Appendix 5: Environmental data tables

Table A5.1: Environmental samples assessed and/or analysed - context order (Z= barren, plain number=seeds in assessed samples, F+number = fully analysed plus number of seeds in assessment)

Phase	Context	Description	Seeds	Barren sample	Fully analysed
6	2	Upper fill of hollow F4	16		
6	3	Lower fill of hollow F4	3		
3a	11	Fill of ditch F12	1		
3a	13	Fill of ditch F14	4		
3d	17	Same as 8 DITCH F6	2		
4	19	Fill of ditch F20	Z	1	
5a	21	Fill of ditch F22	2		
5b	23	Fill of ditch F24	1		
5a	27	Same as 9 FILL OF DITCH F7	Z	1	
3a	33	Fill of gully 11	Z	1	
3a	38	Same as 13 FILL OF DITCH f14	Z	1	
3b	48	Fill of ditch F49	5		
6	50	Fill of ditch F51	1		
6	54	Fill of ditch F55	1		
4	56	Fill of ditch F20	Z	1	
5b	61	Fill of ditch F62	Z	1	
5b	63	Fill of ditch F62	1		
3a	64	Fill of pit F65	Z	1	
5a	66	Fill of ditch F60	Z	1	
2	70	Fill of F113=ditch	Z	1	
6	84	Fill of pit F85	Z	1	
3b	89	Same as 46 DITCH F47	Z	1	
3a	95	Same as 82 DITCH F83	Z	1	
3a	97	Fill of ditch F98	2		
3b	99	Fill of ditch F49	2		
4	101	Fill of gully F102	Z	1	
4	103	Fill of gully F104	1		
5b	108	Same as 74 DITCH F62	Z	1	
6	110	Fill of ditch F109	2		
3a	111	Same as 13 DITCH F14	Z	1	
5b	116	Fill of ditch F62	1		
5b	119	Same as 73 DITCH F62	Z	1	
3a	120	Stone spread	3		
5a	121	Same as 9 DITCH F7	Z	1	
5a	123	Fill of gully F124	Z	1	
3a	125	Same as 13 DITCH F14	Z	1	
3b	127	Same as 48 DITCH F49	Z	1	
3a	135	Fill of pit F142	Z	1	
6	136	Fill of gully F137	1		
5a	139	Same as 15 DITCH F7	Z	1	
6	145	Fill of hollow F144	2		
3b	157	Fill of ditch F158	Z	1	
2	164	Fill of gully F165	Z	1	
3a	166	Same as 8 DITCH F6	Z	1	
2	168	Fill of pit F169	Z	1	
3a	183	Fill of gully F184	Z	1	
6	186	Same as F88= a ditch cut	1		
null	188	Cancelled	Z	1	
5a	190	Fill of ditch F191	Z	1	
5a	192	Fill of ditch F193	Z	1	

Phase	Context	Description	Seeds	Barren sample	Fully analysed
3a	215	Upper fill of pit F217	F+16		1
3a	216	Lower fill of pit F217	130		
3a	221	Fill of posthole F222	F+10		1
5b	232	Fill of ditch F231	3		
5d	233	Layer – sand silt	Z	1	
5b	239	Fill of ditch F240	1		
5b	243	Fill of ditch F242	1		
5b	246	F1ill of ditch F242	F+11		1
6	257	Fill of pit F256	1		
5c	261	Layer - stone rubble	2		
6	270	Fill of pit F269	Z	1	
1	283	Fill of pit F284	Z	1	
5a	311	Fill of F310 a rectangular stone structure	Z	1	
5a	313	Layer – clay	1		
3a	316	Fill of F315; F317 a culvert	1		
5d	318	Fill of F319 an oven	2		
5a	330	Same as 312 F366 cut of pit at base of F310 that rect stone struct	F+10		1
5b	333	Layer - clay	Z	1	
3a	338	Fill of F339 oven	2		
6	345	Fill of pit F346	1		
6	347	Fill of pit F348	1		
6	349	Fill of pit F350	3		
5a	357	Fill of stakehole F358	Z	1	
3a	361	Layer – sand silt	4		
5a	370	Fill of stone drain F274	3		
5b	375	Fill of stoke pit	3		
5a	378	Upper fill of flue F301	Z	1	
4	379	Lower fill of flue F301	F+121		1
5b	392	Fill of gully F393	2		
5d	394	Fill of pit F395	2		
5c	399	Upper fill of F401 a pit	Z	1	
3a	402	Fill of pit F403	1		
1	415	Fill of pit F416	F+218		1
2	417	Fill of pit F418	F+52		1
3b	419	Fill of F420 an oven	3		
3a	444	Fill of F340 oven construction cut	1		
5d	447	Fill of pit F448	2		
3a	457	Fill of gully F458	Z	1	
3b	466	Fill of oven F420	4		
5a	490	Fill of flue F339 at mouth of stoke pit	F+124		1
5a	493	Fill of flue F489	Z	1	
5a	494	Fill of flue F489	1		
3b	506	Fill of pit F505	F+10		1
4	515	Fill of flue linking F301/F310	1		
4	516	Fill of flue linking F301/F310	F+90		1
4	542	Grave fill	2		
5c	544	Fill of pit F543	1		
3a	552	Fill of gully F553	5		
5c	554	Fill of gully F555	6		
5d	560	Fill of gully F561	1		
5a	586	Fill of grave F587	6		
5a	588	Fill of grave F589	1		
5a	616	Hearth	2		

