

**Changing plant subsistence in
Prehistoric Southwest Britain:
archaeobotanical and anthracological
evidence from the South Cadbury
Environs Project**

Volume II

Danielle Elizabeth de Carle

**Thesis submitted in fulfilment of the Degree of Doctor of
Philosophy**

Department of Archaeology, University of Sheffield

January 2014

1 Introduction: Tables and Figures

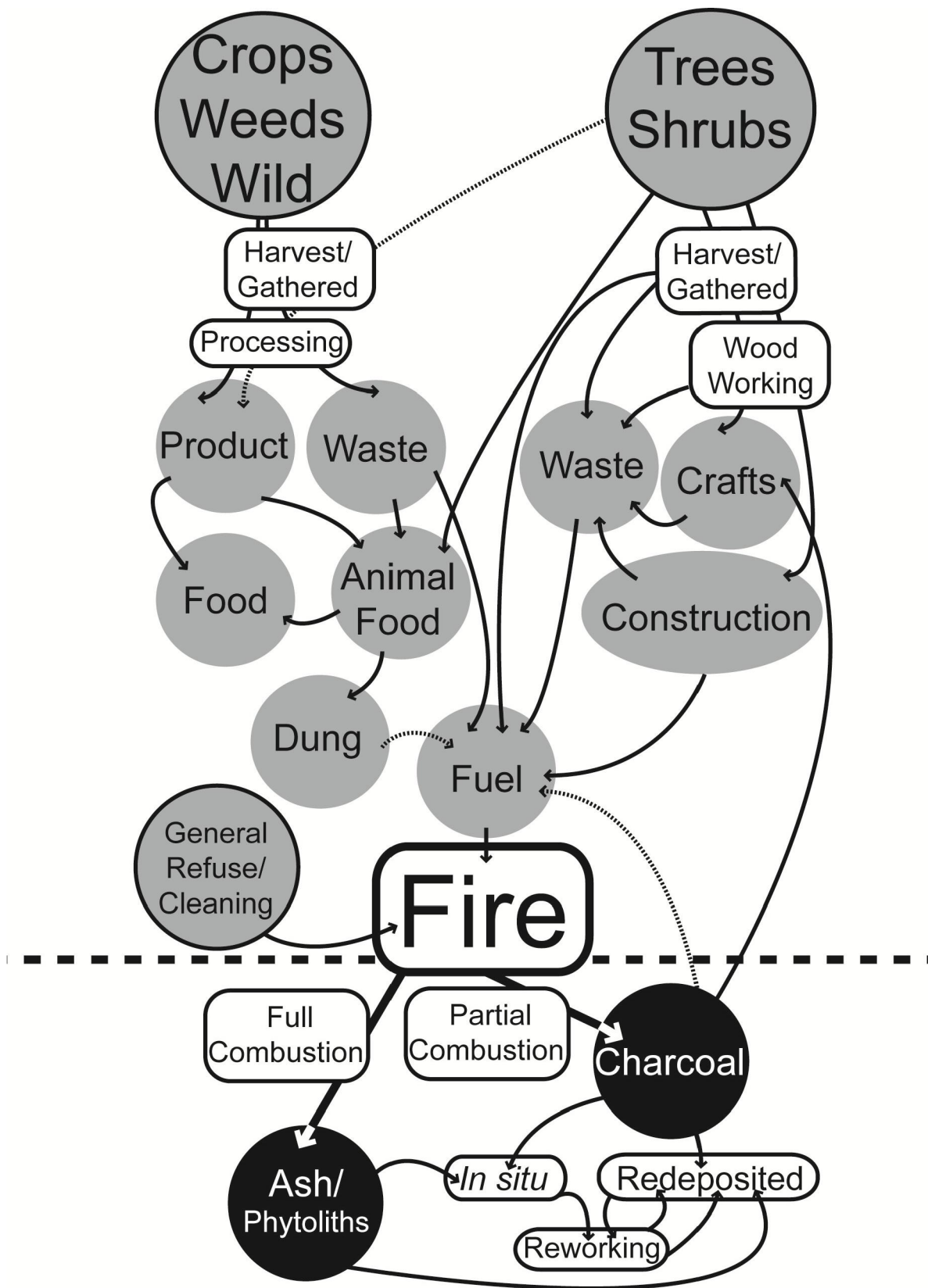


Figure 1.1 Taphonomy of charred archaeobotanical plant remains.

Simplified Crop Processing Sequence

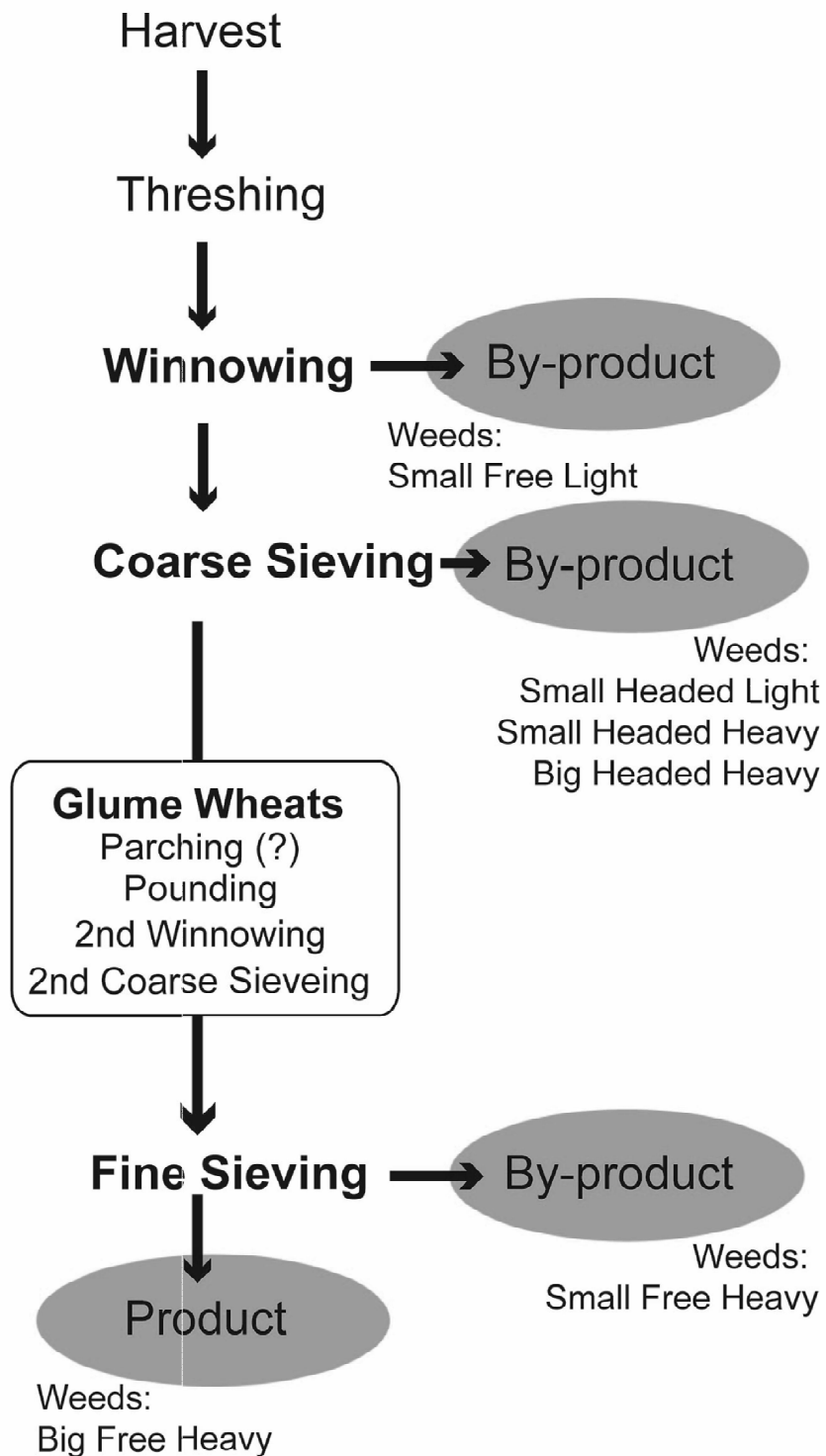


Figure 1.2 Simplified crop processing sequence (after Hilman 1984, G. Jones 1984 & van der Veen 1992).

2 Study area background: Tables and Figures

Table 2.1 Summary of activity on the South Cadbury Hill (after Alcock 1995, Barrett et al 2000, Tabor 2008)

<p>Neolithic and Early Bronze Age</p>	<p>Early Neolithic: Occupation debris. The terrace southwest of lower hilltop revealed gullies and posts of rectangular buildings, posts suggesting some fencing of hilltop. A larger building on most exposed point of hill associated with a group of pits (hazelnut shell dated to mid 4th Millennium). Development of a lynchet suggests ploughing on the plateau. Route ways predating the rampart banks.</p> <p>Late Neolithic and Early Bronze Age: Largely not addressed, but there are records of a single flanged axe.</p>
<p>Early Cadbury: foundation of settlement to 350 BC Ceramic phases 4,5,6</p>	<p>Late Bronze Age: Unenclosed (?) settlement on the hill, house, ovens and metalworking, plough soils</p> <p>Early Iron Age: The first stone/wood ramparts and expansion of settlement in the interior circular and rectangular buildings. End of ploughing on the hill (?).</p>
<p>Middle Cadbury: 350 BC to 100 AD Ceramic phases 7,8</p>	<p>Middle/Late Iron Ages: Distinctive change in the pottery forms. The most intensive use of the Hillfort was the Middle Iron Age. Short lived period where structures were built immediately behind the ramparts, and there is extensive use of the interior. Then a much longer pottery phase related to many circular houses, most of the pits and a 'rubbish layer'. This is when rear extensions were added to the rampart and the beginning construction of multiplex walls.</p>

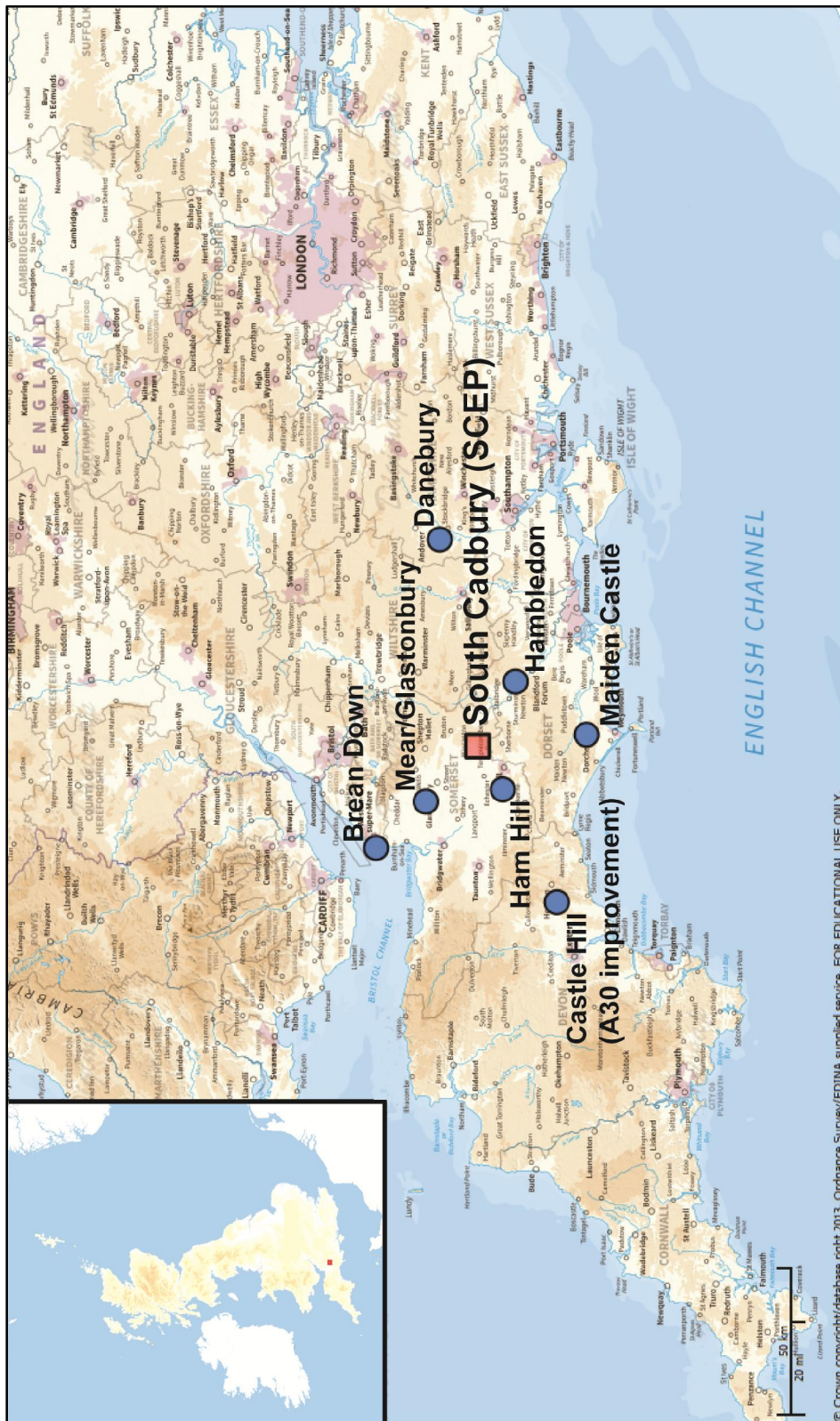
Table 2.1 cont.

<p>Late Cadbury AD 50 onwards Ceramic phase 9,10 Table 2.2 cont.</p>	<p>Ultimate (very late/ Romanising) Iron Age: Phase when the multiplex wall comes into use, this is overlain by the so called 'massacre' event, the site then appears to be abandoned/ cleansed, followed by new gateway construction phases. Romano-British Period: The activity is represented by smaller but distinctive pottery assemblage dating to around 43 and 70 AD recovered mainly from a timber military building, the southwest gate, an oven on the north slope and the porched shrine.</p>
<p>Early Medieval (Alcock 1995)</p>	<p>Post -Roman (Saxon) periods: Includes episodes of re-fortification along with wine jars - high status Mediterranean imports and rectangular wooden buildings. In the 11th Century AD the hill was again selected as a defensible site for a fortified town and mint</p>

Table 2.3 Approximate dates for phases used within this thesis

Early Neolithic (EN):	4000 BC – 3200 BC
Late Neolithic (LN):	3200 BC – 2300 BC
Early Bronze Age (EBA):	2300 BC – 1700 BC
Middle Bronze Age (MBA):	1700 BC – 1100 BC
Late Bronze Age (LBA):	1100 BC – 800 BC
Early Iron Age (EIA):	800 BC – 600BC
Middle Iron Age (MIA):	600 BC – 100 BC
Late Iron Age (LIA):	100 BC – AD 100
Romano-British (RB):	AD 100 – AD 500
Saxon (SAX):	AD 500 – AD1066

Figure 2.1 Location map of South Cadbury (SCEP) region and other key sites in the text



© Crown copyright/database right. 2013. Ordnance Survey/EDINA. supplied services. FOR EDUCATIONAL USE ONLY.

Geological Map of the SCEP Study Region

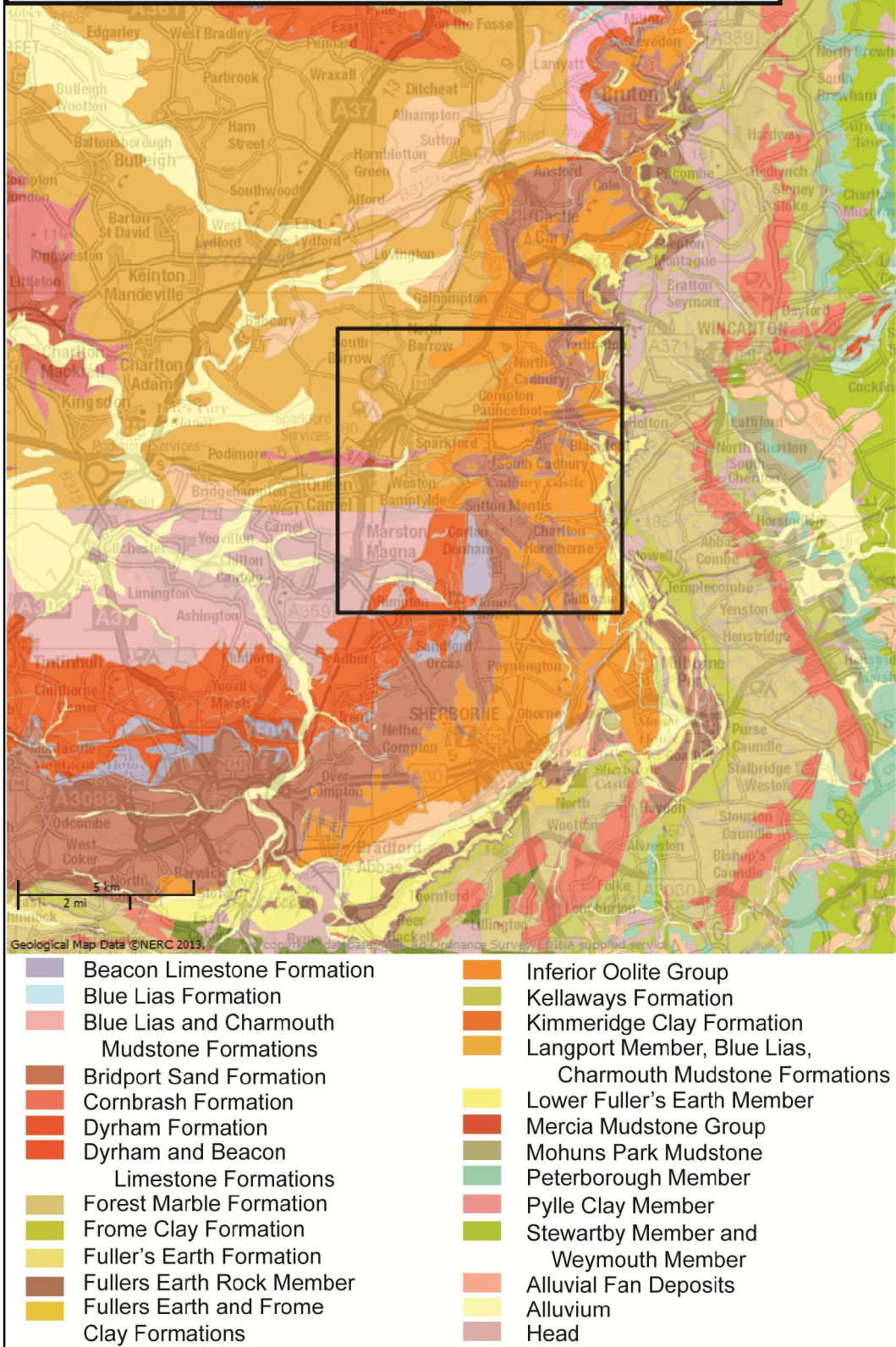


Figure 2.2 Underlying geology of the South Cadbury (SCEP) region and surroundings

