a cup-like crucible with a thick square handle, which measures 33-40 mm high, 30-40 mm wide and projects about 35 mm from the side of the crucible. The top, bottom and sides have all been depressed to form a shallow hollow on each of the four surfaces, but not on the end. The whole of the handle and most of the outer surface is covered in vitreous material and on the base some green copper alloy material appears to be attached. The inner surface is vitrified to a depth of 25 mm below the rim and beyond that is well smoothed. Any vesicular fabric appears to be concentrated around the rim or close to the outer surface and the vitrified area of the inner surface. Type 2.

7.143 DA86 L1997 SF 2760 cp 4 Hd

Crucible. This fragment comes from the bowl of a cup crucible. The internal diameter measures 35 mm and it survives to a height of c 43 mm. The inner surface remains relatively smooth, but the base is irregular and vesicular throughout its thickness. The outside surface is covered in thick glassy slag, mainly dark green in colour, but also with red patches. The vesicular character penetrates the fabric to a depth of 8 mm from the outer surface. There appears to be some copper alloy attached to the inside base. It is made in fabric F and weighs 19.2 gm. Type 2.

7.144 DA80 ph 6954(2) SF 2807 cp -

Crucible. This fragment comes from the rim and measures 12-17 mm thick. The curvature of the rim suggests a diameter of 160 mm, though if it is part of a triangular crucible it would not have been as wide as this. Nearly 70 mm height survives. The surfaces are quite undulating and the inner surface is smooth. The crucible is made in fabric F and is very vesicular throughout, though the largest vesicles occur around the rim and on the outside. It weighs 28 gm. Type 3.

7.145 DA88 L2039 SF 2880 S8029 cp 3 Hd

?Crucible/miniature pot. This fragment forms the base of a small container made of daub in fabric A. The outer surface is fairly rough whilst the inside has been more carefully smoothed. Inside the base and sides form a continuous curve, while on the outside the base is flat and the sides steeply angled flaring out slightly. The base diameter measures 60 mm and the sides survive to a height of 23 mm. The walls are generally c 10 mm thick, though somewhat more round the basal corner. It weighs 27.2 gm. The daub appears to have been baked, but there is no evidence to indicate use as a crucible. It is however of a similar size to the cup crucibles, so it may have been intended for such use, but was lost or broken before such activity.

7.146 DA88 L2080 SF 2792 cp 4 Hb

Crucible. This fragment comes from a cup-shaped crucible forming part of the rim and side. The outside is thickly coated in vesicular vitrified material, green or purple in colour, which overlaps the rim onto the inner lip. The rest of the inside reveals the smoother clay surface of the crucible itself. No part of the handle survives. The diameter measures c 50-60 mm and it survives to a height of 40 mm; the total height is estimated at c 50 mm. The walls measure c 10 mm thick. It is made in fabric F and weighs 12.5 gm. Type 2.

7.147 DA83 P2196(2) SF 2075 S5485 cp 8

Bellow's Guard. Little survives of this object, but the general characteristics suggest it was a bellow's guard. The outer surface is flat and smooth with two faces at an angle of c 135° to each other, suggesting an overall polygonal shape. The inner surface is smooth and curved. The wall varies in thickness from 10-20 mm. The fragment weighs 51.5 gm and was made in fabric F.

7.148 DA80(+) (M86) SF 1608 S7178 cp -

Bellow's Guard. This object was roughly square or rectangular with rounded corners and had a circular hole piercing it down the middle. Assuming this hole is centrally placed, the complete object may have measured 100 x 160 mm; no more than 20 mm height has survived and its full amount cannot be estimated. The hole measures 23 mm in diameter at the base widening to 25 mm at the broken edge, which suggests this gradually got wider along the length of the object. The lower surface appears to have some slag attached to it. It was made in fabric F and has been fired. The pieces weigh 240 gm.

7.149 DA88 L2006 SF 2777 cp 6 Hi = cp 7

Crucible. This fragment is made in fabric F and weighs 19.5 gm. Exactly what form it took is not clear, as it appears to be from the corner of an object measuring +50 mm x +35 mm and varying in thickness from 23 mm at the thickened corner to 8 mm. On one side the surface is cracked and distorted and the fabric vesicular and vitrified. There is a thin vitreous sheen to the other side. The fragment appears to have been associated with metalworking in some way. The shape is not typical of a crucible, though it may have formed the handle of such an object.

7.150 DA80 F84(656) SF 2916 S7635 cp 5 Hk = cp 7

?Fire bar or oven support. These two fragments appear to be part of a circular bar 20 x 24 mm in section and of unknown length in excess of 18 mm. They weigh 11 gm and are made in fabric F.

NI DA81 P1822(1) SF 2528 S4635 cp 6

Crucible. This small fragment weighs 1 gm and measures 17 mm thick. The outer surface is slightly crazed and the inside is vitrifed over a vesicular fabric. The sherd is slightly curved, but there is little to indicate overall shape.

NI DA88 ph 10049(1) SF 2911 S7637 cp 3 Hd

Crucible. There are two fragments weighing 17 gm and made in fabric F. One is possibly a rim fragment and both are slightly curved. They have a thin green accretion on the inner surface and on the outside an irregular vesicular and vitrified brown surface. Type 2.

NI DA88 ph 10184(1) SF 2912 S8031 Hb = cp 1-3

Crucible. This small fragment comes from the rim of a crucible. The inside surface is smooth and reddened slightly. The wall is 15 mm thick and the outer half is very vesicular with large pores at the edge decreasing in size towards the inside. The surface is slightly vitrified. It weighs 2.9 gm and has been made in fabric F.

NI DA83 P2294(+) SF 2913 S6638 cp 3

Crucible. Little of the overall shape survives, but it has a rough flat surface, covered with vitreous slag. It is +22 mm thick and weighs 10 gm. It is made in fabric F and fired. Type 3.

NI DA87 P2575(4) SF 2915 S7403 cp 7 Dk

Bellow's Guard. These fragments are made in fabric E and weigh 165.5 gm. Their general characteristics suggest they are all likely to be part of a bellow's guard. Three of the fragments have curving surfaces both inside and out, which are diverging from a thickness of 25 mm to 40 mm. These are likely to come from the base of the object, where the walls are thickening and the hole down the middle decreasing in diameter. The fourth fragment is thinner varying from 12-20 mm thick. The outer surface is roughly smooth with fine and coarser striations running along its length from finger wiping. The surface changes angle to form two roughly flat surfaces at an obtuse angle to each other. The interior surface is curved with a diameter of approximately 65-70 mm. This fragment appears to come from the upper part of the object, forming part of the wide mouth of the bellow's guard.

NI DA82 P2030(4) SF 2917 S7977 cp 6

?Fire bar or oven support. This fragment appears to form some sort of pillar or support, possibly for use in an oven or furnace. It has a flat circular surface c 30 mm in diameter with slightly concave sides flaring out from this to a diameter of 36 mm. Only 18 mm of its height survives. The surfaces are moderately smooth. It weighs 5 gm and is made in fabric F.

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9 Environment and economy

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Briquetage

	cp 1-3	4	5	6	7	8	ø			
#1	2%	0.6%	1.25%	3%	44%	8.7%	0.2%			
	10	3	6	15	211	42	1	=	288	59.9%
#2		13.5%			0.6%	0.2%				
	-	65	-	-	3	1	-	=	69	14.3%
#3		0.2%	0.4%		0.2%					
	-	1	2	-	1	-	-	=	4	0.83%
#5	0.2%			0.2%	5%	0.4%				
	1	-	-	1	23	2	-	=	27	5.6%
#4	1.25%		0.2%	1.25%	14%	1.5%	1.25%			
	6	-	1	6	67	7	6	=	83	17.25%
	17	69	9	22	305	52	7		481	

Forms/cp/sherd count

	cp 1-3	4	5	6	7	8	ø		
#1	2.16%	0.85%	0.76%	5.69%	74%	15.9%	0.73%		
	30.5	12.0	10.8	80.5	1044.5	225.3	10.3	=	1413.9 gm
#2		89.6%			6.7%	3.8%			
	-	534.0	-	-	39.9	22.5	-	=	596.4 gm
#3		60%	28.75%		10%				
	-	29.0	13.8	-	5.0	-	-	=	47.8 gm
#5	6.69%			11.6%	76%	5%			
	11.5	-	-	20.0	131.5	9.0	-	=	172.0 gm
#4	9.6%		1.8%	8.9%	60.5%	5.5%	13.7%		
	34.0	-	6.5	31.5	214.8	19.5	48.5	=	354.8 gm
									2585.0 gm

Forms/cp/weight

	cp 1-3	4	5	6	7	8	ø			
X1	0.83%	0.4%	1%	1.7%	32%	5%				
	4	2	5	8	156	24	-	=	199	41.4%
X2	1.25%	0.2%	0.2%	1.7%	7.7%	1.9%				
	6	1	1	8	37	9	-	=	62	12.9%
X3	0.33%		0.2%	0.2%	7%	0.4%	0.6%			
	4	-	1	1	34	2	3	=	45	9.4%
X4	0.6%	13.7%	0.4%	1%	16%	3.5%	0.33%			
	3	66	2	5	78	17	4	=	175	36.4%
	17	89	9	22	305	52	7		481	

Fabrics/cp/sherd count

	cp 1-3	4	5	6	7	8	ø		
X1	1.07%	0.97%	0.7%	3.5%	82%	12%			
	10.5	9.5	6.8	34.0	800.0	116.0	-	=	977.4 gm
X2	6.4%	0.8%	2.2%	19.6%	59%	12%			
	19.0	2.5	6.5	58.5	175.8	37.0	-	=	299.3 gm
X3	9.6%		1.5%	2%	59%	15%	12.5%		
	31.5	-	4.0	6.5	193.8	50.0	41.0	=	326.8 gm
X4	1.53%	57%	1.4%	3.36%	27%	7.5%	1.8%		
	15.0	561.0	13.8	33.0	265.5	73.3	17.8	=	981.4 gm
									2585.0 gm

Fabrics/cp/weight

S	X	cp 1-3	4	5	6	7	8	Total	%	⊕			
S1	X1	4	2	5	5	125	23	164	34.1%	-	)		
S1	X2	4	1	-	4	20	5	34	7.07%	-	)	59.67%	S1	286
S1	X3	2	-	1	1	18	1	23	4.78%	-	)			
S1	X4	-	-	-	5	48	13	65	13.5%	1	)			
S2	X1	-	-	-	-	3	1	4	0.83%	-	)	14.35%	S2	69
S2	X4	-	65	-	-	-	-	65	13.5%	-	)			
S3	X3	-	-	-	-	1	-	1	0.21%	-	)	0.83%	S3	4
S3	X4	-	1	2	-	-	-	3	0.62%	-	)			
S5	X1	-	-	-	1	14	-	15	3.1%	-	)	5.6%	S5	27
S5	X4	1	-	-	-	9	2	12	2.49%	-	)			
S4	X1	-	-	-	2	14	-	16	3.3%	-	)			
S4	X2	2	-	1	4	17	4	28	5.8%	-	)	21.8%	S4	87
S4	X3	2	-	-	-	15	1	18	3.74%	3	)			
S4	X4	2	-	-	-	21	2	25	5.2%	3	)			
		17	69	9	22	305	52	474	Total 481	7			
		3.5%	14.3%	1.87%	4.51%	63.2%	10.8%		100%	1.66%			

Sherd numbers

X1 = 41.37% - 199
X2 = 12.89% - 62
X3 = 9.36% - 45
X4 = 36.17% - 174

Number of sherds for each form/fabric of briquetage

S	X	cp 1-3	4	5	6	7	8	⊕	Total	%			
S1	X1	10.5	9.5	6.8	10.0	621.7	93.5	-	752.0	28.7%	)		
S1	X2	9.0	2.5	-	31.0	121.8	25.0	-	189.3	7.22%	)	53.92%	S1	1413.9 gm
S1	X3	11.0	-	4.0	6.5	129.5	46.0	-	197.0	7.5%	)			
S1	X4	-	-	-	33.0	171.5	60.8	10.3	275.6	10.5%	)			
S2	X1	-	-	-	-	39.9	22.5	-	62.4	2.4%	)	22.8%	S2	596.4 gm
S2	X4	-	534.0	-	-	-	-	-	534.0	20.4%	)			
S3	X3	-	-	-	-	5.0	-	-	5.0	0.19%	)	1.82%	S3	47.8 gm
S3	X4	-	29.0	13.8	-	-	-	-	42.8	1.63%	)			
S5	X1	-	-	-	20.0	86.0	-	-	106.0	4.04%	)	6.54%	S5	172.0 gm
S5	X4	11.5	-	-	-	45.5	9.0	-	66.0	2.5%	)			
S4	X1	-	-	-	4.0	53.0	-	-	57.0	2.17%	)			
S4	X2	10.0	-	6.5	27.5	54.0	12.0	-	110.0	4.19%	)	13.51%	S4	354.[illegible] gm
S4	X3	20.5	-	-	-	59.3	4.0	41.0	124.8	4.75%	)			
S4	X4	3.5	-	-	-	48.5	3.5	7.5	63.0	2.4%	)			
Total		76.0	575.0	31.1	132.0	1435.7	276.3	58.8	2584.9 2622.1				
%		2.9%	21.9%	1.19%	5.0%	54.76%	10.5%	2.24%	100%				

X1 = 977.4 gm - 37.28%
X2 = 299.3 gm - 11.4%
X3 = 326.8 gm - 12.46%
X4 = 981.4 gm - 37.43%

Weight in grammes for each form/fabric of briquetage

7.2.2 Analysis of Bronze Metalwork by Peter Northover

sf	No.	Am.	Context	Type	Sn	As	Sb	Pb	Co	Ni	Fe	Ag	Au	Zn	Bi
cp 3															
2201	1.104	109	1869	Disc/mirror binding	13.25	0.10	.	0.00	0.11	0.03	0.12	.	.	.	.
2435	1.107	92	P2252/1	Cladding strip	12.54	0.38	.	0.05	0.03	0.04	.	.	.	.	0.02
2467	1.107	73	P2252/1	Cladding strip	12.85	0.09	.	.	0.05	0.02	0.02	0.02	.	.	.
2672	1.114	60	1993	Folded sheet	12.60	0.36	.	.	0.14	0.05	0.10	.	.	.	0.01
2717	1.94	62	1993	Harness mount/disc	11.27	0.10	.	.	0.04	0.05	0.05	0.02	.	.	0.03
2773		69	ph10118/2	Sheet fragment	11.63	0.29	.	0.05	0.13	0.05	0.08	0.02	0.05	0.03	.
2774		134	2050	Crucible residue	5.75	0.26	0.01	0.30	0.04	0.04	0.65	0.04	.	.	.
2778		136	2047	Crucible residue	0.02	0.02	0.03	.	.	.	0.02	0.18	.	.	.
2792		135	2000	Crucible residue	11.72	0.29	0.03	0.39	0.02	0.03	0.15	0.16	.	.	0.03
cp 4															
2779		67	ph10125/3	Ribbed binding	12.09	0.22	.	0.04	0.11	0.05	0.04	0.02	.	.	.
cp 5															
2396	1.126	95	1511	Scabbard fragment	14.65%	0.16	0.13	0.19	0.09	0.07	0.17	0.03	.	.	.
2396		122	1511	Pin/brooch fragment	14.11	0.09	0.05	0.02	0.02	0.02	0.05	.	.	.	.
2396		94	1511	Sheet fragment	15.78%	.	0.06	.	.	0.05	0.02	0.03	0.09.	.	0.01
2405	1.105	78	1530	Straight U-binding	13.11	0.48	0.02	0.15	0.15	0.04	0.04	.	.	.	.
2409	1.119	133	1604	Penannular brooch pin	12.53	0.60	0.04	0.11	0.13	0.05	0.06	0.01	.	.	.
2693	1.129	846	1990	Pouch contents : see Table 0											
cp 6															
1526		87	592	Fragment on stone	8.48	0.07	0.02	0.07	0.02	0.02	0.32	0.03	.	.	0.03
1954		115	P2183/1	Sheet fragment	15.38%	0.25	0.11					0.09		.	
2558	1.128	103	1459	Sheet with Fe, wood	(12.96	0.17	.	0.04	.	0.01	0.11	0.02	.	.	0.03)
2428	1.123	89	1524	Cladding for point	5.52	0.14	.	0.10	0.04	0.05	0.04	0.05	.	.	0.02
2707		68	1963	Sheet fragments	(28.42	0.40	.	0.16	0.03	0.01	0.11	.	.	.	0.03)
2745		64	6390/1	Sheet fragment	Corrosion products only										
2751		66	6330/1	Sheet fragment	7.96	0.22	0.56	.	0.01	0.34	0.04	0.06	.	.	0.01
cp 7															
1751		85	P1224/12	Sheet frag., cladding	(22.21	0.52	0.76	0.41	0.01	0.05	0.04	0.05	.	.	0.13)
1782		84	725	Small sheet fragment	(34.77	0.16	0.07	0.19	0.17	0.07	0.30	0.04	.	.	0.04)
1785		88	725	Small sheet frgment	9.77	0.15	.	0.10	0.04	0.05	0.34	.	.	.	0.02
1794		86	725	Sheet, assembled	(18.92	0.64	0.31	0.16	.	.	.	0.03	.	.	.)
1871		83	P2121/1	Vessel binding	13.07	.	0.07	0.41	0.03	0.04	0.09	0.02	.	.	0.06
1989	1.93	100	868	Strip (?from ring)	12.08	0.27	0.05	0.22	0.21	0.06	0.21	0.02	0.06	.	.
1978		114	P2271/13	Fused, crumpled sheet	Corrosion products only										
2029	1.125	107	861	Binding, crushed	(15.80	0.56	0.32	1.28	0.06	0.14	0.13	0.04	.	.	0.01
2136	1.101	116	1207	Decorated binding	16.70%	0.52	0.10	0.05	0.02	.	0.04	0.11	.	.	.
2150	1.103	117	1234	Decorated sheet	15.28%	1.16	0.24	0.32	0.12	0.11	0.01	0.06	.	.	.
2257	1.106	121	6294/1	Strip (?cladding)	12.94	0.19	.	.	0.09	0.03	0.07	0.03	0.08	.	.
2265	1.113	101	P2444/6	2 pkts folded sheet	12.01	0.39	0.07	0.05	0.13	0.02	0.17	0.09	.	0.07	.
2267		120	P2444/6	Sheet fragment	13.91	0.37	.	0.08	0.23	0.01	0.09	0.06	.	.	0.03
2288	1.99	138	1867	Barrel frag., ribbed	2.38	0.60	0.04	0.11	0.13	0.05	0.06	0.01	.	.	.
2429		96	1867	Sheet fragment	11.78	.	0.04	.	0.01	0.02	0.02	0.02	.	.	.
2434		75	1867	Sheet fragment	(3.75	0.06	.	0.38	.	.	.	0.04	0.08	0.05	.)
2438		79	1867	Sheet fragment	Corrosion products only										
2440		90	1867	Sheet fragment	Corrosion products only										

sf	No.	An.	Context	Type	Sn	As	Sb	Pb	Co	Ni	Fe	Ag	Au	Zn	Bi
cp 7, continued															
2441		93	1567	Sheet fragment	(26.58	0.13	0.74	0.70	0.02	0.03	0.22	0.02	.	.	.)
2443	1.108	97	1567	Vessel fragment	14.26	0.24	0.26	0.91	0.04	0.13	0.00	0.04	.	.	.
2448		98	1567	Sheet fragment	Corrosion products only										
2450	1.120	125	1567	Chape frag. (casting)	15.13	0.10	0.21	0.38	0.06	0.00	0.12	.	.	.	.
2450	1.120	126	1567	Chape frag. (rivet)	13.34	0.36	0.17	1.15	0.00	0.10	0.22	.	.	.	.
2453		91	1567	Sheet fragment	(17.55	.	0.27	0.84	.	.	0.03	0.06	.	.	0.00)
2461		76	1567	Riveted vessel frag.	12.50	0.35	0.06	0.13	0.11	0.07	0.04	0.06	.	.	.
2462		74	1567	Sheet fragment	(14.23	1.35	0.56	0.63	0.04	0.10	0.11	0.17	.	.	0.16)
2599		72	P2572/2	Cut sheet fragment	9.99	0.35	tr	5.50	0.07	0.13	0.03	0.15	.	.	.
2609	1.111	77	P2579/4	Crumpled sheet	13.93	.	.	0.02	0.01	0.09	0.01	0.02	.	.	.
2624		71	1869	Sheet	(20.37	0.93	0.02	0.52	0.02	0.06	0.09	0.06	.	.	.)
2624		131	1869	Rivet	11.27	0.36	0.06	0.52	0.03	0.06	0.10	0.03	.	.	.
2711		65	1966	Sheet fragment	Corrosion products only										
2719		63	1966	Sheet fragment	(11.24	0.10	.	.	0.04	0.04	0.10	0.03	.	0.02	.)
cp 8															
1666	1.97	128	P1579/13	Terret fragment	11.19	0.45	0.14	0.96	0.20	0.06	0.06	0.00	.	.	0.02
1936		112	P2261/1	Sheet fragment	11.26	0.33	0.04	0.04	0.02	0.03	0.13	0.04	.	.	.
1945	1.95	130	P2261/1	Hollow ring	10.79	0.31	.	0.17	0.11	0.03	0.22	0.04	.	0.17	0.04
1946	1.96	127	P2261/6	Terret, beaded	12.27	0.60	1.17	0.05	.	0.10	0.02	0.18	.	.	.
1947	1.90	129	P2261/6	Terret, ribbed	11.00	0.48	0.06	0.25	0.00	0.00	0.930	0.04	.	.	.
1970		111	P2261/3	Ring	11.12	0.47	0.03	0.11	0.04	0.03	0.06	0.00	.	.	.
1980		118	P2261/11	Small sheet fragments	(22.73	0.74	0.02	1.07	0.16	0.05	0.20	.	.	.	.
1980		119	P2261/11	Small sheet fragments	(6.94	0.18	0.02	3.26	0.04	0.04	0.17	.	.	.	.)
1982		110	P2261/11	Sheet fragments	14.16	0.39	0.05	0.07	0.19	0.07	0.09	.	.	.	0.02
2266		100	P2443/1	Sheet fragment	10.40	0.55	.	.	0.15	0.10	0.05	0.02	.	.	.)
2269	1.127	102	P2435/5	Sheet, shaped	5.778	0.39	0.57	0.29	0.01	0.04	0.02	0.05	.	.	0.07
2794	1.124	105	P2435/5	Wire (twisted strip)	(27.29	.	0.16	0.24	0.03	0.03	0.03	0.05	.	0.03	.)
2296		106	P2435/5	Crumpled sheet frag.	5.40	0.39	0.05	0.12	0.02	0.03	0.02	.	.	.	.
2306	1.110	61	P2436/6	Crumpled sheet frag.	8.39	0.41	0.36	0.43	0.00	0.07	0.02	0.13	.	.	.
2320		99	P2435/5	Small sheet fragment	(2.79	0.07	.	0.02	0.03	0.02	0.19	.	.	.	.)
Unphased															
1528		81	ph3939/1	Folded strip	11.028	0.38	0.34	0.31	0.01	0.10	0.34	0.09	.	.	0.06
1672	1.117	123	US	Stud	6.18	0.44	0.02	.	0.03	0.02	0.17	0.06	.	.	.
1838	1.109	86	9	Sheet trimming, dec.	11.14	0.19	0.21	0.56	0.02	0.30	0.04	0.04	.	.	.
1925		113	US	Sheet fragment	(3.13	.	0.04	0.71	0.04	.	0.04	.	.	.	.
2390	1.116	124	ph9778/2	Domed stud	8.60	0.29	1.05	0.14	.	0.09	0.09	0.08	.	.	.
2728		70	622	Sheet fragment	11.01	0.08	0.05	0.39	0.16	0.04	0.16	0.03	.	0.03	.

Notes
% = value for this element affected by corrosion
An analysis enclosed in parentheses indicates that the sample area was very corroded but either some sound metal survives or there is still sufficient evidence to assign the analysis to an impurity pattern.
The phrase 'corrosion products only' indicates that only copper oxide or chloride corrosion products were identified.