Phase	Context	Description	Seeds	Barren sample	Fully analysed
5b	620	Layer – sand silt clay	Z	1	
3c	623	Fill of F624 slot cut	1		
3d	641	Fill of ditch F1199	F+303		1
5c	659	Clay bonding of F656 - a wall	Z	1	
5d	672	Fill of F566 has flues therefore assume oven	F+81		1
5c	680	Fill of gully F679	Z	1	
5b	682	Fill of pit F681	2		
5c	686	Fill of pit F685	2		
5c	717	Layer – clay silt	1		
1	723	Fill of pit F724	4		
5b	750	Layer – silt	4		
3a	754	Fill of stone lined drain F756	1		
6	762	Layer – silt sand gravel	5		
6	763	Fill of pit F777	Z	1	
3b	768	Fill of ditch F769	4		
3a	770	Fill of ditch F771	Z	1	
3b	772	Fill of ditch F773	3		
3c	774	Fill of ditch F775	1		
3c	783	Oven lining	4		
5b	789	Fill of gully F790	Z	1	
5c	793	Fill of gully F794	1		
3c	795	Fill of pit F796	1		
3c	805	Fill of oven F781	8		
3a	807	Fill of ditch F809	1		
6	826	Fill of pit F777	2		
4	829	Fill of F801=F891 a construction cut	3		
3c	834	Fill of pit F833	Z	1	
3b	836	Fill of posthole F835	5		
3c	840	Fill of oven F664	F+12		1
3c	841	Fill of pit F842	1		
6	845	Fill of F846 rectangular pit	1		
3b	850	Fill of posthole F849	2		
3b	854	Fill of posthole F853	Z	1	
3a	856	Fill of slot F855	7		
3c	858	Fill of pit F857	Z	1	
3b	861	Fill of posthole F860	2		
3c	863	Fill of pit F862	Z	1	
3c	865	Fill of posthole F864	6		
5a	868	Fill of pit F867	Z	1	
3b	871	Fill of posthole F870	F+11		1
5a	873	Fill of pit F872	F+310		1
3c	882	Fill of pit F881	124		1
5a	884	Fill of gully F884	3		1
5a	885	Fill of gully F886	Z	1	
1	898	Fill of gully F1002	Z	1	
3c	906	Fill of oven F664	F+396		1
3a	912	Fill of pit F915	112		
5a	924	Fill of pit F874	F+272		1
5a	927	Fill of pit F872	F+175		1
3d	937	Fill of pit F938	6		
3b	951	Fill of posthole	1		
3c	953	Fill of post pit F952	1		
3c	959	Fill of posthole F958	1		
3b	963	Fill of posthole F962	1		

Phase	Context	Description	Seeds	Barren sample	Fully analysed
4	964	Fill of F801=F891 a construction cut	F+56		1
5a	967	Fill of pit F968	3		
3c	979	Fill of gully F980	1		
5a	982	Ditch cut	Z	1	
5b	983	Oven cut	F+16		1
5d	994	Fill of pit F995	F+39		1
6	998	Fill of ditch F999	Z	1	
6	1000	Fill of pit/hearth F1001	Z	1	
3c	1023	Fill of pit F1022	Z	1	
3c	1025	Fill of posthole F1024	Z	1	
5a	1030	Fill of pit F1058	4		
3d	1054	Same as 1013	Z	1	
3c	1094	Fill of pit F1093	3		
5a	1099	Fill of pit F1098	Z	1	
5d	1108	Fill of flue F761	F+181		1
5d	1109	Fill of flue F761	F+44		1
3a	1223	Same as 1156 FILL GULLY 1157	Z	1	
5a	1229	Fill of pit F1101	9		
3d	1236	Fill of pit F1237	Z	1	
3d	1318	Fill of oven flue F1311	2		
3a	1449	Fill of pit F1450	2		
3b	1453	Fill of grave cut F1455	29		

Appendix A5.2: Charred plant remains from fully analysed samples (counts, not standardised)

Material from 912 and 216, both from 3a, was sufficiently badly preserved that only qualitative data were obtained, these are discussed in the phase level results above. Pale highlighted taxon names are those classed as "weeds" for the triangular plots

code	eco	Biolab. Code	3557	3558	3552	3553	3560	3565	3564	3569	3567	3562	3556	3561	3547	3555	3559	3566	3568	3570	3571	3554	3548	3563	3549	3550	3551
291	aa	Context number	415	417	215	221	506	871	840	906	882	641	379	516	964	330	490	873	884	924	927	246	983	672	994	1108	1109
575	aa	Phase/period.	1	2	3a	3a	3b	3b	3c	3c	3c	3d	4	4	4	5a	5a	5a	5a	5a	5a	5b	5b	5d	5d	5d	5d
335	aa	Sample number																				24					
553	aa	Volume floated (litres)				1	11	2		20	5	25	4		4	8	1	17	5	13	15		25	10	29	31	52
2345	cc	Triticum dicoccon-type	103																								
2106	cc	Hordeum naked	54	8														4					1				
2125	cc	Hordeum indet.	66	80	6	1			2			2				1	1						10				
2124	cc	Cerealia undiff.	13	84	6		2		27		2	52	60	130	6	4	8	145		95		21	24	21	27	249	264
2105	cc	Hordeum hulled	14	11	12		1		23	4		27	1	16	23		2	46		13	2	10	47	22	11	35	60
2102	cc	Avena grain	2		2		2		9	62	2	46	26	23	7		1	29		19	30	3		4		13	180
2118	cc	Triticum sp(p). grain	112	53			35	2	80	59	22	483	34	116	5	1	5	620	2	302	1204	26		113	52	474	918
2117	cc	Triticum aestivum grain			1				1	3	12		4										1		3		
2344	cc	Triticum spelta-type											10	4													
2382	cs	Triticum spelta glume	1		5	11	18	1	399	150	2	1612	693	517	23	22	1	306		258	1095	154	1	106	54	360	2409
2341	cs	Triticum glume			5		4	2	102	133	2		18	10	27						80	96			43		123
2649	cs	Triticum spelta spikelet			1				38	37	2	7	86	39	5	2	2	4		4	118	10			5	13	57
2122	cs	Triticum brittle rachis internode				1			58	75		464	571	30				80		52	154	3		10	14	29	117
2097	cs	Avena awn			1	1	1		2	2		3		53	2	1						6	1		4	65	573
2099	cs	Avena sativa floret base											1	1													9
2113	cs	Hordeum rachis internode			6		2		9	1		15	4	2	9			12		2		3		6	3	4	27
2114	cs	Hordeum 6-row rachis frag			6				7	1		4	3	1	6			13		2		6	7			1	21
2425	cs	Hordeum basal internode							1			2		1	1			1						1			
2123	cs	Culm nodes		1						2	5			7			1				1						
2116	cs	Secale rachis internode								3	1											1					
2886	cs	Triticum aestivum rachis node								1							1				20				2		12
2544	cs	Triticum dicoccon glume base	1												1												
2417	cs	Triticum dicoccon spikelet	11												1												
2043	ce	Linum usitatissimum	13						1																		
2095	ct	Corylus avellana nut frag.	4	2			1		2					1					1								
2086	ce	Vicia faba												3									3				
2154	ct	Rubus fruticosus							1																		
2001	ca	Agrostemma githago										5	1								1					1	6
2002	ca	Anthemis cotula										1					7						2			4	21
2021	ca	Chenopodium album	105	12			7		9		10	6		2	16		2	9									90
2055	ca	Fallopia convolvulus	49	12						2	1														2		
2058	ca	Polygonum lapth./persicaria	84	8					3	1		3		1		3		6								1	
2014	cw	Carex (lenticular)	54	109					2											8	24		1				
2057	ca	Polygonum lapathifolium	21																		5						
2432	cx	Gramineae <2mm	66		3		8		7		2	8		2	8	2		33		11	64	2	12		10	16	435
2259	cg	Gramineae >4mm										11		1	3								3				6
2748	cg	Gramineae 2-4mm		1			1					1		3				5		5	5				2	2	6
2049	cg	Plantago lanceolata					1		6					2		4		4		12	5		1		1		30
2072	ch	Danthonia decumbens	1		1		15	2	102	2	4	1		5	3	4	1	6		7	57	3			10	2	12
2015	cw	Carex (trigonous)	5		1		1		19	2	10	25		16	1		1			7	5		2		3		
code	eco	Biolab. Code	3557	3558	3552	3553	3560	3565	3564	3569	3567	3562	3556	3561	3547	3555	3559	3566	3568	3570	3571	3554	3548	3563	3549	3550	3551