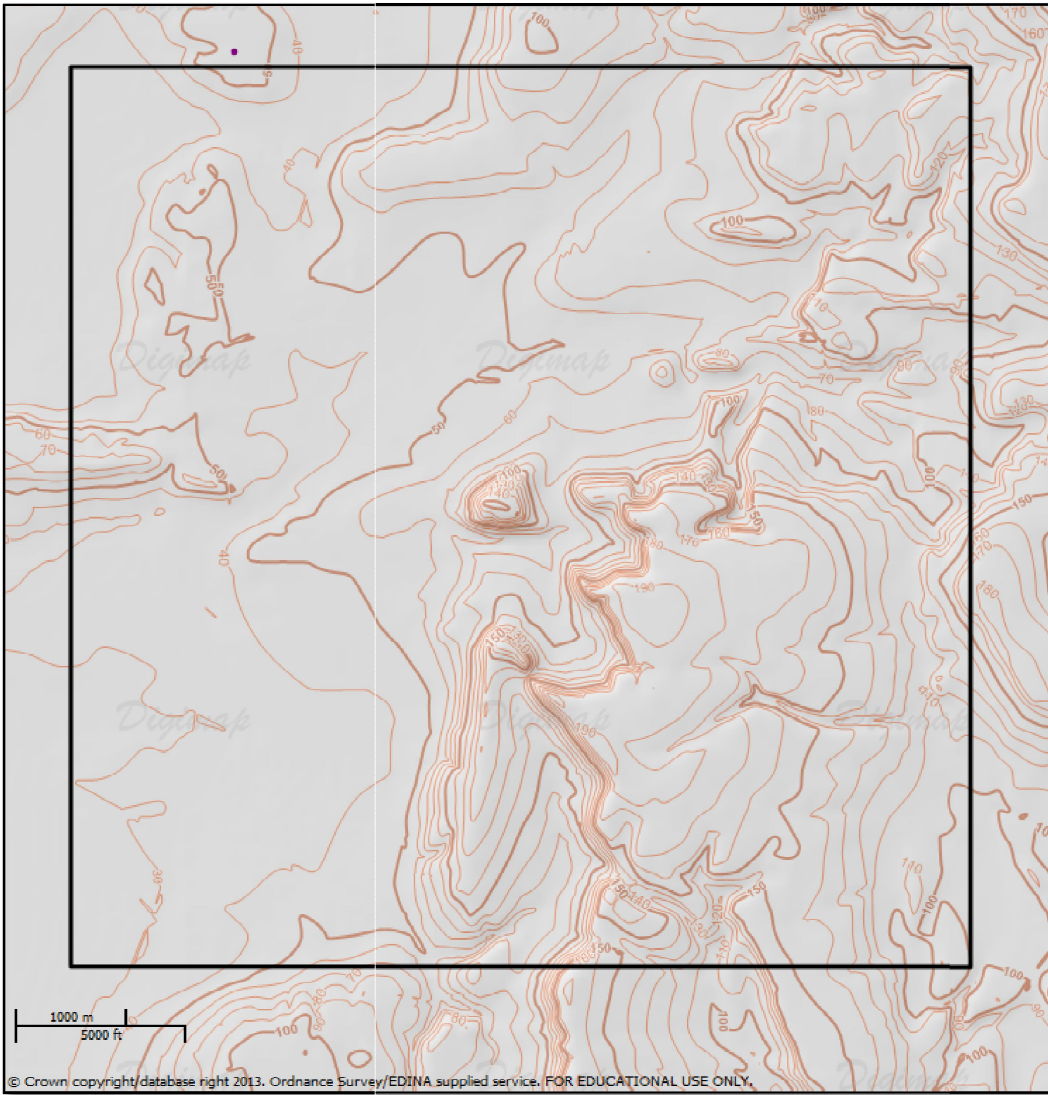


Figure 2.3 Topography of the South Cadbury (SCEP) study region

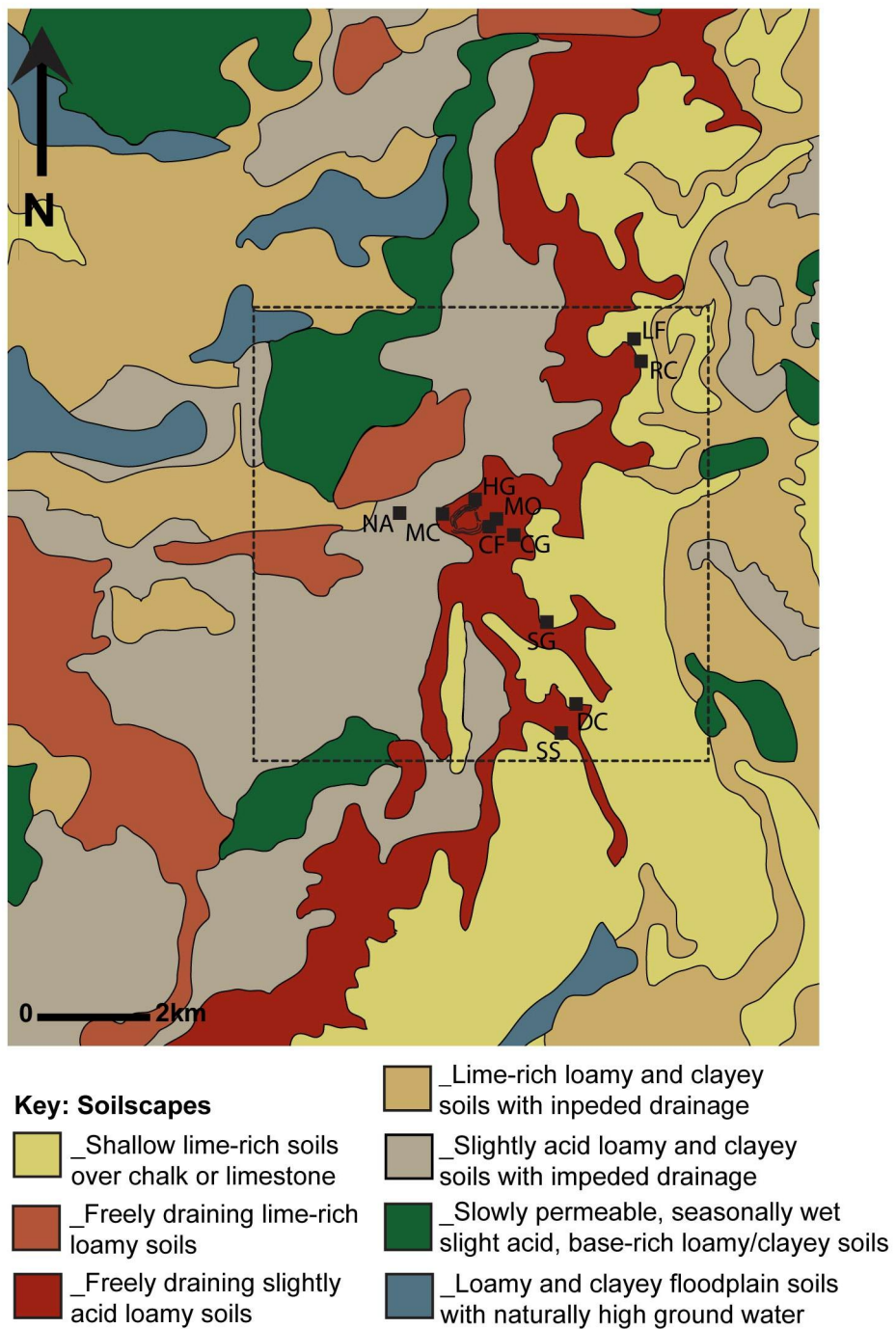


Figure 2.4 Simplified soil map of the South Cadbury (SCEP) region and surroundings



Figure 2.5 View of South Cadbury Hillfort from the south (SCEP Archive)



Figure 2.6 View from the hillfort interior, over the ramparts and Somerset Levels towards Glastonbury Tor (DdC 2010)

3. General site descriptions: tables and figures

Table 3.1 Locality 1, Nine Acres, sample details: period code; context code/description; feature number; co-ordinates; dating or notes.

Nine Acres: Romano-British Samples				
RB	NA/007 (Ash deposit)	-	61640,25300	Test Pit 90

Table 3.2 Locality 2, Central, Milsoms Corner, sample details: period code; context code/description; feature number; co-ordinates; dating or notes.

Milsoms Corner: Early Neolithic Samples				
EN	MC/1706 (Hearth pit fill)	F293	8,20	¹⁴ C: 3641-3385BC
EN	MC/1839 (Pit fill)	F619	14,12	
EN	MC/1886 (Pit fill) MC/1888 (Pit fill) MC/1889(Pit fill)	F652	- 12,11 12,11	¹⁴ C: 3640-3384BC ¹⁴ C: 3643-3518BC ¹⁴ C: 3653-3524BC
EN	MC/2285 (Pit fill) MC/2294 (Posthole) MC/2295 (Pit fill) MC/2347 (Pit fill)	F726	15,14 15,14 15,15 14,14-15,14	
EN	MC/2362 (Pit fill)	F737	19,12	¹⁴ C: 3631- 3373BC
Milsoms Corner: Bronze Age Samples				
MBA- LBA	MC/1068 (Ditch fill: Middle upper)	F001	20,4 - 24,11	¹⁴ C: 347-55 BC Intrusive Iron Age posthole cutting into upper ditch fills
LBA	MC/1145 (Vessel pit) MC/1150 (Vessel contents)	F082	23,11 23,12	¹⁴ C: 1083-912 BC
LBA	MC/1168 (Ditch fill middle-upper)	F097	23,11	
LBA	MC/1301 (Posthole)	F150	19,7	
LBA	MC/1403 (Burnt mound)	F239	24,8	
LBA	MC/1413 (Posthole)	F250	16,11	
LBA	MC/2221 (Industrial deposit)	F679	17,10	
Milsoms Corner: Early Iron Age Samples				
EIA	MC/1018 (Shallow scoop fill)	F010	7,19	industrial area
EIA	MC/1202 (Posthole)	F121	6,15	
EIA	MC/1225 (Industrial deposit)		16,14	
EIA	MC/1249 (Posthole)	F140	10,18	
EIA	MC/1295 (Posthole)	F161	10,16	
EIA	MC/1336 (Posthole)	F185	5,15	
EIA	MC/1361 (Posthole)	F204	7,13	
EIA	MC/1376 (Gully)	F228	14,10-14,11	
EIA	MC/1827 (Pit fill)	F614	14,13	
EIA	MC/1867 (General layer)		12,19	
EIA	MC/2259 (Hearth)	F695	17,14	
Milsoms Corner: Middle Iron Age Samples				
EIA- MIA	MC/1106 (Posthole)	F060	22,02	
MIA	MC/1203 (Posthole)	F120	7,14	
MIA	MC/1278 (Pit fill: vessel)	F156	16,14	
MIA	MC/1319 (Posthole)	F173	6,14	
MIA	MC/1405 (Posthole)	F241	7,7	
MIA	MC/1429 (Gully)	F258	16,14	
MIA	MC/1726 (Ditch fill)	F061	1,18	

Table 3.3 Locality 2, Central, Homeground, sample details: period code; context code/description; feature number; co-ordinates; dating or notes.

Homeground: Bronze Age Samples				
MBA	HGTP/004 (Burnt mound) HGTP/006 (Depression fill)	F001	362800,125500 362800,125500	Testpit 38
Homeground: Late/(Very Late) Iron Age Samples				
LIA	HG1/008			¹⁴ C: 335-46BC
LIA	HG1/014 (Floor fill)			¹⁴ C: 1664AD Intrusive?
LIA	HG1/016 (Upper gully fill) HG1/019a (Gully fill) HG1/019b (Gully fill) HG1/023 (Lower gully fill)	F003	363002,125583	
LIA	HG1/025 (Gully fill)	F009		
LIA	HG1/045 (Ditch fill)			
VLIA	HG1/006a (Floor/abandonmen level) HG1/006b (Floor/abandonment level) HG1/006c (Floor/abandonment level) HG1/006d (Floor/abandonment level)	F005		¹⁴ C: 570-653AD intrusive?
VLIA	HG2/003 (Ditch fill) HG2/010 (Ditch fill)	F002		

Table 3.4 Locality 2, Central, Castle Farm, sample details: period code; context code/description; feature number; co-ordinates; dating or notes.

Castle Farm: Romano-British Samples				
RB	CF/1004 (Oven fill)	F002	363227,125395	Pottery: 4th AD
RB	CF/1036 (Midden deposit)	-	363230,125391	Pottery: 3-4th AD
RB	CF/1054 (Midden deposit)	-	363222,125382	Pottery: 3-4th AD
RB	CF/1095 (Ditch fill) CF/1107 (Ditch fill: mid-lower)	F019	363227,125388	Pottery: 3 rd AD Pottery: 2-3rd AD

Table 3.5 Locality 2, Central, The Moor, sample details: period code; context code/description; feature number; co-ordinates; dating or notes.

The Moor: Middle Iron Age Samples				
LIA	MO2/011 (ditch deposit: upper)	F005	28,29	¹⁴ C: 901-1024AD Intrusive?
MIA	MO2/012 (Ditch deposit: upper) MO2/013 (Ditch deposit: upper) MO2/017 (Ditch deposit: upper) MO2/020 (Ditch deposit: lower)	F005	28,9 28,10 28,8 28,10	¹⁴ C: 360-184BC ¹⁴ C: 361-199BC ¹⁴ C: 361-199BC
MIA	MO2/025 (Pit fill)	F007	27,8	
MIA	MO3/014 (Ditch deposit: upper) MO3/027 (Ditch deposit: Lower)	F001	27,18 27,18	
The Moor: Middle to Late Iron Age Samples				
MIA- LIA	MO1/014 (Ditch silt: upper middle) MO1/021 (Ditch silt: lower)	F008	16,13 16,14	
MIA- LIA	MO3/009 (Layer)	-	27,19	
MIA- LIA	MO3/015 (Posthole)	F002	28,19	
The Moor: Romano-British Samples				
RB	MO1/022 (Ditch silt: lower) MO1/023 (Ditch silt: middle)	F009	17,14 17,14	
The Moor: Saxon? Samples				
SAX	MO1/006 (Cultivation horizon)	-	18,14	
SAX	MO1/008 (Plough mark fill)	F002	19,14	
SAX	MO2/006 (Cultivation horizon)	-	25,8	

Table 3.6 Locality 2, Central, Crissells Green, sample details: period code; context code/description; feature number; co-ordinates; dating or notes.

Crissells Green: Middle Bronze Age Samples				
MBA EBA- MBA	CG/016 (Ring ditch fill) CG/018 (Ring ditch fill: mid-lower)	F004	12,93 16,91	
MBA	CG/020 (Scoop cutting ditch fill)	F009	14,92	
MBA	CG/024 (Posthole spread)	F007	13,92	
Crissells Green: Middle to Late Bronze Age Samples				
MBA- LBA	CG/008 (Scoop cutting ditch fill)	F001	16,92	
MBA- LBA	CG/012 (Scoop fill)	F003	18,92	

Table 3.7 Locality 3, Sigwells, Bronze Age: period code; context code/description; feature number; co-ordinates; dating or notes.

Sigwells Trench 16: Bronze Age Samples				
LBA	SG16/006 (Silt over ringditch) SG16/007 (Ditch fill)	F002	1,1	¹⁴ C: 1398-1121BC Ring ditch
Sigwells Bronze Age Enclosure (Tr10/19): Middle Bronze Age Samples				
MBA	SG10/051 (Pit fill: upper) SG10/053 (Pit fill: upper) SG10/054 (Pit fill middle) SG10/060 (Pit fill: lower)	F013	13,4 14,4	Cooking pit feature ¹⁴ C: 1498-1311BC ¹⁴ C: 1506-1415BC ¹⁴ C: 1492-1301BC
MBA	SG19/052 (Scope: rapid single fill)	F013	04,16	
MBA	SG19/089 (Post trench fill)	F019	06-07,14-15	
MBA	SG19/096 (Posthole fill) SG19/104 (Posthole fill)	F043	4,17 4,18	¹⁴ C: 1111-917BC
MBA	SG19/132 (Posthole fill)	F036	05-06,17-18	closure deposit
MBA	SG19/151 (Ditch fill: enclosure)	F030	16-18,12	
MBA-LBA	SG19/048 (Scoop fill)	F011	1-2,21	Wilburton sword mould C14: 1222-1047BC

Table 3.8 Locality 3, Sigwells, West (Tr12-14), sample details: period code; context code/description; feature number; co-ordinates; dating or notes

Sigwells West (Tr12-14): Middle Iron Age Samples				
MIA	SG12/101 (Pit fill: lower middle)	F002		¹⁴ C: 341-203BC
MIA	SG12/174 (Pit fill: lower)	F016		
MIA	SG12/211 (Pit fill: lower silt)	F052		¹⁴ C: 366-203BC
MIA	SG12/229 (Pit fill: lower)	F017		
MIA	SG12/238 (Pit fill: middle)	F049		
	SG12/243 (Pit fill: lower)			
MIA	SG13/270 (Pit fill: lower middle)	F058		
MIA	SG12/258 (Pit fill: lower)	F045	4,2	
MIA	SG14/060	F002	1,1	
Sigwells West (Tr12-14): Middle-Late Iron Age Samples				
LIA	SG14/003 (Pit fill: upper)	F004	4,4	
MIA	SG14/042 (Pit fill: upper)			
	SG14/044 (Pit fill: upper)		4,3	
	SG14/058 (Pit fill: Lower middle)		4,4	
MIA-LIA	SG13/118 (Pit fill: lower)	F005	5,7	Shallow pit
MIA-LIA	SG12/220 (Pit fill: upper)	F017		
MIA-LIA	SG13/187 (Pit fill: basal)	F024	7,4	
MIA-LIA	SG13/153 (Pit fill: middle)	F026	14,17	
MIA-LIA	SG12/261 (Pit fill: lower)	F057	4,6	
MIA-LIA	SG13/263 (Pit fill: ????)	F058	17,18	
MIA-LIA	SG12/165 (Ditch fill: basal)	F003	8,8	enclosure ditch ¹⁴ C: 363-202BC
MIA-LIA	SG12/146 (Ditch fill: basal)	F015	7,7	enclosure ditch ¹⁴ C: 1896-1904AD intrusive?
Sigwells West (Tr12-14): Late Iron Age Samples				
LIA	SG12/292 (Pit fill: lower)	F004	2,-1	
LIA	SG12/126 (Pit fill: upper)	F044		
LIA	SG12/207 (Pit fill: lower)	F046		Human burial
LIA	SG13/225 (Pit fill: upper)	F031	18,19	
	SG13/265 (Pit fill: middle)		18,17	
LIA	SG14/056 (Pit fill)	F001	2,0	
LIA	SG14/032 (Pit fill: middle)	F003	1,3	
	SG14/038 (Pit fill: basal)		1,3	
LIA	SG14/048 (Pit fill: upper middle)	F010	1,4	
LIA	SG14/050 (Gully/timbers)	F007	4,2	

Table 3.9 Locality 3, Sigwells, South Tr20-23 and Romano-British Tr7, sample details: period code; context code/description; feature number; co-ordinates; dating or notes

Sigwells South (Tr21-23): Late Iron Age Samples				
LIA	SG21/017 (deposit)		0,17	Under metallated track
LIA	SG22/024 (Ditch fill: upper middle)		0,10	
LIA	SG23/034 (Pit fill: middle) SG23/037 (Pit fill: middle)	F001	10,40 9,40	
Sigwells South (Tr7,20, 21): Romano-British Samples				
RB	SG20/011 (Scoop)		1,6	
RB	SG21/005 (Scoop fill: upper)		96,31	Pottery: 2-3 rd AD
RB	SG7/043 (Hearth)	F715		
RB	SG7/046 (Pit fill)	F721		

Table 3.10 Locality 4, Sheepslait, sample details: period code; context code/description; feature number; co-ordinates; dating or notes