Table 2a : Contents of pouch (DABA6)

No.	Sn	As	Sb	Pb	Co	Ni	Fe	Ag	Au	Zn	Bi
1	0,91		0,14	0,04	.	0,06	0,09	0,06	0,04	.	.
7	0,65		0,09	0,05	.	0,04	0,06	0,05	0,05	.	0,04
13	0,27		0,15	0,05	0,01	0,06	0,01	0,12	.	.	.
5	2,40		0,16	0,21	.	0,07	0,09	0,04	.	.	0,04
12	7,40		0,12	0,05	0,02	0,55	0,22	.	.	.	0,05
2	9,50		0,43	0,44	0,03	0,11	1,028	0,19	0,03	0,07	0,06
3	8,31		0,35	0,19	0,04	0,09	0,15	0,16	.	.	.
4	8,76		0,37	0,27	0,04	0,12	0,18	0,18	.	.	0,04
8	9,05		0,36	0,25	0,03	0,13	0,11	0,14	.	.	0,08
9	9,25		0,42	0,27	0,02	0,08	0,04	0,22	.	.	.
10	8,37		0,37	0,29	0,05	0,08	0,02	0,19	.	.	.
11	8,62		0,34	0,17	0,03	0,09	0,08	0,15	.	.	.
14	8,53		0,35	0,35	0,01	0,07	0,01	0,12	.	.	.
15	8,43		0,36	0,27	0,03	0,09	0,08	0,21	.	.	.
6	13,09		0,34	0,09	0,02	0,07	0,16	0,14	.	0,08	.

Table 2b ; Contents of pouch (BABAG)

No.	Sn	As	Sb	Ag	Zn
5	0,17	0,37	0,14	0,10	.
10	0,21	0,60	0,15	0,09	.
12	0,22	0,35	0,07	0,07	.
15	0,31	0,30	0,14	0,06	.
17	0,16	0,34	0,10	0,05	.
37	0,12	0,07	0,05	0,05	.
40	0,20	0,20	0,10	0,03	.
44	0,43	0,51	0,28	0,11	.
1	8,60	0,99	0,32	0,15	.
2	8,01	1,00	0,34	0,13	.
3	8,34	0,94	0,33	0,17	.
4	8,79	1,03	0,40	0,17	.
6	8,61	1,00	0,33	0,13	.
7	8,75	1,04	0,38	0,14	.
8	8,11	0,94	0,32	0,16	0,03
11	8,18	1,01	0,35	0,14	.
13	8,41	0,95	0,35	0,17	0,03
14	8,38	0,94	0,37	0,10	0,05
16	8,47	1,10	0,35	0,16	.
19	7,47	0,79	0,28	0,12	.
20	8,49	0,99	0,30	0,16	.
21	7,35	0,79	0,32	0,10	.
22	8,14	1,09	0,38	0,12	0,03
23	8,15	0,90	0,35	0,17	0,04
24	8,52	1,11	0,33	0,17	.
25	8,80	1,03	0,35	0,12	.
26	8,17	1,03	0,33	0,13	.
27	9,04	0,96	0,40	0,19	.
28	8,90	1,01	0,38	0,15	0,02
29	8,12	0,99	0,30	0,11	.
30	8,51	0,92	0,35	0,20	.
31	8,14	0,86	0,35	0,15	0,07
32	8,51	0,92	0,35	0,20	.
33	7,44	0,89	0,30	0,17	0,01
35	8,41	1,09	0,33	0,20	0,03
36	8,13	0,83	0,33	0,11	.
38	8,18	0,94	0,32	0,15	.
39	9,06	1,00	0,43	0,17	.
41	7,64	0,90	0,31	0,14	.
42	8,92	1,01	0,37	0,15	.
43	8,00	0,76	0,34	0,11	.
45	8,48	0,91	0,35	0,15	0,02
46	8,59	0,97	0,33	0,13	.
34	14,23	0,44	0,04	0,04	.

CATALOGUE OF SLAG

INTRODUCTION

The following catalogue is the full record of all the slag found during the Danebury Excavations 1969 to 1988. Although some analysis numbers are quoted in the list, there is still much work to done on the material. The tables of analyses and their detailed interpretation has been deferred to Danebury volume 6. However, a complete list of the slags and iron ores sampled for further work is given (the DAS list).

The data given in the catalogue is as follows:-

Year	
Context	
Layer number	(in the case of pits and other subdivided features).
The Site Number	(if given, zero indicates no number).
Weight	(in grammes).
Number of pieces	(or estimate of number when a large number of small pieces were recovered).
Ceramic phase	(The computer generated file of pit and feature phases was used).
(Sub-type)	(Only in the case of the high density slags see below).
Comments	

The catalogue is arranged in slag type, then ceramic phase order. Subtotals for weight and number of pieces are given for each ceramic phase and slag type. The full data, including the chemical analyses obtained so far, is held in the form of DBASE III files by C. J. Salter (Department of Metallurgy and Science of Materials, Parks Road. Oxford), and is therefore readily available for computer access.

THE CLASSIFICATION

The production of an iron artefact starting from the ore using the bloomery process requires three stages, smelting, bloom forging, and finally artefact forging which may involve both simple hammer forging and welding. All these processes produce a range of slags so that it can be difficult to distinguish the type of process that occurred on a site from a few pieces of slag. Especially, in the case of Iron Age iron-working sites as for a large part of the Iron Age iron was smelted in non-slag

tapping furnaces, as the high density slags from these non-slag tapping furnace are very similar in chemistry and morphology to the high density slags produced during the subsequent bloom forging stage. (The bloom forging stage is necessary to consolidate the metallic iron in the bloom and expel the

entrapped slag.) These high density slags are also very similar to the high density slags produced during extensive welding operations. At the same time as the high density (or bulk slags) are formed the effect of heat on the furnace or hearth lining is to produce a series of low density products through either direct fusion or fusion helped by the fluxing action of the fuel and metal oxides in the hearth. Thus, the material types LINING MATERIAL, LINING REACTION PRODUCT, FUEL ASH SLAG (and possibly the Black Vitreous Material) are really a continuous series depending on the amount of fluxing by the alkali elements in the charcoal ash or the iron oxide formed by the oxidization of the iron, the maximum temperature reached and the duration of the high temperature working stage.

The boundaries between the various classes of material are, thus, arbitrary. However, the present scheme which has evolved over the years, seems to be satisfactory.

LINING MATERIAL (LM):-

The lowest temperature member of the series. The lining material class includes baked clay with some sign of vitrification, as those sample with well defined vitrified surfaces.

The surface vitrification may be purely due to the local fusion of the clay, or due to reduction of the fusion point by fluxing elements from the fuel or the charge in the hearth. However, the depth of the surface vitrification and the associated heat affect zone are an indication of the type of heating cycle the hearth sustained. When the study of the degree of vitrification is associated with chemical analysis a large amount of information about the how the hearth was run can be obtained.

Material of this class could be formed in pottery kilns, or in copper-, glass-, or iron-working hearths. This material is, therefore, not process diagnostic without chemical analysis.

LINING REACTION PRODUCT (LRP):-

This material is intermediate between the bulk high density slags and the lining material(LM). In general, the slags have

relatively high iron oxide contents due to additions from the charge in the hearth. They are usually inhomogeneous with partially digested fragments of hearth lining inclusions (chert, flint etc.). The slag morphology is of flow, drips and other free forms, unlike the LM class which has morphologies defined by the surface of the hearth.

The high iron content is usually indicative of iron working processes, althougn, occasionally it may be generated during the working of impure copper (analysis would indicate which).

FUEL ASH SLAG (FAS):-

This material is non-process diagnostic. It may be generated by the partial fusion of fragments of the hearth lining and any other waste accumulating in the bottom of the hearth helped by the fluxing action of the alkali elements in the charcoal or wood fuel. The pieces often have a rounded form indicating that they either dripped off the hearth lining or were formed as free particles rolling around the bottom of the hearth. The darker forms are often associated with iron-working processes, whereas, the lighter forms are often but not necessarily associated with copper working. A high percentage of the FAS from Danebury was of the light coloured form, and therefore, may be associated with copper-working.

The Black Vitreous Material (BVM):-

This black glassy type material may be related to FAS and be associated with iron-working, but more work is required to define its exact nature. Hence, it has been given a separate class for the moment.

HAMMER SCALE (HS):-

This material consisting of flakes of iron oxide or iron oxide and slag is characteristic of iron-working, and forging in particular, although small amounts will form during the later stages of bloom forging. Hammer scale is the oxide shed from the surface of the metal as it is heated and hammered during forging and welding. In general, the higher the temperature that the metal reached during these processes, the thicker the hammer produced.

It is surprising that, considering the other evidence of iron-working on the site, only a few flakes of hammer scales attached other slag forms were recorded. The material can form

thick deposits in the immediate area of the hearth and anvil. There could be number reasons for the lack of hammer scale at Danebury. If it had corroded, which can occur due to its finely divided nature, it could have easily be mistaken for a hard pan during excavation. Equally well it could have been misses if mixed with charcoal, but it would have become apparent when the flotation residues were examined as was with the case at Maiden Castle, where large quantities were recovered. However, the most likely explanation of the lack of hammer scale is due to its sand-like nature. This means that it is easily dispersed if the original deposit is disturbed.

The HIGH DENSITY SLAGS

These slag all have a high iron content, are well crystallised and relatively homogeneous. They are normally characteristic of iron-working processes, especially those occurring at higher temperatures (welding and bloom forging). The sub-type classification is based on the external morphology of the slag:

Type	Description
F	Fragments
1	Drips, and small flows
2	Flows 10-25 mm. across
3	Small planar flows up to 20 mm. across
4	Small irregular plano-convex slag
5	Intermediate plano-convex slag (hearth bottoms)
6	Large plano-convex slag

The classes 3 to 6 usually represent the slag that accumulated in the bottom of the furnace or hearth between successive clearances of the hearth. The frequency of cleaning of the hearth would depend on the type of work that was being carried out, and the skill of the smith. Forging needed to carry simple repairs and produce simple objects such as a sickle could be carried out quickly at relatively low temperatures (rarely above 1000 °C), hence, relatively little iron would be oxidised to take part in slag formation. Therefore, slag types 1 to 3 would predominate, although some type 1 and 2 slags could be produced during smithing or could result from drips and flows from the larger slag types.

The forging of complex shapes would require longer periods at these relatively low temperatures, while welding requires higher temperatures (over 1150 °C), hence larger slag masses would form. Similar large slag forms would be produced by the conversion of a raw slag-iron bloom into a useable billet of metal. However, the minimal amount of evidence for iron-smelting at Danebury
suggests bloom forging would not have been the primary mode of formation of the larger slag forms (4 to 6).

In addition to the above classes there were the 20 or so miscellaneous samples, the majority of which were samples of heated and sintered soil. This is one of the possible sources of material for the formation of FAS. There were a few fragments of what could have been fused ceramic or possible crucible. The most remark find was a rusty smooth object which had originally been classified as unusual fragment of heated tertiary iron-stone. However, it proved to be magnetic and on sectioning a number of metallic grains were observed. Their morphology was unusual for fragment of corroded bloom. An preliminary examination in the scanning electron microscope proved that the associate minerals were not those expected in a bloomery slag. They were an magnesium iron silicate, chromite and the iron sulphide troilite (FeS), and the iron had a high nickel content. The magnesium iron silicate and chromite might indicate a ultra-basic igneous rock. However, the iron-alloy content was much higher than is normal for this type of terrestrial rock. Moreover, the nickel content of iron alloy which was as high as 20 percent in some grains, is much too high for a terrestrial source, but is in the range found in meteorites.

DANEBURY SLAG Catalogue

HIGH DENSITY SLAGS
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Sub-Type	Phase	Comment
** Ceramic Phase 1								
72	P	223	1	1319	7.0	2	F	1 - 5 Fragments
** Ceramic Phase 3								
87	L	1678	0	0	61.0	1	F	3 - 3 Fragmented (probably originally 1 piece)
71	P	95	2	1340	19.0	1	3	3 - 3 Small type 3 flow
71	P	95	2	1340	90.0	1	4	3 - 3 Small type 4 flow
71	P	95	2	1340	149.0	1	4	3 - 3 Type 4 flow
71	P	95	2	1340	71.0	3	F	3 - 3 Fragments
71	P	107	3	1339	153.0	1	4	3 - 4 Thick slag bun of dense slag with few vesicles
73	P	425	1	1322	23.0	1	2	3 - 5 A small type 2 flow
74	P	618	1	1363	8.0	1	1	3 - 3 Drip with high iron content - rusting
74	P	696	1	1378	28.0	1	F	3 - 3 Fragment
74	P	707	2	1386	7.0	1	F	3 - 3 Fragment
78	P	1031	7	1891	17.0	1	2	3 - 4 Small slag flow
80	P	1549	5	0	19.6	1	1	3 - 3 Fragment of flow with chert inclusions verging on LRP
** Subtotal **					645.6	14		
** Ceramic Phase 4								
70	F	11	1	1307	33.0	1	F	4 - 6 Fragment of flow
71	P	55	2	1359	91.0	1	4	4 - 5 Fragmented type 4
79	P	1242	1	3589	5.0	3		4 - 4 Fragments
79	P	1242	1	3589	17.2	1	1	4 - 4 Small 'crispy' type flow
79	P	1242	1	3589	10.2	1	1	4 - 4 Small drip
79	P	1242	1	3589	51.5	1	3	4 - 4 Fragment of type 3/4 (52mm wide, 21mm thick)
79	P	1242	1	3532	85.7	1	3	4 - 4 Type 3 form :- dimensions 51 mm long, 60 wide, 13 thick
** Subtotal **					293.6	9		
** Ceramic Phase 5								
74	P	583	4	1361	14.0	6	F	5 - 5 Fragments
** Ceramic Phase 6								
79	L	592	0	3530	11.8	2	3	6 - 7 Fragments of thin planar slag type 3 (10 mm thick)
74	P	645	1	1337	115.0	1	3	6 - 6 Thin fluid flow of type 3, 100mm long, 8mm thick
74	P	741	1	1392	158.0	9	4	6 - 6 Fragmented grey slag with chalk inclusions
74	P	741	2	1401	26.0	2	F	6 - 6 Fragments moderate rather than high density slag
87	P	2582	1	0	12.7	2	F	6 - 6 Fragments of high density slag
** Subtotal **					323.5	16		

DANEBURY SLAG Catalogue

HIGH DENSITY SLAGS
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Sub-Type	Phase Range	Comment
** Ceramic Phase 7								
74	P	63	1	1350	97.0	1	4	7 - 7 Fragmented type 4
71	P	78	2	1325	12.0	1	F	7 - 7 Fragment
71	P	78	3	1306	23.0	1	F	7 - 7 Fragment
71	P	79	4	1295	121.0	6	2	7 - 7 Dribbles of moderate density slag (type 2 and 3)
71	P	79	5	177	33.0	4	1	7 - 7 Small runs and dribbles of slag
71	P	79	9	1360	167.0	20	5	7 - 7 May be one large type 4/5 plano-convex flow
72	P	166	6	1374	46.0	8	F	7 - 7 Fragments, one of which is semi-reduced iron ore
74	P	582	5	1352	18.0	1	F	7 - 7 Fragment of irregular slag
74	P	584	3	1314	12.0	1	2	7 - 7 Small irregular flow
74	P	624	2	1330	59.0	1	4	7 - 7 Small plano-convex form
74	P	624	3	1316	71.0	1	3	7 - 7 Small flat flow
74	P	624	3	1316	89.0	1	3	7 - 7 Small flat flow
74	P	624	3	1316	62.0	2	F	7 - 7 Fragments of slag types 4 or 5
74	P	636	4	1376	321.0	1	5	7 - 7 Large flow sub-tuyere
74	P	636	7	1334	54.0	1	3	7 - 7 Planar flow 14 mm thick
74	P	636	9	1329	132.0	1	4	7 - 7 Plano-convex form
74	P	636	9	1329	290.0	1	5	7 - 7 Type 5
74	P	652	1	1293	357.0	1	5	7 - 7 Plano-convex slag up 150 mm across with large silica in
74	P	652	3	1332	41.0	1	3	7 - 7 Plano-convex type 3
74	P	652	3	1332	84.0	1	3	7 - 7 Plano-convex form of type 3/4
74	P	652	3	1332	35.0	1	F	7 - 7 Fragment probably from plano-convex form
76	P	878	5	1631	35.2	1	2	7 - 7 Small flow/ dribble (analysis ref S153)
76	P	885	3	1621	46.9	1	1	7 - 7 Drip (analysis ref S150)
80	P	1456	3	0	51.0	1		7 - 7 Fragment, probably of type 4 with an overflow of LRP
80	P	1456	3	0	79.0	1	3	7 - 7 Fragment of flow type 3/4 69x37x20t
80	P	1456	3	0	82.0	1	4	7 - 7 Fragment of type 4 fairly flat Dimensions 71.w 31.1 16
80	P	1456	3	0	172.0	1	4	7 - 7 Flow Dimensions 73w 571 18t
80	P	1479	2	0	36.5	2	F	7 - 7 Fragments attached to lining
82	P	2032	5	0	49.0	1	2	7 - 7 Small flow Type 2 Dimensions 551 38 x15
** Subtotal **					2675.6	65		

DANEBURY SLAG Catalogue

HIGH DENSITY SLAGS
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Sub-Type	Phase Range	Comment
** Ceramic Phase 8								
73	P	389	1 1343	166.0	12	3	8 - 8	Thin planar or semi-planar flows of type 3
73	P	389	3 1344	31.0	8	F	8 - 8	Fragments
73	P	475	1 1323	17.0	3	1	8 - 8	Small drips type 1 and 2
74	P	699	1 1379	170.0	2	4	8 - 8	Two type 4 sub-tuyere slag flows
74	P	701	1 1299	371.0	1	6	8 - 8	Plano-convex form with impressed chalk
80	P	1530	2 0	21.1	1	3	8 - 8	Small planar flow (Type 3)
** Subtotal **				776.1	27			
** Unstratrified								
70	F	16	20 52	464.0	1	6	0 - 0	Rusty topped Plano-convex slag with charcoal marks
70	F	18	20 1324	45.0	2	3	0 - 0	Two thin planar flows
71	Ph	206	0 1336	61.0	1	4	0 - 0	Small plano-convex form of type 4 to 3
87	Ph	9958	2 0	1.4	1	F	0 - 0	Fragment of bulk slag
** Subtotal **				571.4	5			
*** Total ***								
High Density slags				5306.8	144			

DANEBURY SLAG Catalogue

SLAGS with HAMMER SCALE
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
70	F	12	49 1320	3.0	1	3 - 3	Forging slag of a rather thick type (3mm)
73	P	389	3 1344	6.0	1	8 - 8	Forging slag (FAS) with hammer scale type structures
79	P	1242	1 3589	5.2	1	4 - 4	Slag or corroded iron with hammer scale on surface
*** Total ***				14.2	3		

LINING REACTION PRODUCT SLAGS
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Phase Comment Range
** Ceramic Phase 3						
71	L	38	0 1296	2.0	1	3 - 7 Fragment of viscous 'crispy slag'
71	P	70	2 1327	10.0	1	3 - 3
76	P	923	3 1633	1.8	1	3 - 4 Small black fragment (Analysis ref S152)
** Subtotal **				13.8	3	
** Ceramic Phase 4						
87	L	1664	0 0	18.0	1	4 - 4 With white to light green FAS
** Ceramic Phase 5						
85	P	2427	11 6388	8.7	2	5 - 5 Verging on grey Fuel ash slag
86	P	2513	2 6872	89.0	39	5 - 5 White LRP/Fuel ash slag
86	P	2513	6 6871	44.0	4	5 - 5 Verging on grey type fuel ash slag
86	P	2530	8 6694	9.8	1	5 - 5 Thick flow (over 15mm)
** Subtotal **				151.5	46	
** Ceramic Phase 6						
74	P	757	2 1373	73.0	8	6 - 6 Flows
87	P	2570	4 0	53.0	12	6 - 6 White LRP/FAS
85	P	2315	4 0	9.7	6	6 - 6
86	P	2541	0 7354	146.0	5	6 - 6 Grading to fuel ash slag
86	P	2541	3 7356	551.0	150	6 - 6 With some fuel ash slag
87	P	2570	1 0	12.7	1	6 - 6
** Subtotal **				845.4	182	
** Ceramic Phase 7						
71	P	79	4 0	5.7	1	7 - 7
72	P	205	1 1310	6.0	1	7 - 7 Flow probably from close to the tuyere
76	P	911	1 1645	25.5	3	7 - 7 Grey-green (Analysis ref S149)
80	P	1456	1 0	5.1	1	7 - 7 Small flow
80	P	1456	1 0	5.1	1	7 - 7 Small flow
80	P	1456	3 0	90.0	1	7 - 7 With Lining material detached from hearth wall
80	P	1456	3 0	56.0	1	7 - 7 With lining material detached from hearth wall
80	P	1456	3 0	106.0	6	7 - 7 Dark grey flows
80	P	1456	3 0	42.0	1	7 - 7 Relatively high density almost HD type 3 slag
** Subtotal **				341.4	16	
** Ceramic Phase 8						
74	P	701	1 1299	171.0	4	8 - 8
** Unstratified						
77	G	83	0 3107	58.0	20	0 - 0
69	L	+	0 1297	93.0	1	0 - 0 Large irregular piece

LINING REACTION PRODUCT SLAGS
by Ceramic Phase
(continued)

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
74	Ph 1361	1	1383	8.0	1	0 - 0	Verging on high density type with high vesicle content
80	Ph 6171	1	0	6.1	1	0 - 0	Fragment with dark surface colour
80	Ph 6951	1	4776	9.0	1	0 - 0	Well vitrified with dark surface colours
80	Ph 6954	1	0	26.3	3	0 - 0	Grading into grey green FAS
82	Ph 8326	3	0	21.0	3	0 - 0	
** Subtotal **				221.4	30		
*** Total ***							
Lining reaction product				1762.5	281		

DANEBURY SLAG Catalogue

FUEL ASH SLAG
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
** Ceramic Phase 1							
81	P 1832	4	4059	0.3	3	1 - 3	
** Ceramic Phase 3							
74	P 696	3	1345	1.0	1	3 - 3	Yellow to grey
74	P 722	1	1381	2.0	1	3 - 7	
76	P 923	3	1697	90.0	1	3 - 4	Large piece of fuel ash slag with flint inclusion
77	P 947	1	3100	4.0	2	3 - 5	
77	P 947	2	3101	15.0	10	3 - 5	Black type
77	P 942	3	3102	57.0	8	3 - 5	
77	P 1004	4	0	1.0	1	3 - 5	Green FAS (Analysis ref S151)
80	P 1545	6	3610	0.5	10	3 - 3	
81	P 1816	7	4051	0.2	2	3 - 3	
85	P 2460	1	0	0.5	2	3 - 3	
86	P 2515	4	6769	1.4	15	3 - 3	Fuel ash slag spheres
** Subtotal **				172.6	53		

DANEBURY SLAG Catalogue

FUEL ASH SLAG
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Phase Comment Range
** Ceramic Phase 4						
71	P	35	1 0	1.5	5	4 - 4 FAS plus fused soil and rock
71	P	51	4 0	2.0	1	4 - 4 Green/black colour
74	P	617	1 1400	15.0	3	4 - 5
74	P	617	2 1348	155.0	15	4 - 5 Large and small pieces of FAS/LRP type material
74	P	617	3 1372	29.0	20	4 - 5
74	P	646	3 1353	2.0	1	4 - 4 Black type
74	P	651	4 1365	7.0	1	4 - 5 FAS/Fused earth
74	P	688	3 1390	4.0	1	4 - 5 Grey type
74	P	695	1 1356	6.0	1	4 - 4 Grey FAS/lining Material
74	P	695	2 1362	10.0	3	4 - 4 One piece flat sub-tuyere type associated with black-s
74	P	695	3 1366	2.0	1	4 - 4 Grey
85	P	2477	4 0	52.0	3	4 - 4 Thick FAS/LRP product over 20 mm thick
86	P	2521	3 6878	24.0	3	4 - 4 Thick fuel ash slag and fused earth
** Subtotal **				309.5	58	
** Ceramic Phase 5						
77	P	950	1 3103	53.0	20	5 - 5
77	P	950	1 3104	4.0	1	5 - 5 White FAS with flint inclusions
80	P	1576	8 3621	0.6	20	5 - 5 FAS with a little Black Vitreous Material
80	P	1576	4 3618	0.3	2	5 - 5
80	P	1576	6 3619	1.1	15	5 - 5
81	P	1615	2 3699	0.2	3	5 - 5
77	L	374	0 3108	0.0	9	5 - 5 Black and white
** Subtotal **				59.2	70	
** Ceramic Phase 6						
85	F	252	1 6247	0.1	2	6 - 7
84	L	1150	0 5818	0.1	2	6 - 7
84	L	1206	0 5831	3.3	30	6 - 7 spheres
71	P	66	6 0	0.7	3	6 - 6
74	P	657	5 1398	3.0	1	6 - 6
74	P	657	7 1354	61.0	10	6 - 6 Some large fragments of grey FAS
74	P	741	2 1401	248.0	83	6 - 6 Fragmented
74	P	747	1 1396	3.0	1	6 - 6 Grey type
74	P	757	3 1387	1.0	1	6 - 6 Dark grey Drip of FAS/lining reaction product
76	P	910	1 1694	6.0	1	6 - 6 Green FAS
76	P	910	2 1628	30.7	1	6 - 6 Analysis S 154
76	P	910	3 1701	12.0	2	6 - 6 White FAS plus thin wall ceramic fragment
80	P	1455	9 0	0.2	2	6 - 7
81	P	1860	3 4062	1.1	20	6 - 7
86	P	2541	1 7355	10.5	5	6 - 6 FAS /lining reaction product
87	P	2570	9 0	0.5	1	6 - 6 Grey colour
** Subtotal **				381.2	165	