2069	cr	Rumex obtusifolius-type		6	1		3		4	7	1	2	1	5	3	1		2		1		1	2		2	6	204
2431	cr	Tripleurospermum maritimum							5			30	1		1	1	4	9		12	16	3			8	7	390
2103	cx	Bromus sp(p). grain					1		5	22	4	4	8	64	1	1		20			424	5			2	12	189
2023	cr	Chenopodiaceae undiff.			1				5			15		2						6	21		6		4	6	141
2066	cr	Raphanus raphanistrum pod			1		2		6	3		1		8				1		1	23	1			6	2	12
2606	cr	Veronica chamaedrys	4	1							2	2			2											3	
2029	cr	Galium aparine			1		1				35	7		7		1		6				1			1	1	3
2427	ct	Stellaria holostea							1																		
2039	cx	Legume <4mm	1	7	1		1			2		6	1		1	1	4	6		5			9		20	14	81
2144	cw	Juncus					1					45			2					6					29		
2178	cw	Montia font. chond.	1						1			45		10		3		12			248				16	7	12
2008	cx	Arrhenatherum elatius - tuber	1				2		2			11													2		
2094	ca	Stellaria media	1									15						6			8		1			4	123
2053	ca	Polygonum aviculare	2						1	1		2		1						2							
2159	cw	Ranunculus flammula					2																				
2075	ca	Spergula arvensis					1																				
2011	cr	Brassica sp(p).							2																		
2228	cw	Lycopus europaeus							1																		
2059	ca	Polygonum periscaria							1																		
2162	ca	Fumaria sp(p)							1																		
2186	cr	Potentilla erecta-type																							2		
2142	cr	Cirsium sp(p).																3									
2064	cx	Ranunculus repens-type												1				1		2							
2201	cx	Rosaceae undiff.																				3					
2067	cg	Rumex acetosa								1																1	
2174	cw	Stellaria graminea										15															
2062	cx	Polygonaceae undiff.					3					15								3			1				
2077	cx	Trifolium sp(p).										15										1	5				
2036	cr	Lapsana communis																					1				
2257	cw	Isolepis setaceus										1													1		
2046	ca	Papaver sp(p).																			8		1				279
2246	cx	Compositae undiff.																			32						207
2359	wa	Papaver dubium																									156
2068	cr	Rumex acetosella																								2	36
2252	cx	Luzula sp(p).																									21
2164	cx	Cruciferae undiff.																									12
2310	ca	Thalspi arvense																									12
2214	ca	Urtica urens																									12
2234	cx	Galium sp.												1													3
2165	cx	Viola sp(p).														1				1	16						3
2163	cr	Raphanus raphanistrum																									6

Table A5.3: Samples by phase

phase	assessed	analysed	barren	% barren
1	4	1	2	50.00
2	4	1	3	75.00
3a	30	2	12	40.00
3b	18	2	4	22.22
3c	19	3	4	21.05
3d	6	1	2	33.33
4	10	3	3	30.00
5a	31	6	15	48.39
5b	18	2	6	33.33
5c	9	0	3	33.33
5d	9	4	1	11.11
6	20	0	5	25.00
null	1	0	1	100.00

Table A5.4: Samples by context type

	assessed	analysed	barren	% barren
clay layer	4		2	50.00
context cancelled	1	1		
ditch fill	47	2	24	51.06
drain fill	2			
fill hollow	3			
flue fill	10	5	2	20.00
grave fill	4			
gully fill	21	1	11	52.38
hearth/pit fill	2		1	50.00
mineral layer - sand, gravel, mortar	6		2	33.33
oven/stoke pit fill	12	4		
pit fill	49	10	16	32.65
post pit/hole fill	13	2	3	23.08
slot fill	4	1		
spread	1			