Sheepslait: Late Bronze Age/Early Iron Age Samples				
LBA	SS/231 (Ditch fill: 1st cut)	F096	94,67	Ringwork south terminal
LBA-EIA	SSTP/007 (Ditch fill: upper) =SS/046		64591,21473	Test Pit 237: Ringwork terminal; rapid fill
LBA-EIA	SS/003 (Palisade trench)	F001	81,72	
LBA-EIA	SS/024 (Posthole) SS/125 (Posthole: basal)	F017	76,68	
LBA-EIA	SS/138 (gully)	F015	82,71	
LBA-EIA	SS/175 (Posthole)	F071	67,70	
LBA-EIA	SS/180 (Ditch fill)	F037	66,71	
EIA	SS/141 (Ditch fill)	F025	90,75	¹⁴ C: 752-412BC
Sheepslait: Middle and Late Iron Age Samples				
MIA	SS/042 (Hearth)	F105	63,69	
MIA	SS/059 (Pit fill: upper)	F034	70,75	
MIA	SS/128 (Pit fill: lower/middle)	F039	62,70	
MIA	SS/188 (Pit fill: middle)	F068	59,71	
MIA	SS/192 (Pit fill: upper)	F082	63,69	
MIA	SS/248 (Pit fill: middle) SS/285 (Pit fill:)	F073	65,70 65,71	lens of charcoal
MIA	SS/259 (Posthole)	F010	65,73	
MIA-LIA MIA	SS/072 (Pit fill: upper) SS/127 (Pit fill: lower)	F007	75,75 75,74	
LIA MIA	SS/276 (Floor: levelling deposit) SS/182 (Hearth/floor)	F106	64,76 64,70	
MIA-LIA	SS/011 (Posthole)	F009	68,74	
MIA-LIA	SS/207 (Pit fill: basal)	F065	58,70	
MIA-LIA	SS/279 (Pit fill: upper)	F011	58,72	
LIA	SS/166 (Pit fill: lower/middle)	F065	58,70	Rapid fill

Table 3.11 Locality 4, Down Close, sample details: period code; context 14

Down Close: Early Bronze Age Samples				
EBA	DC/005 (Ditch silt:upper)		6480,2190	Round barrow

Table 3.12 Locality 5, Woolston, all sites, sample details: period code; context code/description; feature number; co-ordinates; dating or notes

Woolston: Middle Bronze Age Samples				
MBA	LF1/004 (floor/abandonment level)		65729,28246	¹⁴ C: 1367-1056BC TP287
Woolston: Romano-British Samples				
RB	LF3/14 (Posthole)	F002	65940,27848	TP299
RB	LF3/16 (General layer)		65940,27846	TP299
RB	RC/039 (Ditch fill: middle) RC/049(Ditch fill: upper)		65808 27806	TP341

Table 3.13 Summary of radiocarbon dates for charred plant remains associated with SCEP ‘problem’ dates highlighted in grey.
All Dates calibrated using OxCal 4.2 and the IntCal13 curve (Bronk Ramsey 2009, 2013, Reimer et al 2013)

	Sample information	Dated remains	Lab no.	Date BP	±	Date Cal. (2 Sigma)
MC/1706	Milsoms Corner TR1 1706	Hazelnut shell	OxA-26984	4773	30	3641-3385 BC
MC/1888	Milsoms Corner TR1 1888	Hazelnut shell	OxA-26985	4809	31	3653-3524 BC
MC/1889	Milsoms Corner TR1 1889	Hazelnut shell	OxA-26986	4780	31	3643-3518 BC
MC/1886	Milsoms Corner TR1 1886	Hazelnut shell	OxA-26987	4762	30	3640-3384 BC
MC/2365	Milsoms Corner TR1 2365	Hazelnut shell - (not in thesis)	OxA-26988	4766	30	3640-3384 BC
MC/2362	Milsoms Corner TR1 2362	Hazelnut shell	OxA-26989	4709	30	3631- 3373 BC
MC/1068	Milsoms Corner TR1 1068	Cereal grains: Emmer	OxA-23713	2128	26	347-55 BC
MC/1145	Milsoms Corner TR1 1145	Cereal grains: Wheat indet.	OxA-23714	2835	27	1083-912 BC
HG1/006	Homeground TR1 006 04,85	Cereal grains: Breadwheat type	UBA-21922	1441	28	570-653 AD
HG1/008	Homeground TR1 008, 02,83	Cereal grains: Barley	UBA-21923	2110	31	335-46 BC
HG1/014	Homeground TR1 014, 04,83	Cereal grains: Breadwheat type	UBA-21924	164	27	1664 AD
MO2/011	The Moor TR2 011	Cereal grains: Barley	OxA-23724	1057	23	901-1024 AD
MO2/012	The Moor TR2 012	Single Cereal grain: Emmer	OxA-23725	2190	25	360-184 BC
MO2/013	The Moor TR2 013	Cereal grains: Barley	OxA-23723	2202	25	361-199 BC
MO2/020	The Moor TR2 020	Cereal grains: Barley, Spelt	OxA-23722	2201	24	361-199 BC
SG19/096	Sigwells TR19 096 (F043)	Flax seeds (25)	UBA-21919	2842	34	1111-917 BC
SG19/048	Sigwells TR19 048	Cereal grains: Emmer	OxA-23716	2936	26	1222-1047 BC
SG16/020	Sigwells TR16 020	Cereal grains: Barley	UBA-21918	3013	45	1398-1121 BC
SG10/053	Sigwells TR10 053	Cereal grains: Barley, indet.	OxA-23710	3145	28	1498-1311 BC
SG10/054	Sigwells TR10 054	Cereal grains: Barley	OxA-23711	3190	28	1506-1415 BC
SG10/060	Sigwells TR10 060	Cereal grains: Barley	OxA-23712	3128	27	1492-1301 BC
SG12/101	Sigwells TR12 101	Single Cereal grain: Barley	OxA-23726	2122	25	341-54 BC

Table 3.13 Cont.

	Sample information	Dated remains	Lab no.	Date BP	\pm	Date Cal. (2 Sigma)
SG12/146	Sigwells TR12 146	Cereal grains: Breadwheat type	OxA-23727	1.176	0	1896-1904 AD
SG12/165	Sigwells Tr12 165	Single Cereal grain: Emmer	OxA-23729	2207	25	363-202 BC
SG12/211	Sigwells Tr12 211	Cereal grains: Barley	OxA-23728	2215	25	366-203 BC
SS/141	Sheepsloit TR1 141	Cereal grains: Barley	OxA-23718	2450	25	752-412 BC
LF1/004	Lady Field 1TP 004	Cereal grains: Barley	UBA-21920	2974	34	1367-1056 BC

Table 3.14 Summary of other SCEP Radiocarbon dates not from charred plant remains as above

	Sample information	Dated remains	Lab no.	Date BP	\pm	Date Cal. (2 Sigma)
MC/1499	Milsoms Corner TR1 1499	Bone: cattle	OxA-23502	3094	27	1425-1285 BC
CG20022	Crissels Green 2002 TR1	Human Bone: Mandible	SUERC-29041	3205	30	1530-1417 BC
CG20021	Crissels Green 2002 TR1	Bone: cattle	SUERC-29040	3300	30	1643-1504 BC
CG20023	Crissels Green 2002 TR1	Human Bone: Femur	SUERC-29042	3050	30	1401-1226 BC
SG12/167	Sigwells TR12 167	Bone: Sheep/goat	OxA-23734	2003	24	50 BC- 57 AD
SG12/186	Sigwells TR12 186	Bone: Sheep/goat	OxA-23733	2053	25	165 BC- 5 AD
SG12/050	Sigwells TR12 050	Bone: horse	OxA-23731	2064	25	168-1 BC
SG12/065	Sigwells TR12 065	Bone: pig	OxA-23732	2075	27	178-2 BC
SG12/050	Sigwells TR12 050	Bone: horse	OxA-23730	2104	25	194-52 BC
SG12/078	Sigwells TR12 078	Bone: cattle	OxA-23735	2260	24	396-210 BC
SG8/025	Sigwells TR8 025	Bone: cattle	OxA-23501	3141	27	1496-1307 BC
SG12/109	Sigwells TR12 109	Bone: cattle	OxA-23503	3186	26	1503-1417 BC
SS/156	Sheepsloit TR1 156	Bone: Sheep/goat	OxA-23719	2493	27	776-520 BC
SS/160	Sheepsloit TR1 160	Bone: cattle	OxA-23720	2512	27	791-541 BC
SS/075	Sheepsloit TR1 075	Bone: cattle	OxA-23717	2534	25	796-549 BC
SS/230	Sheepsloit TR1 230	Antler: red deer	OxA-23721	2786	29	1007-846 BC

Table 3.15 Summary distribution of archaeobotanical samples included in the following thesis, from across the SCEP sites, by period

	Period	Early Neolithic	Late Neolithic	Early Bronze	Middle Bronze	Late Bronze	Early Iron	Middle Iron	Late Iron	Romano-British
Site	Site code	EN	LN	EBA	MBA	LBA	EIA	MIA	LIA	RB
Locality 1 - Clays										
Nine Acres	NA									x
Locality 2 – Around the Hillfort (Central)										
Milsom's Corner	MC	x				x	x	x		
Homeground	HG								x	
Castle Farm	CF									x
The Moor	MO							x	x	x
Crissell's Green	CG			x	x					
Locality 3 - Sigwells										
Bronze Age Enclosure	SGBA				x					
Trench 16	SG16				x					
West	SGW							x	x	
South	SGS								x	x
Roman	SGRB									x
Locality 4 – Over the border (Sheepsloit)										
Sheepsloit	SS					x	x	x	x	
Down Close	DC			x						
Locality 5 - Woolston										
Lady Field 1	LF1				x					
Lady Field 3	LF3									x?
Rye Close	RC									x

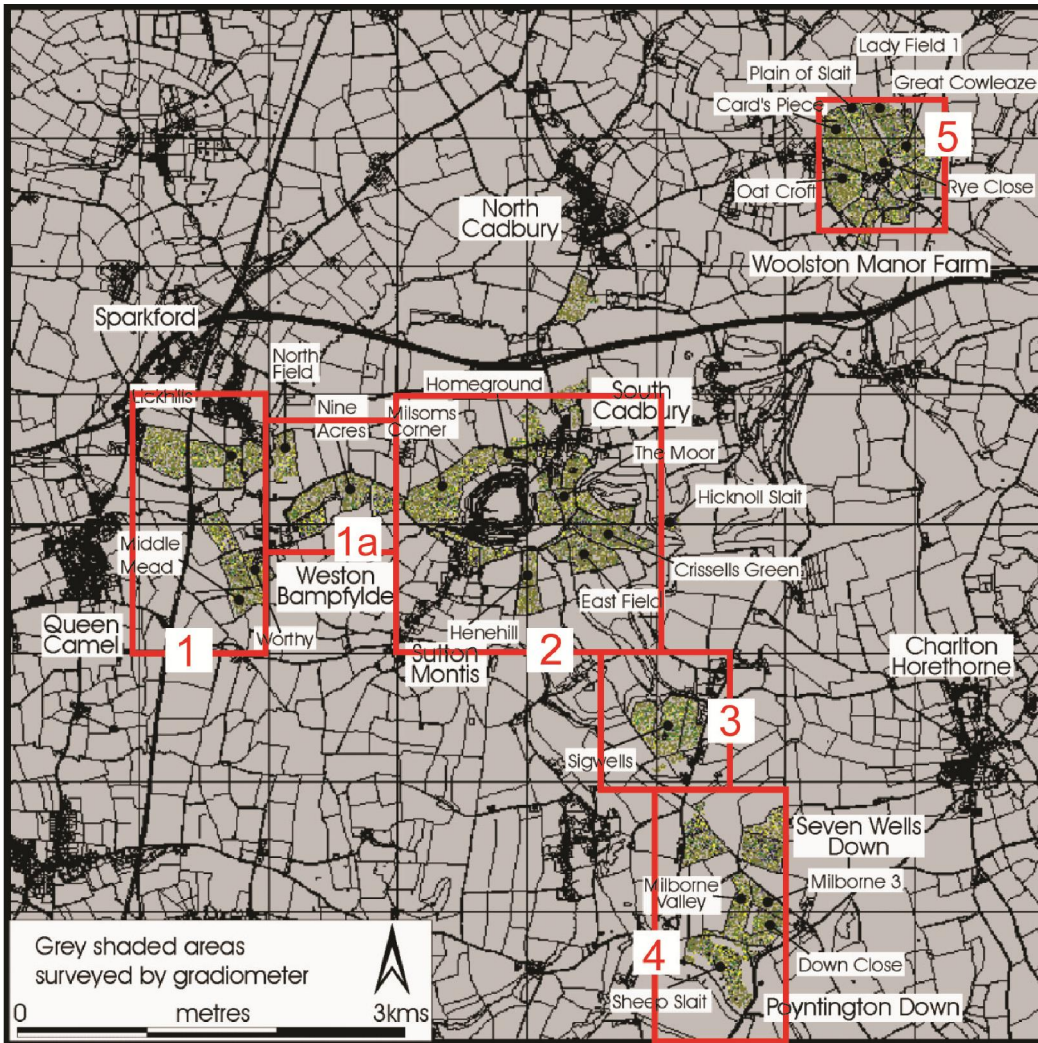


Figure 3.1 Location of the SCEPTOR survey localities (after Tabor 2008, Randal 2010, SCEPTOR archive)

Locality 1: Clays

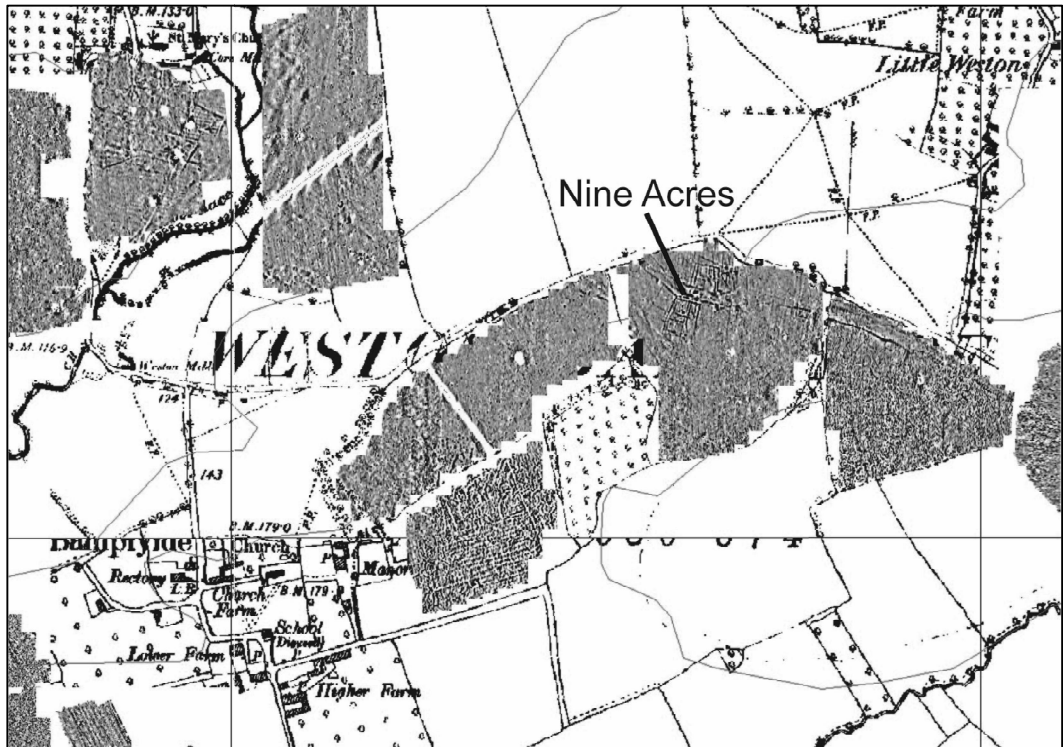


Figure 3.2 Detail of gradiometer surveys of locality 1a, out on the Clays west of the hillfort

Locality 2: Central area

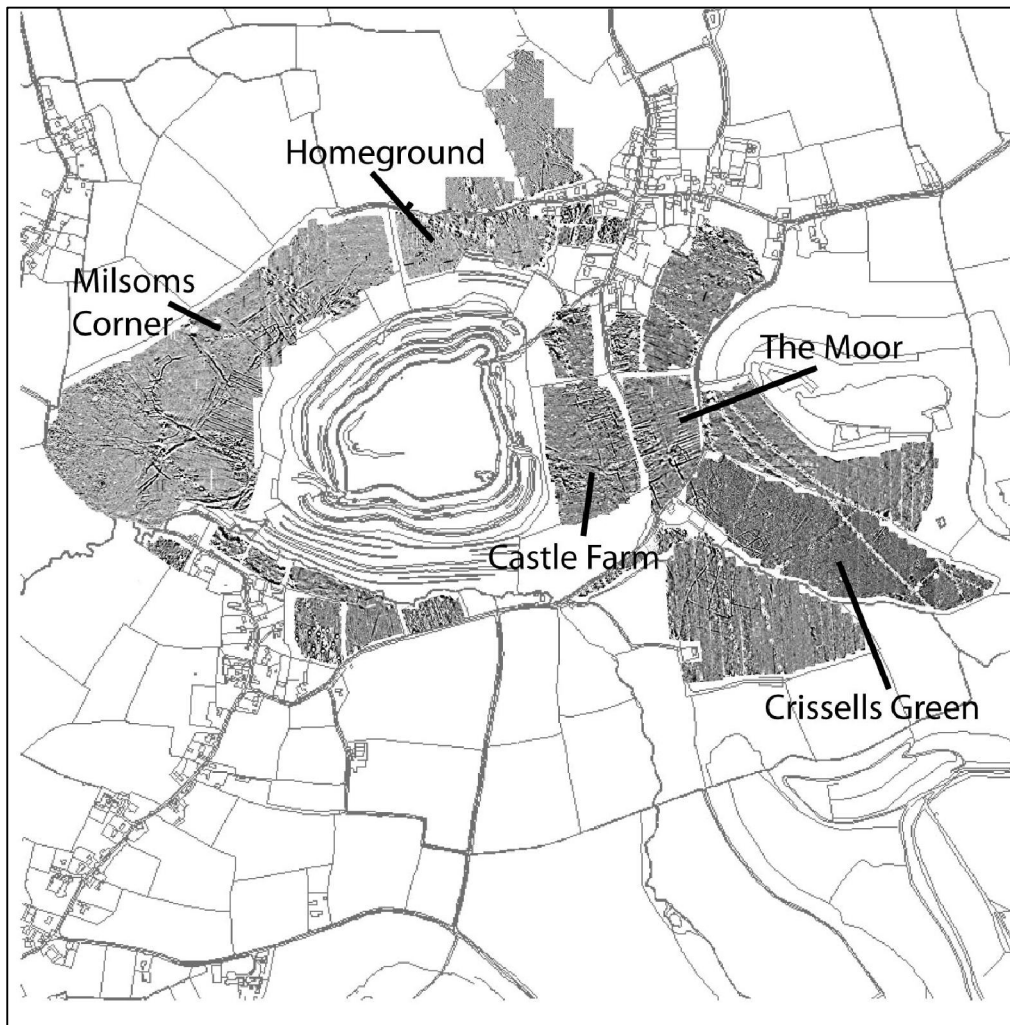


Figure 3.3 Detail of gradiometer surveys Locality 2, the areas sounding South Cadbury hillfort (SCEP archive)