FUEL ASH SLAG
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
** Ceramic Phase 7							
84	G	272	0	5819	0.5	1	7 - 7	
84	L	1159	0	5819	0.5	1	7 - 7	
86	L	1529	0	6652	0.1	6	7 - 7	FAS and 2 pieces of bone
86	L	1567	0	6674	0.2	1	7 - 7	Dark coloured FAS
73	P	489	4	1321	3.0	1	7 - 7	Yellow grey
73	P	452	1	1328	10.0	3	7 - 7	
74	P	596	3	1371	1.0	1	7 - 7	
76	P	878	2	1699	5.0	1	7 - 7	Fuel ash or possibly fused pot or soil
77	P	994	1	3106	14.0	1	7 - 7	Black glassy
80	P	1452	5	3631	0.3	5	7 - 7	
80	P	1452	8	0	0.2	3	7 - 7	
80	P	1452	4	3630	1.3	2	7 - 7	FAS and lining reaction product
80	P	1452	6	3632	0.6	7	7 - 7	Sphe.
80	P	1456	5	3660	0.5	1	7 - 7	FAS and lining reaction product
80	P	1562	1	3769	0.1	5	7 - 7	FAS and bone
80	P	1562	4	3767	0.1	2	7 - 7	
80	P	1577	7	3647	8.8	50	7 - 7	FAS and lining reaction product
80	P	1577	6	3646	2.8	20	7 - 7	
80	P	1577	5	3645	1.2	22	7 - 7	FAS and fuel ash slag spheres
80	P	1577	8	3648	0.4	13	7 - 7	Fuel ash slag spheres
81	P	1793	1	4034	0.4	4	7 - 7	
81	P	1940	3	4103	0.1	1	7 - 7	FAS with fused soil
81	P	1940	2	4102	1.4	5	7 - 7	
83	P	2269	2	5245	0.0	1	7 - 7	Weight less than 0.1 g
84	P	2353	6	5861	0.1	3	7 - 7	
84	P	2366	0	5842	0.2	3	7 - 7	
84	P	2366	1	5838	2.9	4	7 - 7	
84	P	2366	4	0	0.2	4	7 - 7	
84	P	2366	2	5839	1.6	8	7 - 7	
85	P	2434	6	0	0.1	4	7 - 7	FAS formed from fused soil
85	P	2434	10	6268	0.4	2	7 - 7	
85	P	2434	4	6262	0.4	5	7 - 7	
85	P	2434	10	6268	0.8	5	7 - 7	
86	P	2534	12	6754	1.0	1	7 - 7	FAS/lining reaction product
** Subtotal **					60.2	196		
** Ceramic Phase 8								
73	P	475	4	1305	102.0	14	8 - 8	FAS plus lining material and reaction product
73	P	475	5	1311	4.0	1	8 - 8	Grey white
80	P	1411	1	3613	1.0	10	8 - 8	
80	P	1481	11	3653	0.7	4	8 - 8	
81	P	1727	8	4019	0.1	4	8 - 8	FAS and lining reaction product
81	P	1727	1	4013	0.7	8	8 - 8	
81	P	1727	6	4017	0.1	2	8 - 8	
81	P	1727	5	4016	0.1	1	8 - 8	
81	P	1900	1	4076	0.2	3	8 - 8	
81	P	1900	2	4077	0.1	1	8 - 8	
81	P	1900	5	4080	0.6	12	8 - 8	
81	P	1900	3	0	0.1	1	8 - 8	

FUEL ASH SLAG
by Ceramic Phase

YEAR	Context	Find No.	Weight g.	No.	Phase Range	Comment
Ceramic phase 8 continued						
81	P 1900	10 4085	1.0	15	8 - 8	Fuel ash slag spheres
83	P 2261	6 0	0.0	2	8 - 8	Weight less than 0.1
85	P 2435	5 6255	2.7	40	8 - 8	
85	P 2435	2 0	7.8	50	8 - 8	
85	P 2435	4 6254	0.1	2	8 - 8	
73	L 26	0 1312	6.0	1	8 - 8	Grey/yellow in colour up to 20 mm across
** Subtotal **						
			127.3	171		
** Unstratified						
80	L 627	0 3598	1.4	4	0 - 0	FAS and lining reaction product fragments
71	Ph 100	0 1294	5.0	3	0 - 0	
71	Ph 752	0 1335	3.0	1	0 - 0	Black FAS grading into grey/green
74	Ph 1559	1 1388	7.0	3	0 - 0	
76	Ph 2616	1 1698	16.0	2	0 - 0	Black Fuel ash slag with fused soil
78	Ph 3301	1 1893	31.0	3	0 - 0	
79	Ph 4570	1 4402	0.6	2	0 - 0	Small fragments of soft yellowish FAS
80	Ph 6954	2 4414	1.5	1	0 - 0	
81	Ph 7537	0 4123	0.2	1	0 - 0	
86	Ph 7668	1 3899	0.6	5	0 - 0	FAS /lining reaction product
81	Ph 7767	0 4135	0.1	1	0 - 0	
82	Ph 8097	1 0	4.1	30	0 - 0	
82	Ph 8135	1 0	0.2	2	0 - 0	
82	Ph 8326	1 0	21.6	50	0 - 0	FAS/lining reaction product + bone
82	Ph 8390	1 0	0.9	2	0 - 0	FAS/lining reaction product
82	Ph 8410	0 4172	6.8	40	0 - 0	Fuel ash slag spheres
84	Ph 8990	1 0	0.1	2	0 - 0	
74	P 697	3 1397	5.0	3	0 - 8	Grey type
** Subtotal **						
			105.1	155		
*** Total ***			1215.4	869		

Black Vitreous Material
by Ceramic Phase

YEAR	Context	Find No.	Weight g.	No.	Phase Range	Comment
** Ceramic Phase 3						
80	P 1545	6 3610	0.0	1	3 - 3	
85	P 2449	7 0	0.0	1	3 - 3	Weight 0.05g
** Subtotal **						
165			0.0	2		
** Ceramic Phase 4						
72	P 320	6 1302	21.0	20	4 - 4	Fragmented
80	P 1529	5 3720	0.1	1	4 - 4	
** Subtotal **						
152			21.1	21		

DANEBURY SLAG Catalogue

Black Vitreous Material
by Ceramic Phase

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
** Ceramic Phase 6							
84	L 1150	0	5818	0.0	1	6 - 7	Weight less than 0.1
83	P 2184	7	5216	0.3	1	6 - 6	
** Subtotal **							
167				0.3	2		
** Ceramic Phase 7							
87	L 1869	0	0	1.2	1	7 - 7	
72	P 354	7	1301	5.0	1	7 - 7	
74	P 672	2	1346	1.0	1	7 - 7	
80	P 1456	3	0	3.0	50	7 - 7	Crushed
81	P 1940	3	4149	2.5	50	7 - 7	
81	P 1940	3	4103	1.6	15	7 - 7	
81	P 1940	4	4104	0.4	4	7 - 7	
81	P 1940	6	4106	5.8	30	7 - 7	Crushed
81	P 1940	8	4107	4.0	3	7 - 7	
82	P 1981	6	0	7.3	20	7 - 7	
82	P 1982	7	0	2.1	8	7 - 7	
82	P 1982	7	0	6.6	4	7 - 7	From layers 7 & 8
82	P 1996	7	5162	35.0	100	7 - 7	
82	P 2047	9	0	0.5	4	7 - 7	
82	P 2066	3	0	3.1	50	7 - 7	Crushed
82	P 2163	4	0	0.5	1	7 - 7	
85	P 2320	10	0	0.3	3	7 - 7	Also one fragment of fuel ash
85	P 2320	10	6317	0.7	3	7 - 7	
85	P 2320	4	0	0.6	10	7 - 7	
84	P 2349	2	0	1.8	20	7 - 7	Also burnt bone
84	P 2353	4	5860	0.1	1	7 - 7	
85	P 2377	9	6300	0.0	1	7 - 7	Weight less than 0.1g
85	P 2434	8	0	0.1	2	7 - 7	
87	P 2579	4	0	1.6	1	7 - 7	Platey sample
87	P 2580	2	0	6.8	4	7 - 7	
86	P 2580	4	0	0.4	1	7 - 7	
** Subtotal **							
				92.0	388		

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
** Ceramic Phase 8							
80	P 1411	1	3616	0.5	1	8 - 8	
80	P 1481	6	3753	0.2	1	8 - 8	
80	P 1481	8	3650	0.1	1	8 - 8	
81	P 1687	7	3969	0.2	1	8 - 8	
83	P 2261	6	5242	1.8	20	8 - 8	
83	P 2261	7	5243	17.3	10	8 - 8	
85	P 2435	2	0	1.3	12	8 - 8	With possible wood marks
** Subtotal **							
				21.4	46		

DANEBURY SLAG Catalogue

Black Vitreous Material
by Ceramic Phase

Continued

YEAR	Context		Find No.		Weight g.	No.	Phase Range	Comment
** Unstratified								
85	F	219	2	6249	0.1	1	0 - 0	
87	L	1696	0	0	3.7	1	0 - 0	
79	Ph	4447	1	3529	3.7	1	0 - 0	
79	Ph	4634	1	3533	0.7	1	0 - 0	Fragment
80	Ph	6954	1	0	4.2	2	0 - 0	
81	Ph	7668	1	0	0.3	6	0 - 0	Also 1 fuel ash slag
81	Ph	7781	0	4139	1.3	8	0 - 0	
** Subtotal **					14.0	20		
*** Total ***					148.8	478		

DANEBURY SLAG Catalogue

LINING MATERIAL
by Ceramic Phase

YEAR	Context		Find No.		Weight g.	No.	Phase Range	Comment
** Ceramic Phase 1								
72	P	184	1	1304	7.0	1	1 - 3	
** Ceramic Phase 3								
71	P	76	6	1308	5.0	2	3 - 5	Poorly fired clay or soil
83	P	2294	0	0	7.6	1	3 - 3	Lining showing moderate vitrification
85	P	2459	4	0	7.5	1	3 - 3	Lining showing moderate vitrification
85	P	2459	4	0	7.4	1	3 - 3	Lining showing moderate vitrification
** Subtotal **					27.5	5		
** Ceramic Phase 4								
86	P	1117	5	0	5.8	1	4 - 4	Moderate degree of vitrification
79	P	1242	1	3589	2.3	1	4 - 4	Thin vitrified fragment
** Subtotal **					8.1	2		
** Ceramic Phase 5								
74	P	750	2	1580	17.0	1	5 - 5	Fired clay -or possibly roasted low quality iron ore
80	P	1576	3	0	15.3	1	5 - 5	Well vitrified clay with chalk & chert
** Subtotal **					32.3	2		

LINING MATERIAL
by Ceramic Phase

continued

YEAR	Context		Find No.	Weight g.	No.	Phase	Comment
** Ceramic Phase 6							
74	P	768	4 1394	53.0	1	6 - 6	Fired clay with high iron content possible poor quality
78	P	1113	1 1892	33.0	2	6 - 6	Merging to lining reaction product
86	P	2541	3 6783	3035.0	250	6 - 6	Highly heated and vitrified fragments
86	P	2541	2 6781	901.0	100	6 - 6	Highly heated & vitrified calcareous fragments
86	P	2541	2 6780	454.0	100	6 - 6	Large fragments
86	P	2541	2 6780	90.0	200	6 - 6	Medium sized fragments
86	P	2541	3 6782	53.0	50	6 - 6	Coarse fragments
86	P	2541	3 6782	249.0	100	6 - 6	Medium sized fragments
** Subtotal **				4868.0	803		
** Ceramic Phase 7							
71	P	48	6 1309	4.0	1	7 - 7	Earthy clay poorly fired
73	P	452	8 1337	21.0	1	7 - 7	Lightly burnt clay
80	P	1456	3 0	2.0	1	7 - 7	Fragment of thin vitrified hearth lining
80	P	1456	1 0	136.0	1	7 - 7	Well vitrified fragment 90 x 80 mm
80	P	1456	1 0	9.8	1	7 - 7	Well vitrified
80	P	1456	3 0	87.0	1	7 - 7	Lining frag with tuyere hole (32mm diameter)
80	P	1456	3 0	185.0	1	7 - 7	Lining with tuyere hole (25-30 mm diam)
80	P	1456	3 0	59.0	9	7 - 7	Fragments with varying degree of vitrification
80	P	1456	3 0	88.0	1	7 - 7	Heavily vitrified
** Subtotal **				591.8	17		
** Unstratified							
71	Ph	206	0 1336	5.0	1	0 - 0	Poorly sintered soil
74	P	375	1 1370	17.0	1	0 - 0	Black to bright red hearth lining
** Subtotal **				22.0	2		
*** Total ***				5556.7	730		

DANEBURY SLAG Catalogue

MISCELLANEOUS TYPES

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
86	L	1567 1567	0	0.6	1	7 - 7	Burnt soil (low fired) QO 898
86	L	1567 1567	6836	22.0	4	7 - 7	Burnt soil [KO801]
74	P	604 3	1355	3.0	1	8 - 8	Burnt soil (proto grey FAS)
79	P	1242 1	0	3.7	3	4 - 4	Low fired soil
87	P	2580 2	0	7.6	1	7 - 7	Burnt soil
79	Ph	4864 1	0	6.8	1	0 - 0	Fired soil with a little vitrification
79	Ph	5129 1	0	0.9	1	0 - 0	Fired soil
79	Ph	5308 1	0	20.0	1	0 - 0	Burnt clay
80	Ph	6931 1	0	2.5	1	0 - 0	Small fragment of fired grey soil with chert
80	Ph	6954 2	0	37.7	1	0 - 0	Fired soil
80	Ph	6954 2	0	28.1	2	0 - 0	Rim fragment of large crucible (overfired)
81	P	1822 1	4635	5.3	1	6 - 6	Vitrified ceramic/possibly crucible
74	P	706 2	1389	63.0	1	3 - 3	A sample showing a mixture of crystals of high nickel iron (8-30 percent nickel), FeS, Magnesium iron silicate, and Chromite. Most probably a fragment of meteorite.
88	L	1997 1997	0	9.0	1	4 - 4	Rock asphalt composite (Tarmac).
*** Total ***				200.2	20		
GRAND TOTAL ALL SLAG				14204.6	2630		

IRONSTONE CATALOGUE

INTRODUCTION

This catalogue gives a complex list of all the ironstone nodules recovered during the Danebury excavations 1969 to 1988. There are three main type of material that are listed here, Iron sulphide nodules, 'limonitic' ironstone nodules of a type typical of the tertiary beds overlying the Chalk, and an ochre type ironstone of a yellow colour.

The iron sulphide nodules which initially were either marcasite or iron pyrite, had almost all had been naturally converted to iron oxides by the weathering processes occurring within the soil. A few of the iron pyrite nodules were still virtually unconverted, but this was rare. Some of these nodules appeared to have been roasted. It is not clear, however, whether this occurred as a result of a deliberate roasting process or it was the result of accidental heating.

The tertiary type nodules, of a red-brown colour, often had worn surfaces (unlike the sulphide nodules which were only slightly abraded if at all). This indicates that they had been eroded out of the tertiary deposits and abraded by running water. It is not clear whether they were deposited at Danebury as a result of natural weathering and transport processes or through the activity of man.

Most of the ochre ironstone nodules occurred as fossils, mainly sponges and corals, or as irregular rod forms which could be fossil burrows. Clearly, these formed by iron oxides precipitating in fossil cavities in the chalk and have subsequently been exposed by the erosion of the chalk. It is unlikely that these nodules were collected for any 'industrial' purpose. However, like the oxidised iron sulphide and the tertiary ironstone these ochres could have been used as a colorant as well as an iron ore.

DANEBURY IRONSTONE CATALOGUE
Main List by type in Context order
Continued

** Non-Ironstone material

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
87	L 1819	0	0	0.5	1	0 - 0	Shale
79	Ph 4697	1	3535	12.5	1	0 - 0	Heated Rock (not chalk!!!)
74	P 676	3	1369	46.0	1	6 - 6	Natural flint conglomerate
70	F 12	54	1303	59.0	1	3 - 3	Fossil sponge
** Subtotal **				118.0	4		

** Ironstone type H

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
81	P 1900	1	0	32.0	1	8 - 8	Black material (ironstone haematite)
** Subtotal **				32.0	1		

** Ochre type Ironstone

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
85	L 1448	0	6441	90.0	5	4 - 4	
86	L 1601	0	0	15.0	1	0 - 0	
86	L 1613	0	0	21.0	2	6 - 6	
86	L 1636	0	0	1.0	1	3 - 3	
87	L 1684	0	0	26.0	1	0 - 0	bog-ore type concretion
74	P 626	1	1351	9.0	1	3 - 5	
74	P 628	1	1395	33.0	1	7 - 7	Sponge fossil
74	P 641	5	1367	4.0	1	6 - 6	
74	P 665	9	1384	41.0	1	6 - 6	
74	P 675	3	1333	58.0	1	7 - 7	May be an oxidised iron sulphide Nodule
74	P 694	1	1368	100.0	1	3 - 5	Rugose Coral
74	P 740	1	1385	25.0	1	1 - 3	Fossil sponge
74	P 753	2	1391	84.0	1	7 - 7	
80	P 1452	10	0	76.0	1	7 - 7	Fossil sponge
85	P 2372	3	0	64.0	1	3 - 3	
85	P 2423	1	0	33.0	1	3 - 3	Ochre fossil
86	P 2493	2	6856	22.0	1	4 - 4	
86	P 2521	3	7350	6.6	2	4 - 4	
86	P 2562	6	0	19.0	1	6 - 6	
87	P 2572	1	0	139.0	1	7 - 7	Layered O type with thin goethite coating
87	P 2583	6	0	29.0	1	5 - 5	
** Subtotal **				895.6	24		

** Sulphide type Ironstone

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
84	+ 0	0	0	35.0	2	0 - 0	
86	+ 0	0	0	744.0	2	0 - 0	
88	F 157	1	0	14.0	1	1 - 3	
87	F 306	1813	0	18.0	1	4 - 4	
87	F 327	1	0	17.0	1	3 - 3	
88	F 351	1	0	6.0	1	3 - 3	
88	F 350	2	0	261.0	2	0 - 0	
87	G 316	1	0	48.0	1	7 - 7	
88	G 334	1	0	11.0	1	4 - 4	
84	G 1050	0	0	27.0	1	0 - 0	
79	L 600	0	3537	43.0	1	6 - 7	
79	L 600	0	3537	113.0	1	6 - 7	
82	L 773	0	0	209.0	1	5 - 5	
84	L 1160	0	0	44.0	1	6 - 6	
85	L 1394	0	0	42.0	1	7 - 7	
86	L 1505	0	0	86.0	1	7 - 7	
86	L 1507	0	0	26.0	6	7 - 7	
86	L [illegible]	0	0	64.0	1	5 - 5	
86	L 1567	0	6835	28.0	1	7 - 7	
86	L 1567	0	6833	230.0	1	7 - 7	
86	L 1573	0	6825	5.0	1	7 - 7	

DANEBURY IRONSTONE CATALOGUE
Main List by type in Context order
Continued

Sulphide type ironstone continued

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
86	L 1583	0	0	3.0	1	7 - 7	
86	L 1583	0	0	12.0	1	7 - 7	
86	L 1628	0	0	94.0	1	0 - 0	
86	L 1635	0	0	3.0	1	3 - 3	
86	L 1635	0	0	57.0	3	3 - 3	
87	L 1644	0	0	29.0	1	5 - 5	
87	L 1673	0	0	40.0	1	3 - 3	
86	L 1711	0	0	144.0	1	0 - 0	
87	L 1756	0	0	5.0	1	0 - 0	
87	L 1763	0	0	12.0	1	4 - 4	
87	L 1812	0	0	98.0	2	0 - 0	
87	L 1819	0	0	5.0	1	0 - 0	
87	L 1821	0	0	57.0	2	0 - 0	
88	L 1993	0	0	51.0	2	3 - 3	
88	L 1997	0	0	59.0	2	4 - 4	
88	L 1999	0	0	41.0	1	7 - 7	
88	L 1999	0	0	12.0	1	7 - 7	
88	L 2005	0	0	30.0	1	3 - 3	
88	L 2005	0	0	143.0	1	3 - 3	
88	L 2016	0	0	17.0	1	4 - 4	
88	L 2041	0	0	47.0	1	0 - 0	
88	L 2045	0	0	53.0	1	6 - 6	
88	L 2047	0	0	14.0	1	4 - 4	
88	L 2052	0	0	58.0	1	1 - 3	
88	L 2057	0	0	62.0	1	3 - 3	
88	L 2061	0	0	34.0	1	6 - 6	
88	L 2092	0	0	14.0	1	3 - 3	
74	P 23	8	1375	93.0	1	7 - 7	Partially roasted
71	P 66	6	1326	9.0	1	6 - 6	
71	P 83	3	1313	19.0	1	3 - 3	Converting to sulphate
71	P 92	5	1342	174.0	2	7 - 7	Roasted to Haematite
71	P 102	4	1341	105.0	1	7 - 7	Also fossil sponge
73	P 440	1	1318	28.0	4	3 - 5	
74	P 574	0	1315	27.0	1	4 - 4	Heated ? (haematite)
74	P 574	4	1349	64.0	1	4 - 4	
74	P 575	3	1298	618.0	1	4 - 4	Converting to sulphate
74	P 624	2	1330	19.0	1	7 - 7	
74	P 640	2	1382	40.0	3	6 - 6	
74	P 640	3	1399	139.0	1	6 - 6	
74	P 651	6	1364	7.0	1	4 - 5	
74	P 658	4	1317	56.0	2	6 - 6	
74	P 665	2	1331	115.0	1	6 - 6	Surface oxidization only
74	P 672	1	1357	17.0	1	7 - 7	
74	P 741	2	1401	114.0	1	6 - 6	
86	P 1114	4	0	19.0	1	6 - 6	
86	P 1114	6	0	103.0	1	6 - 6	
86	P 1117	5	6850	28.0	1	4 - 4	
79	P 1219	3	3538	84.0	1	3 - 3	
79	P 1224	8	0	48.7	1	7 - 7	Heated and Magnetic
88	P 1350	10	0	26.0	1	7 - 7	
88	P 1350	5	0	35.0	1	7 - 7	
88	P 1350	8	0	65.0	1	7 - 7	
79	P 1393	2	3539	56.0	1	4 - 4	
80	P 1452	0	5723	69.0	1	7 - 7	
80	P 1456	3	0	214.0	1	7 - 7	
80	P 1617	1	0	59.0	1	6 - 7	
81	P 1759	3	4611	35.0	1	6 - 6	
82	P 1981	6	0	46.0	1	7 - 7	
82	P 1990	5	0	86.0	1	7 - 7	
82	P 2089	6	0	17.0	1	7 - 7	
82	P 2108	3	0	51.0	1	8 - 8	
82	P 2109	2	0	23.0	1	7 - 7	
82	P 2110	1	0	22.0	1	8 - 8	
82	P 2159	4	0	386.0	1	5 - 5	
83	P 2211	1	0	192.0	2	1 - 3	
83	P 2223	2	5493	123.0	15	7 - 7	
84	P 2345	4	0	61.0	1	6 - 6	
84	P 2345	1	0	6.0	1	6 - 6	
84	P 2384	3	0	8.0	1	6 - 7	