Table A5.5: Proportions of taxa by broad ecological category

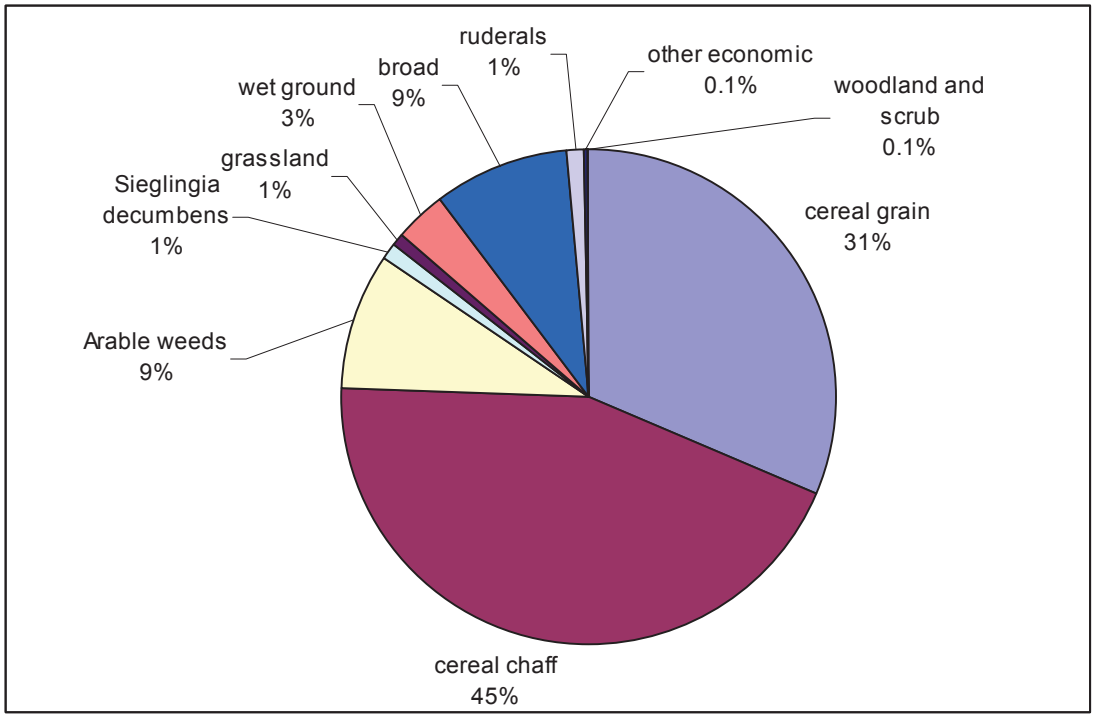

Table A5.6: Cereal grain records

	% of total assemblage	# occurrences	# seeds
Triticum sp(p). grain	20.31	22	4513
Cerealia undiff.	5.58	20	1240
Avena grain	2.07	18	460
Hordeum hulled	1.71	20	380
Hordeum indet.	0.76	9	169
Triticum dicoccon	0.46	1	103
Hordeum naked	0.30	4	67
Triticum aestivum grain	0.11	7	25
Triticum spelta	0.06	2	14
cereal grain	31.37		6971

Table A5.7: Cereal chaff records

	% total assemblage	Occurrence	Sum
Triticum spelta glume	27.36	23	6079
Triticum brittle rachis internode	7.46	14	1658
Avena awn	3.22	14	715
Triticum glume	2.90	13	645
Triticum spelta spikelet	1.94	17	430
Hordeum rachis internode	0.47	15	105
Hordeum 6-row rachis internode	0.35	13	78
Triticum aestivum rachis node	0.16	5	36
Culm nodes	0.08	6	17
Triticum dicoccon spikelet	0.05	2	12
Avena sativa floret base	0.05	3	11
Hordeum basal internode	0.03	6	7
Secale rachis internode	0.02	3	5
Triticum dicoccon glume base	0.01	2	2
cereal chaff	44.11		9800

Table A5.8: Weedy taxa of all kinds

		% taxon's category	sum	% total weed categories
cx	Bromus sp(p). grain	38.56	762	14.13
cx	Gramineae <2mm	34.87	689	12.78
cr	Tripleurospermum maritimum	42.61	487	9.03
cw	Montia font. chond.	47.08	355	6.59
ca	Papaver sp(p).	24.89	288	5.34
ca	Chenopodium album	23.16	268	4.97
cr	Rumex obtusifolius-type	22.05	252	4.67
cx	Compositae undiff.	12.10	239	4.43
ch	Danthonia decumbens	100.00	238	4.41
cr	Chenopodiaceae undiff.	18.11	207	3.84
cw	Carex (lenticular)	26.26	198	3.67
cx	Legume <4mm	8.10	160	2.97
ca	Stellaria media	13.66	158	2.93
ca	Papaver dubium	13.48	156	2.89
ca	Polygonum lapth./persicaria	9.51	110	2.04
cw	Carex (trigonous)	13.00	98	1.82
cw	Juncus	11.01	83	1.54
cr	Raphanus raphanistrum pod frag.	5.86	67	1.24
ca	Fallopia convolvulus	5.70	66	1.22
cg	Plantago lanceolata	53.66	66	1.22
cr	Galium aparine	5.60	64	1.19
cr	Rumex acetosella	3.32	38	0.70
ca	Anthemis cotula	3.03	35	0.65
cg	Gramineae 2-4mm	25.20	31	0.58
ca	Polygonum lapathifolium	2.25	26	0.48
cg	Gramineae >4mm	19.51	24	0.45
cx	Polygonaceae undiff.	1.11	22	0.41
cx	Trifolium sp(p).	1.06	21	0.39
cx	Luzula sp(p).	1.06	21	0.39
cx	Viola sp(p).	1.06	21	0.39
cx	Arrhenatherum elatius - tuber	0.91	18	0.33
cw	Stellaria graminea	1.99	15	0.28
ca	Agrostemma githago	1.21	14	0.26
cr	Veronica chamaedrys	1.22	14	0.26
ca	Thalspi arvense	1.04	12	0.22
ca	Urtica urens	1.04	12	0.22
cx	Cruciferae undiff.	0.61	12	0.22
ca	Polygonum aviculare	0.78	9	0.17
cr	Raphanus raphanistrum	0.52	6	0.11
cx	Galium sp.	0.20	4	0.07
cx	Ranunculus repens-type	0.20	4	0.07
cr	Cirsium sp(p).	0.26	3	0.06
cx	Rosaceae undiff.	0.15	3	0.06
cg	Rumex acetosa	1.63	2	0.04
cr	Potentilla erecta-type	0.17	2	0.04
cr	Brassica sp(p).	0.17	2	0.04
cw	Isolepis setaceus	0.27	2	0.04
cw	Ranunculus flammula	0.27	2	0.04
ca	Spergula arvensis	0.09	1	0.02
ca	Polygonum periscaria	0.09	1	0.02