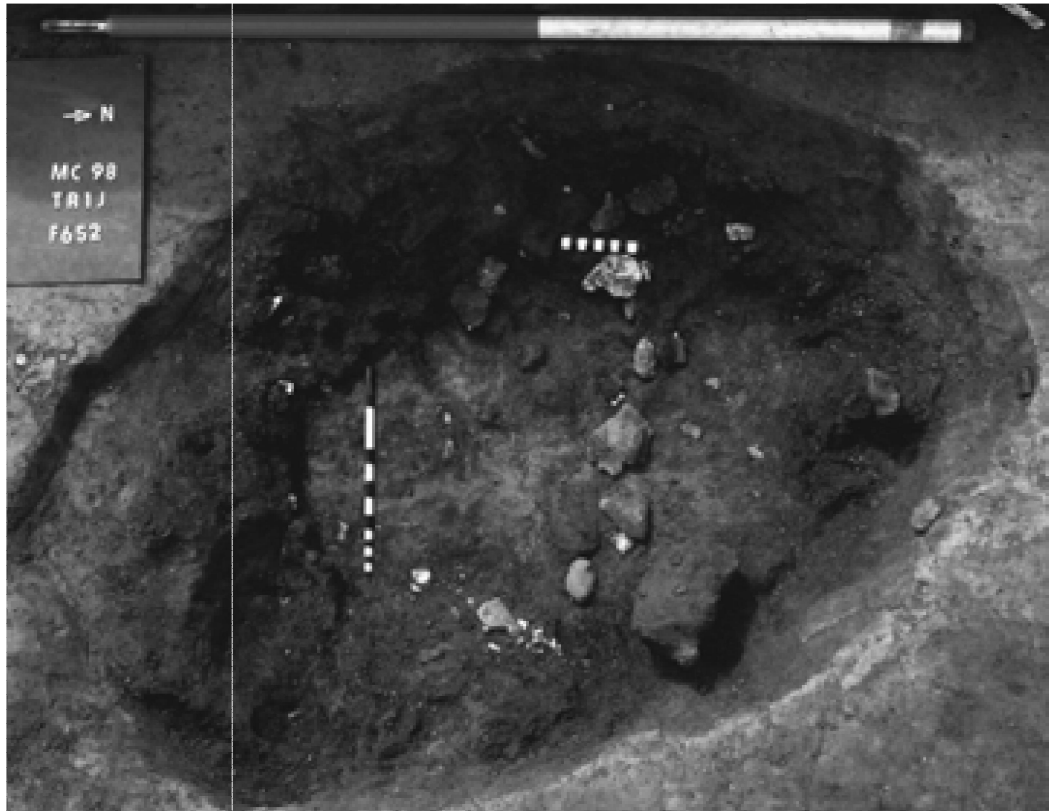


Figure 3.4 Early Neolithic Pit and the Bronze Age shield Milsoms Corner (SCEP archive)





Figure 3.5 (top): 1996 excavations of Castle Farm field looking towards the entrance of the hillfort. (Bottom): 2005 The Moor Trench 3, bottom fills of ditch with cattle skulls (SCEP archive)



Figure 3.6 Crissells Green Excavations underway 2002, looking towards the hillfort in the background (SCEP archive)



Figure 3.7 Calibration radiocarbon dates Milsoms Corner (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013))

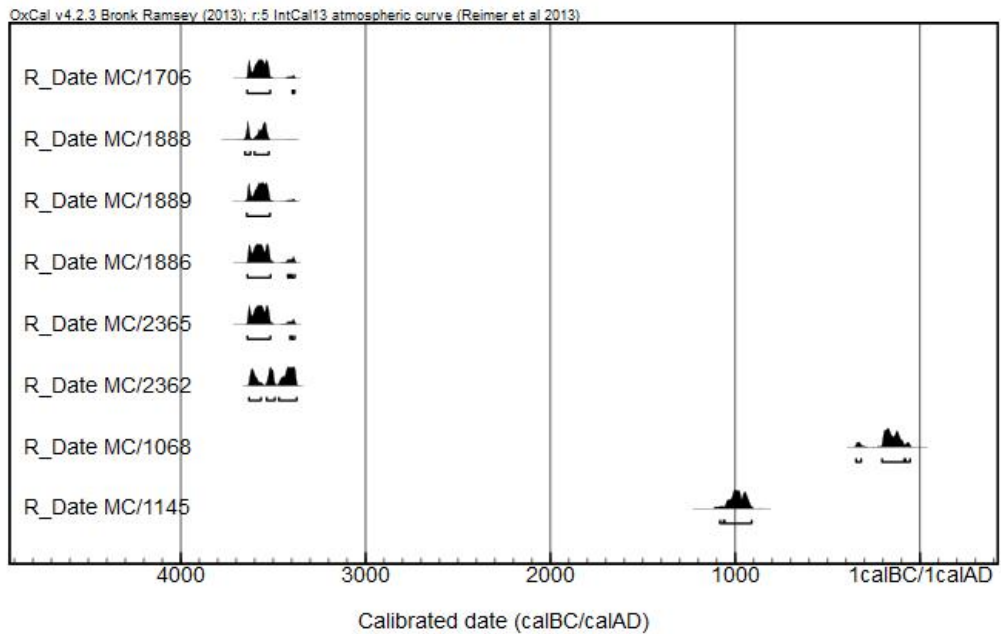


Figure 3.8 Calibration radiocarbon dates Homeground (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013))

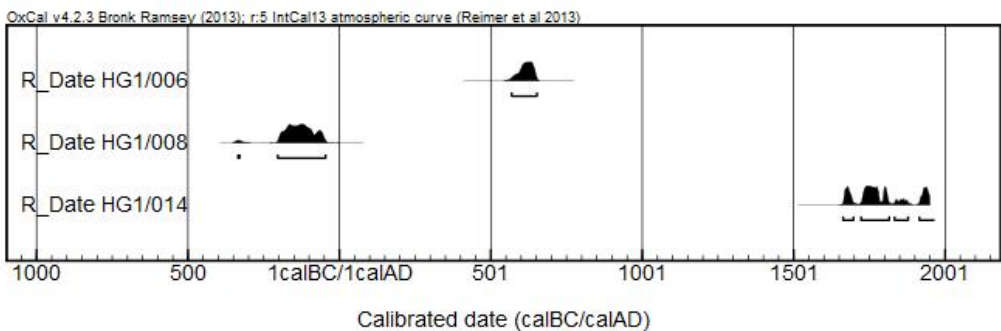
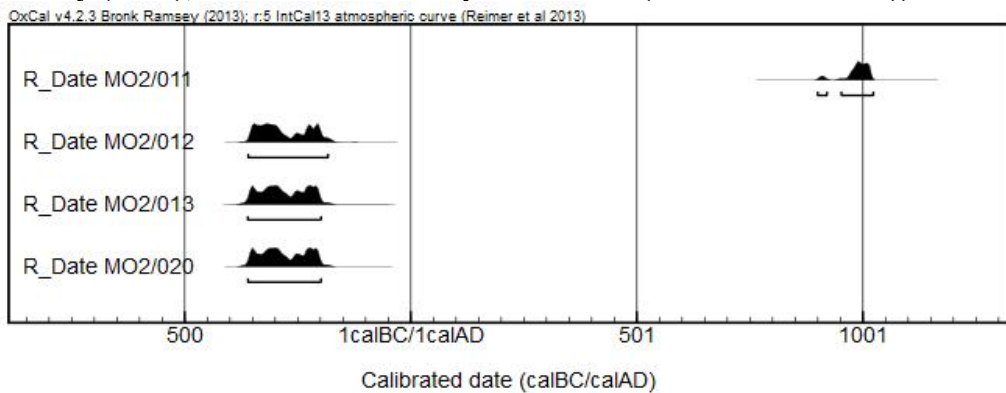


Figure 3.9 Calibration radiocarbon dates The Moor (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013))



Locality 3: Sigwells

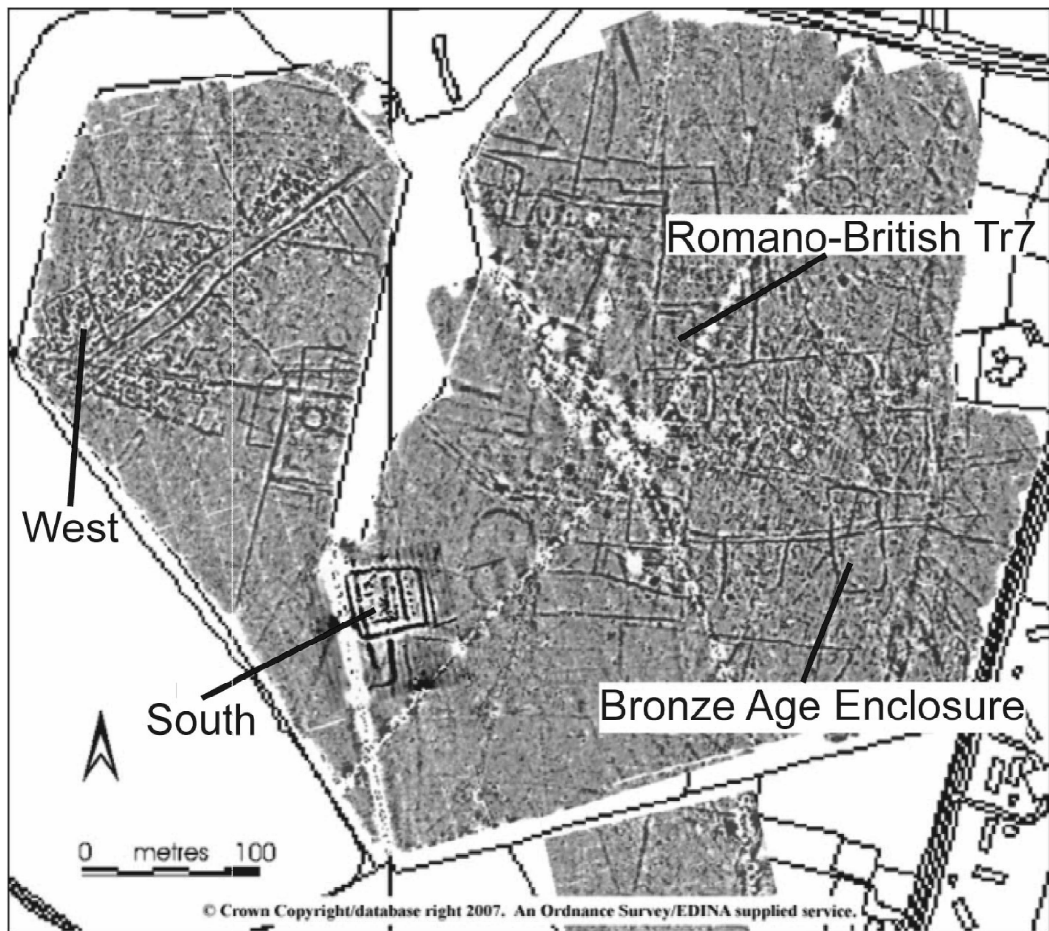


Figure 3.10 Detail of gradiometer surveys Locality 3, Sigwells (SCEP archive)

Figure 3.11 Sigwells, from the Bronze Age Enclosure the fully excavated Cooking Pit F013 (SCEP archive)

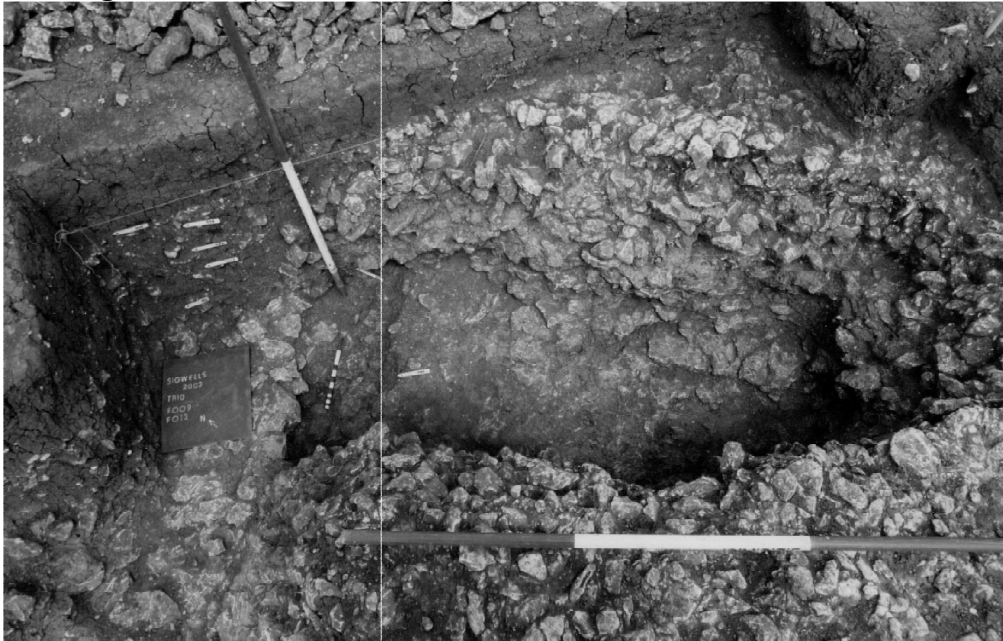


Figure 3.12 Sigwells West Tr12 F046, male human burial in pit associated with archaeobotanical sample SG12/207 (SCEP archive)



Figure 3.13 Calibration radiocarbon dates, Sigwells Bronze Age (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013))

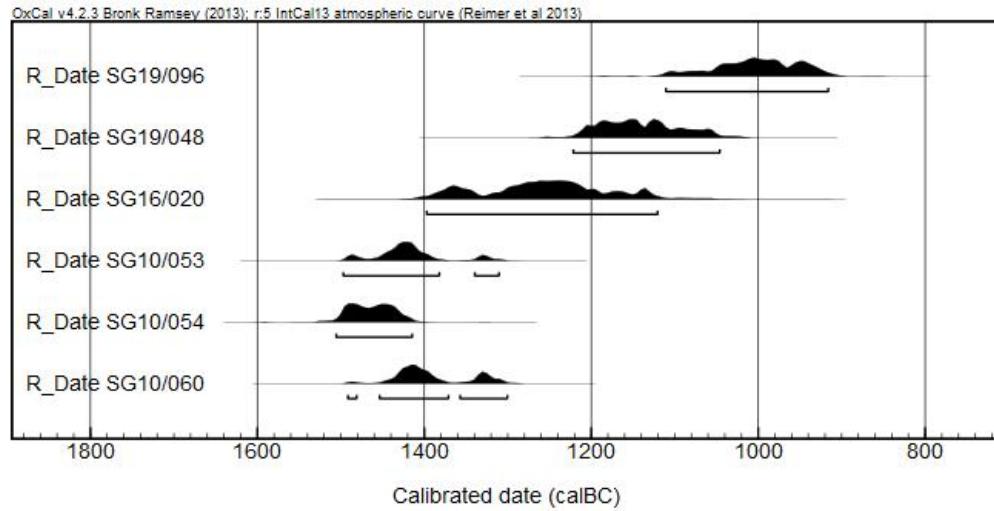
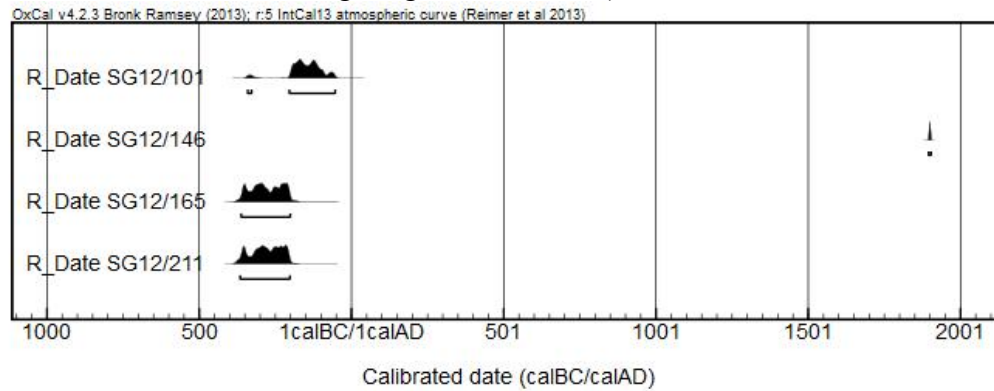


Figure 3.14 Calibration radiocarbon dates, Sigwells West (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013)) (N.B. the outlier SG12/146 giving a modern date)



Locality 4: Sheepslait

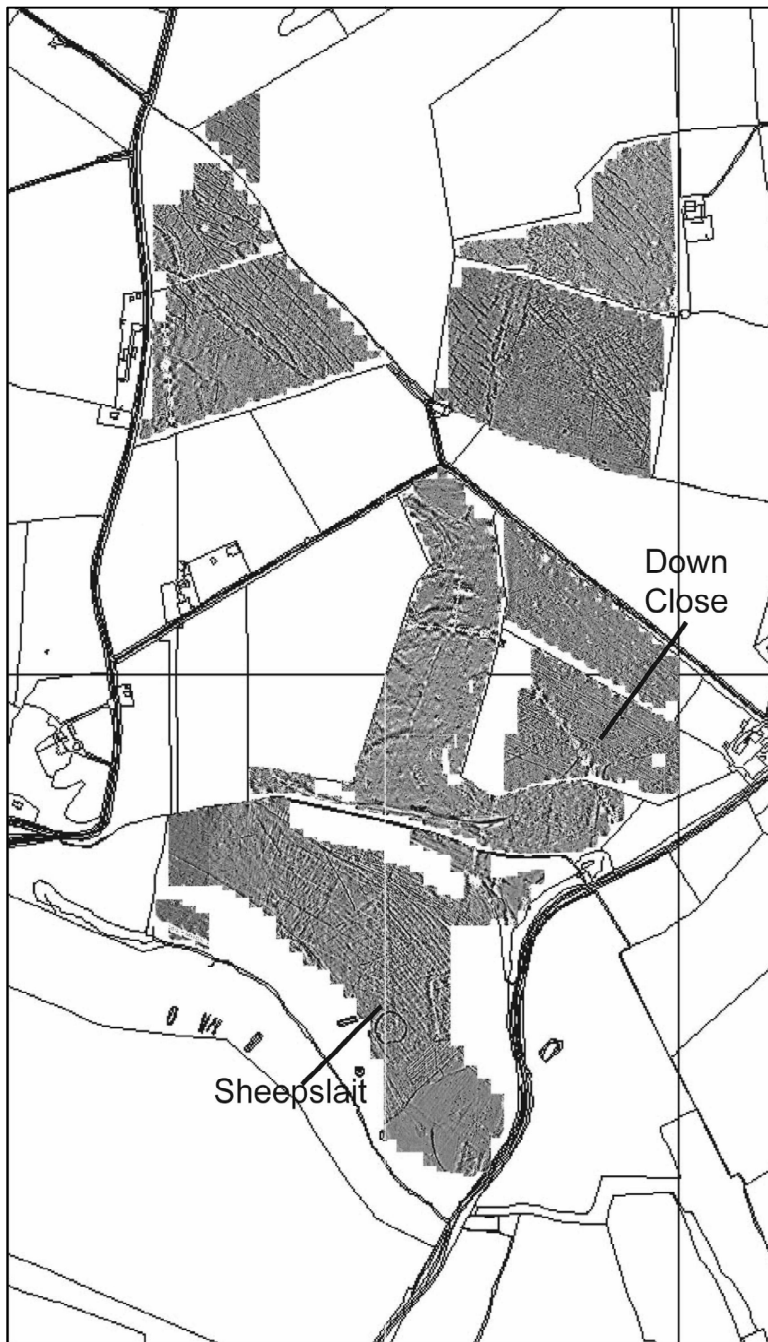
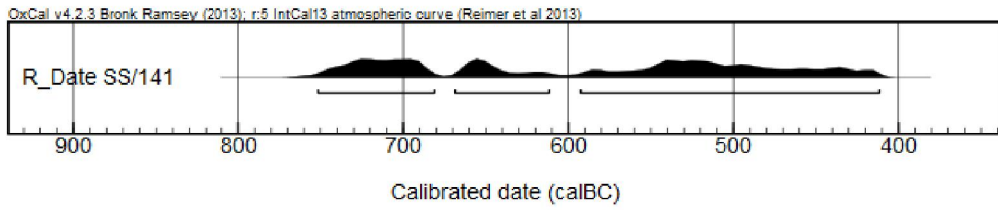


Figure 3.15 Detail of gradiometer surveys Locality 4, Ponyington Down: Sheepslait and Down Close (SCEP archive)



Figure 3.16 the Sheepslait Ring Ditch following excavation 2007 (DdC)

Figure 3.17 Calibration radiocarbon date, Sheepslait (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013))



Locality 5: Woolston (Clays)