DANEBURY IRONSTONE CATALOGUE
Main List by type in Context order
Continued

** Sulphide type continued

YEAR	Context			Find No.	Weight g.	No.	Phase Range	Comment
84	P	2398	1	0	56.0	1	0 - 0	
85	P	2425	2	0	47.0	1	7 - 7	Heated
85	P	2436	1	6378	27.0	1	7 - 7	
85	P	2446	1	0	121.0	1	5 - 5	
86	P	2456	5	0	284.0	1	3 - 3	
86	P	2494	2	0	116.0	1	5 - 5	
86	P	2497	1	0	146.0	1	4 - 4	
87	P	2509	2	0	39.0	1	0 - 0	
86	P	2546	1	7351	3.8	1	5 - 5	
86	P	2547	5	0	21.0	1	7 - 7	
86	P	2557	4	0	39.0	1	3 - 3	
86	P	2562	2	0	5.0	1	6 - 6	
87	P	2567	5	0	47.0	1	3 - 3	
87	P	2573	2	0	43.0	1	7 - 7	
87	P	2573	3	0	37.0	1	7 - 7	
87	P	2579	2	0	19.0	1	7 - 7	
88	P	2590	9	0	44.0	2	7 - 7	
88	P	2598	2	0	51.0	1	6 - 6	
88	P	2606	0	0	20.0	1	3 - 3	
88	P	2610	1	0	30.0	1	6 - 6	
79	Ph	3805	1	3536	1846.0	1	0 - 0	
79	Ph	4864	1	4409	7.5	1	0 - 0	
80	Ph	5667	1	0	60.0	1	0 - 0	
84	Ph	9018	4	0	63.0	1	0 - 0	
85	Ph	9463	1	0	55.0	1	0 - 0	
87	Ph	9939	2	0	164.0	10	0 - 0	
88	Ph	10045	3	0	409.0	1	1 - 3	
87	TR	102	1716	0	83.0	1	0 - 0	
87	TR	103	0	0	124.0	4	0 - 0	
87	TR	103	1762	0	38.0	2	0 - 0	
87	TR	103	1770	0	23.0	1	0 - 0	
87	TR	103	0	0	21.0	1	0 - 0	
87	TR	105	1808	0	274.0	1	0 - 0	
87	TR	105	1807	0	211.0	2	0 - 0	
87	TR	105	1807	0	172.0	4	0 - 0	
87	TR	106	1814	0	128.0	3	0 - 0	
87	TR	107	1810	0	127.0	4	0 - 0	
87	TR	108	1805	0	60.0	3	0 - 0	
87	TR	114	1829	0	69.0	1	0 - 0	
87	TR	115	1831	0	49.0	2	0 - 0	
87	TR	116	1842	0	31.0	1	0 - 0	
87	TR	117	1836	0	73.0	2	0 - 0	
87	TR	118	1838	0	10.0	1	0 - 0	
87	TR	121	1783	0	33.0	1	0 - 0	
88	TR	122	0	0	410.0	1	0 - 0	
88	TR	122	1878	0	22.0	2	0 - 0	
81	L	0	0	0	1269.0	35	0 - 0	Various fragments 1 heated
** Subtotal **					13799	232		

** Tertiary type Ironstone

YEAR	Context			Find No.	Weight g.	No.	Phase Range	Comment
87	+	0	0	0	51.0	1	0 - 0	
88	F	78	1	0	9.0	1	0 - 0	
83	F	131	0	934	45.0	1	0 - 0	
84	G	268	1	0	3.0	1	4 - 4	
80	L	687	0	0	72.0	3	3 - 3	With sulphide nodules
82	L	782	0	0	34.0	1	0 - 0	
82	L	785	0	0	189.0	2	3 - 3	
83	L	947	0	6643	57.0	1	3 - 3	
84	L	1206	0	0	9.0	1	6 - 7	
84	L	1216	0	0	23.0	1	7 - 7	
85	L	1383	0	0	20.0	1	6 - 6	
85	L	1402	0	0	18.0	1	3 - 3	
86	L	1629	0	6975	46.0	2	3 - 3	
88	L	1997	0	0	12.0	1	4 - 4	
88	L	2039	0	0	21.0	1	3 - 3	

DANEBURY IRONSTONE CATALOGUE
Main List by type in Context order
Continued

** Tertiary type Ironstone Continued

YEAR	Context		Find No.	Weight g.	No.	Phase Range	Comment
88	L 2092	0	0	139.0	2	3 - 3	
74	P 670	2	1347	78.0	2	4 - 4	
74	P 703	2	1393	108.0	0	6 - 7	
74	P 708	1	1377	134.0	1	0 - 0	
74	P 712	5	1358	60.0	1	3 - 4	Replacing sponge
82	P 1982	7	0	1.2	1	7 - 7	
82	P 2159	4	0	353.0	1	5 - 5	Large worn fragment of low quality ironstone
83	P 2215	2	0	45.0	2	3 - 3	
83	P 2274	4	0	9.0	1	7 - 7	
84	P 2346	5	0	35.0	1	8 - 8	
84	P 2355	5	5898	1.2	1	7 - 7	
84	P 2359	3	6119	38.0	1	8 - 8	
85	P 2367	1	0	21.0	1	3 - 3	
85	P 2435	6	0	272.0	1	8 - 8	
86	P 2534	12	6754	6.3	1	7 - 7	
86	P 2550	4	0	77.0	2	7 - 7	
86	P 2561	1	0	59.0	1	6 - 6	
71	Ph 854	0	1338	103.0	1	0 - 0	Very Worn fragment
79	Ph 4142	2	3531	18.8	1	0 - 0	
79	Ph 4271	1	3534	8.3	1	0 - 0	
80	Ph 6639	2	5801	106.0	1	0 - 0	
88	Ph10027	1	0	9.0	1	0 - 0	
** Subtotal **							
2989				2187.8	43		
*** Total ***							
****				17135	308		

DANEBURY IRONSTONE CATALOGUE
Summary

** Heamatite

	Weight	Number
Ceramic phase 8	32.0	1

Ochre Type Ironstone

	weight	Number
** Ceramic Phase 0	41.0	2
** Ceramic Phase 1	25.0	1
** Ceramic Phase 3	207.0	4
** Ceramic Phase 4	118.6	8
** Ceramic Phase 5	29.0	1
** Ceramic Phase 6	85.0	4
** Ceramic Phase 7	390.0	4
Sub-total	895.6	24

Sulphide Type

	weight	Number
** Ceramic Phase 0	7034.5	104
** Ceramic Phase 1	673.0	5
** Ceramic Phase 3	944.0	22
** Ceramic Phase 4	1077.0	14
** Ceramic Phase 5	928.8	7
** Ceramic Phase 6	1137.0	23
** Ceramic Phase 7	1931.7	55
** Ceramic Phase 8	73.0	2
Sub-total	13808.0	232

Tertiary Type

	weight	Number
** Ceramic Phase 0	415.1	9
** Ceramic Phase 3	668.0	16
** Ceramic Phase 4	93.0	4
** Ceramic Phase 5	353.0	1
** Ceramic Phase 6	196.0	3
** Ceramic Phase 7	117.7	7
** Ceramic Phase 8	345.0	3
Sub-total	2187.8	43

Natural rock

** Ceramic phase 0	116.0	2
** Ceramic phase 3	59.0	1
** Ceramic phase 6	46.0	1
Sub-total	221.0	4
*** Total ***	17135	305

SLAG AND IRONSTONE SAMPLED
(DAS LIST in context order)

Context	layer	Small Find	DAS No	Description
	0	0	84	Danebury sulphide nodule unstratified
F 12	49	1320	60	Forging slag of a rather thick type (3mm)
F 81	0	0	69	Slag
L +	0	1297	59	Large irregular piece
L 592	592	0	46	Fragments of thin planar type 3 HD slag
L 785	785	0	23	Tertiary Ironstone
L 1678	1678	0	56	Fragmented slag
L 1997	1997	0	36	Tarmac (previously called Fused soil)
P 55	0	0	64	Danebury slag from pit 55
P 79	0	0	63	Danebury slag From pit 79
P 79	0	0	71	Slag
P 83	3	1313	83	Slag
P 92	5	1342	82	Iron Sulphide ironstone
P 92	5	1342	87	Iron sulphide nodule roasted to Haematite
P 107	3	1339	85	Thick slag bun of dense slag with few vesicles
P 116	0	0	65	Fragment of high density slag
P 166	6	1374	62	Fragments, one of which is semi-reduced iron ore
P 206	0	0	70	Slag
P 389	3	1344	61	Forging FAS type slag
P 574	0	0	68	Ironstone
P 632	7	0	73	Slag
P 652	3	0	74	Slag
P 658	4	0	72	Slag
P 665	2	0	67	Slag
P 665	2	1331	86	Iron sulphide nodule (surface oxidization only)
P 701	0	0	66	Danebury from pit 701 1 74
P 706	2	1389	58	Possible fragment of iron (magnetic)
P 878	5	1631	80	Slag
P 885	3	1621	76	Slag
P 910	2	1628	81	Slag
P 911	1	1645	75	Slag
P 923	3	1633	78	Slag
P 923	3	1633	79	Slag
P 1004	4	0	77	Slag
P 1224	8	0	18	Magnetic rusty material burnt iron sulphide
P 1224	8	0	19	Magnetic rusty material burnt iron sulphide
P 1224	8	0	29	Magnetic rusty material burnt iron sulphide
P 1242	1	0	37	Slag/iron with hammer scale on surface
P 1242	1	0	45	High density slag
P 1242	1	0	52	Fragment of large type 4/type 5 HD Slag
P 1242	1	0	53	Small drip type flow (HD)
P 1452	6	0	4	Fuel ash slag spheres
P 1456	3	0	2	Flows of LRP generally of grey colour
P 1456	3	0	38	Type 4/5 HD slag
P 1456	3	0	40	Lining reaction product tending to HD 3
P 1456	1	0	41	Well vitrified lining material 90 x 80 mm
P 1456	3	0	42	Mainly lining material detached from hearth wall
P 1456	3	0	48	Fragment of sub-tuyere flow type 3/4 69x37x20t
P 1456	3	0	49	Fragment of fairly flat type 4 71w 31l 16t

Context	layer	Small Find	DAS No	Description
P 1456	3	0	50	Fragment probably of type 4 with overflow of LRP
P 1456	3	0	51	Flows of LRP generally dark grey in colour
P 1479	2	0	44	Fragments of HD lying directly on lining
P 1530	2	0	47	Small planar flow
P 1549	5	0	54	Fragment of flow with chert inclusions /LRP
P 1576	6	0	8	Fuel ash slag
P 1576	8	0	9	Fuel ash slag with a little BVH
P 1577	5	0	3	Fuel ash slag and fuel ash slag spheres
P 1727	1	0	6	Fuel ash slag
P 1900	1	0	26	Black material (ironstone haematite)
P 1900	5	0	30	Fuel ash slag
P 1940	3	0	14	Black vitreous material
P 1981	6	0	13	Black vitreous material
P 1982	7	0	12	Black vitreous material (layers 7 & 8)
P 2032	5	0	55	Small flow Type 2 55lx38x15
P 2320	10	0	15	Black material
P 2435	5	0	5	Fuel ash slag and spheres
P 2459	4	0	43	Lining material moderate vitrification
P 2513	2	0	25	White lining reaction product /FAS
P 2513	2	0	33	White lining reaction product /FAS
P 2513	6	0	94	Lining reaction product FAS of grey type
P 2515	4	0	7	Fuel ash slag spheres
P 2541	3	0	10	Lining reaction product and fuel ash slag
P 2541	3	0	11	Lining reaction product and fuel ash slag
P 2541	3	0	16	Medium sized fragments of LH
P 2541	3	0	17	Medium sized fragments of LH
P 2541	2	0	24	Large sized fragments of LH type material
P 2541	3	0	27	Lining material highly heated and vitrified
P 2541	1	0	35	Fuel ash slag /lining reaction product
P 2541	3	0	39	Lining reaction product and fuel ash slag
P 2570	1	0	31	Lining reaction product
P 2570	4	0	32	White LRP/FAS
P 2580	2	0	22	Black vitreous material
Ph 854	0	1338	57	Worn fragment of ironstone (not local type)
Ph 4271	1	0	28	Ironstone?/crucible?/??
Ph 4447	1	0	20	Less heavily fired with flat surface (Crucible)
Ph 4697	1	0	21	Heated Rock (not chalk!!!)
Ph 6954	1	0	1	Black vitreous FAS type material

Bird bone measurements

by Dale Serjeantson

Measurements after von den Driesch, A. 1976: A guide to the Measurement of Animal Bones from Archaeological Sites (Peabody Museum Bulletin 1, Harvard University).

Early period

Cp	Context no	Taxon	
			Coracoid Lm
3	Layer 2082	Anas Penelope/Strepera	460
			Humerus GL
3	Ph 9620 layer 1	Turdus Merula/Torquatus	295

Middle period

Cp	Context no	Taxon			
			Humerus		
			GL	Bp	Bd
5	P2587 layer 5	Corvus Corax	946	220	220
4/5	Ph 10101 layer 1	Corvus Corax	925	220	220
4/5	Ph 10101 layer 1	Corvus Corax	927	219	219
5	P2530 layer 5	Corvus Corone/Frugileaus	643	242	242
			Ulna		
			GL	Bp	Did
5	P2530 layer 5	Corvus Corone/Frugileaus	794	97	82
5	P2587 layer 5	Corvus Corax	1142	90	116
4/5	Ph 10101 layer 1	Corvus Corax	1121	136	113
4/5	Ph 10101 layer 1	Corvus Corax	1115	136	111
			Carpometacarpus		
			GL		
5	P2587 layer 5	Corvus Corax	706		
4/5	Ph 10101 layer 1	Corvus Corax	690		
4/5	Ph 10101 layer 1	Corvus Corax	690		
5	P2530 layer 6	Corvus Corone/Frugileaus	465		
5	P2530 layer 8	Corvus Corone/Frugileaus	476		
			Femur		
			GL	Bp	Bd
5	P2609 layer 5	Corvus Corax	650	142	140
5	P2609 layer 5	Corvus Corax	650	143	138
5	P2530 layer 5	Corvus Corone/Frugileaus	486	97	104
5	P2530 layer 5	Corvus Corone/Frugileaus	483	98	104
			Tibiotarsus		
			GL	Dip	Bd
5	P2609 layer 5	Corvus Corax	1075	178	120
5	P2609 layer 5	Corvus Corax	1076	180	0
5	P2530 layer 5	Corvus Corone/Frugileaus	854	93	86
			Tarsometatarsus		
			GL	Bp	Bd
5	P2530 layer 1	Anas Platyrhynchos	434	94	91
5	P2609 layer 5	Corvus Corax	650	130	90
5	P2530 layer 5	Corvus Corone/Frugileaus	552	93	70

Late period

Cp	Context no	Taxon			
			Coracoid		
			Lm	Bb	
7	P1789 layer 3	Anas Acuta/Strepera	492	200	
			Humerus		
			GL	Bp	Bd
6	P2183 layer 6	Corvus Corax	920	260	192
7/8	P1481 layer 11	Corvus Corone/Frugilegus	687	192	168
7	P2286 layer 5	Corvus Corax	880	270	207
6	P2030 layer 4	Corvus Corax	919	251	210
7	P2568 layer 3	Corvus Corax	904	0	209
7	P2568 layer 3	Corvus Corax	901	238	207
6	P2148 layer 2	Branta Leucopsis	0	317	0
7	Layer 1663	Anas Platyrhynchos	0	224	0
7	P2345 layer 1	Anas Platyrhynchos	0	0	151
7	P2535 layer 2	Turdus Merula/Torquatus	306	0	0
			Ulna		
			GL	Bp	Did
7	Layer 1512	Anas Clypeata/Penelope	654	0	0
7/8	P2115 layer 3	Anas Platyrhynchos	803	103	92
7	P1333 layer 10	Anas Platyrhynchos	796	99	89
6	P2183 layer 6	Corvus Corax	1096	140	115
6	P2183 layer 6	Corvus Corax	1082	139	114
6	P1979 layer 9	Corvus Corax	1081	135	109
7	P2359 layer 3	Corvus Corax	1124	134	111
7	P2286 layer 5	Corvus Corax	1073	138	114
6	P2030 layer 4	Corvus Corax	1111	0	118
6	P2030 layer 4	Corvus Corax	1109	140	115
7	P2568 layer 3	Corvus Corax	1072	143	112
7	P2568 layer 3	Corvus Corax	1081	139	110
6	P2578 layer 5	Corvus Corax	1061	138	119
7/8	P1481 layer 11	Corvus Corone/Frugilegus	826	110	90
7/8	P1481 layer 11	Corvus Corone/Frugilegus	828	110	90
			Carpometacarpus		
			GL	Bp	Did
7	P2366 layer 2	Anas Platyrhynchos	560	0	0
7	G316 layer 1	Anas sp	536	0	0
7	P2345 layer 1	Aythya Fuligula	416	0	0
6	P2183 layer 6	Corvus Corax	685	0	0
7	P2478 layer 2	Corvus Corax	626	0	0
7	Layer 1946	Corvus Corax	669	0	0
7	P2223 layer 2	Corvus Corax	680	0	0
7	P2286 layer 5	Corvus Corax	653	0	0
6	P2030 layer 4	Corvus Corax	677	0	0
6	P2030 layer 4	Corvus Corax	680	0	0
7	P2568 layer 3	Corvus Corax	668	0	0
6	P2578 layer 5	Corvus Corax	650	0	0
7/8	P1481 layer 11	Corvus Corone/Frugilegus	511	0	0
7/8	P1481 layer 11	Corvus Corone/Frugilegus	510	0	0
7/8	P1481 layer 9	Corvus Corone/Frugilegus	401	0	0

Late period (cont)

Cp	Context no	Taxon	Femur GL	Bp	Bd
7	Layer 1955	Corvus Corax	645	0	0
7	P2258 layer 5	Corvus Corax	646	141	144
7	P2448 layer 4	Corvus Corax	660	142	140
7	P2286 layer 5	Corvus Corax	636	135	139
6	P2030 layer 4	Corvus Corax	672	146	146
6	P2030 layer 4	Corvus Corax	669	144	145
7/8	P1481 layer 11	Corvus Corone/Frugilegus	539	109	111
7	P2223 layer 2	Corvus Corone/Frugilegus	508	105	110
7	P2223 layer 2	Corvus Corone/Frugilegus	506	102	108
			Tibiotarsus GL	Dip	Bd
7	P2567 layer 2	Anas Platyrhynchos	0	0	90
7	P2256 layer 10	Anser Anser/Fabalis	0	0	155
7	P2566 layer 1	Corvus Corax	1090	136	116
7	P2286 layer 5	Corvus Corax	1080	131	115
6	P2030 layer 4	Corvus Corax	1121	139	123
6	P2030 layer 4	Corvus Corax	1123	140	124
7/8	P1481 layer 9	Corvus Corone/Frugilegus	890	110	94
7	Layer 835	Gallus Gallus	0	0	113
			Tarsometatarsus GL	Bp	Bd
6	P2183 layer 6	Corvus Corax	683	133	0
6	Layer 1956	Corvus Corax	650	123	90
7	P2286 layer 5	Corvus Corax	641	120	0
6	P2030 layer 4	Corvus Corax	669	139	92
6	P2030 layer 4	Corvus Corax	666	140	91

Index

8 Population and behaviour

8.1 The deposition of the human remains

Index 1 Deposition numbers, with deposition category, feature number and ceramic phase 31:A3-5

Index 2 Feature with human remains listed numerically, with deposition numbers, categories and ceramic phase of feature 31:A6-8

Index 3 Features containing human remains listed numerically with ceramic phases 31:A9-11

Index 4 The gender and age of depositions divided into categories A-F and listed chronologically according to the ceramic phase 31:B1-4

Descriptions and illustrations of human remains by context 31:B5-F9

Index 1 Deposition numbers, with deposition category, feature number and ceramic phase.

Deposition Number	Category	Feature no.	cp
183	F	P1161	7
184	D	P1172	4
185	E	P1192	6
186	F	P1224	7
187	F	P1245	3
188	F	P1255	3
189	F	P1285	7
190	D	P1346	3
191	D/F	ph 4382	3
192	D	ph 4383	6
193	E	ph 4737	3
194	D	P1455	7
195	D	P1463	3
196	D/F	P1530	7/8
197	F	P1543	7/8
198	D	P1545	4+
199	C	P1545	4+
200	D/F	P1579	7
201	E	ph 5802	-
202	F	ph 5803	3
203	F	ph 6756	-
204	A	ph 6768	-
205	B	ph 6383	-
206	D	ph 7035	3
207	F	P1697	3
208	D	P1698	7
209	D/F	P1792	7
210	A	P1822	6
211	D	P1913	5
212	D	P103	3
213	F	P1876	3
214	B	P1993	7
215	D	P2030	6
216	F	P2030	6
217	A	P2100	3
218	B	P2115	7
219	A	P2155	7
220	F	P1992	7
221	C	P2183	6
222	A	P2218	5
223	A	P2223	7
224	C	layer 1743	3
225	F	P2254	7
226	F	P2261	7/8
227	D	P2269	7
228	F	P2270	7
229	F	P2271	7

Deposition Number	Category	Feature no.	cp
230	F	layer 836	6
231	F	ph 8988	-
232	F	layer 1050	6
233	F	layer 1051	6
234	F	layer 1061	6
235	F	layer 1100	3
236	F	layer 1153	7
237	F	layers 1160, 1156	6
238	F	layer 1174	7
239	B	P2447	7
240	A	P2462	5
241	A	P1114	6
242	C	P2496	7
243	D	P2498	4
244	D/F	P2504	6
245	C	P2509	3
246	F	P2035	7
247	F	P2097	7
248	A	P2100	3
249	F	P2401	7
250	D	P2346	8
251	D	P2383	7
252	A	P2566	7
253	F	layer 1912	3
254	F	layer 1742	4
255	F	layer 1737	3
256	F	P2576	7
257	F	layer 1748	3
258	F	P2578	6-7
259	A	P2605	7
260	D/F	P2590	7
261	A	ph 10010	3
262	D/F	layer 1997/2031	4
263	D/F	P2606	7
264	F	layer 2039	5
265	F	layer 2045	6
266	F	P2391	7
267	D	layer 719	6/7
268	F	layer 716	7
269	F	layer 722	7
270	F	layer 743	6/7
271	D	layer 758	3
272	F	layer 857	7
273	F	ph 8107	-
274	F	P2041	6
275	F	P2044	6
276	F	P2121	7
277	F	P2139	7
278	A	P2145	7
279	D	P2159	5
280	F	P2163	7
281	F	layer 1355	7

Deposition Number	Category	Feature no.	cp
282	F	layer 1369	7
283	F	P2589	7
284	D	P2612	7
285	F	layer 1500	3
286	D	G305	7
287	F	layer 1686	5
288	F	layer 1734	5
289	D	Layer 1949	7
290	D	layer 1951	7
291	D	layer 2005	5
292	D	P1137	7
293	F	P2367	7
294	F	P2497	7
295	F	Tr 123, layer 2 (F360)	-
296	D	P2513	5
297	D	P2531	6
298	F	P2545	7
299	D	P2576	7
300	F	P2510	5
301	D/F	P2030	6

Index 2 Feature with human remains listed numerically, with deposition numbers, categories and ceramic phase of feature.