		% taxon's category	sum	% total weed categories
ca	Fumaria sp(p)	0.09	1	0.02
cr	Lapsana communis	0.09	1	0.02
cw	Lycopus europaeus	0.13	1	0.02

Table A5.9: Percentage data by phase

aa	Phase/period.	1	2	3a	3b	3c	3d	4	5a	5b	5d
cc	Cerealia undiff.	1.65	21.3	8.0	1.63	1.77	1.73	7.09	4.21	8.98	6.08
cc	Hordeum hulled	1.77	2.78	16.0	0.81	1.65	0.9	1.45	1.05	11.4	1.39
cc	Triticum sp(p). grain	14.2	13.4		30.1	9.82	16.1	5.61	35.6	5.19	16.9
cc	Hordeum indet.	8.37	20.3	9.33		0.12	0.07		0.03	2	
cc	Hordeum naked	6.84	2.03						0.07	0.2	
cc	Triticum dicoccon	13.1									
cc	Avena grain	0.25		2.67	1.63	4.45	1.53	2.03	1.32	0.6	2.13
cc	Triticum aestivum grain			1.33		0.98		0.14		0.2	0.03
cc	Triticum spelta							0.51			
cs	Triticum spelta glume	0.13		21.3	15.4	33.6	53.6	44.6	28.1	30.9	31.7
cs	Culm nodes		0.25			0.43		0.25	0.03		
cs	Avena awn			2.67	0.81	0.24	0.1	1.99	0.02	1.4	6.95
cs	Hordeum rachis internode			8.0	1.63	0.61	0.5	0.54	0.23	0.6	0.43
cs	Triticum glume			6.67	4.88	14.5		1.99	1.34	19.2	1.8
cs	Triticum spelta spikelet			1.33		4.7	0.23	4.7	2.17	2	0.81
cs	Hordeum 6-row rachis frag			8.0		0.49	0.13	0.36	0.25	2.59	0.24
cs	Triticum brittle rachis int					8.11	15.4	21.7	4.78	0.6	1.84
cs	Hordeum basal internode					0.06	0.07	0.07	0.02		0.01
cs	Triticum aestivum rachis node					0.06			0.35		0.15
cs	Secale rachis internode					0.24				0.2	
cs	Triticum dicoccon spikelet	1.39						0.04			
cs	Triticum dicoccon glume base	0.13						0.04			
cs	Avena sativa floret base							0.07			0.1
ce	Linum usitatissimum	1.65				0.06					
ct	Corylus avellana nut frag.	0.51	0.51		0.81	0.12		0.04	0.02		
ct	Rubus fruticosus					0.06					
ce	Vicia faba							0.11		0.6	
cx	Legume <4mm	0.13	1.77	1.33	0.81	0.12	0.2	0.07	0.27	1.8	1.25
cx	Gramineae <2mm	8.37		4.0	**6.5**	0.55	0.27	0.36	1.84	2.79	4.99
ca	Chenopodium album	13.3	3.04		**5.69**	1.16	0.2	0.65	0.18		0.97
ca	Polygonum lapth./persicaria	10.6	2.03			0.24	0.1	0.04	0.15		0.01
ca	Fallopia convolvulus	**6.21**	3.04			0.18					0.02
cw	Carex (lenticular)	**6.84**	27.6			0.12			0.53	0.2	
cr	Veronica chamaedrys	0.51	0.25			0.12	0.07	0.07			0.03
ca	Polygonum aviculare	0.25				0.12	0.07	0.04	0.03		
ca	Stellaria media	0.13					0.5		0.23	0.2	1.38
ca	Polygonum lapathifolium	2.66							0.08		
ch	Danthonia decumbens	0.13		1.33	13.8	**6.59**	0.03	0.29	1.25	0.6	0.26
cw	Carex (trigonous)	0.63		1.33	0.81	1.89	0.83	0.61	0.22	0.4	0.03
cw	Montia font. chond.	0.13				0.06	1.5	0.36	4.39		0.38
cx	Arrhenatherum elatius - tuber	0.13			1.63	0.12	0.37				0.02
cg	Gramineae 2-4mm		0.25		0.81		0.03	0.11	0.25		0.11
cr	Rumex obtusifolius-type		1.52	1.33	2.44	0.73	0.07	0.33	0.07	0.6	2.3