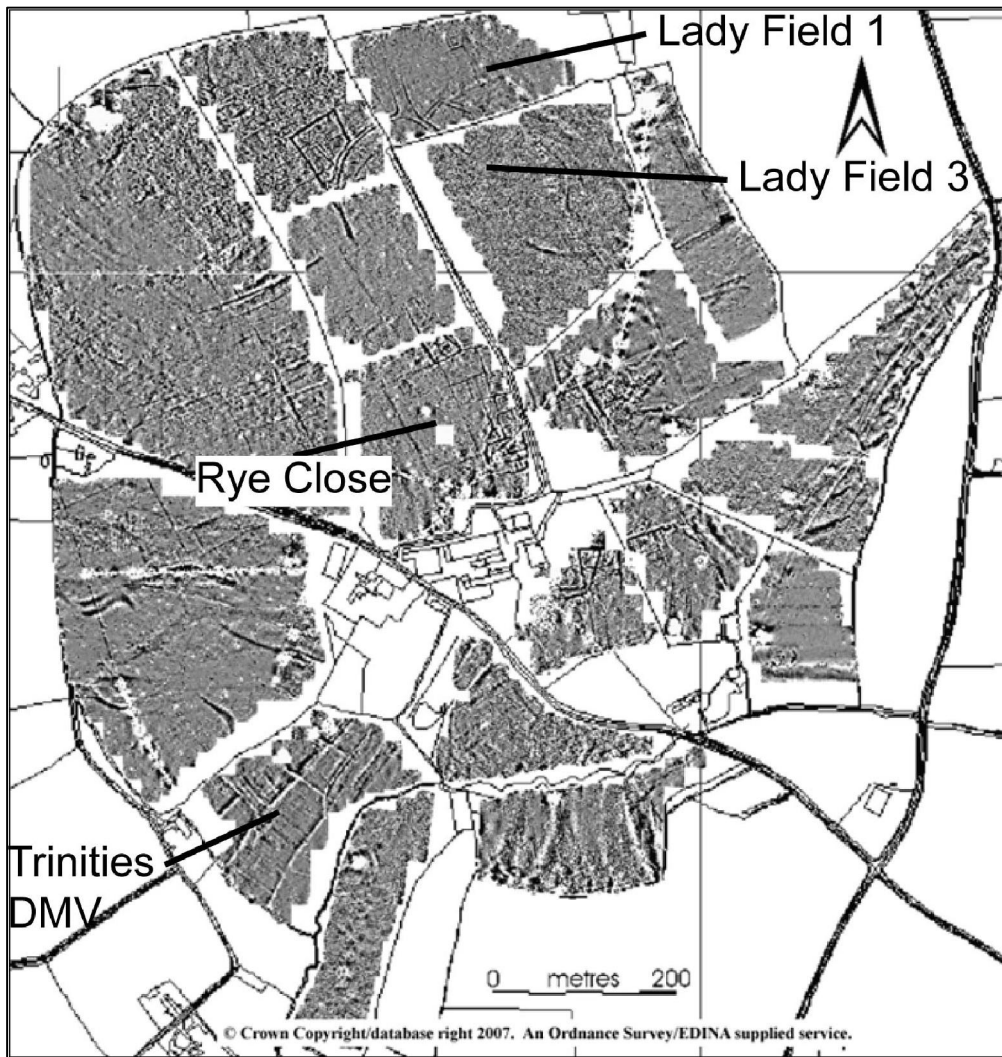
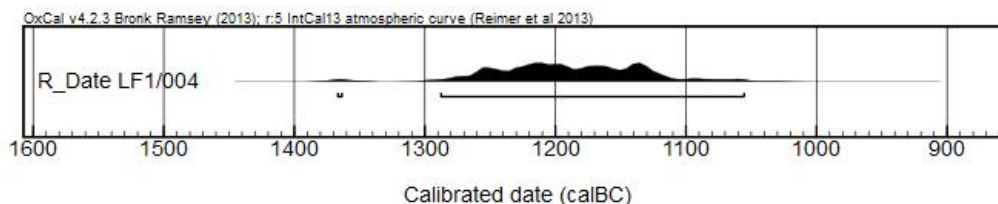


Figure 3.18 Detail of gradiometer surveys Locality 5, fields surrounding Woolston Manor Farm (SCEP archive)

Figure 3.19 Calibration radiocarbon date, Ladyfield 1 (OxCal v4.2.3 Bronk Ramsey (2013); r.5 IntCal13 atmospheric curve (Reimer et al 2013))



4 Methods: tables and figures

Table 4.1 Amalgamated identifications of the crop and weed/wild taxa

Amalgamated categories used	Includes	Code
Spelt grain	Spelt grain; cf Spelt grain	
Emmer grain	Emmer grain; cf Emmer grain; Einkorn/Emmer grain	
Free threshing wheat grain	Free threshing wheat type grain; cf Free threshing wheat type grain	
Barley grain	Hulled Straight barley grain; Hulled cf Twisted barley grain; Hulled barley grain; cf. Naked barley grain; Barley grain; cf. Barley grain	
Oat grain	Oat grain; cf. Oat grain	AVENAGR
Rye grain	Rye grain; cf. Rye grain	SECRA
Rye rachis	Rye rachis; cf Rye rachis	SECGR
Pea	Pea; cf. Pea	PEA
Large Legume indet.	Large legume indet.; cf. Underdeveloped legume	LLEGin
<i>Papaver</i> L. sp.	<i>Papaver</i> L. sp.; <i>Papaver rhoeas</i> L./ <i>dubium</i> L./ <i>hybridum</i> L./ <i>lecoqii</i> Lamotte	PAPAVER
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	<i>Vicia</i> L. sp./ <i>Lathyrus</i> L. sp.; <i>Vicia</i> cf. <i>tetrasperma</i> (L.) Schreb.	VIC/LATsp
<i>Trifolium</i> L. sp.	<i>Trifolium</i> L. sp.; <i>Trifolium</i> cf. <i>dubium</i> Sibth.	TRIFOLI
Small Legume indet.	Small Legume indet.; <i>Medicago</i> L. sp.	SLEGS
<i>Brassica</i> L. / <i>Sinapis</i> L. sp.	<i>Brassica</i> L./ <i>Sinapis</i> L. sp.; cf. <i>Brassica</i> L./ <i>Sinapis</i> L. sp.	BRAS/SIN
Brassicaceae indet.	Brassicaceae indet.; <i>Thlaspi arvense</i> L.	BRASin
<i>Polygonum aviculare</i> L. agg.	<i>Polygonum aviculare</i> L. agg. 1; <i>Polygonum aviculare</i> L. agg. 2	POLYGAV
Polygonaceae Large indet.	Polygonaceae Large indet.; Polygonaceae indet.	POLYGL
Caryophyllaceae indet.	Caryophyllaceae indet.; Caryophyllaceae/ <i>Malva</i> L. sp.; <i>Stellaria</i> cf. <i>graminea</i> L.; <i>Arenaria serpyllifolia</i> L.	CARYin
<i>Galium</i> L. indet.	<i>Galium</i> L. indet.; <i>Galium</i> cf. <i>verum</i> L.	GALLIUin
<i>Veronica hederifolia</i> L.	<i>Veronica hederifolia</i> L.; cf. <i>Veronica</i> L. sp.	VERONHE
Lamiaceae indet.	Lamiaceae indet.; <i>Galeopsis</i> L. sp.; Lamiaceae small indet	LAMIAin
Asteraceae Large intdet.	Asteraceae Large intdet.; Asteraceae-Daisy family; cf. <i>Leucanthemum vulgare</i> Lam.; cf. <i>Crepis</i> L. sp.	ASTERLin
Asteraceae Small intdet.	Asteraceae small intdet.; <i>Anthemis cotula</i> L.	ASTERSin
<i>Anisantha sterilis</i> (L.) Nevski	<i>Anisantha sterilis</i> (L.) Nevski; cf. <i>Anisantha sterilis</i>	ANISSTER
Small Grass	Small grass; Small grass type C; Small grass type B	GRASSS

Table 4.2 Proportionally assigned identifications of the crop and weed/wild taxa (+) denotes category containing proportionally assigned items)

Proportional assigned categories		
Assigned category	Includes	Code
Glume wheats grain+	Spelt grain; cf. Spelt grain, Emmer grain; cf. Emmer grain; Einkorn/Emmer grain; Proportionally assigned Wheat sp./Cereal sp. grain	GLWHGR+
Free threshing wheat grain+	Free threshing wheat grain; cf. Free-threshing wheat grain; Proportionally assigned <i>Wheat</i> sp./Cereal sp. grain	FTWHGR+
Barley grain+	Hulled straight barley grain; Hulled cf. twisted barley grain; Hulled barley grain; cf. Naked barley grain; Barley grain; cf. Barley grain; Proportionally assigned Cereal sp. grains	HORDGR+
Spelt glume bases+	Spelt glume bases; Proportionally assigned glume bases	SPELTGB+
Emmer glume bases+	Emmer glume bases; Proportionally assigned glume bases	DICOGB+
Barley rachis internodes+	Barley rachis; Proportionally assigned Rachis indet.	HORDRA+
Free threshing wheat rachis internodes+	Free threshing wheat rachis; Proportionally assigned Rachis indet.	FTWRA+
<i>Chenopodium</i> L. indet+	<i>Chenopodium</i> L. indet.; Proportionally assigned <i>Chenopodium</i> L./ <i>Caryophyllaceae</i> indet.	CHENOin
<i>Rumex</i> L. sp. (type A)+	<i>Rumex</i> L. sp. (type A); Proportionally assigned <i>Rumex</i>	RUMEXA
<i>Rumex</i> L. sp. (Group 2)+	<i>Rumex</i> L. sp. (Group 2); Proportionally assigned <i>Rumex</i>	RUMEX2



Figure 4.1 SCEP flotation tank (new), Home farm, Sutton Montis

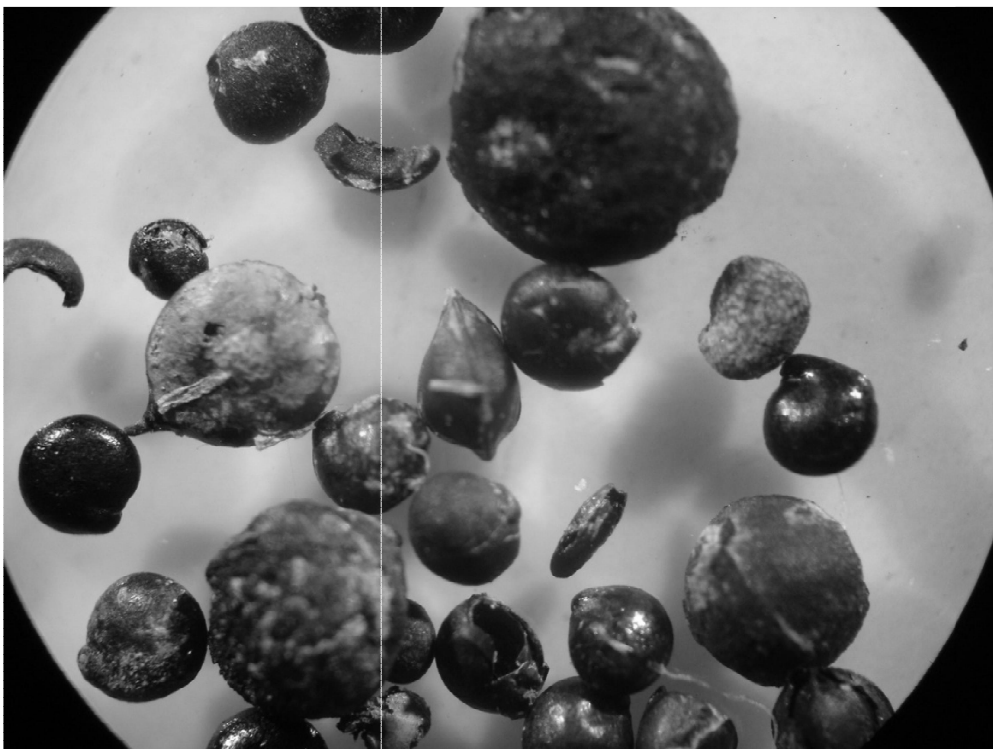


Figure 4.2 charred and modern seeds from Homeground

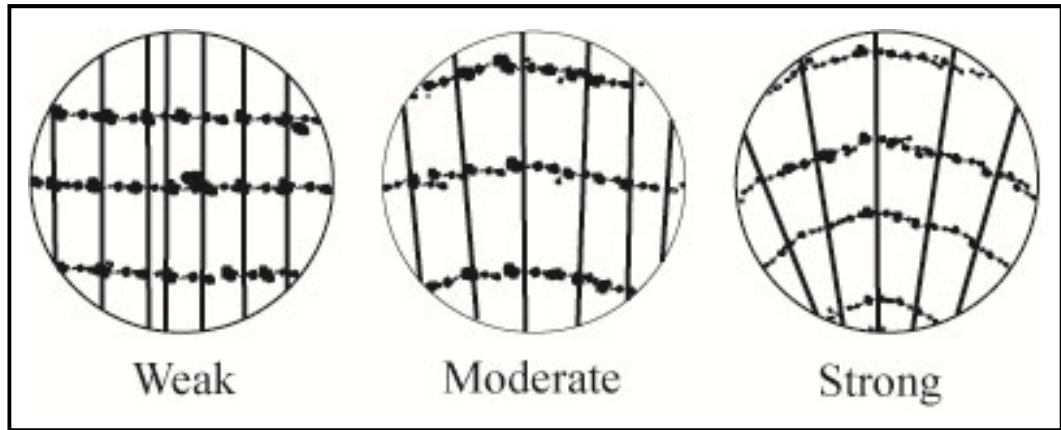


Figure 4.3 Ring curvature assessment after Marguerie & Hunot (2007)

5 The crop and weed results: tables and figures

Table 5.1 (opposite) Number of samples in which crop items present, arranged by period and locality

Key to tables 5.1-5.3

Locality:

CLAY = Clay vale (Locality 1);
CEN = Central area (Locality 2);
SG = Sigwells Field (Locality 3);
SS = Sheepslait (Locality 4);
WO = Woolston (Locality 5).

Periods:

EN = Early Neolithic;
EBA = Early Bronze Age;
MBA = Middle Bronze Age;
LBA = Late Bronze Age;
EIA = Early Iron Age;
MIA = Middle Iron Age;
LIA = Late Iron Age;
RB = Romano-British Period.

Locality	CEN	SS	CEN	SG	WO	CEN	SG	SS	CEN	SS	CEN	SG	SS	CEN	SG	SS	CLAY	CEN	SG	WO
Period	EN	EBA	MBA	MBA	MBA	LBA	LBA	LBA	EIA	EIA	MIA	MIA	MIA	LIA	LIA	LIA	RB	RB	RB	RB
no. of samples	10	1	6	10	1	9	4	1	11	8	14	12	10	5	22	6	1	7	4	4
Spelt; cf. Spelt grain				1		2	1	1		1	7	9	5	3	13	4	1	3	1	1
Emmer; cf. Emmer; Einkorn/Emmer wheat grain			2	2		3	1	1	3	3	3	8	6	3	14	3	1	2	1	
Free threshing wheat; cf. Free threshing wheat grain			1	3				1	1					3	6			4		2
Wheat grain			2	2		3	1	1	4	6	9	7	8	4	18	4	1	6	3	
Barley; cf. Barley; cf. naked Barley; hulled Barley; hulled cf. twisted Barley; hulled straight Barley grain	1		3	8	1	4	1	1	8	8	10	12	10	5	22	6	1	6	3	3
Oat; cf. Oat grain			2								2	2	2	4	16		1	6	2	2
Rye; cf. Rye grain												1			4		1	2		1
Cereal sp. grain	2	1	5	8	1	8	3	1	10	8	12	11	10	5	22	6	1	7	4	4
Spelt glume bases			1	1		7	1	1	2	6	8	10	9	5	20	6	1	7	3	1
Emmer glume bases			3	2		1	2	1	3	4	9	5	8	5	10	5	1	4	1	
Glume wheat glume bases	1		4	7	1	8	4	1	9	8	13	12	10	5	22	6	1	7	4	3
Free threshing wheat rachis internode																				1
Barley rachis internode				1				1		2	2	3	5	2	9		1	3	1	1
rachis internode indet.			2	1							3	3		4	6		1	3	1	1
Rye rachis internode; cf. Rye rachis flax	1			5			1		2								1	2	1	1
Celtic Bean											4	1		1	2					
Pea; cf. Pea											1			3	4	1		1	1	2
Large legume indet.; cf. underdeveloped legume				1		2			1	6	15	1	3	1	12	1	1	3	2	3
large culm node	1		2	3		1			1	2	3	3	5	2	14	2	1	2	2	2
basal culm				4	1					3	1	2	3	2	9	2		2	3	1
Hazel nutshell	8	1	2	4		4	1		3	1	8	7	3	3	13	1	1	2		2

Table 5.2 (opposite) Maximum number of crop items in an individual sample, arranged by period and locality

Locality	CEN	SS	CEN	SG	WO	CEN	SG	SS	CEN	SS	CEN	SG	SS	CEN	SG	SS	CLAY	CEN	SG	WO
Period	EN	EBA	MBA	MBA	MBA	LBA	LBA	LBA	EIA	EIA	MIA	MIA	MIA	LIA	LIA	LIA	RB	RB	RB	RB
no. of samples	10	1	6	10	1	9	4	1	11	8	14	12	10	5	22	6	1	7	4	4
Spelt; cf. Spelt grain				1		2	1	6		4	9	6	7	8	33	5	5	9	6	5
Emmer; cf. Emmer; Einkorn/Emmer wheat grain			3	2		3	1	11	23	10	9	5	28	4	71	10	13	4	12	
Free threshing wheat; cf. Free threshing wheat grain			2	5				1	9					3	11			14		133
Wheat grain			2	5		2	1	17	13	5	14	7	20	23	235	9	34	37	9	
Barley; cf. Barley; cf. naked Barley; hulled Barley; hulled cf. twisted Barley; hulled straight Barley grain	1		37	21	25	5	5	135	55	12	135	75	128	27	314	35	24	30	45	10
Oat; cf. Oat grain			5								11	3	19	4	15		18	6	4	18
Rye; cf. Rye grain												1			2		17	2	48	3
Cereal sp. grain	2	7	44	64	21	9	7	46	65	28	89	35	73	88	404	33	95	86	142	100
Spelt glume bases			1	4		11	1	89	3	36	53	25	106	42	684	16	316	177	68	2
Emmer glume bases			52	5		1	3	16	2	7	17	4	63	5	392	4	28	30	2	
Glume wheat glume bases	1		265	40	2	53	8	244	7	85	364	85	433	226	2676	94	2288	510	215	9
Free threshing wheat rachis internode																				85
Barley rachis internode				81				8		4	6	2	11	17	16		1	15	2	1
rachis internode indet.			2	1							3	2		2	4		8	2	1	1
Rye rachis internode; cf. Rye rachis flax	2			7			157		1						3		96	15	2	7
Celtic Bean											25	2		1	1					
Pea; cf. Pea											2			2	1	6		1	1	3
Large legume indet.; cf. underdeveloped legume				2		2			1	3	3	1	4	4	6	1	7	5	2	19
large culm node	4		3	5		2			1	3	8	2	7	10	31	29	3	4	2	4
basal culm				3	1					3	2	2	5	20	18	2		1	2	2
Hazel nutshell	173g	5	2	2		8	2		2	1	2	4	8	1	18	3	3	6		4