Feature	layer	deposition number	deposition category	ceramic phase
P1114	5	241	A	6
P1137	+	292	D	7
P1161	1	183	E	5
P1172	1	184	D	4
P1192	1	185	E	6
P1224	5	186	E	7
P1245	1	187	F	3
P1255	1	188	F	3
P1285	7 and 8	189	B	7
P1346	3	190	D	3
P1455	1	194	D	7
P1463	1	195	D	3
P1530	3 and 4	196	D/E	7/8
P1543	1	197	E	7/8
P1545	1	198	D	4+
P1545	3, 4 and 5	199	C	4+
P1579	3	200	D/F	7
P1697	3	207	E	3
P1698	8 and 9	208	D	7
P1792	5	209	D/F	7
P1822	1 and 2	210	A	6
P1876	5	213	F	3
P1913	2	211	D	5
P1992	4	220	F	7
P1993	5 and 6	214	B	7
P2030	2, 3, 4 and 5	215	D	6
P2030	2, 3 and 4	301	D/E	6
P2030	3	216	F	6
P2035	8	246	F	7
P2041	1	274	F	6
P2044	2	275	F	6
P2097	4	247	F	7
P2100	2	217	A	3
P2100	2	217/248	A	3
P2115	6	218	B	7
P2121	2	276	F	7
P2139	1	277	F	7
P2145	1, 2 and 3	278	A	7
P2155	2	219	A	7
P2159	4	279	D	5
P2163	4	280	E	7
P2183	6	221	C	6
P2218	2	222	A	5
P2223	3	223	A	7
P2254	8	225	F	7

Feature	layer	deposition number	deposition category	ceramic phase
P2261	6	226	F	7/8
P2269	1	227	D	7
P2270	1	228	F	7
P2271	1	229	F	7
P2346	7	250	D	8
P2367	1	293	F	7
P2383	2	251	D	7
P2391	1	266	F	7
P2401	2	249	F	7
P2447	5	239	R	7
P2462	2	240	A	5
P2496	3,4 and 5	242	C	7
P2497	1 and 4	294	F	7
P2498	1	243	D	4
P2504	1 and 2	244	D/F	6
P2509	1,2 and 3	245	C	3
P2510	3 and 4	300	F	5
P2513	2	296	D	5
P2531	3	297	D	6
P2545	2	298	F	7
P2566	3	252	A	7
P2576	1	256	F	7
P2576	3	299	D	7
P2578	3	258	F	6-7
P2589	5	283	F	7
P2590	5 and 6	260	D/F	7
P2605	1	259	A	7
P2606	1	263	D/F	7
P2612	1	284	D	7
P103	1	212	D	3
ph 4382	1	191	D/F	3
ph 4383	1	192	D	6
ph 4737	1	193	E	3
ph 5802	1	201	B	-
ph 5803	3	202	F	3
ph 6383	1	205	R	-
ph 6756	1	203	F	-
ph 6768	1	204	A	-
ph 7035	1 and 2	206	D	3
ph 8107	1	273	F	-
ph 8988	1	231	F	-
ph 10010	1	261	A	3
G305	1	286	D	7
Tr 123	2	295	F	-
	716	268	F	7
	719	267	D	6-7
	722	269	F	7
	743	270	F	6-7
	758	271	D	3
	836	230	F	6
	857	272	F	7

Feature	Layer	deposition number	deposition category	ceramic phase
	1050	232	F	6
	1051	233	F	6
	1061	234	F	6
	1100	235	F	3
	1153	236	F	7
	1160	237	F	6
	1224	238	F	7
	1355	281	F	7
	1369	282	F	7
	1500	285	F	3
	1686	287	F	5
	1734	288	F	7
	1737	255	F	3
	1742	254	F	4
	1743	224	C	3
	1748	257	E	3
	1912	253	F	3
	1949	289	D	7
	1951	290	D	7
	1997/2031	262	D/F	4
	2005	291	D	5
	2039	264	F	5
	2045	265	F	6

Index 3 Features containing human remains listed numerically with ceramic phases. The deposition numbers and categories are included with each feature.

cp	feature	deposition number	category
3	P1245	187	F
	P1255	188	F
	P1346	190	D
	P1463	195	D
	P1697	207	F
	P1876	213	F
	P2100	217	A
	P2100	248	A
	P2509	245	C
	P103	212	D
	ph 4382	191	D/F
	ph 4737	193	F
	ph 5803	202	F
	ph 7035	206	D
	ph 10010	261	A
	layer 758	271	D
	layer 1100	235	F
	layer 1500	285	F
	layer 1737	255	F
	layer 1743	224	C
	layer 1748	257	F
	layer 1912	253	F
4	P1172	184	D
	P1545	198	D
	P1545	199	C
	P2498	243	D
	layer 1742	254	F
	layer 1997/2031	262	D/F
5	P1913	211	D
	P2159	279	D
	P2218	222	A
	P2462	240	A
	P2510	300	F
	P2513	296	D
	layer 1686	287	F
	layer 1734	288	F
	layer 2005	291	D
	layer 2039	264	F
6	P1114	241	A
	P1192	185	F
	P1822	210	A
	P2030	215	D
	P2030	216	F
	P2030	301	D/F
	P2041	274	F

cp	feature	deposition number	category
6	P2044	279	F
	P2183	221	C
	P2504	244	D/F
	P2531	297	D
	ph 4383	192	D
	layer 836	230	F
	layer 1050	232	F
	layer 1051	233	F
	layer 1061	234	F
	layer 1160/1156	237	F
	layer 2045	265	F
7	P1137	292	D
	P1161	183	F
	P1224	186	F
	P1285	189	B
	P1455	194	D
	P1579	200	D/F
	P1698	208	D
	P1792	209	D/F
	P1992	220	F
	P1993	214	B
	P2035	246	F
	P2097	247	F
	P2115	218	B
	P2121	276	F
	P2139	277	F
	P2145	278	A
	P2155	219	A
	P2163	280	F
	P2223	233	A
	P2254	225	F
	P2269	227	D
	P2270	228	F
	P2271	229	F
	P2367	293	F
	P2383	251	D
	P2394	266	F
	P2401	249	F
	P2447	239	B
	P2496	242	C
	P2497	294	F
	P2545	298	F
	P2566	252	A
	P2576	256	F
	P2576	299	D
	P2578	258	F
	P2589	283	F
	P2590	260	D/F
	P2605	259	A
	P2606	263	D/F
	P2612	284	D

cp	feature	deposition number	category
7	G305	286	D
	layer 716	268	F
	layer 719	267	D
	layer 722	269	F
	layer 743	270	F
	layer 857	272	F
	layer 1153	236	F
	layer 1224	238	F
	layer 1355	281	F
	layer 1369	282	F
	layer 1949	289	D
	layer 1951	290	D
7/8	P1530	196	D/F
	P1543	197	F
	P2261	226	F
8	P2346	250	D
Unassigned	ph 5802	201	B
	ph 6756	203	F
	ph 6768	204	A
	ph 6383	205	B
	ph 8107	273	F
	ph 8988	231	F
	tr 123 layer 2 (P360)	295	F

Index 4 The gender and age of depositions divided into categories A-F and listed chronologically according to the ceramic phasing of the contexts.

Deposition category	cp	deposition number	feature	gender	age
A	3	217	P2100	–	5
	3	248	P2100	?	35+
	3	261	ph 10010	–	neonatal
	5	222	P2218	M	25
	5	240	P2462	M	25-35
	6	241	P1114	M	12-13
	6	210	P1822	F	c50
	7	278	P2145	–	neonatal
	7	219	P2155	–	neonatal
	7	223	P2223	M	50+
	7	252	P2566	–	neonatal
	7	259	P2605	F	50+
	u	204	ph 6768	–	neonatal
B	7	189	P1285	–	neonatal
	7	214	P1993	F	25-30
	7	218	P2115	–	<1
	7	239	P2447	M	18-22
	u	201	ph 5802	–	neonatal
	u	205	ph 6383	–	neonatal
C	3	245	P2509	–	10-12
	3	224	layer 1743	–	-12
					17-25
	4	199	P1545	–	10-12
					12
	6	221	P2183	F	adult
	7	242	P2496	M	20
				M	25
				F?	25-35

Deposition category	cp	deposition number	feature	gender	age
D	3	190	P1346	-	adult
	3	195	P1463	-	young adult
	3	212	P1[illegible]	-	adult
	3	206	ph[illegible]035	-	adult
	3	271	layer 758	-	
	4	184	P1172	-	adult
	4	198	P1545	-	5-15
	4	243	P2498	F?	adult
	5	211	P1913	-	adult
	5	279	P2159	-	
	5	296	P2513	-	
	5	291	layer 2005	-	
	6	215	P2030	F	20-30
	6	297	P2531	-	
	6	192	ph 4383	-	adult
	7	292	P1137	-	
	7	194	P1455	-	young adult
	7	208	P1698	M	20-25
	7	227	P2269		
	7	251	P2383	-	adult
	7	299	P2576	-	
	7	284	P2612	-	
	7	267	layer 719	-	
	7	289	layer 1949	-	
	7	290	layer 1951	-	
	7	286	G305	-	
	8	250	P2346	-	adult
D/F	3	191	ph 4382		
	4	262	layer 1997/2031	-	40+
	6	244	P2504	-	25-35
	6	301	P2030	-	-
	7	200	P1579	-	adult
	7	209	P1792	-	30
	7	260	P2590	-	adult
	7	263	P2606	-	5
	7/8	196	P1530	M	20-35
				M	20-30

Deposition category	cp	deposition number	feature	gender	age
E	3	193	ph 4737	?F	adult
	6	230	layer 836	F	adult
F	3	187	P1245	-	adult
	3	188	P1255	-	adult
	3	207	P1697	-	adolescent
	3	213	P1876	-	-
	3	216	P2030	-	20-30
	3	202	ph 5803	-	neonatal
	3	235	layer 1100	-	25-35
	3	285	layer 1500		
	3	255	layer 1737	-	adult
	3	257	layer 1748	-	10
	3	253	layer 1912	-	adult
	4	254	layer 1742	-	adult
	5	300	P2510		
	5	287	layer 1686		
	5	288	layer 1734		
	5	264	layer 2039	-	adult
	6	185	P1192	-	adult
	6	274	P2041		
	6	275	P2044		
	6	232	layer 1050	-	adult
	6	233	layer 1051	-	adult
	6	237	layer 1160/1156	-	adult
	6	234	layer 1061	-	6-8
	6	265	layer 2045		
	7	183	P1161	-	adult
	7	186	P1224	-	6-8
	7	220	P1992	-	10
	7	246	P2035	-	
	7	247	P2097	-	
	7	276	P2121		
	7	277	P2139		
	7	280	P2163		
	7	225	P2254	-	adult
	7	228	P2270	-	adult
	7	229	P2271	F?	adult
	7	293	P2367		
	7	266	P2391	-	12
	7	249	P2401	-	10-18
	7	294	P2497		
	7	298	P2545		
	7	256	P2576	-	adult
	7	258	P2578	-	adult
	7	283	P2589		

Deposition category	cp	deposition number	feature	gender	age
F	7	268	layer 716		
	7	269	layer 722		
	7	270	layer 743		
	7	272	layer 857		
	7	236	layer 1153	-	adult
	7	238	layer 1224		adult
	7	281	layer 1355		
	7	28[illegible]	layer 1369		
	7/8	197	P1543	-	10
		226	P2261	-	adult
	u	203	ph 6756	-	neonatal
	u	273	ph 8107	-	
	u	231	ph 8988	-	25-35
	u	295	[illegible] 123 layer 2		

Gazetteer of human remains

by Barry Cunliffe and Bari Hooper

Dental Chart Conventions

/ - post-mortem loss
X - ante-mortem loss
C - caries
A - abcess
∪ - erupting tooth
○ - unerupted tooth
a - medial deciduous incisor
b - lateral deciduous incisor
c - deciduous canine
d - first deciduous molar
e - second deciduous molar

P1114 (J765025) cp 6
Layer 5 Deposition 241(A)

Complete skeleton of a male child about 12-13 years of age, 162.9 cm in height.
Epigenetic variant: The 1st cervical vertebra has an open posterior arch and a patent suture in the anterior arch.
Dental formula

(8)	7	6	5	(4) d	3	2	1	1	2	3	(4) d	(5) e	6	7	(8)
(8)	7	6	5	4	3	2	1	1	2	/	4	5	6	7	(8)

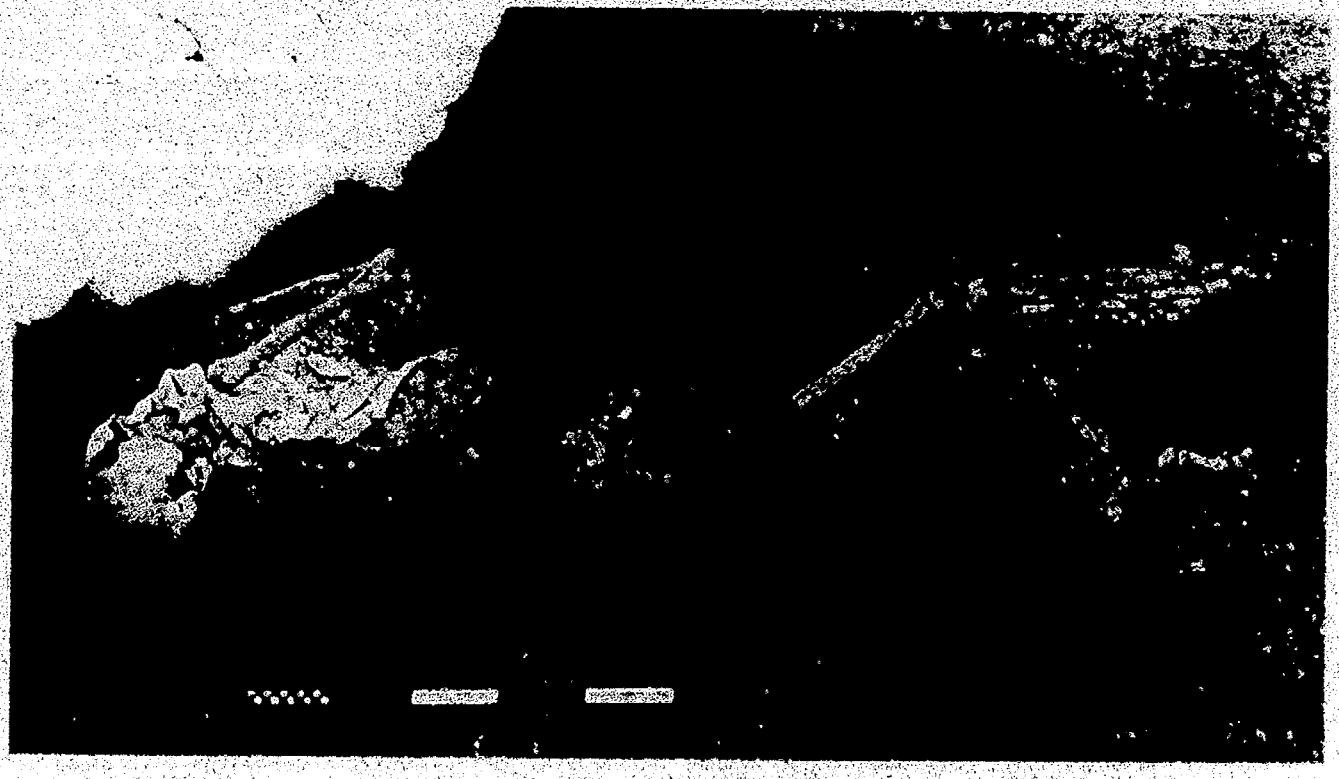
Adult: fragment of left tibia, rib, four phalanges of ?right hand, coccycx.

The complete articulated skeleton lay on the bottom of the pit against the SE side protected by the overhang. The body lay on its left side extended but with knees slightly bent. The left arm was straight and extended roughly parallel to the body; the right arm was bent with the hand brought up close to the chin.

The layer in which the body lay was a fine dark brown soil c. 20 mm thick containing much charcoal including a little carbonized grain. It was sealed by a domed mass of light grey chalky silt (layer 7) which had eroded in through the narrow pit top. This was followed by the collapse of the pit overhang. The body was therefore part of the primary deposit after which the silting was natural.



P1114



P1137 (Q107895) cp 7
+ Deposition 292(D)

Right mastoid process: adult male.

The unstratified material came from the second half of the pit which collapsed and was a mixture of layers 1, 2, 3 and most of 4.

Over the base was a deliberate dump of flint nodules mixed with chalk and brown silt followed by a tip of dark brown silt with occupation debris especially charcoal, with some daub and burnt flint.

Over this was a thick deposit of angular shattered chalk (4) eroded from the pit sides. Above this were interleaving lenses of pale greyish-brown silt and small weathered chalk (3), the silt tending to dominate. This appears to be a natural accumulation. Above this in a hollow in the pit top was a thin layer of small chalk lumps in compacted chalk (2) covered by a brown silt, relatively chalk free (1). Cutting layers 1, 2 and the top of 3 was one of the post-holes of PS379, material from which would have been mixed with collapsed debris of P1137.

P1161 (N731572) cp 7
Layer 1 Deposition 183(F)

Fragments of right and left humeri of an adult (possibly from the same individual).

In uppermost natural silt in pit top.

P1172 (N733308) cp 4
Layer 1 Deposition 184(D)

Occipital skull fragment of an adult.

In uppermost natural silt in pit top.

P1192 (N620634) cp 6
Layer 1 Deposition 185(F)

Proximal phalanx from right hand of an adult.

In uppermost natural silt in pit top.

P1224 (N548698) cp 7
Layer 5 Deposition 186(F)

Shaft of left femur of a child about 6-8 years of age.

In natural silt towards the top of the pit. There was an animal burial on the bottom of the pit.

P1245 (N533487) cp 3
Layer 1 Deposition 187(F)



Fragment of rib of an adult.

In natural silt in pit top.

P1255 (N504486) cp 3
Layer 1 Deposition 188(F)

Occipital skull fragment of an adult.

In natural silt in pit top.

P1285 (N478683) cp 7
Layers 7 and 8 Deposition 189(B)

Skull and mandible fragments, right clavicle, right ulna, left tibia, and fragment of left fibula of a neonatal infant.

From the basal layer of the pit (layer 8) consisting of dark brown silt incorporating slabs of oven daub. Lenses of fine shattered chalk (layer 7) incorporated within it. Animal burial (sheep) in layer 6.

P1346 (N347365) cp 3
Layer 3 Deposition 190(D)

Left parietal skull fragments of an adult.

In layer of occupation debris dumped into partially silted pit. A pot was found on the bottom of the pit.

P1455 (N156843) cp 7
Layer 1 Deposition 194(D)

Frontal skull fragment of an adolescent or young adult.

From top layer of the pit consisting of a natural chalky silt with some occupation debris.

P1463 (N175553) cp 3
Layer 1 Deposition 195(D)

Parietal skull fragment of an adolescent or young adult.

In natural silt in pit top.

P1530 (M873727) cp 7/8
Layers 3 and 4 Deposition 196(D/F)

Layer 3 Frontal bone and left parietal skull fragment of an adult male probably between 20-35 years of age.
Epigenetic variant: Two small button osteomata on the frontal.
Pathological observations: There are at least five sword cuts present as follows: 1. 60 mm. 2. 13+ mm. 3. 25+ mm. 4. 25 mm. 5. 13+ mm (see under trauma: sword wounds). There is also a graze mark on the right of the frontal, an injury which may have been sustained during excavation (not necessarily recently).

Partial skull of an adult, probably male, about 20-30 years of age.
Epigenetic variant: Metopic suture.
Pathological observation: There is a sword cut 43 x 8 mm in the frontal bone (see under trauma: sword wounds).

Layer 4 Right scapula, probably female, of an adult.

Shaft of right fibula of an adult.

Detached proximal epiphysis of right humerus of an adolescent.

The bones were found scattered towards the centre of the pit in layers 3 and 4 which consisted of brown silty soil containing much burnt occupation debris and lumps of unburnt Reading Beds clay.

P1543 (N142628) cp 7/8
Layer 1 Deposition 197(F)

Fragment of mandible of a child about 10 years of age.
Dental formula

8 7 6 e 4 3 2 1 | / 2 / 4 e 6 / /

Detached left proximal epiphysis of an immature individual in the 8-12 age range.

In natural silt in pit top.

P1545 (M909707) cp 4+
Layer 1 Deposition 198(D)

Frontal and parietal skull fragments of a child in the 5-15 years age range.

Layers 3, 4 and 5 Deposition 199(C)

Left humerus and right distal femoral epiphysis of a child about 10-12 years of age (probably from the partial skeleton below).

Left upper canine and 1st premolar of a child about 10-12 years of age (probably from the partial skeleton below).

Partial skeleton (less skull and mandible) of a child about 12 years of age.

Mandible of an adult, probably male, about 25-35 years of age.
Dental formula

8 7 6 5 / / / / | 1 / 3 4 / 6 7 8

Fragments of vertebrae, pelvis, femora and ribs of an adult, probably male. (Perhaps associated with the mandible above.)

The pit was shallow and had been filled to about half its depth with a deliberate deposit of chalk rubble and silt (layer 5) containing a large collection of disarticulated sheep bones. It was at this stage that the two partial skeletons were deposited in layer 4 - a layer of orange-brown soil. It would appear that the layer, and the skeletons, were deposited in a shallow trench cut into the underlying deposits. They were sealed by layer 3 - a

tip of chalk rubble and orange-grey silt. A few bones recorded as coming from this level really protruded into it from layer 4 below.



Pl545



31:B12

P1579 (N283779) cp 7
Layer 3 Deposition 200 (D/R)

Parietal skull fragment of an adult.

Proximal fragment of right femur of an adult.

Fragment of shaft of left tibia of an adult.

From one of the upper layers of the pit - a light brown silt which seems to have accumulated naturally after the main phase of erosion was complete. Animal burial in the bottom.

P1697 (H433480) cp 3
Layer 3 Deposition 207(F)

Fragments of distal end of right humerus of an adolescent.

In natural silt with some occupation debris which filled most of the pit.

P1698 (H463483) cp 7
Layers 8 and 9 Deposition 208(D)

Fragmented skull of an adult male, 20-25 years of age. Epigenetic variants: 1. Metopic suture. 2. Zygomatic facial foraminae. 2. Lambdoid ossicles. Pathological observation: There is a scrape mark at the base of the skull (almost certainly a recent injury caused during the present excavation).

The skull together with the skull of a cow was found placed on the primary fill (layer 10) which consisted of a thin (20 mm) layer of grey-brown silt covering the pit bottom. The chalk shatter from the erosion of the pit sides (layer 9) had engulfed and covered the skull. Thereafter the silting was largely natural.

P1792 (H302382) cp 7
Layer 5 Deposition 209(D/F)

Left parietal bone of an adult probably below 30 years of age.

Fragment of the proximal end of the left tibia of an adult above 20 years of age.

The bones lay in the primary silt on the pit bottom which consisted of a brown, slightly chalky silt 200 mm thick on the east side but only 80 mm thick in the centre. The layer was sealed by natural chalk shatter.

P1822 (H697260) cp 6
Layers 1 and 2 Deposition 210(A)

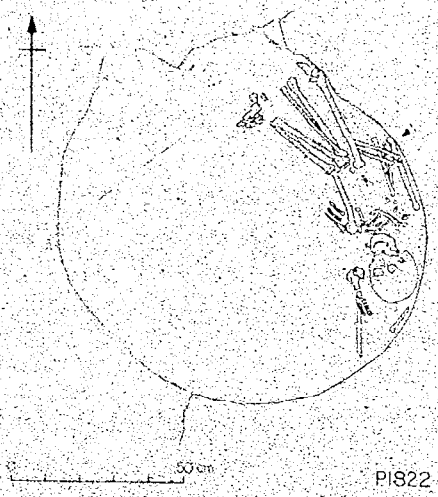
Complete skeleton of a female probably above 50 years of age, and 146.7 cm in height.
Epigenetic variants: 1. Multiple zygomatic facial foraminae at left. 2. Epipteric bones. 3. Ossicles at lambda. 4. Multiple mental mandibular foraminae at right.
Pathological observations: Squatting facets. The left tibia has an old well-healed fracture (see under trauma: fractures). Osteophytosis present in remaining lumbar vetebrae. Well-marked vascular lines on both tibiae.
Dental observations: Severe paradontal disease has resulted in the loss of the upper right 2nd premolar and left 1st, 2nd and 3rd molars; and in the mandible the right and left 2nd premolars and left 1st, 2nd and 3rd molars. Abscesses are present at the roots of the upper right 2nd incisor and right and left 1st premolars. All the remaining teeth are severely abraded with medium deposits of calculus.
Dental formula

				A		A					A				
X	X	X	X	/	/	/	/	|	|	/	/	4	5	6	X	X
8	7	6	X	4	3	2	1	|	|	/	2	3	/	X	X	X	X

The skeleton lay on the bottom of the pit close against the side. It lay on its back with legs tightly flexed and knees brought up close to its chest as though the body had been tightly bound. Part of one leg and its foot were out of position and placed near the skull. Part of the other foot was cut away by F89.

The lowest layer of the fill (layer 2) within which the skeleton lay consisted of a fine brown silt up to 80 mm thick mixed with some flecks of daub, streaks of charcoal, burnt chalk and burnt animal bone.

The pit was then backfilled to the top with a mixture of dark brown silt and chalk. Some of the very large slabs of chalk and flint noted in this layer were probably placed to cover the skeleton before the backfill began.



PI822



P1876 (H493193) cp 3
Layer 5 Deposition 213(F)

Tibia fragment.

In basal silt.

P1913 (H661112) cp 5
Layer 2 Deposition 211(D)

Two fragments of parietal of an adult.
Pathological observation: Wormian bones at lambda.

From a layer of brown soil part way up the pit fill. The layer contains much charcoal and quern fragments suggesting that it is a tip of domestic debris. There was an animal burial on the pit bottom.

P1992 (G640603) cp 7
Layer 4 Deposition 220(F)

Fragments of left tibia of a child about 10 years of age.

In a layer of grey-brown chalky silt half way up the pit fill. The layer contains lumps of oven daub. There was an animal burial on the pit bottom.

P1993 (G638520) cp 7
Layer 6 Deposition 214(B)

Partial skeleton of a female 25-30 years of age, about 140.5 cm in height, consisting of skull, mandible, vertebrae, ribs, pelvis, clavicles, scapula and fragments of femora and tibiae.
Epigenetic variants: 1. Zygomatic facial foramen at right. 2. Lambdoid ossicles. 3. Supernumerary foramen in 24th cervical vertebra. 4. The 1st sacral vertebra is completely fused to the alae as normal, but the join between this segment and the 2nd sacral vertebra is quite patent on both pelvic and dorsal aspects. On the pelvic side there is an open suture between the segments, and on the dorsal side the inferior articulations of the 1st sacral are in contact with the corresponding superior facets of the 2nd sacral, but are not fused. As a consequence of this anomaly there is an hiatus in the wall of the sacral canal in the 2nd sacral vertebra.
Pathological observation: Osteochondritis is present in the right acetabulum of the pelvis.