aa	Phase/period.	1	2	3a	3b	3c	3d	4	5a	5b	5d
cr	Chenopodiaceae undiff.			1.33		0.3	0.5	0.07	0.45	1.2	1.64
cr	Galium aparine			1.33	0.81	2.13	0.23	0.25	0.12	0.2	0.05
cr	Raphanus raphanistrum pod			1.33	1.63	0.55	0.03	0.29	0.42	0.2	0.22
cg	Plantago lanceolata				0.81	0.37		0.07	0.42	0.2	0.34
cx	Bromus sp(p). grain				0.81	1.89	0.13	2.64	7.43	1	2.2
cw	Juncus				0.81		1.5	0.07	0.1		0.31
cx	Polygonaceae undiff.				2.44		0.5		0.05	0.2	
cr	Tripleurospermum maritimum					0.3	1	0.07	0.7	0.6	4.39
ca	Agrostemma githago						0.17	0.04	0.02		0.08
ca	Anthemis cotula						0.03		0.12	0.4	0.27
cg	Gramineae >4mm						0.37	0.14		0.6	0.06
cx	Ranunculus repens-type							0.04	0.05		
ca	Papaver sp(p).								0.13	0.2	3.02
cw	Ranunculus flammula				1.63						
ca	Spergula arvensis				0.81						
cr	Brassica sp(p).					0.12					
cw	Lycopus europaeus					0.06					
ca	Fumaria sp(p)					0.06					
ct	Stellaria holostea					0.06					
ca	Polygonum periscaria					0.06					
cg	Rumex acetosa					0.06					0.01
cr	Lapsana communis									0.2	
cx	Trifolium sp(p).						0.5			1.2	
cw	Stellaria graminea						0.5				
cw	Isolepis setaceus						0.03				0.01
cx	Rosaceae undiff.									0.6	
cr	Cirsium sp(p).								0.05		
cx	Compositae undiff.								0.53		2.24
cx	Galium sp.							0.04			0.03
wa	Papaver dubium										1.69
cr	Rumex acetosella										0.41
ca	Thalspi arvense										0.13
ca	Urtica urens										0.13
cx	Cruciferae undiff.										0.13
cx	Luzula sp(p).										0.23
cr	Raphanus raphanistrum										0.06
cr	Potentilla erecta-type										0.02
cx	Viola sp(p).								0.3		0.03
	Total seeds	789	395	75	123	1640	3009	2765	5988	501	9234

Table A5.10: Frequency plot length to breadth ratios of Hexaploid wheat grains

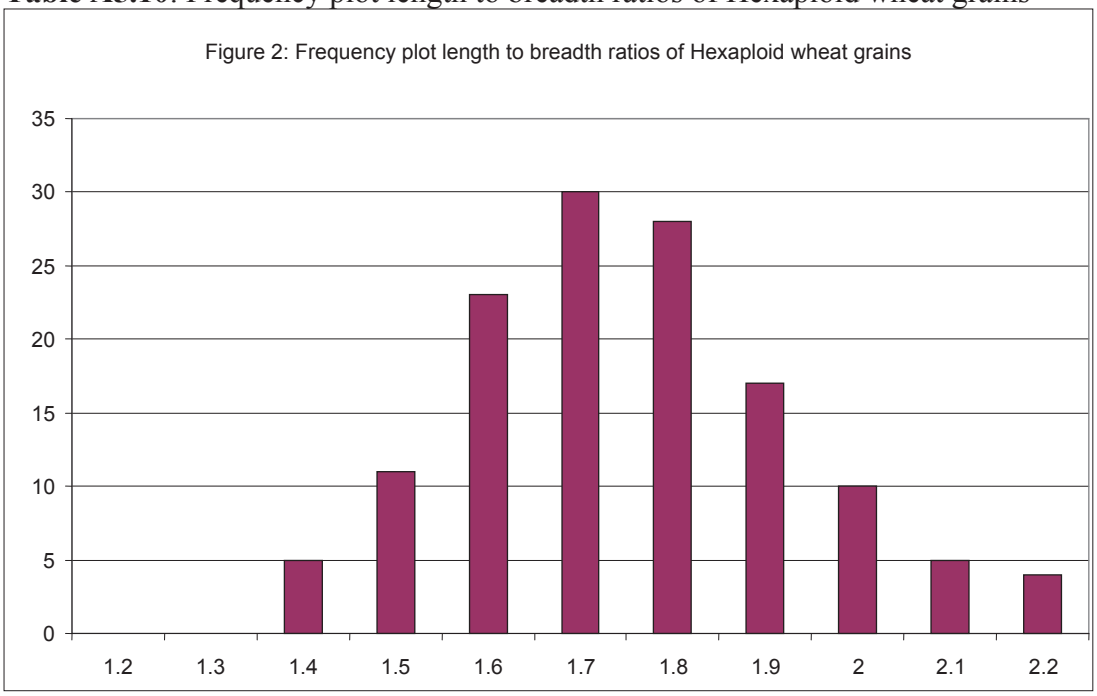

Table A5.11: Spelt glume base width from nine contexts (legend=context number). N=894.