Table 5.3 (opposite) Total number of crop items, arranged by period and locality

Locality	CEN	SS	CEN	SG	WO	CEN	SG	SS	CEN	SS	CEN	SG	SS	CEN	SG	SS	CLAY	CEN	SG	WO
Period	EN	EBA	MBA	MBA	MBA	LBA	LBA	LBA	EIA	EIA	MIA	MIA	MIA	LIA	LIA	LIA	RB	RB	RB	RB
no. of samples	10	1	6	10	1	9	4	1	11	8	14	12	10	5	22	6	1	7	4	4
Spelt; cf. Spelt grain				1		3	1	6		4	22	25	16	12	94	12	5	18	6	5
Emmer; cf. Emmer; Einkorn/Emmer wheat grain			4	4		5	1	11	29	13	19	21	50	8	148	17	13	6	12	
Free threshing wheat; cf. Free threshing wheat grain			2	7				1	9					7	34			42		197
Wheat grain			4	6		5	1	17	24	16	39	28	50	39	338	18	34	65	16	
Barley; cf. Barley; cf. naked Barley; hulled Barley; hulled cf. twisted Barley; hulled straight Barley grain	1		55	63	25	12	5	135	110	67	216	194	239	94	1442	120	24	78	67	17
Oat; cf. Oat grain			7								13	4	22	11	86		18	15	6	23
Rye; cf. Rye grain												1			5		17	3		3
Cereal sp. grain	3	7	66	100	21	48	11	46	114	132	25	235	270	189	1453	100	95	280	125	142
Spelt glume bases			1	4		31	1	89	6	111	165	107	308	112	1080	58	316	358	142	2
Emmer glume bases			71	8		1	5	16	4	16	44	13	123	43	428	12	28	64	2	
Glume wheat glume bases	1		348	77	2	113	15	244	27	331	771	406	1312	701	4297	193	2288	1130	443	19
Free threshing wheat rachis internode																				85
Barley rachis internode				81				8		5	8	4	16	28	45		1	25	2	1
rachis internode indet.			3	1							6	5		5	14		8	3	1	1
Rye rachis internode; cf. Rye rachis flax	2			22			157		2						5		96	25	2	7
Celtic Bean											36	2		1	2					
Pea; cf. Pea											2			4	4	6		1	1	5
Large legume indet.; cf. underdeveloped legume				2		4			1	7	15	1	7	4	23	1	7	9	3	22
large culm node	4		5	7		2			1	5	10	4	19	14	136	33	3	8	3	5
basal culm				7	1					3	2	3	8	27	48	3		2	4	2
Hazel nutshell	N/A																			

Table 5.4 Density of the charred plant remains

Sample no.	Volume soil processed (litres)	Total no. of seed & chaff items	Weight of charcoal in 4 & 2mm sieves (grams)	Density of seed & chaff (items/litre)	Charcol density (grams/litre)
Clay (Locality 1)					
NA/007	17	2854	0.25	167.88	0.01
Central (Locality 2)					
MC/1706	3	0	1.00	0.00	0.33
MC/1839	15	0	1.00	0.00	0.07
MC/1886	?	5	1.00	?	?
MC/1888	48	0	?	0.00	?
MC/1889	40	15	4.00	0.38	0.10
MC/2285	1.25	0	2.00	0.00	1.60
MC/2294	1.2	1	2.00	0.83	1.67
MC/2295	?	1	2.00	?	?
MC/2347	7.75	6	3.00	0.77	0.39
MC/2362	19	3	4.00	0.16	0.21
MC/1068	7.5	9	0.25	1.20	0.03
MC/1145	10	25	6.00	2.50	0.60
MC/1150	25	71	1.00	2.84	0.04
MC/1168	12.5	53	3.00	4.24	0.24
MC/1301	13	23	2.00	1.77	0.15
MC/1403	6	15	2.00	2.50	0.33
MC/1413	31.5	80	5.00	2.54	0.16
MC/2221	3.5	7	1.00	2.00	0.29
MC/1018	3	17	1.00	5.67	0.33
MC/1202	20	38	1.00	1.90	0.05
MC/1225	10	4	3.00	0.40	0.30
MC/1249	11	4	3.00	0.36	0.27
MC/1295	14	11	4.00	0.79	0.29
MC/1336	9.5	63	1.00	6.63	0.11
MC/1361	4	177	3.00	44.25	0.75
MC/1376	14.5	14	3.00	0.97	0.21
MC/1827	10	23	8.00	2.30	0.80
MC/1867	2.75	0	2.00	0.00	0.73
MC/2259	2.5	11	7.00	4.40	2.80
MC/1106	2	4	1.00	2.00	0.50
MC/1203	7	6	2.00	0.86	0.29
MC/1278	11	98	8.00	8.91	0.73
MC/1319	5	57	1.00	11.40	0.20
MC/1405	5	5	3.00	1.00	0.60
MC/1429	?	83	5.00	?	?
MC/1726	1	35	1.00	35.00	1.00

Table 5.4 cont.

Sample no.	Volume soil processed (litres)	Total no. of seed & chaff items	Weight of charcoal in 4 & 2mm sieves (grams)	Density of seed & chaff (items/litre)	Charcol density (grams/litre)
Central (Locality 2) cont.					
HGTP/004	30.5	30	4.00	0.98	0.13
HGTP/006	22	7	2.00	0.32	0.09
HG1/008	23.5	148	2.00	6.30	0.09
HG1/014	49.5	119	?	2.40	?
HG1/016	11	319	2.00	29.00	0.18
HG1/019a	26.5	578	6.00	21.81	0.23
HG1/019b	22.5	394	4.00	17.51	0.18
HG1/023	27	373	4.00	13.81	0.15
HG1/025	25	71	1.00	2.84	0.04
HG1/045	12.5	166	2.00	13.28	0.16
HG1/006a	28	141	?	5.04	?
HG1/006b	17	171	0.25	10.06	0.01
HG1/006c	65.5	232	4.00	3.54	0.06
HG1/006d	37.5	805	?	21.47	?
HG2/003	118	475	?	4.03	?
HG2/010	49.5	476	4.00	9.62	0.08
CG/018	53.1	18	12.00	0.34	0.23
CG/016	0.45	0	5.00	0.00	11.11
CG/020	26	442	1.00	17.00	0.04
CG/024	28	277	1.00	9.89	0.04
CG/008	52	25	2.00	0.48	0.04
CG/012	28	11	1.00	0.39	0.04
MO2/012	9	657	1.00	73.00	0.11
MO2/013	2	81	1.00	40.50	0.50
MO2/017	9	590	4.00	65.56	0.44
MO2/020	11	72	1.00	6.55	0.09
MO2/025	10	211	1.00	21.10	0.10
MO3/014	8.5	95	3.00	11.18	0.35
MO3/027	8	59	1.00	7.38	0.13
MO1/014	9	634	2.00	70.44	0.22
MO1/021	7	481	4.00	68.71	0.57
MO3/009	12	77	4.00	6.42	0.33
MO3/015	9	373	1.00	41.44	0.11
MO1/022	21	425	3.00	20.24	0.14
MO1/023	11	272	3.00	24.73	0.27
MO1/006	7	81	1.00	11.57	0.14
MO1/008	10	44	1.00	4.40	0.10
MO2/006	45	481	3.00	10.69	0.07
MO2/011	34.5	865	3.00	25.07	0.09
CF/1004	17	39	2.00	2.29	0.12
CF/1036	16	934	4.00	58.38	0.25
CF/1054	15	78	?	5.20	?
CF/1095	30	450	6.00	15.00	0.20
CF/1107	20	364	9.00	18.20	0.45

Table 5.4 cont.

Sample no.	Volume soil processed (litres)	Total no. of seed & chaff items	Weight of charcoal in 4 & 2mm sieves (grams)	Density of seed & chaff (items/litre)	Charcol density (grams/litre)
Sigwells (Locality 3)					
SG16/020	2.5	130	0.00	52.00	0.00
SG16/006	9.5	21	26.00	2.21	2.74
SG16/007	10	7	3.00	0.70	0.30
SG10/051	66	69	6.00	1.05	0.09
SG10/053	30	24	2.00	0.80	0.07
SG10/054	167.5	164	14.00	0.98	0.08
SG10/060	59.5	47	13.00	0.79	0.22
SG19/089	65	10	7.00	0.15	0.11
SG19/096	54.5	169	9.00	3.10	0.17
SG19/104	76	10	2.00	0.13	0.03
SG19/132	15	19	32.00	1.27	2.13
SG19/151	9	10	3.00	1.11	0.33
SG19/048	20	22	28.00	1.10	1.40
SG12/101	16	56	0.25	3.50	0.02
SG12/174	13	160	1.00	12.31	0.08
SG12/211	2.5	7	1.00	2.80	0.40
SG12/229	20.5	176	4.00	8.59	0.20
SG12/238	18.5	145	2.00	7.84	0.11
SG12/243	16.5	198	2.00	12.00	0.12
SG12/258	17	123	?	7.24	?
SG13/270	37.5	115	26.00	3.07	0.69
SG14/042	?	134	1.00	?	?
SG14/044	?	72	1.00	?	?
SG14/060	10	136	?	13.60	?
SG12/146	15	39	0.25	2.60	0.02
SG12/165	17	183	1.00	10.76	0.06
SG12/220	20	564	7.00	28.20	0.35
SG12/261	35	428	2.00	12.23	0.06
SG13/118	50.5	386	4.00	7.64	0.08
SG13/153	16.5	467	6.00	28.30	0.36
SG13/187	8.5	231	?	27.18	?
SG13/263	66	7021	45.00	106.38	0.68
SG12/126	10	167	2.00	16.70	0.20
SG12/207	163.5	1335	5.00	8.17	0.03
SG12/292	19.5	257	1.00	13.18	0.05
SG13/225	22.5	740	3.00	32.89	0.13
SG13/265	21	395	1.00	18.81	0.05
SG14/003	9	60	0.25	6.67	0.03
SG14/032	23	699	5.00	30.39	0.22
SG14/038	10	158	1.00	15.80	0.10
SG14/048	11	64	1.00	5.82	0.09
SG14/050	8.5	54	10.00	6.35	1.18
SG14/056	9.5	145	3.00	15.26	0.32
SG14/058	10	116	3.00	11.60	0.30

Table 5.4 cont.

Sample no.	Volume soil processed (litres)	Total no. of seed & chaff items	Weight of charcoal in 4 & 2mm sieves (grams)	Density of seed & chaff (items/litre)	Charcol density (grams/litre)
Sigwells (Locality 3) cont.					
SG21/017	11	565	1.00	51.36	0.09
SG22/024	10	532	1.00	53.20	0.10
SG23/034	10	229	0.25	22.90	0.03
SG23/037	4	203	?	50.75	?
SG20/011	9	8	3.00	0.89	0.33
SG21/005	10	332	2.00	33.20	0.20
SG7/043	9.5	555	8.00	58.42	0.84
SG7/046	5	368	0.25	73.60	0.05
Sheepsloit (Locality 4)					
DC/005	11	11	1.00	1.00	0.09
SS/231	10	292	23.00	29.20	2.30
SS/003	7	73	1.00	10.43	0.14
SS/024	12	137	127.00	11.42	10.58
SS/125	13	90	53.00	6.92	4.08
SS/138	10	183	3.00	18.30	0.30
SS/175	12.5	140	5.00	11.20	0.40
SS/180	14	225	14.00	16.07	1.00
SSTP/007	12	21	3.00	1.75	0.25
SS/141	11	36	5.00	3.27	0.45
SS/042	54	74	1.00	1.37	0.02
SS/059	11	268	1.00	24.36	0.09
SS/127	27	1008	10.00	37.33	0.37
SS/128	9	266	1.00	29.56	0.11
SS/182	3	107	1.00	35.67	0.33
SS/188	10	235	1.00	23.50	0.10
SS/192	12.5	239	2.00	19.12	0.16
SS/248	24	447	9.00	18.63	0.38
SS/259	6	26	17.00	4.33	2.83
SS/285	1.7	354	2.00	208.24	1.18
SS/011	10	63	5.00	6.30	0.50
SS/072	11	243	94.00	22.09	8.55
SS/207	12.5	359	41.00	28.72	3.28
SS/279	2.2	33	6.00	15.00	2.73
SS/166	9	114	2.00	12.67	0.22
SS/276	1.2	99	?	82.50	?
Woolston (Locality 5)					
LF1/004	11	66	1.00	6.00	0.09
LF3/14	0.9	431	0.25	478.89	0.28
LF3/16	6	109	0.25	18.17	0.04
RC/039	4	57	13.00	14.25	3.25
RC/049	5	57	1.00	11.40	0.20
Averages (all)	19.88	247.85	6.25	20.17	0.63

Table 5.5 Results of the three crop processing analyses: principal crop component, crop ratios and weed analysis.

GW = glume wheat; FT = free threshing wheat; F-S by-product = Fine-sieving by-product. Crop components $\geq 70\%$ and highlighted.

Period	Sample	Principal crop components - percentages (%)											Internal Taxa Ratios				Discriminant Weed				Final classification		
		GW Grain	GW Glume Base	FT Wheat Grain	FTW Rachis	Barley	Barley Rachis	Oat Grain	Rye Grain	Rye Rachis	Flax	Pulse	Glume:Grain	Rachis:Grain	Rachis:Grain	Rachis:Grain	1st Group	Probability	2nd Group	Probability			
a)		%	%	%	%	%	%	%	%	%	%	GLW	FTW	BAR	RYE								
MBA/LBA	SG19/096	0	2	0	0	0	0	0	0	0	98	0					3	1.00	4	0.00	Flax		
MIA	SG12/174	10	6	0	0	82	0	1	0	0	0	2	0.6		grain		3	0.98	1	0.02	Barley - product		
EIA	MC/1336	9	17	0	0	74	0	0	0	0	0	0	2.0		grain						Barley - product		
RB	LF3/16	0	3	88	1	1	0	5	0	0	0	2		0.0								FT Wheat - product	
MIA	MC/1429	0	100	0	0	0	0	0	0	0	0	0	glume				4	0.95	3	0.05	GW, F-S by-product		
MBA	CG/020	0	91	0	0	7	1	1	0	0	0	0	glume		0.1		3	1.00	4	0.00	GW, F-S by-product		
RB	NA/007	5	88	0	0	2	0	1	1	3	0	0	17.4		0.2	5.6	3	0.97	4	0.03	GW, F-S by-product		
MIA	SS/285	7	88	0	0	5	0	0	0	0	0	0	13.2		grain		4	0.98	3	0.02	GW, F-S by-product		
MIA	MO2/017	3	87	0	0	8	1	0	0	0	0	1	27.1		0.1		4	1.00	3	0.00	GW, F-S by-product		
MIA	SS/248	5	86	0	0	9	0	0	0	0	0	0	17.9		grain		3	0.95	4	0.05	GW, F-S by-product		
RB	SG7/046	7	84	0	0	8	0	1	0	0	0	0	11.8		0.0		3	0.98	1	0.01	GW, F-S by-product		
LBA	MC/1413	8	84	0	0	8	0	0	0	0	0	0	10.7									Mixed	
LBA/EIA	SS/180	9	83	0	0	8	0	0	0	0	0	0	9.5		grain		3	1.00	1	0.00	GW, F-S by-product		
RB	CF/1036	3	83	6	0	4	1	0	0	3	0	0	26.8	0.0	0.1	25.0	3	0.65	4	0.35	GW, F-S by-product		
MIA	SS/182	19	81	0	0	0	0	0	0	0	0	0	4.3				3	0.96	4	0.04	GW, F-S by-product		
LIA?	HG1/016	6	81	11	0	2	0	0	0	0	0	0	13.5	grain			3	0.98	4	0.02	GW, F-S by-product		
RB	MO1/023	6	79	0	0	12	2	1	0	0	0	0	13.9		0.2		4	0.76	3	0.24	GW, F-S by-product		
MIA	SS/188	11	77	0	0	9	2	0	0	0	0	0	6.8		0.2		3	1.00	4	0.00	GW, F-S by-product		
LBA/EIA	SS/024	0	77	0	0	23	0	0	0	0	0	0	glume		grain		3	0.99	4	0.01	GW, F-S by-product		
MIA	SG12/238	2	77	0	0	18	2	0	0	0	0	0	35.5		0.1		4	0.96	3	0.04	GW, F-S by-product		
VLIA?	HG1/006d	3	77	14	0	5	1	0	0	0	0	0	27.1	grain	0.1		3	0.99	4	0.01	GW, F-S by-product		
LIA?	HG1/045	0	77	14	0	5	2	2	0	0	0	0	glume	grain			3	1.00	4	0.00	GW, F-S by-product		

Table 5.5 cont.

Period	Sample	Principal crop components - percentages (%)											Internal Taxa Ratios				Discriminant Weed				Final classification		
		GW Grain	GW Glume Base	FT Wheat Grain	FTW Rachis	Barley	Barley Rachis	Oat Grain	Rye Grain	Rye Rachis	Flax	Pulse	Glume:Grain	Rachis:Grain	Rachis:Grain	Rachis:Grain	1st Group	Probability	2nd Group	Probability			
b)		%	%	%	%	%	%	%	%	%	%	GLW	FTW	BAR	RYE								
MIA	MC/1278	0	77	0	0	23	0	0	0	0	0	glume		grain			4	0.99	3	0.01		Mixed	
RB	MO1/022	6	76	0	0	15	4	0	0	0	0	13.6		0.3			4	0.98	3	0.02		GW, F-S by-product	
MIA/LIA	MO1/021	6	75	3	0	11	3	1	0	0	0	12.1	grain	0.3			4	0.92	3	0.08		GW, F-S by-product	
MIA/LIA	SG13/263	14	74	2	0	10	0	0	0	0	0	5.4	grain	0.0			3	0.98	4	0.02		GW, F-S by-product	
SAX?	MO2/011	7	72	0	0	15	1	2	0	0	0	10.9		0.1			3	0.92	4	0.08		GW, F-S by-product	
VLIA?	HG2/010	3	72	5	0	19	0	1	0	0	0	26.3	0.1	grain			3	0.99	4	0.01		GW, F-S by-product	
LIA	HG1/008	3	71	0	0	21	1	3	0	0	0	26.7		0.0			3	0.98	4	0.02		GW, F-S by-product	
LBA/EIA	SS/175	9	71	0	0	20	0	0	0	0	0	7.9		grain			3	0.85	4	0.15		GW, F-S by-product	
MIA/LIA	SG13/187	10	71	0	0	17	1	1	0	0	0	6.8		0.0			3	0.99	1	0.01		GW, F-S by-product	
MIA	SG12/229	23	67	0	0	10	1	0	0	0	0	2.9		0.1			4	0.81	3	0.19		Mixed	
MIA	SG12/258	34	49	0	0	16	1	0	0	0	0	1.4		0.1			4	0.76	3	0.24		Mixed	
MIA	MO2/025	13	68	0	0	16	2	0	0	0	0	5.1		0.1			3	0.97	4	0.03		Mixed	
LBA/EIA	SS/138	13	68	0	0	16	2	0	0	0	0	5.3		0.1			4	0.96	1	0.03		Mixed	
MIA	SG12/243	12	68	0	0	19	1	0	0	0	0	5.6		0.1			3	1.00	4	0.00		Mixed	
RB	CF/1095	15	65	15	0	2	0	0	0	2	0	4.3	0.0		rachis		3	1.00	4	0.00		Mixed	
MIA/LIA	SG12/220	10	69	3	0	14	1	2	0	1	0	7.1	grain	0.0			3	0.97	4	0.03		Mixed	
MIA/LIA	MO3/015	11	67	0	0	21	0	1	0	0	0	6.2		0.0			3	0.91	4	0.09		Mixed	
MIA	SG14/042	25	52	0	0	22	1	0	0	0	0	2.0		0.0			3	1.00	4	0.00		Mixed	
MIA	MO1/014	20	57	5	0	13	4	1	0	0	0	2.8	grain	0.3			4	0.88	3	0.12		Mixed	
LIA	SS/166	30	47	0	0	23	0	0	0	0	0	1.6		grain								Mixed	
MIA	SG13/270	35	42	0	0	23	0	0	0	0	0	1.2		grain			3	0.79	4	0.21		Mixed	
MIA	SS/127	11	66	0	0	20	1	2	0	0	0	6.2		0.1			3	1.00	4	0.00		Mixed	

Table 5.5 cont.