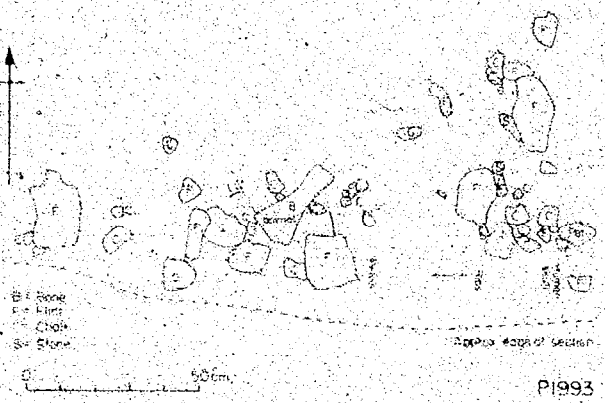
Dental observations: Paradontal disease is present, with the lower left 2nd and 3rd molars affected by considerable alveolar resorption. The lower right molars are less seriously affected. The upper right and left 1st incisors have ante-mortem damage, the right being broken off at the midpoint and the left being chipped at an oblique angle. Minor chips are present in the upper left canine, right 2nd premolar and 1st molar; and in the lower left and right 2nd molars. The remaining lower incisors and right canine are severely abraded. The missing left canine had rotated in its socket.

Dental formula

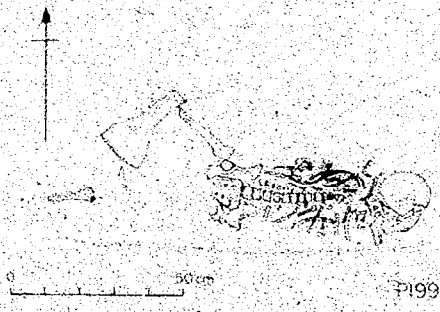
8 7 6 5 4 3 2 1	1 2 3 4 5 6 7 8
8 7 6 5 / 3 / 1	/ / / / 5 6 7 8

Skeleton lying on its back, head to the left facing south. Arms missing and legs displaced. A cow's scapula lay close to one femur.

The pit had been allowed to silt with the primary lens of brown silt (layer 7) and a thickness (0.43 m) of weathered chalk and silt lenses (layer 6) which domed up in the centre before the body was laid on the surface of the silt. Blocks of flint and chalk were then placed over the body. Thereafter the sides of the pit eroded naturally giving rise to a considerable thickness of shattered chalk which completely sealed the deposition.



P1993



P1993



31:C4

P2030 (G600372) cp 6
Layer 5 Deposition 215(D)

Fragmented skull (less mandible) and 1st and 2nd cervical vertebrae of a female 20-30 years of age.
Pathological observation: There is a small scar 7 x 3 mm on the occipital.
Dental observations: Paradontal disease is present, with slight alveolar resorption and calculus deposits.
Dental formula

8 7 6 5 4 3 2 / | / / / / / / / /
———————————— | ————————————

The skull lay against the south side of a pit in the basal layer (layer 5) which consisted of orange-brown clay up to 50 mm thick in the centre. It was sealed by natural layers of silt (layers 4 and 3). Above this, was a layer containing ashy material, charcoal and burnt daub (layer 2) dumped in as part of a single operation. Layer 1 which sealed it was a deliberate deposit of chalk rubble.

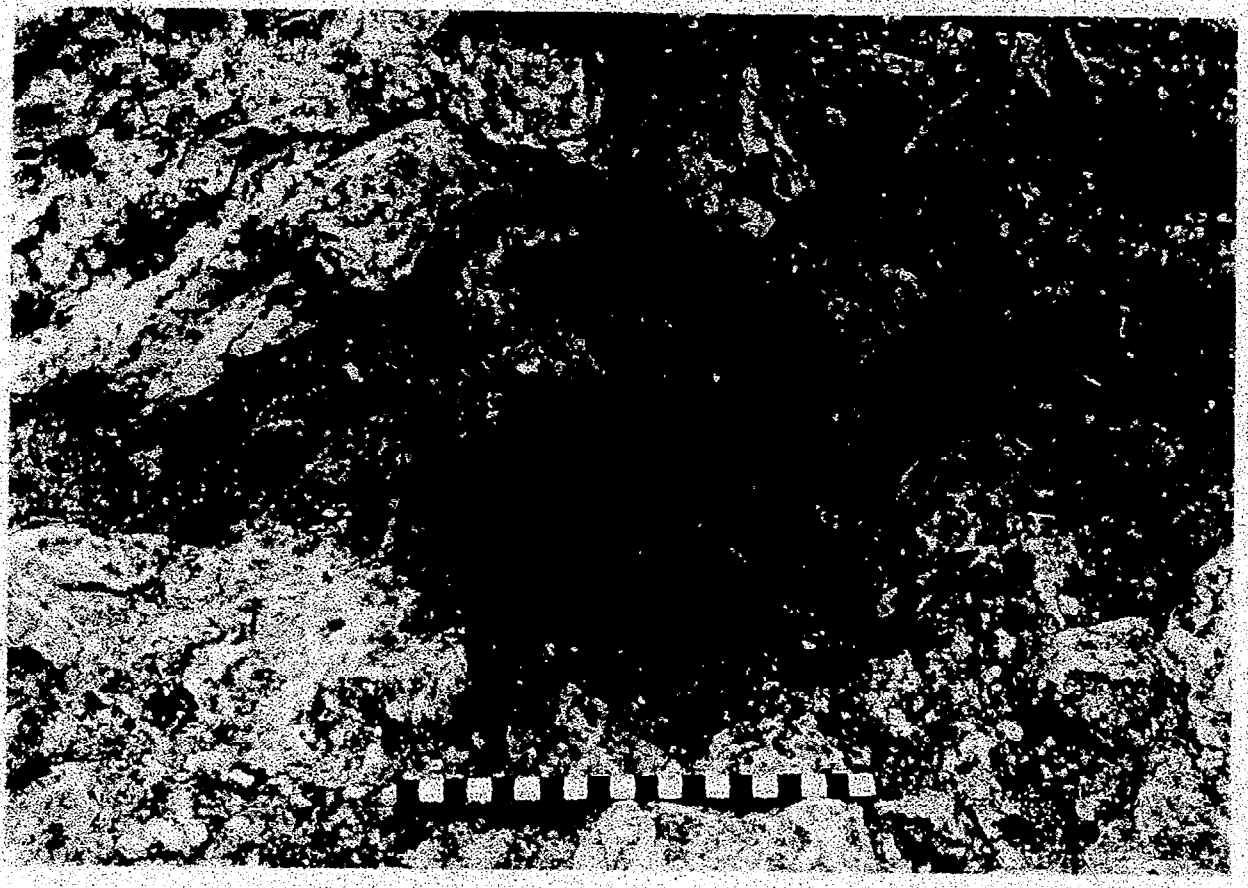
P2030 (G600372) cp 6
Layers 2, 3 and 4 Deposition 301(D/F)

Parietal skull fragment of adult (layer 2).

Shaft of right fibula of adult (layer 3).

Right scapula of adult (layer 4).

Layer 2 was composed of bands of light brown silt interleaved with pure chalk lenses. Above and below the silt banding were two thin layers of ashy material including charcoal and daub. Layer 3 was a fine grey ashy silt with a small amount of occupation debris in the form of clay, daub, charcoal and calcined flint. Layer 4 was composed of light brown chalky silt containing small fragments of weathered chalk.



P2030 (G600372) cp 6
Layer 3 Deposition 216 (F)

Fragment of mandible of an adult 20-30 years of age.
Dental observation: The lower right 3rd molar has an abscess at its root.
Dental formula

8 7 6 5 4 / / / 1 / /
A

See Deposition 301.

P2035 (G630365) cp 7
Layer 8 Deposition 245(F)

Mandible (misled before detailed study).

The mandible was found in the basal layer (layer 8) which consisted of a light yellow-brown silt with occasional lumps of unburnt Reading Beds clay, a few burnt flints and a small fragment of sandstone. Above was a layer of medium brown silt (layer 7) mixed with debris including sandstone fragments, unburnt Reading Beds clay, pottery, charcoal and much of a quern of pudding stone. Above this was natural chalk shatter from the sides (layer 6) followed by natural silting.

P2041 (G665396) cp 6
Layer 1 Deposition 274 (F)
Shaft of right tibia of adult.

The layer was a medium brown silt containing a scatter of rounded chalk lumps up to c 50 mm size. It is essentially a final natural accumulation of soil in the hollow of the pit top.

P2044 (G681330) cp 6
Layer 2 Deposition 275(F)

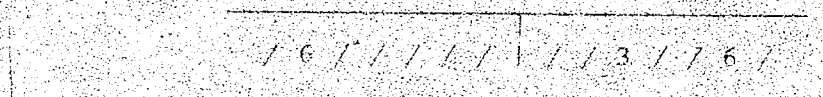
Shaft of left femur of an adult, chewed by a carnivore.

This layer followed on after a substantial amount of chalk shatter. It forms a high proportion of the pit fill and can be subdivided. The lowest part was coarse chalk rubble, generally less than 100 mm size, but with a few blocks larger up to a maximum of 0.25 m long. Some

of this could be chalk shatter, but it is likely much is a deliberate tip. Above this is a medium dark brown silt with a few flecks of charcoal containing a moderate quantity of small chalk lumps. This merges up into more chalky material with chalk blocks 50-150 mm and occasional flints predominating in a light brown silt matrix. The latter was a deliberate dump of chalk towards the top of the pit. Though it would be possible to interpret the siltier section of the layer as natural, it is likely that all is largely deliberate tip.

P2097 (G502430) cp 7
Layer 4 Deposition 247(P)

Mandible of an adult female? of about 40 years of age.

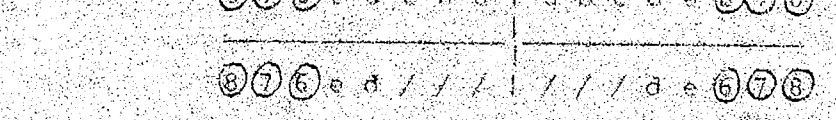


Dental observations: There is considerable alveolar resorption through paradontal diseases. The 3rd molars are genetically absent.

From the bottom of the pit close to the NW side found in layer 4 - a yellow-brown slightly clayey silt incorporating some small fragments of chalk. Sealed by shallow chalk (layer 3) eroding from the overhanging sides.

P2100 (G722265) cp 3
Layer 2 Deposition 217(A)

Almost complete skeleton of a child about 5 years of age.
Epigenetic variants: 1. Zygomatic facial foraminae.
2. Lamidoid ossicles.
Pathological observation: Cribra orbitalia is present in both eye sockets.
Dental formula



The skeleton is flexed and lies on its side tight against the side of the pit under the overhang within layer 2 140 mm above the pit bottom. The layer was a light brown chalky silt containing occasional small lumps of chalk and a general scatter of occupation debris including a few burnt flints and flecks of charcoal, pot sherds and animal bone. The layer was a deliberate tip of material.

A large chalk block had been placed close to the child's skull.

Layer 2 Deposition 248(A)

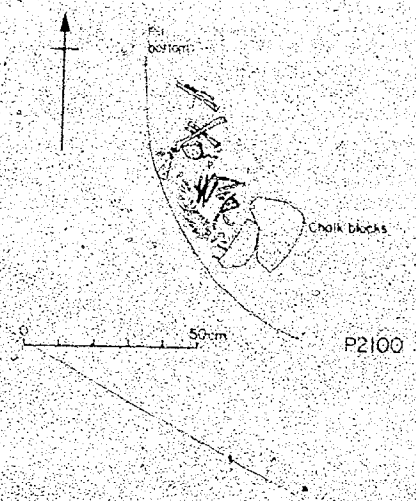
Almost complete skeleton of an adult 150.4 cm in height. The skull appears to be that of a male aged above 35 years, but the mature skeleton has several female characteristics.
Epigenetic variants: 1. Zygomatic facial foraminae. 2. Lambdoid ossicles.
Pathological observations: Cribra orbitalia is present in the left eye socket (the right is not present). There is slight osteophytosis in the upper thoracic vertebrae and some slight evidence of age deterioration in the cervicals. The condition of the patellae suggests that the ligamentum patellae were subjected to strong usage during life. Compression damage is present at the anterior margins of two lumbar vertebrae.
Dental observations: Paradontal disease has caused the loss of the upper left 1st and 2nd incisors and canine. In the lower jaw the right 1st, 2nd and 3rd molars and left 2nd and 3rd molars have been lost through disease. The upper left premolars and 3rd molar (all missing post-mortem) were close to being shed shortly before death. Abscesses are present at the roots of the upper left 1st premolar and lower right canine. In the lower jaw the left canine and 2nd premolar are affected by interproximal caries. The lower left canine has rotated in its socket. All of the teeth are very abraded.
Dental formula

									A						
/	/	/	5	/	3	2	1	X	X	X	4	/	/	/	/
X	X	X	5	4	3	2	1	X	X	3	4	5	6	X	X
					A					C		C			

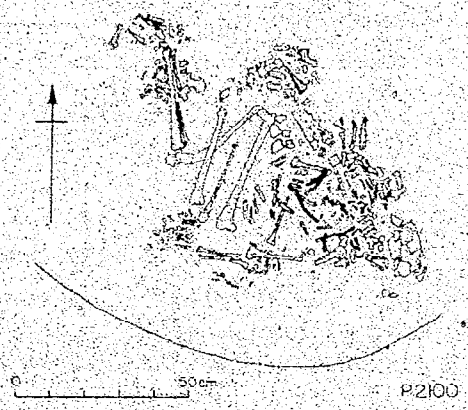
The loosely flexed skeleton of an adult lay in the same layer a few centimetres lower with the same chalk block against the face. The head of the skeleton was against the side of the pit under the overhang the pelvis being roughly in the centre. The skeleton lay practically on the pit bottom. A glass bead (6.9 = sf 1852) was found immediately beneath the neck.

The sequence of events was therefore:
a) The deposition of the adult with its head marked by a chalk block.
b) The dumping of a layer of soil over the body.
c) The deposition of the child with head close to the block, which was still showing at this time.
d) The dumping of more soil to cover the child and to fill the pit to a depth of 0.3 m.

Thereafter the pit was filled to the top with chalk rubble in a single operation. The entire operation including the burials need have taken no more than an hour.









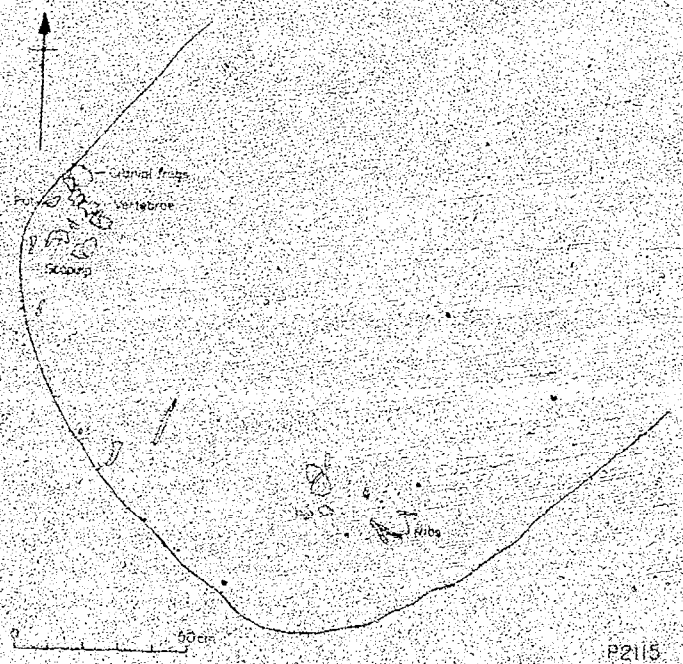
31:C11

P2115 (M700810) cp 7
Layer 6 Deposition 218 (B)

Partial skeleton of an infant below the age of 1.

The scattered bones were found in a thin (40 mm) layer of charcoal and daub with a few burnt flints. The layer was deposited after about 0.6 m of brown silty soil and occupation material (layers 5 and 4) had been thrown into the pit.

The bones were scattered throughout layer 6 together with some animal bones. The layer was sealed by a (?)deliberate deposit of angular chalk rubble and flints. Thereafter the pit silted naturally.



P2115

P2121 (G438358) cp 7
Layer 2 Deposition 276(F)

Pelvis fragments of an adolescent.

This layer occurred in the upper half of the pit fill overlying a mixture of chalk shatter and deliberate chalk dump (layers 3 and 5). It was a greyish-brown slightly clayey silt with a moderate quantity of chalk up to 50 mm size. There were occasional flint fragments and flecks of charcoal. It merges upwards into layer 1, which is effectively the same, but root disturbed. They appear to form a deliberate dump of soil in the upper half of the pit.

(On base of pit was burnt grain and charcoal with ?cow skeleton and iron ?pruning hook.)

P2139 (M697742) cp 7
Layer 1 Deposition 277(F)

Bones lost.

This small pit had a uniform deliberate fill throughout of large flint nodules, 0.1-0.25 m in size and medium brown silt in roughly equal proportions.

P2145 (M738786) cp 7
Layers 1, 2 and 3 Deposition 278(A)

Almost complete skeleton of neonatal infant.

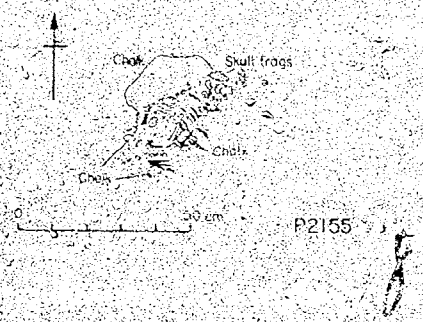
Layer 3 is fairly low in the pit overlying dumped layers of clay (6), chalky silt (5) and chalk rubble (4). It is a light brown silt containing a little chalk and flint up to 40 mm size. It contains a few pieces of charcoal and daub. It is essentially a deliberate dump. Layer 2 above can be subdivided into a and b. The lower lens (b) consists of small subangular chalk fragments up to 40 mm size in fine chalk powder and has probably resulted from weathering of the sides. This is separated from (a) by a thin brown silt lens. The upper chalk was formed of small and medium chalk up to 80 mm size though mostly less than 50 mm. There is very little matrix and the layer is likely to be a deliberate tip, rather than chalk shatter from the pit sides. Layer 1 infills the substantial hollow in the pit top. It was a brown silt with little chalk generally 10-30 mm, but occasionally up to 150 mm with occasional flint nodules up to 200 mm. This layer could be interpreted as either deliberate tip

or natural soil accumulation, but is likely to be a combination of the two.

I2155 (M704700) cp 7
Layer 2 Deposition 219(A)

Complete skeleton of a neonatal infant.
Pathological observation: There are radial porosities emanating from the ossification centres of both parietals.

The body was placed on a chalk slab and surrounded by flint nodules: it was oriented NNE-SSW. It occurred within a deposit resulting from natural silting.



P2159 (G415345) cp 5
Layer 4 Deposition 279(D)

Parietal skull fragment.

Layer 4 was close to the base of the pit, and was formed of loose shattered chalk merging into a more clayey shatter below layer 6. It occurred on the east side of the pit whilst the shatter on the west was layer 5 and contained a complete broken pot. These sealed a primary silt. Above the chalk shatter layers natural processes continued to dominate with interleaved layers of chalk and silt.

P2163 (G480460) cp 7
Layer 4 Deposition 280(F)

Bones lost.

This layer infills the base of the pit, overlying a thin burnt layer (5) largely pieces of carbonized plank, charcoal fragments and grain, with an articulated dog skeleton. Layer 4 was a greyish-brown clayey silt with a moderate quantity of small chalk. At the base of this layer (or resting on 5) was an articulated pig skeleton, with spare leg! This layer appears to have been a deliberate dump and was sealed by a thin dump of chalk rubble and above this the remainder of the pit was infilled with a soil dump.

P2183 (G800740) cp 6
Layer 6 Deposition 221(C)

Fragments of the skull of an adult female.
Dental observation: Interproximal caries is present in the upper right 1st molar.
Dental formula

C															
8	7	6	5	/	3	/	/	|	/	/	/	4	/	6	7	/

Fragments of a pelvic girdle, sacrum, thoracic vertebrae and ribs of a male below 30 years of age. (It is assumed that all of these pieces are from the same individual.)

The fragments of human bones were found scattered within the main fill of the pit (layer 6) which consisted of c. 1 m of fine to medium chalky silt interleaved with

lenses of finer silty material. The layer was clearly the result of a long process of erosion when the pit was open to weathering. Most of the bones occurred in the upper third of the layer. The layers above were largely natural silts of finer texture.

P2218 (G836740) cp 5
Layer 2 Deposition 222(A)

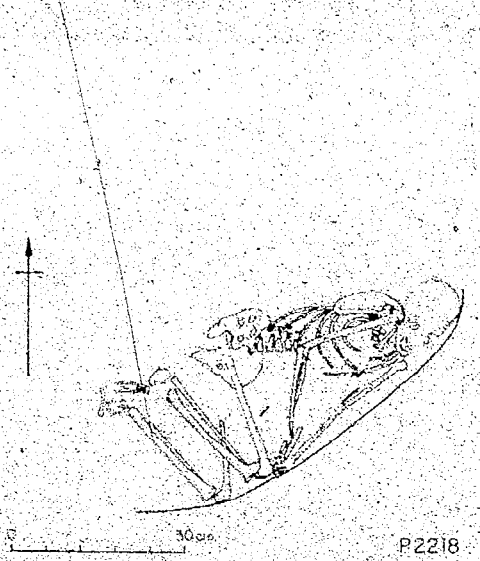
Almost complete skeleton of a male about 25 years of age, 173.8 cm in height.
Epigenetic variants: 1. Zygomatic facial foramina at left. 2. Lambdoid ossicles. 3. Posterior condylar canal at right. 4. Bilateral supernumerary foraminae are present in the 5th, 6th and 7th cervical vertebrae.
Pathological observations: Osteochondritis is present in the left foot in the proximal articulation of the 1st metatarsal and in the proximal articulation of the proximal phalanx of the great toe. A slight periostitic deposition is present upon the mid-shaft of the left tibia. Squatting facets are present.
Dental formula

8 7 6 5 4 3 2 1	1 2 3 4 5 6 7 8
8 7 6 5 4 3 2 1	/ 2 3 4 5 6 7 8

The skeleton lay in a crouched position on its left hand side, heels brought up tight to the buttocks and hands on the knees. The entire body was tucked hard against the side of the pit.

The pit was shallow, c. 0.75 m deep. On the bottom, in the NW corner was a thin layer of fine carbonized material (layer 3). The body had been placed on the pit bottom in the SE corner and was covered with a layer of large flint nodules and chalk blocks. There was a large slab of unfired Reading Beds clay on the pit floor, close to the pit side on the NE side.

Above the skeleton and layer 3 came a layer of brown silty soil mixed with small rounded chalk lumps, flecks of charcoal and Reading Beds clay (layer 2). The layer was probably a deliberate deposit and was sealed with chalk rubble (layer 1) which had been thrown in to fill the rest of the pit.



P2218



31:D3

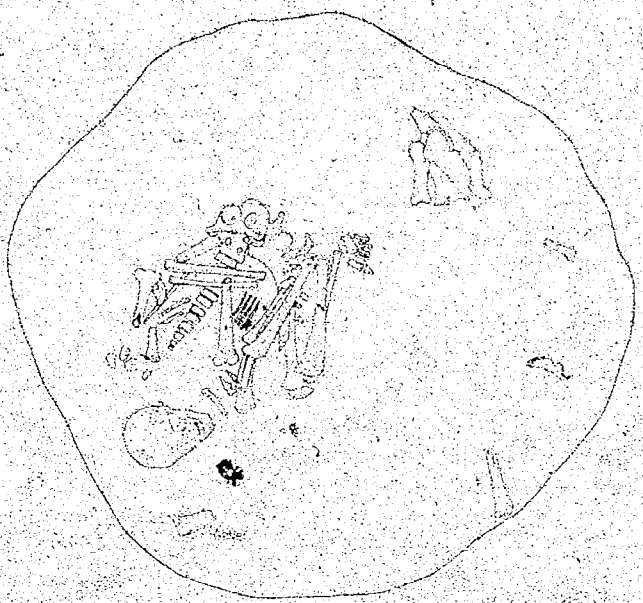
P2223 (GB93762) cp 7
Layer 3 Deposition 223(A)

Almost complete skeleton of a male above 50 years of age, 178.7 cm in height.
Epigenetic variants: Bilateral supernumerary foraminae are present in the 1st, 3rd, 4th, 5th, 6th and 7th cervical vertebrae.
Pathological observations: There is much evidence of senile degeneration, with osteoarthrotic changes in the cervical and thoracic vertebrae, with slight evidence of the same disease in the distal phalanges of both feet. Mild osteophytosis is present in the thoracic/lumbar region of the vertebrae. Osteochondritis is present in the proximal phalanx of the great toe of the left foot. Vascular markings are present on the tibiae. The right clavicle, two vertebrae and five ribs have healed fractures (see under trauma: fractures).
Dental observations: Severe paradontal disease has caused the loss of 13 teeth and much alveolar resorption. There is an abscess at the root of the upper left canine. Calculus deposits are slight, due to the remaining teeth being severely abraded. The lower right 3rd molar has failed to erupt.
Dental formula

	X	X	X	5	X	3	2	1	1	X	3	X	5	X	X	X
(8)	X	X	5	4	3	2	1	1	2	3	4	5	6	X	X	

Complete human skeleton lying on its back but very tightly flexed with the knees brought up to the chest suggesting that the body had been tied up.