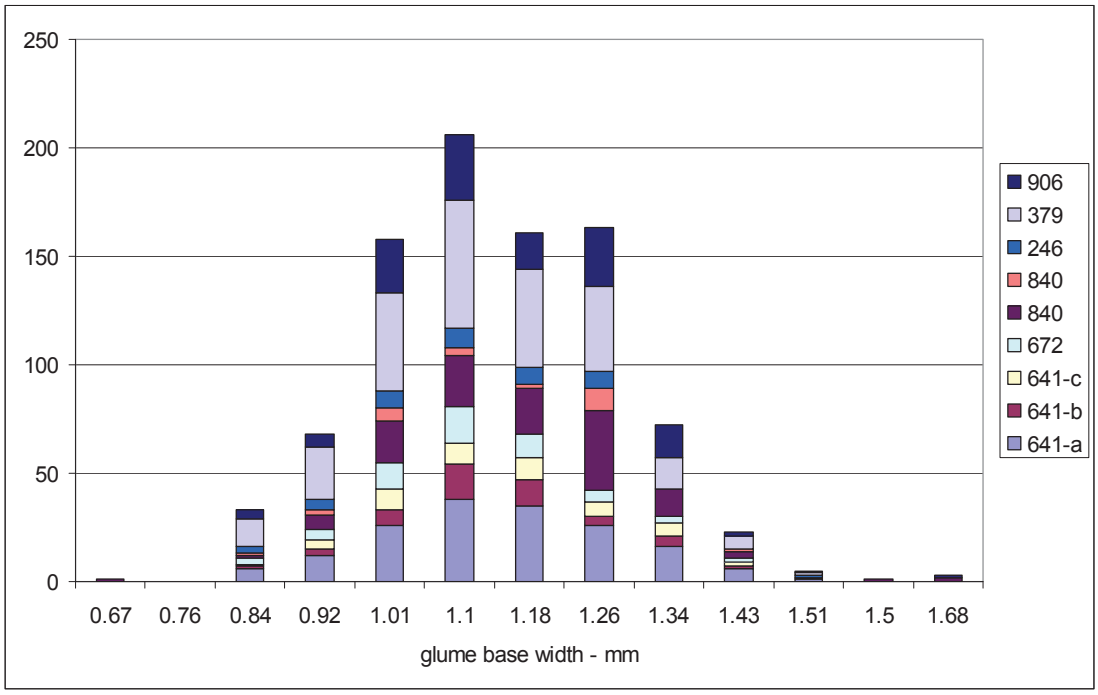

Table A5.12: Barley rachis to grain ratios

Context	Phase	total chaff	total grain	grain to chaff ratio
415	1		134	
417	2		99	
1109	5d	48	60	1.25

Table A5.13: Glume wheat grain to chaff ratios

Context number	Phase/period.	total grain	total chaff	total	grain:glume	context
415	1	215	24	239	8.96	Pit fill
840	3c	80	573	653	0.14	Oven fill
906	3c	59	357	416	0.17	Oven fill
641	3d	483	1626	2109	0.30	Ditch fill
379	4	44	883	927	0.05	Flue fill
516	4	120	605	725	0.20	Flue fill
873	5a	620	314	934	1.97	Pit fill
924	5a	302	266	568	1.14	Pit fill
927	5a	1204	1411	2615	0.85	Pit fill
246	5b	26	270	296	0.10	Ditch fill
672	5d	113	106	219	1.07	Oven fill
994	5d	52	107	159	0.49	Pit fill
1108	5d	474	386	860	1.23	Flue fill
1109	5d	918	2646	3564	0.35	Flue fill

Table A5.14: Proportions of grain to chaff to possible weeds

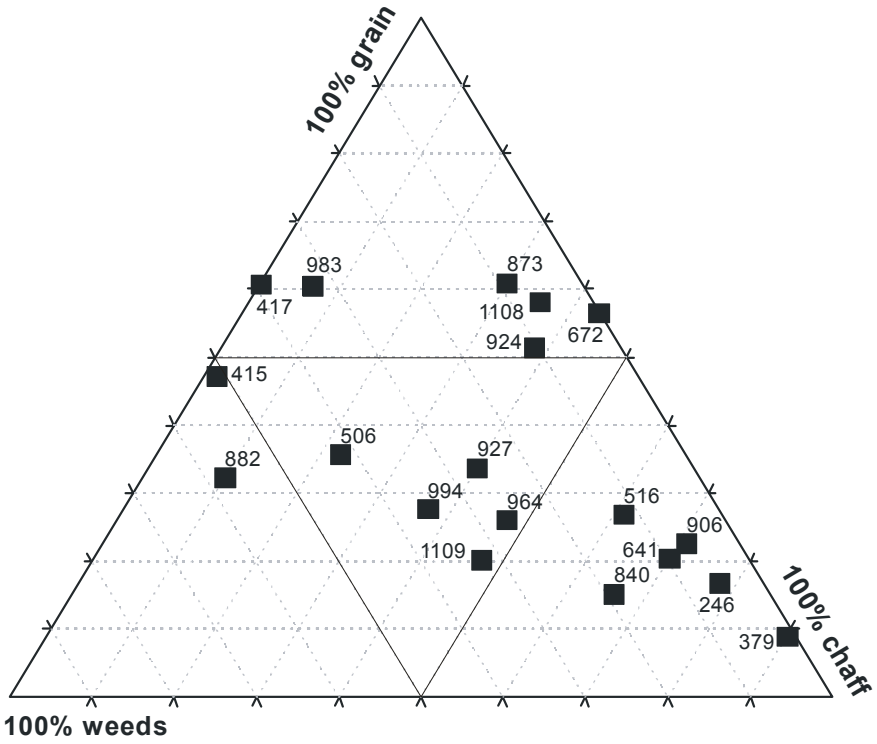

Table A5.15: Wheat to barley grain ratios

Context number	415	417	840	641	516	873	924	927	672	1108	1109
wheat:barley ratio	1.6	0.54	3.24	16.7	7.5	12.4	23.2	602	5.14	13.5	15.3

Table A5.16: Radiocarbon dates for Context 415

Laboratory code	Sample	Material	$\partial^{13}C$ (‰)	Radiocarbon Age (BP)	Calibrated date range (95% confidence)
OxA-17825	Sample 10 [415]	emmer grain	-23.3	3074 ± 26	1420–1260 cal BC
OxA-17863	Sample 11 [415]	naked barley grain	-24.5	3064 ± 31	1420–1250 cal BC

Table A5.17: Phase 6 full analysis data (all from 5 litre sediment samples

	3	54	145	257	347	762	826
Corylus avellana shell	1	2					
Hordeum undiff	3		1			3	1
Hordeum rachis internode	1		1				
Danthonia decumbens		4			1		
Polygonum undiff		1					
Emmer spikelet		1					
Spelt gume base		1					
Cerealia indet			1			1	
Hordeum hulled			1				1
Bromus				1			
2-4mm Gramineae					1		

Table A5.18: Pollen and spores from context [482]

Context	**482**
Volume processed (ml)	1
Charcoal	abundant
Fungal spores	few
Lycopodium spores	79
Trees	
Alnus (Alder)	194
Betula (Birch)	2
Betulaceae (Birch family)	2
Pinaceae (Pine family)	1
Quercus (Oak)	4
Shrubs	
Calluna vulgaris (Heather)	3
Corylus (Hazel)	25
Salix (Willow)	2
Herbs	
Apiaceae (Carrot family)	6
Artemisia sp (Mugwort)	1
Asteraceae (Daisy family)	13
Asteraceae (Lactuceae) (Daisy family)	55
Brassicaceae (Cabbage family)	16
Caryophyllaceae (Pink family)	15
Chenopodium sp(p) (Goosefoot)	19
Cyperaceae (Sedges)	2
Plantago lanceolata (Ribwort Plantain)	5
Poaceae sp (Grasses)	146
cf Poaceae sp (Grasses)	222
Ranunculus-type (Buttercup-type)	1
Rosaceae (Rose family)	2
Succisa pratensis (Devil's Bit Scabious)	2
Spores	
Polypodium vulgare (Common Polypody)	6
Pteridium aquilinum (Bracken)	10
Selaginella selaginoides (Lesser Clubmoss)	1
Sphagnum (Moss)	3
Pteridophyte (monolete) undifferentiated (Ferns)	1
Indeterminate	39
Total pollen and spores counted	798
Total concentration of pollen and spores (grains / ml)	136367

Table A5.19: Radiocarbon dates from Quarry Farm, Ingleby Barwick.