Period	Sample	Principal crop components - percentages (%)											Internal Taxa Ratios				Discriminant Weed				Final classification
		GW Grain	GW Glume Base	FT Wheat Grain	FTW Rachis	Barley	Barley Rachis	Oat Grain	Rye Grain	Rye Rachis	Flax	Pulse	Glume:Grain	Rachis:Grain	Rachis:Grain	Rachis:Grain	1st Group	Probability	2nd Group	Probability	
c)		%	%	%	%	%	%	%	%	%	%	GLW	FTW	BAR	RYE						
LIA	SG14/038	30	46	0	0	23	0	0	0	0	0	1.5		grain		3	0.81	4	0.19	Mixed	
LIA?	HG1/019b	10	67	12	0	10	0	1	0	0	0	7.0	grain	grain		3	0.83	4	0.17	Mixed	
LBA/EIA	SS/003	12	63	0	0	25	0	0	0	0	0	5.1		grain							Mixed
MIA	SS/128	15	60	0	0	25	1	0	0	0	0	3.9		0.0		3	1.00	4	0.00	Mixed	
MIA/LIA	SG12/207	12	62	0	0	24	1	0	0	0	0	5.1		0.0		3	0.73	4	0.27	Mixed	
MIA	SG14/060	13	61	0	0	24	2	0	0	0	0	4.5		0.1		3	0.97	4	0.03	Mixed	
LIA	SS/207	5	69	0	0	26	0	0	0	0	0	15.3		grain		3	0.96	4	0.03	Mixed	
LIA	SG12/292	18	56	0	0	25	0	1	0	0	0	3.2		grain		3	0.93	4	0.07	Mixed	
MIA/LIA	MO3/014	30	44	0	0	27	0	0	0	0	0	1.5		grain		3	0.79	4	0.21	Mixed	
RB	SG21/005	5	69	0	0	26	1	0	0	0	0	15.1		0.0		3	0.99	1	0.00	Mixed	
MIA	MO2/020	28	45	0	0	28	0	0	0	0	0	1.6		grain		4	0.99	3	0.01	Mixed	
LBA/EIA	SS/125	18	54	0	0	28	0	0	0	0	0	3.0		grain		3	0.93	4	0.07	Mixed	
LIA?	HG1/023	7	65	12	0	13	0	2	0	0	0	8.9	grain	0.0		4	1.00	3	0.00	Mixed	
RB	SG7/043	18	54	0	0	24	0	1	0	1	1	3.0		grain		3	0.98	1	0.01	Mixed	
MIA	SS/192	30	41	0	0	30	0	0	0	0	0	1.4		grain		3	0.94	4	0.06	Mixed	
MIA	MO3/027	10	60	0	0	30	0	0	0	0	0	6.0		grain							Mixed
RB	LF3/14	0	0	63	24	5	0	5	1	2	0	1		0.4	grain	2.3	4	1.00	3	0.00	Mixed
MBA	SG16/020	0	10	0	0	24	66	0	0	0	0	glume		2.7							Mixed
LIA?	HG1/019a	4	66	17	0	12	1	1	0	0	0	16.8	grain	0.1		3	0.94	4	0.06	Mixed	
VLIA?	HG2/003	8	61	16	0	13	0	0	0	0	1	7.6	grain	0.0		3	0.67	4	0.33	Mixed	
LBA	SS/231	10	59	1	0	29	1	0	0	0	0	6.0		0.0		4	1.00	3	0.00	Mixed	
SAX	MO1/006	16	53	0	0	28	0	0	0	0	0	3.4		grain		3	0.92	4	0.08	Mixed	

Table 5.5 cont.

Period	Sample	Principal crop components - percentages (%)											Internal Taxa Ratios				Discriminant Weed				Final classification		
		GW Grain	GW Glume Base	FT Wheat Grain	FTW Rachis	Barley	Barley Rachis	Oat Grain	Rye Grain	Rye Rachis	Flax	Pulse	Glume:Grain	Rachis:Grain	Rachis:Grain	Rachis:Grain	1st Group	Probability	2nd Group	Probability			
d)		%	%	%	%	%	%	%	%	%	%	GLW	FTW	BAR	RYE								
VLIA?	HG1/006b	3	66	13	0	18	1	0	0	0	0	21.0	grain	0.0			3	0.98	4	0.02	Mixed		
LIA	SG14/056	12	56	0	0	30	1	1	0	0	0	4.6		0.0			4	0.51	3	0.49	Mixed		
SAX	MO2/006	7	61	3	0	24	1	2	0	0	0	9.1	grain	0.0			4	0.77	3	0.23	Mixed		
MIA/LIA	MO3/009	0	68	3	0	26	2	0	0	0	0	2	glume	0.1			3	0.99	4	0.01	Mixed		
MIA	SG21/017	18	46	0	0	30	4	3	0	0	0	2.6		0.1			3	1.00	1	0.00	Mixed		
VLIA?	HG1/006a	10	53	33	0	4	0	0	0	0	0	5.4	grain				3	1.00	4	0.00	Mixed		
LIA	SG14/003	45	16	0	0	36	0	2	0	0	0	0.4		grain								Mixed	
LIA	SG13/225	18	42	0	0	35	2	1	0	0	0	2.3		0.1			3	0.99	4	0.01	Mixed		
MIA	MC/1319	49	11	0	0	40	0	0	0	0	0	0.2		grain								Mixed	
MIA	SS/059	0	57	9	0	32	0	1	0	0	0	glume	grain	0.0			3	0.95	4	0.05	Mixed		
LIA	SG12/126	0	57	11	0	31	0	1	0	0	0	glume	grain	grain			3	1.00	4	0.00	Mixed		
MIA	SG14/058	6	51	0	0	43	0	0	0	0	0	8.2		grain			4	0.50	3	0.50	Mixed		
LIA	SG14/032	15	40	0	0	41	0	3	0	0	0	2.7		grain			3	0.99	1	0.01	Mixed		
MBA	SG10/054	20	36	6	0	37	1	0	0	0	1	1.8		0.0			3	1.00	4	0.00	Mixed		
MBA	CG/024	7	48	0	0	43	1	1	0	0	0	7.1		0.0			3	1.00	4	0.00	Mixed		
LIA	SG22/024	11	44	0	0	41	3	0	1	0	0	4.0		0.1			3	0.99	4	0.01	Mixed		
RB	CF/1107	19	34	23	0	20	0	3	1	0	0	1.8	grain	grain			4	0.82	3	0.18	Mixed		
MIA	MO2/012	12	41	0	0	41	1	0	0	0	0	5	3.3		0.0		4	0.96	3	0.04	Mixed		
MIA/LIA	SS/072	25	28	0	0	43	0	0	0	0	0	4	1.2		grain		4	0.94	3	0.06	Mixed		
MIA/LIA	SG13/153	3	44	0	0	45	0	8	0	0	0	14.3		grain			4	0.70	3	0.30	Mixed		
MIA	MO2/013	15	32	0	0	31	2	18	0	0	0	3	2.2		0.1		4	1.00	3	0.00	Mixed		
LIA?	HG1/025	0	46	29	0	25	0	0	0	0	0	glume	grain	grain								Mixed	

Table 5.5 cont.

Period	Sample	Principal crop components - percentages (%)											Internal Taxa Ratios				Discriminant Weed				Final classification	
		GW Grain	GW Glume Base	FT Wheat Grain	FTW Rachis	Barley	Barley Rachis	Oat Grain	Rye Grain	Rye Rachis	Flax	Pulse	Glume:Grain	Rachis:Grain	Rachis:Grain	Rachis:Grain	1st Group	Probability	2nd Group	Probability		
e)		%	%	%	%	%	%	%	%	%	%	GLW	FTW	BAR	RYE							
VLIA?	HG1/006c	6	40	32	0	21	0	2	0	0	0	7.1	grain	grain		3	1.00	4	0.00	Mixed		
LIA	SG12/165	34	9	7	0	47	0	1	1	1	0	0.3	grain	grain		4	0.95	3	0.05	Mixed		
LIA	SS/276	7	36	0	0	57	0	0	0	0	0	5.5		grain						Mixed		
LIA	SG23/037	18	23	0	0	56	1	1	0	0	0	1.3		0.0		3	0.99	4	0.01	Mixed		
MIA/LIA	SG12/261	25	13	4	0	52	0	5	0	0	0	0.5	grain	0.0		4	0.96	3	0.04	Mixed		
EIA	MC/1361	35	2	13	0	50	0	0	0	0	0	0.1	grain	grain						Mixed		
MIA/LIA	SG13/118	2	35	0	0	61	2	0	0	0	0	16.6		0.0		4	0.95	3	0.05	Mixed		
LIA?	HG1/014	9	28	59	0	4	0	0	0	0	0	3.3	grain			3	0.99	4	0.01	Mixed		
LIA	SG13/265	25	5	0	0	65	1	5	0	0	0	0.2		0.0		3	1.00	4	0.00	Mixed		
MIA	SG14/044	7	20	0	0	67	0	6	0	0	0	2.8		grain		3	0.86	4	0.14	Mixed		
LIA	SG23/034	12	9	23	0	57	0	0	0	0	0	0.8	grain	grain		3	0.99	1	0.01	Mixed		

5.6 Classification of weed seed types

(+) = taxon where some items have been proportionately assigned

Big, Free, Heavy

Fumaria L. sp.,
Ranunculus L. pitted surface type,
Ranunculus parviflorus L.,
Ranunculus L. sp.,
Vicia cf. *hirsuta* (L.) Gray,
Vicia/Lathyrus L. sp. Type 1,
>1mm *Vicia* L. sp./*Lathyrus* L. sp.; *Vicia*
cf. *tetrasperma* (L.) Schreb.,
Fallopia convolvulus (L.) Á. Löve,
Polygonaceae Large indet.,
Polygonaceae,
Galium aparine L.,
Galium L. indet.; *Galium* cf. *verum* L.,
Veronica hederifolia L.; cf. *Veronica* L. sp.,
Bromus hordeaceus L. ssp.
hordeaceus/secalinus,
Bromus L. sp.,
Large grass,

Big, Headed, Heavy

Raphanus raphanistrum L. pod,
Anthemis cotula L.,

Small, Free, Light

Euphrasia L. sp./*Odontites vernus*
(Bellardi) Dumort.,
Tripleurospermum inodorum (L.) Sch.
Bip.,
Valerianella dentata (L.) Pollich.,
Juncus L. sp.
Anisantha sterilis (L.) Nevski.; cf.
Anisantha sterilis,

Small, Headed, Light

Papaver L. sp.; *Papaver rhoeas*
L./*dubium* L./*hybridum* L./*lecoqii*
Lamotte,
Lolium L. sp.,

Small, Headed, Heavy

Malva L. sp.

Small, Free, Heavy

<1mm *Vicia* L. sp./*Lathyrus* L. sp.; *Vicia*
cf. *tetrasperma* (L.) Schreb.,
Trifolium L. sp.; *Trifolium* cf. *dubium*
Sibth,
Small Legume indet.; *Medicago* L. sp.,
Potentilla L. type,
Brassica/Sinapis sp.,
cf. *Brassica* L./*Sinapis* L. sp.,
Brassicaceae indet.; *Thlaspi arvense* L.,
Persicaria maculosa Gray,
Persicaria lapathifolia (L.) Delarbre,
Polygonum aviculare agg. X2,
Persicaria L. sp.,
Polygonaceae small indet.; (Rumex B),
Rumex L. sp. A type+,
Rumex L. sp.+,
Stellaria cf. *media* L. Vill.,
Caryophyllaceae indet.+; *Stellaria* cf.
graminea L.; *Arenaria serpyllifolia* L.;
Caryophyllaceae /*Malva* L. sp.,
Caryophyllaceae indet. Small,
Chenopodium album L. group,
Chenopodium rubrum L./*glaucum* L.,
Chenopodium L. indet.+,
Atriplex L. spp.,
Montia fontana L.,
Sherardia arvensis L.,
Hyoscyamus niger L.,
Solanum nigrum L.,
Veronica cf. *arvensis* L.,
Plantago lanceolata L.,
Eleocharis palustris (L.) Roem.
Schult./*uniglumis* (Link) Schult.,
Bicovex *Carex* L. A spp.,
Carex L. sp.,
Small *Carex* L. sp.,
Poa annua L.,
Phleum pratense L.,
Danthonia decumbens (L.) DC.,
Medium grass,
Small grass; grass B; C,

Table 5.7 Codes for crop taxa/items used in the crop correspondence**analyses.** (+) = taxon where some items have been proportionately assigned

Crop items	CODE
Glume wheat+ wheat sp. + assigned cereal sp.	GLWGR+
Free threshing wheat + Wheat sp. + assigned cereal sp.	FTWGR+
Barley+ assigned cereal sp.	HORDGR+
Oat; cf. Oat grain	AVENAGR
Rye; cf. Rye grain	SECGR
Spelt glume bases+; assigned glume wheat glume bases	SPELTGB+
Emmer glume bases+ assigned glume wheat glume bases	DICOGB+
Free threshing wheat rachis +	FTWRA+
Barley rachis +	HORDRA+
Rye rachis; cf. Rye rachis	SECRA
Flax	FLAX
Celtic bean	VICFAB
Pea; cf. Pea	PEA

Table 5.8 Codes for weed/wild taxa/items used in correspondence analyses
 (+) = taxon where some items have been proportionately assigned

Weed Taxa	CODE	Weed Taxa	CODE
<i>Fumaria</i> L. sp.	FUMARIA	<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.	CHENOR
<i>Ranunculus</i> L. pitted surface type	RANUN1	<i>Chenopodium</i> indet.+	CHENOin
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray	VICHIR	<i>Atriplex</i> spp.	ATRIPLEX
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. Type 1	VIC/LAT1	<i>Montia fontana</i>	MONTIAF
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	VIC/LATsp	<i>Sherardia arvensis</i>	SHERARV
<i>Trifolium</i> L. sp.; <i>Trifolium</i> cf. <i>dubium</i> Sibth.	TRIFOLI	<i>Galium aparine</i> L.	GALLIUA
Small Legume indet.; <i>Medicago</i> L. sp.	SLEGS	<i>Galium</i> L. indet.; <i>Galium</i> cf. <i>verum</i> L.	GALLIUin
<i>Potentilla</i> L. type	POTENIL	<i>Plantago lanceolata</i> L.	PLANLAN
<i>Malva</i> L. sp.	MALVA	Lamiaceae indet.; Lamiaceae small indet.; <i>Galeopsis</i> sp.	LAMIAin
<i>Raphanus raphanistrum</i> L. pod	RAPH	<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.	EUPH/ODO
Brassicaceae indet.; <i>Thlaspi arvense</i> L.	BRASin	<i>Tripleurospermum</i> <i>inodorum</i> (L.) Sch. Bip.	TRIPINOD
<i>Persicaria</i> spp. group (<i>Persicaria maculosa</i> Gray, <i>Persicaria</i> <i>lapathifolia</i> (L.) Delarbre, <i>Persicaria</i> L. spp.)	PERSspp.	Asteraceae indet. small	ASTERSin
<i>Polygonum aviculare</i> L. agg.	POLYGAV	<i>Valerianella dentata</i> (L.) Pollich	VALDENT
<i>Fallopia convolvulus</i> (L.) Å. Löve	FALCON	<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus/secalinus</i>	BROMHO
Polygonaceae Large indet., Polygonaceae	POLYGL	<i>Anisantha sterilis</i> (L.) Nevski; cf. <i>Anisantha</i> <i>sterilis</i>	ANISSTER
Polygonaceae Small indet.; (<i>Rumex</i> B)	POLYGS	<i>Bromus</i> L. sp.	BROMsp
<i>Rumex</i> L. sp. A type+	RUMEXA	<i>Lolium</i> L. sp.	LOLIUM
<i>Rumex</i> L. sp.+	RUMEX2	<i>Phleum pratense</i> L.	PHLEUM
<i>Stellaria</i> cf. <i>media</i> L. Vill.	STELLME	Large Grass	GRASSL
Caryophyllaceae indet.+; <i>Stellaria</i> cf. <i>graminea</i> L.; <i>Arenaria serpyllifolia</i> L.; Caryophyllaceae/ <i>Malva</i> L. sp.	CARYin	Medium Grass	GRASSM
Caryophyllaceae indet. small	CARYSin	Small grass; small grass B; small grass C	GRASSS
<i>Chenopodium album</i> L. group	CHENOA	Small legume D type	TYPED

Table 5.9 Weed taxa classifications used in correspondence analyses of basic habitat preferences and taxonomic groups. (+) = taxon where some items have been proportionately assigned

Taxonomic group	Weed Taxa in group
Arable/ Ruderal	<i>Fumaria</i> L. sp. <i>Malva</i> L. sp. <i>Raphanus raphanistrum</i> L. <i>Persicaria maculosa</i> Gray <i>Fallopia convolvulus</i> (L.) Á. Löve Polygonaceae Large indet. Polygonaceae Small indet. <i>Rumex</i> L. sp. A type+ <i>Rumex</i> L. sp.+ <i>Stellaria</i> cf. <i>media</i> L. Vill. <i>Chenopodium album</i> L.group <i>Chenopodium rubrum</i> L./ <i>glaucum</i> L. <i>Chenopodium</i> L.indet.+ <i>Atriplex</i> L. spp. <i>Sherardia arvensis</i> L. <i>Tripleurospermum inodorum</i> (L.) Sch. Bip. <i>Valerianella dentata</i> (L.) Pollich
Galium	<i>Gallium aparine</i> L. <i>Gallium</i> L. indet.; <i>Gallium</i> cf. <i>verum</i> L.
Large seeded Grasses	<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus/secalinus</i> <i>Anisantha sterilis</i> (L.) Nevski; cf. <i>Anisantha sterilis</i> <i>Bromus</i> L. sp. Large Grass
Medium seeded Grasses	<i>Lolium</i> L. sp. <i>Pheum pratense</i> L. Medium Grass
Small seeded Grasses	Small grass
Vicia/ Lathyrus spp.	<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray <i>Vicia</i> L./ <i>Lathyrus</i> L. sp. Type 1 <i>Vicia</i> L./ <i>Lathyrus</i> L. sp.
Small seeded legumes	<i>Trifolium</i> L. sp.; <i>Trifolium</i> cf. <i>dubium</i> Sibth. small Legume indet.; <i>Medicago</i> L. sp.
Not classified	<i>Ranunculus</i> L. pitted surface type <i>Potentilla</i> L. type Caryophyllaceae indet.+; <i>Stellaria</i> cf. <i>graminea</i> ; <i>Arenaria serpyllifolia</i> ; Caryophyllaceae/ <i>Malva</i> sp. Caryophyllaceae indet. Small <i>Montia fontana</i> L. <i>Plantago lanceolata</i> L. <i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort. Asteraceae indet. Small Small Legume? D type

Table 5.10 Median pH preferences of weed taxa found growing following revised Grime et al. (2007), shaded taxa shows possible species results for identifications not to species level.