The pit was shallow, c. 0.9 m deep. The basal layer (layer 3) consisted of a fine brown soil containing a few small fragments of chalk and flecks of charcoal. The crouched burial lay on top of and partly within the layer and faced a scatter of bones of ox, sheep, pig and horse, and a large sherd of pottery. The deposit was sealed by a natural chalk erosion from the pit sides (layer 2) above which was a natural brown silt accumulation.



P2223



31:D5

P2254 (G545605) cp 7
Layer 8 Deposition 225(F)

Two fragments of an adult right scapula.

In a layer of chalk and flint rubble eroded into the bottom and sealing a thin basal grey-brown crumbly silt. NB It is possible that the scapula was projecting from the silt into the chalk rubble above.

P2261 (G581654) cp 7/8
Layer 6 Deposition 226(F)

Head of a right 1st rib of an adult.

Pelvis fragments of adolescent with teeth marks of carnivore.

The layer in which the bone was found lay immediately above the basal lens (layer 7) of carbonized material. Layer 6 was a brown silt with some chalk notable for special burials of cow and fragments of charred planks.

P2269 (G680734) cp 7
Layer 1 Deposition 227(D)

Fragments of the skull of a female above 30 years of age. Pathological observations: There are at least five small button osteomata on the frontal. There is a small cut 8 mm in length on the right parietal (probably excavation damage).
Dental observation: Interproximal caries is present in the upper left 2nd molar.
Dental formula

/ 7 / 5 4 3 / / 1 / / / 4 / 6 7 /

The skull and rib fragments were found together in the uppermost layer of the pit, close to the SE edge surrounded by deliberately arranged blocks of chalk and flint. The layer (layer 1) was a deliberate dump of brown silt, chalk lumps and occasional flints and charcoal. Most of the upper part of the pit had been deliberately filled with dumped layers of chalk and silt. In layer 4 there was a special animal burial consisting of a centrally placed cow's skull lying upside down towards centre of pit in a layer of clayey silt with chalk and charcoal fragments.

Below layer 4 the silting was largely natural.



P2270 (G674702) cp 7
Layer 1 Deposition 228(F)

Fragment of a thoracic vertebra of an adult.

In natural silt in top of the pit.

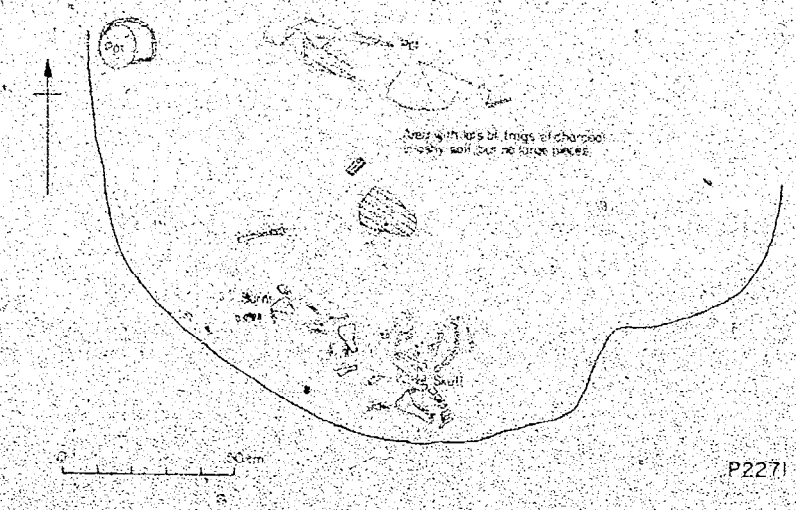
P2271 (G660701) cp 7
Layer 1 Deposition 229(F)

Fragment of the mandible of an adult, probably female.
Dental observations: Labial caries is present in the lower left 3rd molar. Paradontal disease has caused medium alveolar resorption. There are slight calculos deposits.
Dental formula

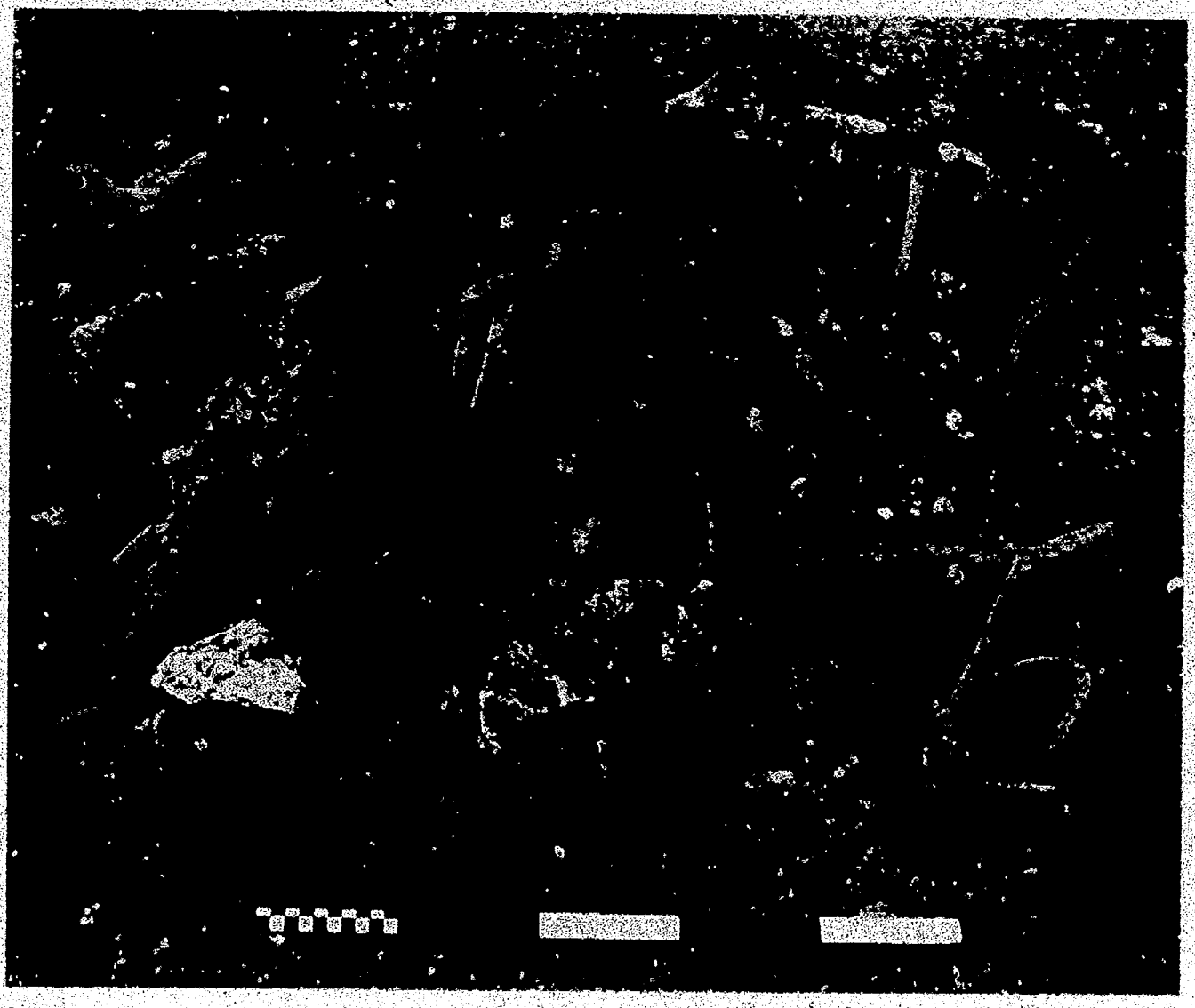
	8	7	6	5	4	3	/	/	1	2	3	4	5	6	7	8
											C					

The jaw lay in the uppermost fill of a deep pit (layer 1) together with a substantial part of an articulated sheep. The layer was composed of grey silt with medium-sized chalk fragments.

Special animal burials were found in layers 7 (sheep) and 11 (dog) while in layer 10 there were several large pot sherds including the complete side of a pot, and a number of sling stones.



P2271



P2346 (J8555351) cp 8
Layer 7 Deposition 250(D)

Fragment of parietal of an adult.

In medium grey brown silt halfway up the filling of the pit. The layer contained large flint and chalk blocks upon which a cow skull had been laid under the overhanging north-east wall. A complete pot base containing an ashy deposit was also found in the layer together with a massive deposit of partially articulated animal bones, mainly cow but with some sheep/goat.

P2367 (J998765) cp 7
Layer 1 Deposition 293(F)

Fragment of right femur shaft: adult.

This layer infills the hollow in the top of the pit after alternating phases of chalk shatter eroded from the sides and soil dumps. Layer 1 was composed of light brown clayey silt incorporating a moderate scatter of small chalk and a few broken flints. At the interface with layer 2 are a number of large flint nodules and chalk blocks. It probably resulted from natural soil accumulation in the hollow.

P2383 (J8643910) cp 7
Layer 2 Deposition 251(D)

Fragments of occipital, parietal and temporal bones of an adult. (Possibly, but not necessarily from the same skull. Some of these bones have traces of burning on them.)
Epigenetic variant: Lambdoid ossicles are present.

In upper fill of brown chalky silt.
NB The pit was excavated only to a depth of 0.8 m but appeared to be considerably deeper and bell-shaped.

P2394 (J940888) cp 7
Layer 1 Deposition 266(F)

Right ulna of a child about 12 years of age.

If the pit is truncated, layer 1 would be the remnants of a more extensive layer only surviving at either end of the pit as a narrow band at the top. It was a brown silt containing small chalk and a scatter of charcoal

fragments. It partly seals the basal layer of greyish-brown clayey silt containing a moderate quantity of chalk. Both layers appear to be deliberate dumps.

P2401 (J976816) cp 7
Layer 2 Deposition 249(F)

Proximal end of the right ulna of a child 16-18 years of age.

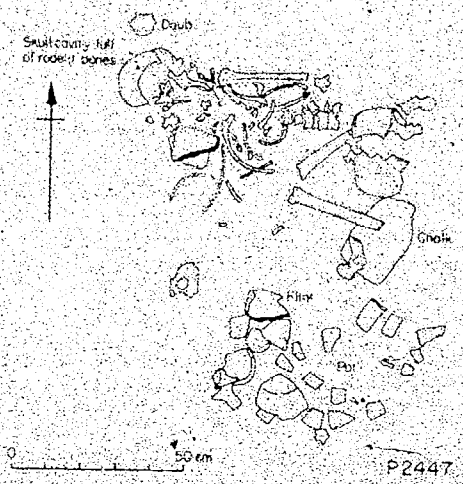
In lowest chalky silt of a truncated pit.

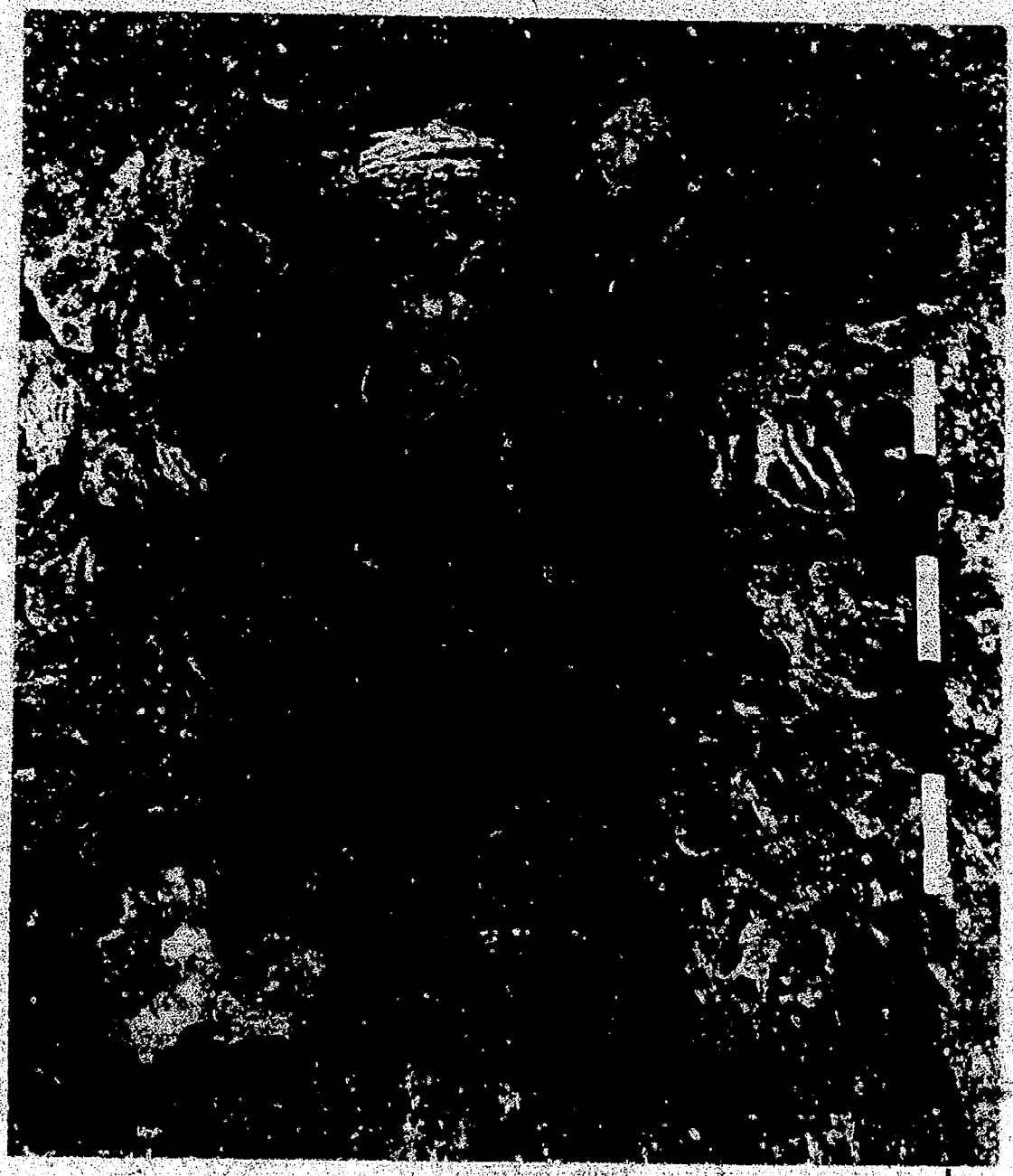
P2447 (D633100) cp 7
Layer 5 Deposition 239(B)

Partial skeleton of a male, 18-22 years of age, consisting of fragmentary skull and mandible, vertebrae, pelvis, ribs, clavicles, left humerus and femorae.
Epigenetic variants: 1. Ossicle at lambda and lambdoid ossicles. 2. Supernumerary foraminae in 1st, 5th and 6th cervicals.
Pathological observations: There is a small pear-shaped scar 13 x 5 mm on the left frontal bone. A small cut 14 mm in length on the superior surface of the right femur just below the greater trochanter, is probably the result of excavation damage.

The body lay on the base of the pit, facing north, with knees flexed. Its head was placed close to the pit side. To the south of the body close to the pit wall was a broken pot. In the NE quadrant of the pit a cow's skull with several flints nearby had been carefully placed. The layer in which the deposition was found (layer 5) consisted of a fine brown clayey silt.

This was sealed by an eroded mass of chalk rubble deriving from the weathering of the pit side. A complete roughout for an armlet of Kimmeridge shale was found at the base of this rubble close to the interface with layer 5.


Daub
Skull cavity full of rodent bones
Chalk
Flint
Bone
0
50 cm
P2447



31:D12

P2462 (J487808) cp 5
Layer 2 Deposition 240(A)

Almost complete skeleton (left femur missing) of a male 25-35 years of age, 174.5 cm in height.
Epigenetic variants: 1. Pierced olecranon fossae. 2. There is a small running at right angles to the median plane in the calcaneal surface (posterior) of the right talus. This is indicative of an imperfectly formed os trigonum.
Pathological observations: Osteochondritis is present in the proximalerticulation of the 1st metatarsal and phalanx of the great toe of the right foot. The tibiae, right femur and right radius have very slight 'graining'. Vascular markings are present on the tibiae. The attachments for the tendo calcaneus on each calcaneum are well developed and there is a strongly marked impression for the insertion of the pronator teres muscle on the left radius. Squatting facets are present.
Dental observations: Interproximal neck caries is present in the upper left 2nd molar. Paradontal disease has caused slight alveolar resorption. The teeth are mildly abraded with slight calculus deposits. The upper 3rd molars have not erupted.

Dental formula

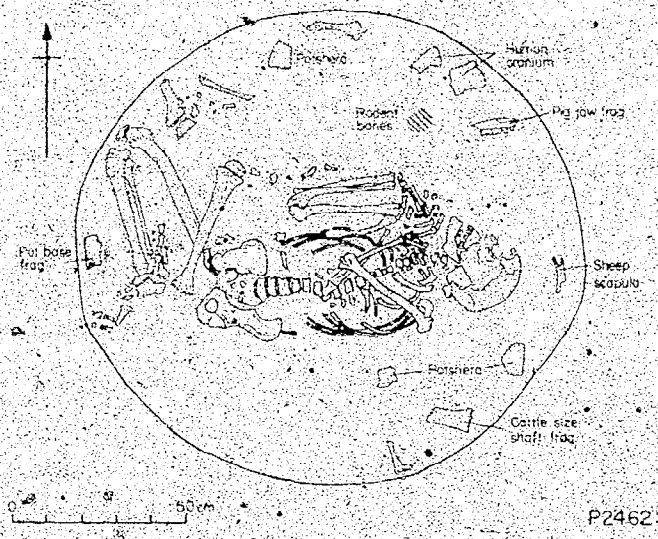
(8)	7	6	5	4	3	2	1	1	2	3	4	5	6	7	(8)
8	7	6	5	4	3	2	/	1	2	3	4	5	6	7	8

C

The body lay on its right hand side facing north. The knees were bent and the legs brought up so that the body would fit into the pit. The arms were bent at the elbow and the hands brought together under the chin.

The body had been placed on the bottom of the pit with a scatter of bones and pot sherds around the periphery. The bones included parts of a human cranium, a pig jaw, sheep's scapula and cattle long bone.

The layer in which the skeleton partly lay was a thin brown silt. The body protruded well above the layer and the upper part was embedded in the overlying chalk rubble (layer 2) which had eroded into the pit as the sides weathered. The silting above this was also natural.


Human cranium
Rodent bones
Pig jaw frag
Fur base frag
Sheep scapula
Cattle size shaft frag
0
50cm

P2462



P2496 (U775083) cp 7
Layers 3, 4 and 5 Deposition 242(C)

Partial skeleton of a male about 20 years of age, consisting of fragmentary skull, humeri, ulnae, left radius, left femur, ribs, tibiae, left fibula, metacarpals and metatarsals.

Right femur and fragments of right scapula of a child about 12 years of age (not necessarily from same child).

Fragmentary skull and mandible of a male about 25 years of age.
Pathological observation: There are two crescent-shaped scars each about 10 mm in length on the left frontal above the superior temporal line.
Dental formula



Fragmentary skull and mandible of a ?female 25-35 years of age.
Dental observation: The lower right 3rd molar was close to being lost shortly before death through paradontal disease.
Dental formula

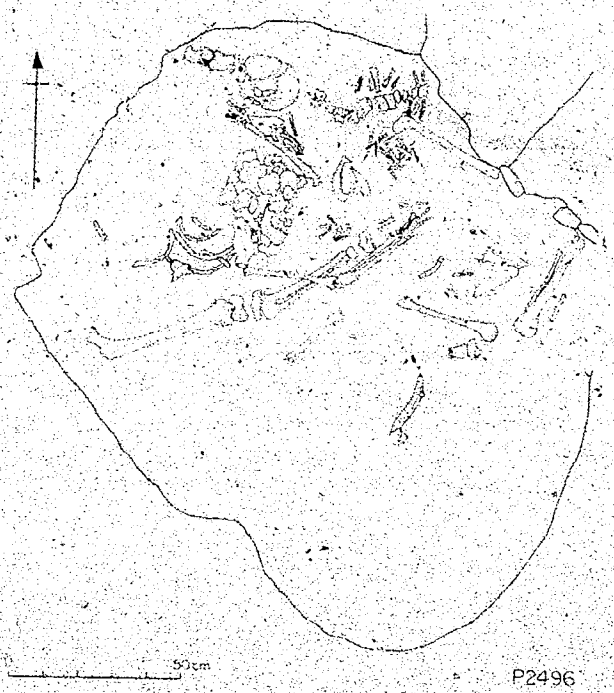


Fragments of the pelvic girdle of an adult female (perhaps part of above).

Fragments of thoracic vertebrae and ribs of an adult (perhaps part of above).

Partially articulated remains of several skeletons. Towards the centre of the pit lay a completely articulated arm and leg. A second arm lay to the south. In the northern half of the pit were two skulls, two sets of articulated vertebrae and various isolated bones.

The bones lay in a layer of a lens of black carbonized meterial some 20-40 mm thick containing some occupation debris. The irregular base of the pit suggests that it was abandoned during digging. Above the charcoal layer was a layer of chalk rubble derived from the erosion of the pit sides (layer 3); this was sealed by a thickness of chalky silt in which cow bones were present.



P2496



31:E2

P2497 (J787095) cp 4 (preferred date cp 7)
Layers 1 and 4 Deposition 294(F)

Fragment of thoracic vertebra: immature adult.

Axis vertebra.

On the base of the pit was a thick accumulation of light brown silt (4) containing a moderate quantity of weathered chalk up to 40 mm size, and this interleaved at the edges with chalk shatter (layers 3 and 5) weathered from the pit sides. These layers also overlay the primary silt and were followed by interleaving lenses of silt and weathered rounded chalk (2). Silt tended to predominate except at the top of layer 2 where chalk rubble was dominant and may have formed a deliberate dump. The hollow in the pit top was filled by a light brown chalky silt (1), much of which had been removed by ph 9801 which cut through it into the top of layer 2.

P2498 (J795098) cp 4
Layer 1 Deposition 243(D)

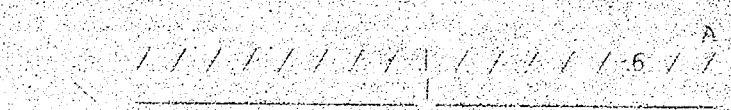
Frontal bone of an adult ?female.

In natural silt in top of pit.

P2504 (J748113) cp 6
Layer 2 Deposition 244(D)

Fragments of skull of adult. Fragments of skull of ?immature adult. Fragments of right ulna of adult.

Maxilla of an adult 25-35 years of age.
Dental observations: There is an abscess at the root of the upper left 3rd molar. The upper left 1st premolar is broken longitudinally (post-mortem damage).
Dental formula



In natural silt half way up the pit fill.

P2509 (J806085) cp 3
Layer 2 Deposition 245(C)

Fragments of frontal, parietal and occipital bones and

complete mandible of a child aged 10-12 years of age.
Epigenetic variant: Metopic suture present.
Pathological observation: There is severe cribra orbitalia in both eye sockets.
Dental observation: Slight calculus deposits present.
Dental formula

8 7 6 / 4 3 2 1	1 2 U / 5 6 7 8

Skull and mandible of a child 8-10 years of age.
Epigenetic variants: 1. Metopic suture. 2. Ossicle at lambda.
Pathological observation: There are radial porosities emanating from the ossification centres on the parietals.
Dental formula

8 U 6 e d c 2 1	1 2 c d e 6 U 8
8 U 6 e d c / 1	/ 2 c d e 6 U 8

Skull and mandible of a child about 15 years of age.
Epigenetic variant: Lambdoid ossicle.
Dental observations: The upper left canine is misplaced labially and the adjacent 2nd incisor is rotated in its socket. Very slight calculus deposits are present.
Dental formula

8 7 6 5 4 3 2 1	1 2 3 4 5 6 7 8
8 7 6 5 4 / 2 1	1 2 3 4 5 6 7 8

Shaft of left and right humerus of a child 10-12 years of age (gnawed by rodent).

2nd cervical vertebra, thoracic, lumbar and sacral vertebral fragments, ribs, right clavicle, right radius, right ulna, proximal epiphysis of left tibia, fibulae, distal left femoral epiphysis and left calcaneus of a child 10-12 years of age (possibly all part of above).

Right femur. Adult.

Right femur. Immature adult.