Lab ID	Sample ID	Material	Contextual Information	$\delta^{15}N$	$\delta^{13}C$	C:N	Radiocarbon Age (BP)	Calibrated Date (95% confidence)
GrA-33523	1 [763]	animal bone, dog, right calcaneum	articulated dog in pit [F777]	---	-20.9	---	1630 ±35	cal AD 340-540
GrA-33524	2 [283]	carbonised residue, BA food vessel	pit with 3 BA vessels	---	-28.1	---	3745 ±45	2290-2020 cal BC
GrA-33525	3 [270]	charcoal, *Betula* sp.	pit [F269] sealed by heat-affected cobbles	---	-26.3	---	1565 ±35	cal AD 410-580
GrA-33528	4 [345]	charcoal, *Betula* sp.	pit [F346] sealed by heat-affected cobbles	---	-24.9	---	1530 ±35	cal AD 420-610
GrA-35009	5 [257]	charcoal, *Betula* sp., twig	pit [F256] sealed by heat-affected cobbles	---	-25.4	---	1470 ±35	cal AD 530-650
GrA-35010	6 [347]	charcoal, *Betula* sp., twig	pit [F348] sealed by heat-affected cobbles	---	-23.8	---	6055 ±40	5060-4840 cal BC
OxA-16839	7 [F541] Burial 1	human bone, cranium fragment	partial burial in N-S aligned grave [F541]	12.8	-20.2	3.2	1728 ±28	cal AD 230-400
OxA-16840	9 [F1436] Burial 4	human bone, cranium fragment	burial in N-S aligned grave cutting Roman corn dryer	12.3	-20.5	3.1	1741 ±28	cal AD 230-390
OxA-17825	10 [415]	*Triticum dicoccum* (emmer wheat), single grain	fill of an isolated pit [F416]		-23.3		3074 ± 26	1420−1260 cal BC
OxA-17863	11 [415]	*Hordeum vulgare* var. *nudum* (naked barley), single grain	fill of an isolated pit [F416]		-24.5		3064 ± 31	1420−1250 cal BC

Table A5.20: Probability distributions of dates from Quarry Farm, Ingleby Barwick, Co Durham. Each distribution represents the relative probability that an event occurred at a particular time. These distributions are the result of simple radiocarbon calibration (Stuiver and Reimer 1993)

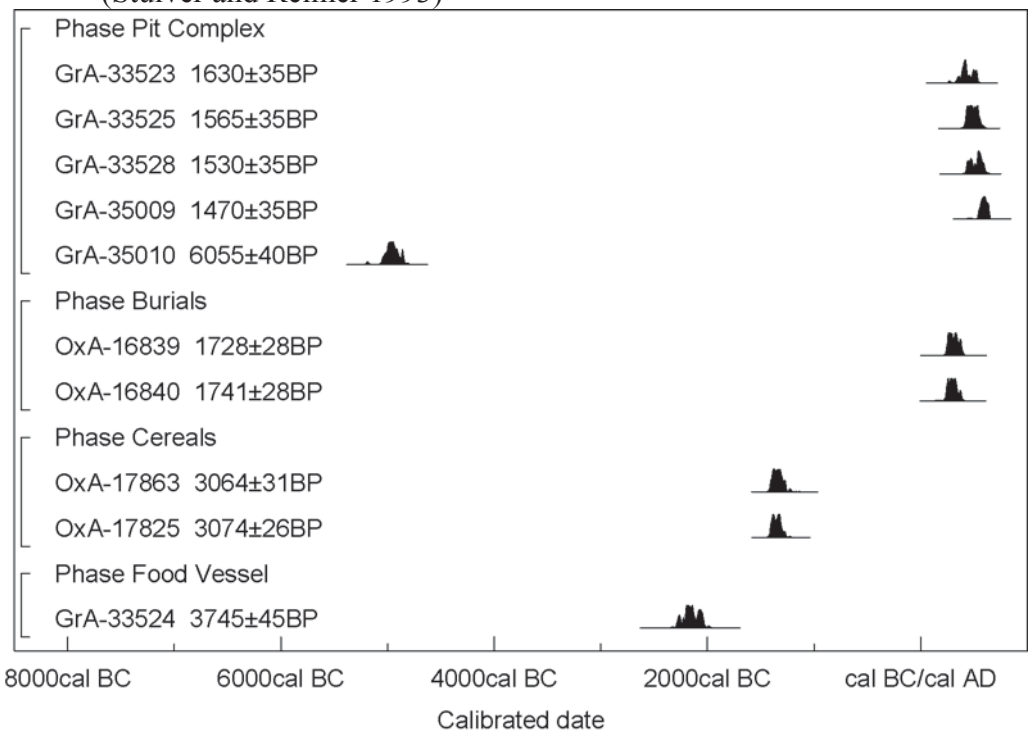

Table A5.21: Chronological model of 'Pit digging' activity at Quarry Farm, Ingleby Barwick, Co Durham. Figures in outline are the probability distributions of the simple calibrated dates, following Stuiver and Reimer (1993), while those in solid black are the *posterior density estimates* derived from the Bayesian modelling. The brackets down the left side and the OxCal keywords define the model exactly