Proximal end of left femur. Adult)
Distal end of left femur. Adult.)probably same bone
Fragments of left femur shaft. Adult.)

Fragments of cervical, thoracic and lumbar vertebrae. Adult.

Fragments of right clavicle. Adult ?female.

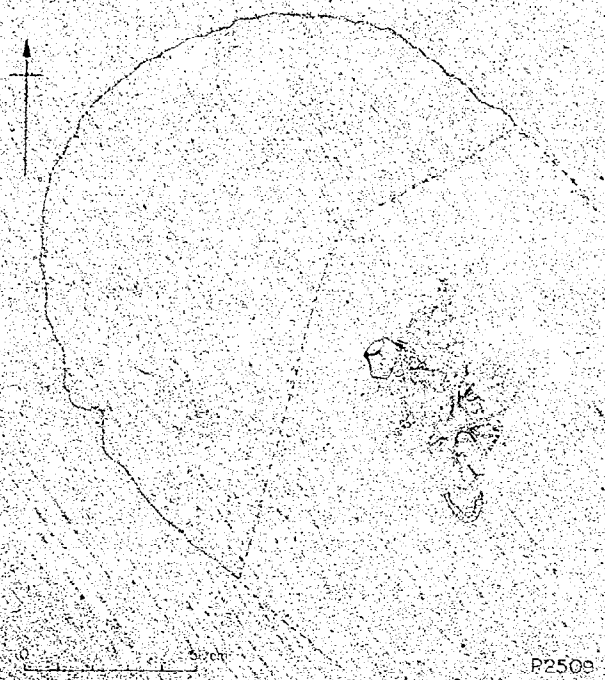
The deposit of bones, human and animal, were grouped together in the centre of the pit. Of the three human skulls no. 1 was inverted (base uppermost), no. 2 was placed face down to the W, while no. 3 was face up, cranium to the ENE. Nearby to the N lay the cranium of a bos, horns missing. Of the other bones the two articulated lumbar vertebrae were on the E edge of the group, the two femora lay to the N. There were also two bos femora, one crushing skull no. 3. The two thoracic vertebrae and [arm] lay to the E of the bos skull. The general impression is that the bones were thrown, without any attempt at careful arrangement, into the partially silted pit.

The pit was shallow, 0.47 m deep, and had eroded naturally giving rise to a sloping scree of chalk shatter (layer 3) before the bones were deposited. They were then sealed with a dump of brown chalky soil mixed with large lumps of ill-fired daub (layer 2). The uppermost layer (layer 1) was a brown silt probably of natural origin.

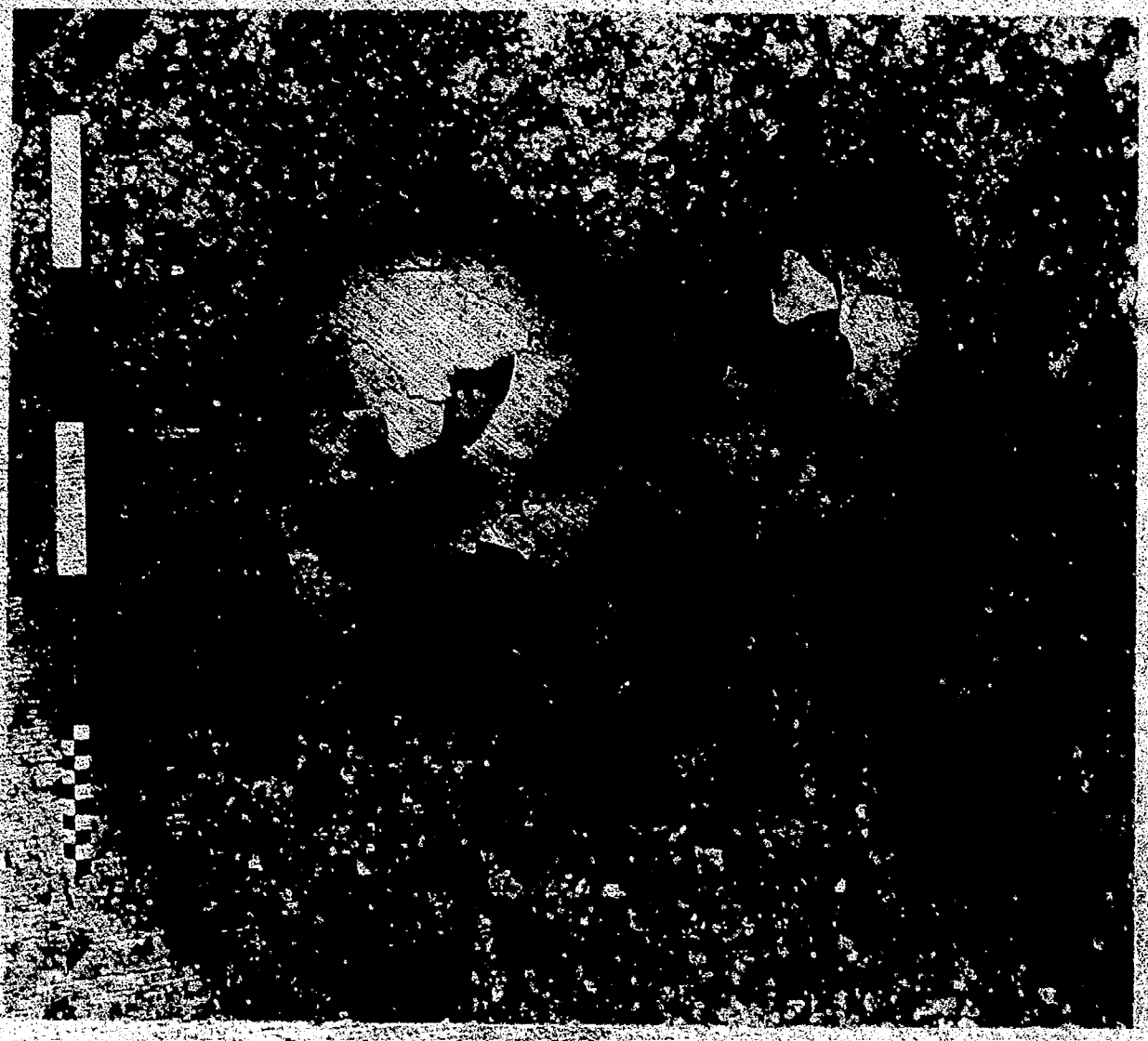


P2509





P2509



P2510 (J820070) cp 5
Layer 3 Deposition 300(F)

Shaft of right femur: immature adult.

Fragment of right scapula: adult.

Distal end of left humerus: older child or immature adult.

This layer was a mixture of dumps of angular chalk rubble and bands of silt sloping downwards towards the west. It overlay a succession of deliberate tips of chalk, silt and occupation debris. It was finally sealed by further silt, which may have been a natural soil accumulation in the hollow in the pit top.

P2513 (J881088) cp 5
Layer 2 Deposition 296(D)

Fragment of skull: adult?

Layer 2 was about halfway down the pit, a tip of decomposed brown chalk-flecked daub, sloping downwards from east to west. It overlies a brown silt with chalk lenses lying at the same angle and probably also a deliberate dump. (Preceding this is chalk shatter and a primary silt.) Overlying layer 2 was some chalk shatter against one pit edge and elsewhere above this infilling the pit further chalky brown silt.

P2531 (J979046) cp 6
Layer 3 Deposition 297(D)

Fragment of skull: adult.

This layer is formed of a dump of small chalk and daub fragments, and also included 1 1/2 querns (top only) and a dog skull at the pit edge. This layer was close to the pit base overlying a thin primary silt and a very little chalk shatter.

P2545 (K131091) cp 7
Layer 2 Deposition 298(F)

Shaft of left femur: adult. Gnawed by a carnivore.

This layer is a dump of large angular chalk rubble up to 0.2 m long with very little fine chalk matrix, close to

the pit top. It overlies a series of deliberate dumps of chalk blocks and silt infilling the rest of the pit, and above sealing the pit top was a mixture of chalk rubble and silt.

P2566 (K158130) cp 7
Layer 3 Deposition 252(A)

Skeleton of a neonatal infant, consisting of cranial fragments, vertebrae, ribs, right humerus, ulna, radius, pelvis, femorae and fragments of tibiae.

In a dump of oven daub halfway up the pit fill above the cone of primary erosion.

P2576 (K138162) cp 7
Layer 1 Deposition 256(F)

Shaft of right humerus of an adult. There is a cut 17 mm long on the medial side at midshaft (see under trauma: sword wounds). (The distal end has been chewed by a carnivore, perhaps a dog.)

In uppermost brown silt.

Layer 3 Deposition 299(D)
Fragment of skull: adult?

Layer 3 is formed of chalk rubble up to 20 cm size which was probably largely a deliberate chalk dump, possibly with some chalk shatter mixed in. It forms a chalkier tip within a series of dumps of silt and chalk with lenses of chalk shatter. Probably only the uppermost silt is a natural soil accumulation in the pit top.

P2578 (K160182) cp 6-7
Layer 3 Deposition 258(F)

Fragment of right calcaneum of an adult. Upper 1st ?premolar: adult, very abraded. Upper 1st incisor: adult.

In natural chalky silt midway up the filling of the pit.

P2589 (N140288) cp 7
Layer 5 Deposition 283(F)

Distal end of left femur: neonatal.

This layer occurred on the base of the pit composed of small closely packed chalk up to 20 mm in a dark brown silt, mixed with a moderate amount of charcoal. It is probably a mixture of material eroded from the pit sides, which were cut entirely through rampart and quarry silts, and deliberate tip. The overlying layers were also a mixture of deliberate tip and erosion of the sides with flint nodules infilling the pit top eroded off the rampart.

P2590 (N205268) cp 7
Layer 6 Deposition 260(D/F)

Left parietal of an adult.
Epigenetic variant: Lambdoid ossicle.
There is a small puncture close to the sagittal suture, probably made by a pick-like instrument (see under trauma: weapon wounds).

Neck and head of left femur of an adult above 20 years of age.

Head of right femur of an adult above 20 years of age (probably associated with above).
Pathological observation: Coxa vara is present.

Found in the middle filling of the pit together with an articulated hind leg of cow and immediately above a layer containing ten sheeps' skulls and a dog's skull.

P2605 (N172358) cp 7
Layer 4 Deposition 259(A)

Almost complete skeleton of a female above 50 years of age, 148.7 cm in height.
Epigenetic variant: Parietal foramen at left.
Pathological observations: There is a crater-like depression in the middle of the sagittal suture, perhaps a well-healed lesion. Squatting facets are present. (The right clavicle has been gnawed by a rodent, probably a mouse.)
Dental observations: Severe paradontal disease has caused the loss of ten teeth, with others being very loose at death. Abscesses are present at the roots of the upper left 1st premolar and 2nd incisor. Interproximal caries is present in the upper right 3rd

molar and lower left 2nd incisor and canine; occlusal caries is present in the upper left canine. All of the remaining teeth are very abraded, some being reduced to their roots, with pulp cavities exposed in five instances.

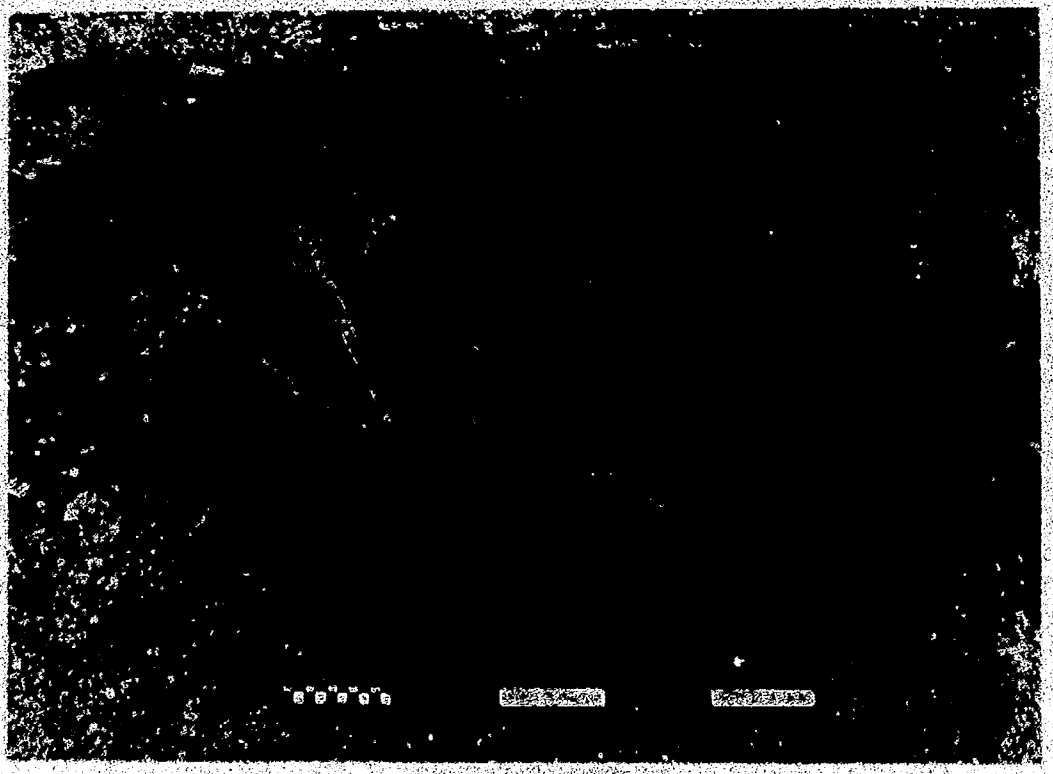
Dental formula

C 8 X X X 4 3 2 1	A C 1 2 3 4 5 X X 8
/ X X / 4 X 2 1	1 2 3 4 5 X X 8 C C

On the bottom of a pit largely cut away by another pit. The upper layers had been entirely removed by the quarrying activities to provide material for rampart period 3.



P2605



31:B12

P2606 (N182350) cp 7
Layer 1 Deposition 263(F)

Shaft of right tibia: adult, female.

Two phalanges of foot: adult.

Left talus: adult.

This layer was a deliberate dump of large angular chalk blocks with occasional large flint nodules, up to 150 mm size. This is the final dump in the pit top following a series of deliberate tips of chalk interspersed with some thin layers of charcoal and silt.

P2612 (N177287) cp 7
Layer 1 Deposition 284(D)

Fragments of skull: adult.

This layer infilled the pit top where it was partly cut through stratigraphy and was difficult to distinguish from the surrounding layers. It was a dark greyish-brown silt with a moderate quantity of small chalk. Much of the preceding fill of the pit was similar silt with varying amounts of chalk, and moderate quantities of charcoal. Most of the fill was deliberate, with small quantities of eroded chalk from the pit sides.

F103 (H450120) cp 3
Layer 1 Deposition 212(D)

Fragment of frontal bone of an adult.
Epigenetic variant: Metopic suture.

Rib fragment of an adult.

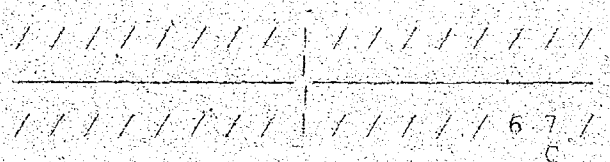
G305 (J968662) cp 7
Layer 1 Deposition 286(D)

Maxillary molar: adult.

Ph 4382 (N588622) cp 3
Layer 1 Deposition 191(D/F)

Fragmentary skull and mandible of a female aged 35-45 years of age.

Pathological observations: Mild cribra orbitalia present in both orbits. There is a crater-like scar 10 x 10 mm on the right parietal.
Dental observations: The lower left 2nd molar is carious.
Dental formula



Fragments of skull of a child probably below 12 years of age.

Terminal phalanx from finger of a ?child.

Fragments of occipital of an adult.

Ph 4383 (N592622) cp 6
Layer 1 Deposition 192(D)

Fragments of occipital of an ?adult.

Ph 4737 (N451282) cp 3
Layer 1 Deposition 193(E)

Fragments of an adult ?female pelvis.

Ph 5802 (N127892) cp -
Layer 1 Deposition 201(B)

Fragments of skull, thoracic vertebrae and ribs of a neonatal infant.

Ph 5803 (N124901) cp 3
Layer 3 Deposition 202(F)

Left fibula of a neonatal infant.

Ph 6383 (N128894) cp -
Layer 1 Deposition 205(B)

Vertebrae, ribs, left ilium, left humerus, left ulna,

femorae, tibiae, and left fibula of a neonatal infant.

Ph 6756 (N230812) cp -
Layer 1 Deposition 203(F)

Fragments of right ulna and left humerus of a neonatal infant.

Ph 6768 (N244823) cp -
Layer 1 Deposition 204(A)

Fragments of skull and mandible, vertebrae, ribs, pelvis, left scapula, humeri; right radius, and left tibia of a neonatal infant.

Ph 7035 (N381772) cp 3
Layers 1 and 2 Deposition 206(D)

Fragments of parietal and occipital of an adult.

Ph 8107 (G684347) cp -
Layer 1 Deposition 273(F)

Bones lost.

Ph 8988 (K008875) cp -
Layer 1 Deposition 231(F)

Fragment of mandible of an adult 25-35 years of age.
Dental formula

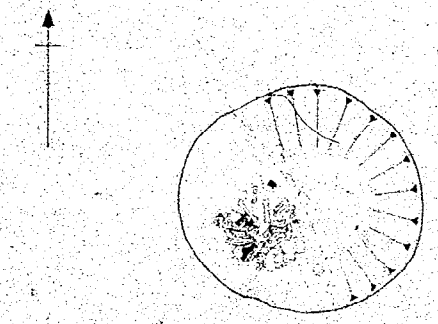
| / / 3 4 5 6 / / /

Ph 10010 (N269245) cp 3
Layer 1 Deposition 261(A)

Complete skeleton of a neonatal infant.
Pathological observation: There are slight radial porosities emanating from the ossification centres.

Found crouched in a small pit 0.5 m in diameter with a U-shaped section. The burial lay just above the bottom silt. Although the pit was of post-hole size, the

profile was quite unlike the normal flat-bottomed post-hole.

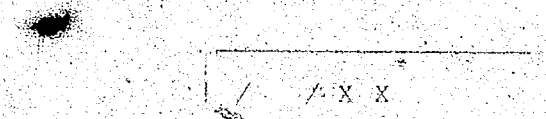






Layer 716 (1982) cp 7
Deposition 268(F)

Fragment of adult mandible.



Greyish-brown silt with small- and medium-sized chalk pieces.

Layer 719 (1982) cp 6-7
Deposition 267(D)

Fragment of skull (burnt).

Mid greyish-brown silt with small chalk pieces, disturbed by animals.

Layer 722 (1982) cp 7
Deposition 269(F)

2nd lower left molar, adult 25+ years.

Dark brown silty loam with flint nodules.

Layer 743 (1982) cp 6-7
Deposition 270(F)

Fragment of right ?fibula of adult.

Layer of chalk rubble.

Layer 758 (1982) cp 3
Deposition 271(D)

Fragment of skull, occipital?

Mid brown silt, possibly turf material.

Layer 836 (1983) cp 6
Deposition 230(F)

Fragments of an adult female pelvis.

Yellowish-brown fine clayey silt with small chalk pieces.

Layer 857 (1983) cp 7
Deposition 272(F)

Fragment of right maxilla.

Greyish-brown silt with sparse small chalk pieces.

Layer 1050 (1984) cp 6
Deposition 232(F)

Fragments of a right fibula of an adult.

Horizontal lips of chalky material.

Layer 1051 (1984) cp 6
Deposition 233(F)

Shaft of right femur of an adult.

Chalk and silt lenses lying horizontally.

Layer 1061 (1984) cp 6
Deposition 234(F)

Fragment of a mandible of a child 6-9 years of age.

Dental formula

8 7 1

A dump of turfy material with clayey texture and small weathered chalk pieces.

Layer 1100 (1984) cp 3
Deposition 235(F)

Mandible of an adult 25-35 years of age.

Dental observations: There is some overcrowding with the right canine overlapping the 2nd incisor, and the left 1st premolar being forced out of the line anteriorly. The left 3rd molar may be an ante-mortem loss. There is slight alveolar resorption and calculus deposits.

8 7 6 5 4 3 2 1 | 1 1 2 3 4 5 6 7 8
?

Dump of clean turfy material.

Layer 1153 (1984) cp 7
Deposition 236(F)

Fragments of left tibia of an adult.

Greyish-brown clayey silt with rare small chalk pieces.

Layer 1160 (1984) cp 6
Deposition 237(F)

Shaft of right femur of an adult.

Brownish-grey clayey silt with chalk.

Layer 1224 (1984) cp 7
Deposition 238(F)

Mandible of an adult.
Dental observations: There is a small interproximal caries cavity in the right 1st molar. There is slight alveolar resorption and calculus deposits.

8 7 6 / / / / / 1 / / / / / 6 7 /
C

Fragment of left mandible. Adult. Sword-cut 18 mm in length from posterior edge of ramus.

Brown clayey silt with small chalk pieces.

Layer 1355 (1984) cp 7
Deposition 281(F)

Fourth right metacarpal: adult.

Light brown silt with chalk flecks.

Layer 1369 (1984) cp 5
Deposition 282(D/F)

Fragment of skull: adult.

Right navicular: adult.

Dark brown silty loam containing small angular chalk pieces, charcoal and burnt clay.

Layer 1550 (1986/1987) cp 7
Deposition 285(F)

Shaft of right humerus: adult.

Grey silt with small weathered chalk pieces, burnt chalk and charcoal.

Layer 1686 (1986/1987) cp 5
Deposition 287(F)

Distal end of right radius: adult.

Layer of occupation material below wall of rampart.

Layer 1734 (1986/1987) cp 5
Deposition 288(F)

Fragment of pelvis: immature adult ?female.

Fragments of tibia, fibula and phalanx: all adult.

Brown silt with charcoal, flint and chalk pieces.

Layer 1737 (1986/1987) cp 3
Deposition 255(F)

Distal end of left humerus of an adult.

Loose chalk rubble.

Layer 1742 (1986/1987) cp 4
Deposition 254(F)

Proximal end of left tibia of an adult.

Yellowish-brown claycy silt with small chalk pieces and charcoal flecks.

Layer 1743 (1986/1987) cp 3
Deposition 224(C)

Mandible of an adult 17-25 years of age.
Dental observation: Very slight calculus deposits.
Dental formula:

(8)	7	6	5	4	3	/	/	1	1	2	/	4	5	6	7 (8)

Adult bones: Sacrum of a male, lumbar vertebra; midshaft of right tibia, midshaft of right humerus, distal end of left humerus, fragments of occipital and a left temporal, fragments of thoracic vertebrae. (It is highly likely that more than one individual is represented by these bones.)
Pathological observation: The lumbar vertebra has osteophytosis.

Immature bones: Fragments of right femur, right humerus, right ulna, left fibula and thoracic vertebrae. (Probably at least two individuals under the age of 12 years represented by these bones.)

Chalk blocks in grey silt.

Layer 1748 (1986/1987) cp 3

Deposition 257(F)

Right tibia and right calcaneum of a child about 10 years of age.

Grey silt with occupation debris.

Layer 1912 (1986/1987) cp 3
Deposition 253(F)

Midshaft of right humerus of an adult.

Brown crumbly silt.

Layer 1949 (1988) cp 7
Deposition 289(D)

Fragment of mandible with deciduous tooth: child c 6 years.

Fragment of skull: child.

Brown silt with small chalk pieces, rare chalk blocks and flint nodules.

Layer 1951 (1988) cp 7
Deposition 290(D)

Fragments of skull: adult.

Greyish-brown silt with small chalk pieces and rare broken flint.

Layers 1997 and 2031 (1988) cp 4
Deposition 262(D/F)

Fragments of skull: adult male.

Four cervical vertebrae of an adult.

Femora of an adult male.
Pathological observation: There is slight periostitic 'graining' to the shafts. (The head of the right femur has been chewed by a carnivore, possibly a dog.)

Fragment of maxilla of an adult above 40 years of age.
Dental observation: The teeth are very abraded.
Dental formula

/ / 6 5 / 3 / / 1

In a silt layer containing a quantity of general occupation debris.

Layer 2005 (1988) cp 5
Deposition 291(D)

Fragments of skull: adult.

Angular chalk rubble in puddled chalk matrix.

Layer 2039 (1988) cp 5
Deposition 264(F)

Right upper 2nd molar of an adult.

Fragment of left side of mandible: adult.

Layer of chalk rubble and silt eroded from rampart.

Layer 2045 (1988) cp 6
Deposition 265(F)

Mandible of an adult 25-35 years of age.

Dental formula

/ 7 6 5 4 3 2 1	1 2 3 / 5 6 7 /

Layer of silt and occupation material.

Trench 128 (CC99) cp -

Layer 2 (F360) Deposition 295(F)

Fragments of left tibia and left calcaneus: adult.