Weed taxa	Median pH (surface soil)	pH Inter- quartile range
<i>Malva</i> sp. (cf. <i>slyvestris</i> L.)	7	
<i>M. Slyvestris</i> L.	7	6.5-7.5
<i>M. Neglecta</i> Wallr.	7	6.5-7.5
<i>Fumaria</i> sp. (cf. <i>officinalis</i> L.)	7	6.5-7.5
<i>Sherardia arvensis</i> L.	7	6.5-7.5
<i>Anisantha sterilis</i> (L.) Nevski	7	6.5-7.5
<i>Euphrasia</i> sp./ <i>Odontites vernus</i>	7	
<i>Euphrasia officinalis</i> L.	7	6.5-7.5
<i>Odontites verna</i> (Bellardi) Dumort.	7	6.5-7.5
<i>Chenopodium album</i> L. group	7	6.5-7.5
<i>Chenopodium rubrum</i> L/ <i>glaucum</i>	7	
<i>Chenopodium glaucum</i> L.		
<i>Chenopodium rubrum</i> L.	7	6.5-7.5
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	7	6.5-7.5
<i>Polygonum aviculare</i> L. agg.	7	6.0-8.0
<i>Plantago lanceolata</i> L.	7	6.0-8.0
<i>Galium aparine</i> L.	6.5	6.0-7.0
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray	6.5	6.0-7.0
<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus/secalinus</i>	6.5	6.0-7.0
<i>Stellaria</i> cf. <i>media</i> L. Vill.	6.5	5.5-7.5
<i>Ranunculus</i> L.pitted surface type	6.5	
<i>R. Bulbosus</i> L.	6.5	5.5-7.5
<i>R. Repens</i> L.	6.5	5.5-7.5
<i>R. Sardous</i> Crantz	6.5	
<i>Persicaria lapathifolia</i> (L.) Delarbre	6.5	5.5-7.5
<i>Fallopia convolvulus</i> (L.) Á. Löve	6.5	5.5-7.5
<i>Persicaria maculosa</i> Gray	6.5	5.5-7.5
<i>Phleum pratense</i> L.	6.5	5.5-7.5
<i>Montia fontana</i> L.	6	5.5-6.5
<i>Raphanus raphanistrum</i> L. pod	6	5.0-7.0

Table 5.11 Life history and flowering periods. A= Annual, P=Perennial, s= summer, w=winter.

Weed taxa	Weed Code	Life History	Flower onset	Flowering Months												Flowering onset/length	
				J	F	M	A	M	J	J	A	S	O	N	D		
<i>Galium aparine</i> L.	GALLIUA	Aws	April				x	x	x								short-flowering, early-intermediate onset
<i>Ranunculus</i> L. sp.	RANUN1	P	May					x	x	(x)	(x)	(x)	(x)	(x)	(x)		?
<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus/secalinus</i>	BROMHO	Aw	May					x	x	x							short-flowering, early-intermediate onset
<i>Anisantha sterilis</i> (L.) Nevski	ANISSTER	Aws	May					x	x	x							short-flowering, early-intermediate onset
<i>Valerianella dentata</i> (L.) Pollich	VALDENT	As	June						x	x							short-flowering, early-intermediate onset
<i>Phleum pratense</i> L.	PHLEUM	P	June						x	x							short-flowering, early-intermediate onset
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray	VICHIR	Aw	June						x	x	x						short-flowering, early-intermediate onset
<i>Plantago lanceolata</i> L.	PLANLAN	P	April				x	x	x	x	x						medium flowering, intermediate onset
<i>Raphanus raphanistrum</i> L. pod	RAPH	As	May					x	x	x	x	x					medium flowering, intermediate onset
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.	EUPH/ODO	As	June						x	x	x	x					medium flowering, intermediate onset
<i>Malva</i> sp. (cf. <i>slyvestris</i> L.)	MALVA	P/A	June						x	x	x	x					medium flowering, intermediate onset
<i>Atriplex</i> L. spp.	ATRIPLEX	A	June						x	x	x	x	(x)				medium flowering, intermediate onset
<i>Persicaria maculosa</i> Gray	PERSMAC	As	June						x	x	x	x	x				medium flowering, intermediate onset
<i>Polygonum aviculare</i> L. agg.	POLYGAV	As	July						x	x	x	x	x				medium flowering, intermediate onset
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.	CHENOR	As	July							x	x	x					late flowering
<i>Chenopodium album</i> L. group	CHENOA	As	July							x	x	x	x				late flowering
<i>Fallopia convolvulus</i> (L.) Á. Löve	FALCON	As	July							x	x	x	x				late flowering
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	TRIPINOD	Aws	July							x	x	x	x				late flowering
<i>Fumaria</i> sp. (cf. <i>officinalis</i> L.)	FUMARIA	As	May					x	x	x	x	x	x				long-flowering
<i>Montia fontana</i> L.	MONTIAF	P/A	May					x	x	x	x	x	x				long-flowering
<i>Sherardia arvensis</i> L.	SHERARV	Aw	May					x	x	x	x	x	x				long-flowering
<i>Stellaria</i> cf. <i>media</i> L.	STELLME	Aws	March	x	x	x	x	x	x	x	x	x	x	x	x	x	long-flowering

Table 5.12 Overall proportions of oat (*Avena* sp.) and brome (*Bromus* sp.) in samples with 50 cereal items or more.

	EBA/MBA	LBA/EIA	MIA	MIA/LIA	LIA	RB
Total no. <i>Avena</i> sp.	7	0	52	59	65	58
Total no. <i>Bromus</i> spp.	7	3	349	912	213	85
% <i>Avena</i> sp.	50.00	0.00	12.97	6.08	23.38	40.56
% <i>Bromus</i> sp.	50.00	100.00	87.03	93.92	76.62	59.44

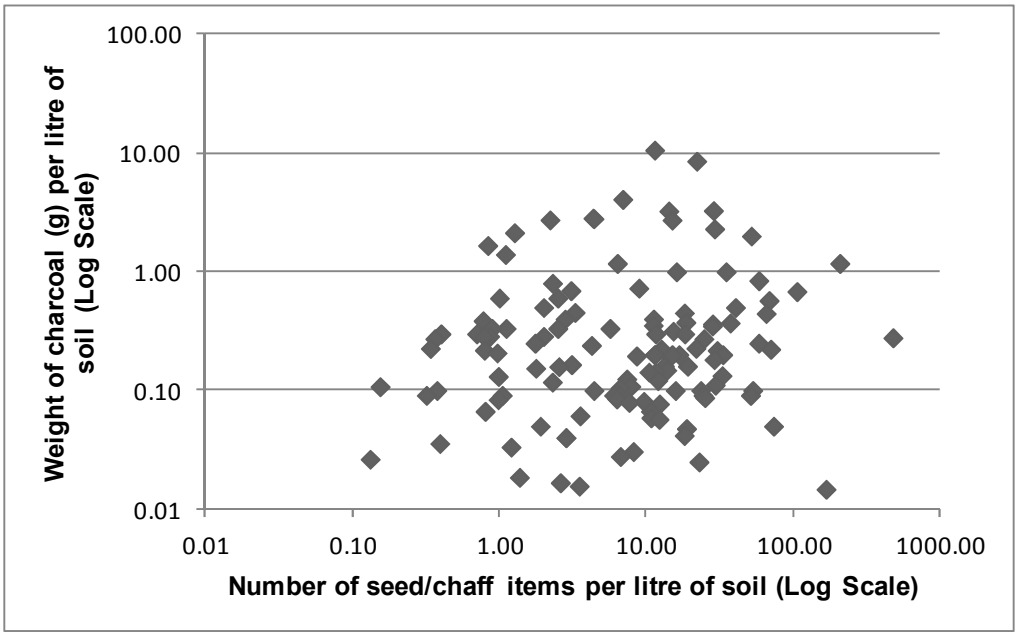


Figure 5.1 Scatter plot comparing the density of seed and chaff items against density of wood charcoal in samples.

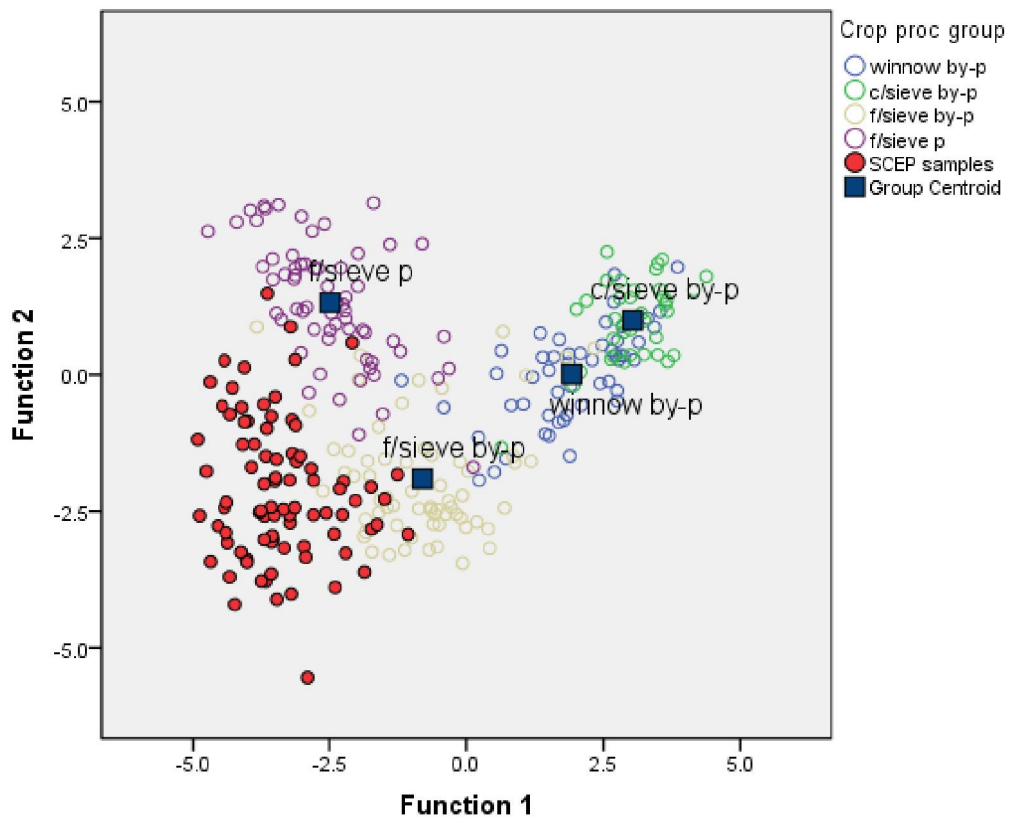


Figure 5.2 Discriminant analysis plot of weed seed categories in the SCEP samples compared to product and by-product samples from ethnographic crop processing at Amorgos, Greece.

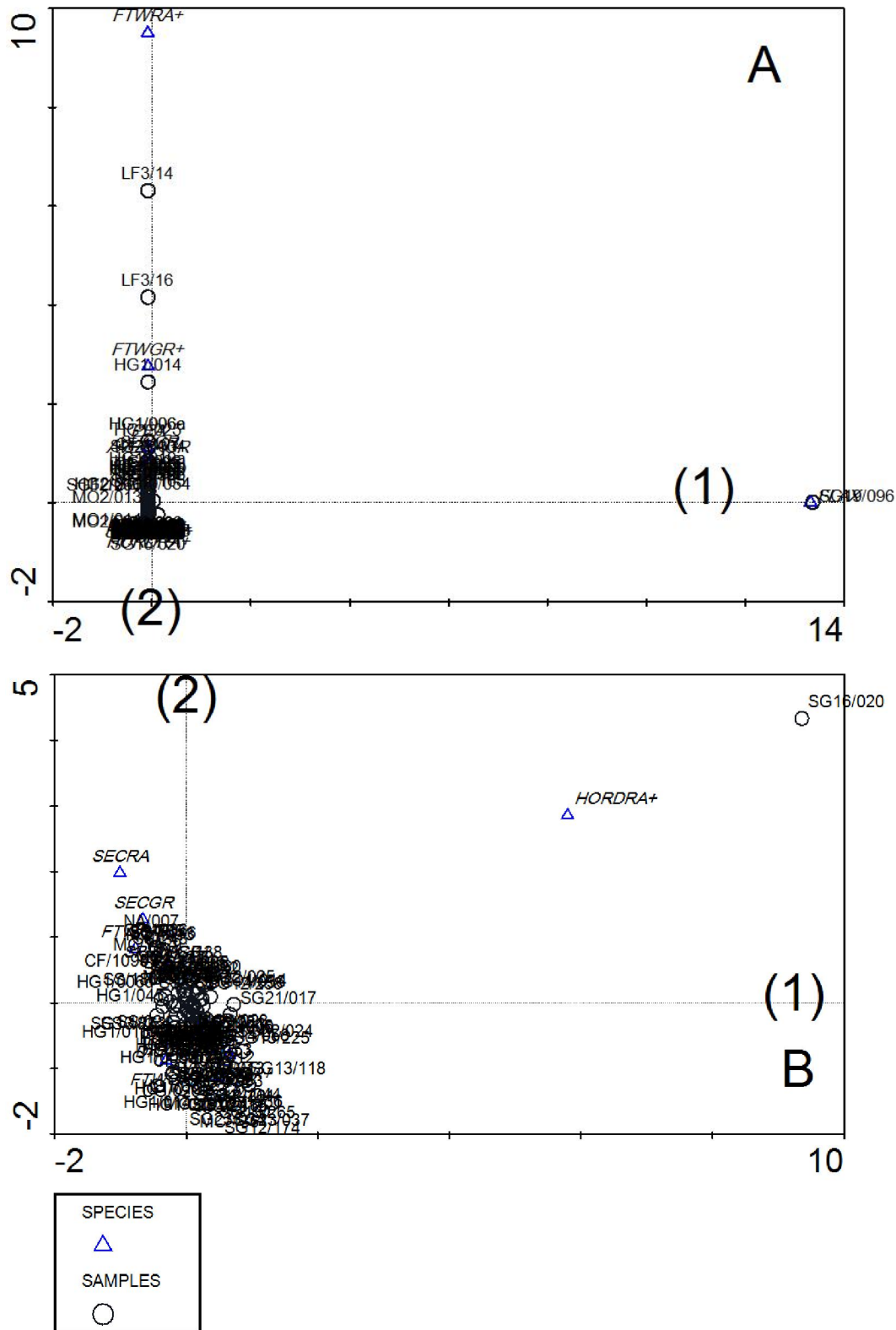


Figure 5.3 Correspondence analysis of crops for samples with ≥ 50 crop items. A) plot of samples and species for all 98 SCEP, B) plot of samples and species for all SCEP samples excluding SG19/096, LF3/014 & LF3/016

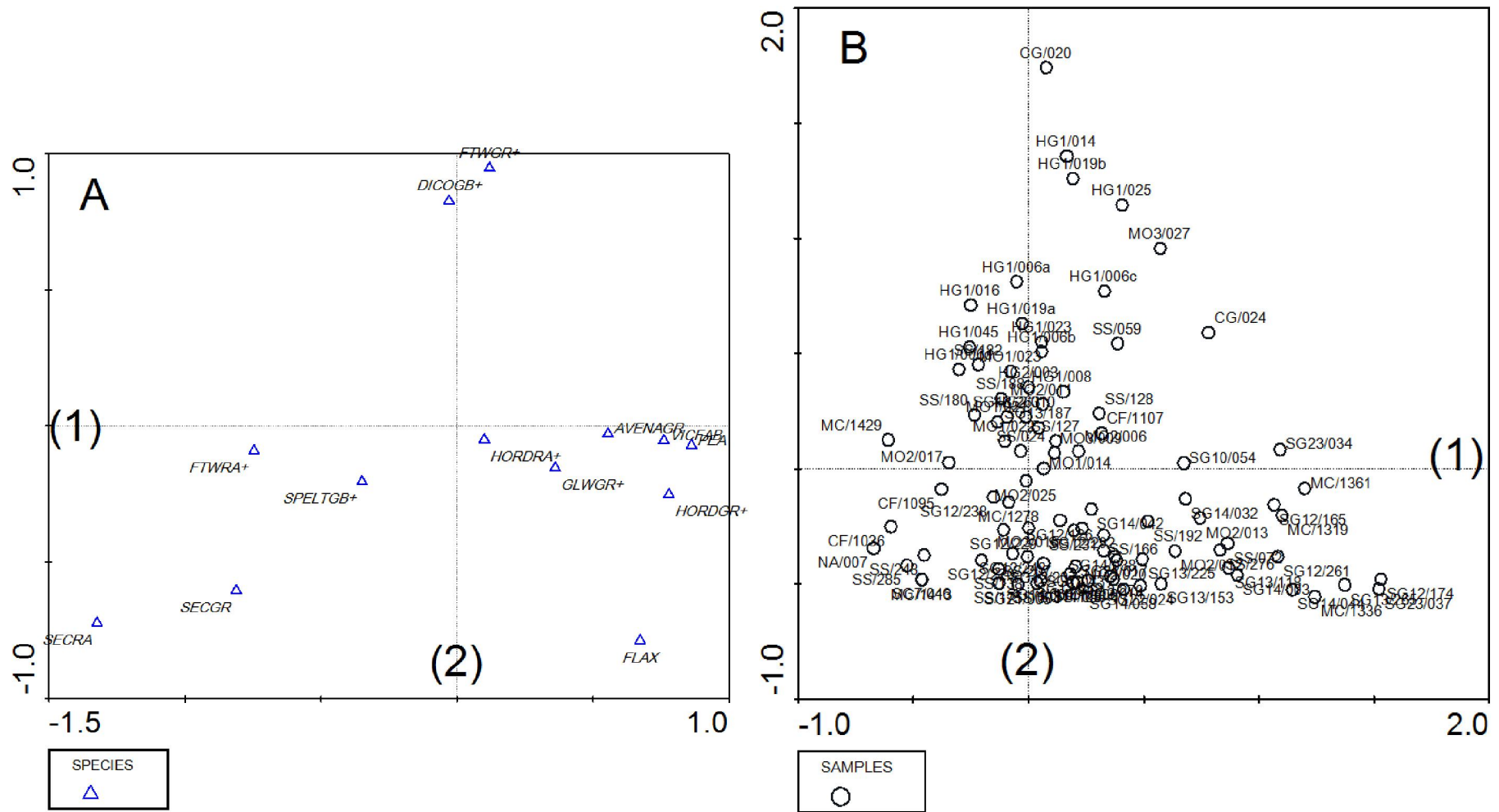


Figure 5.4 Correspondence analysis of crops for samples with ≥ 50 crop items (excluding outliers). A) plot of species, B) plot of samples

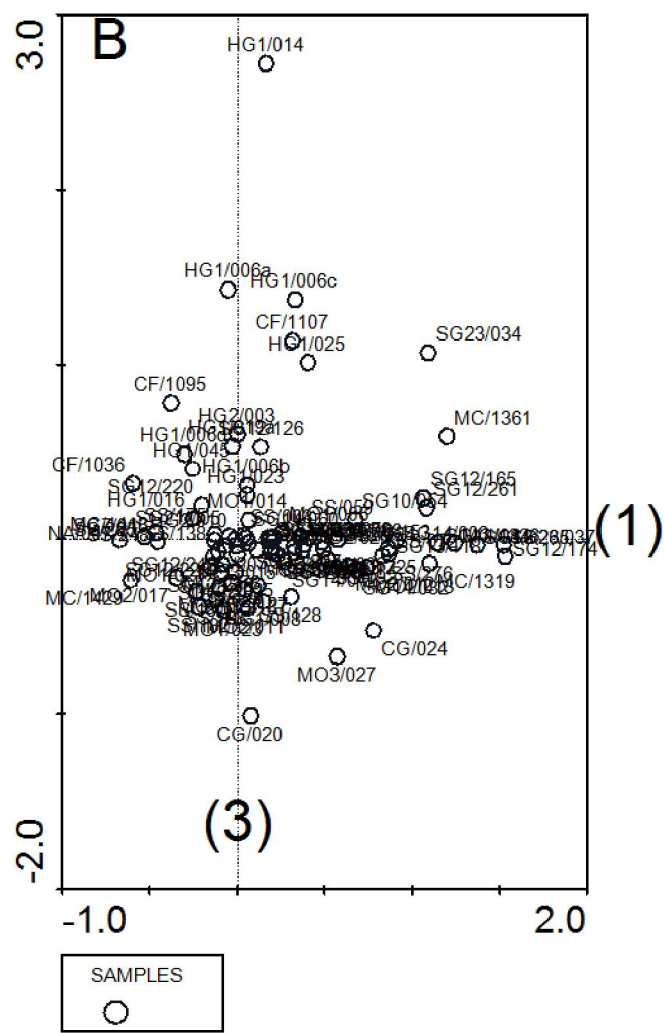
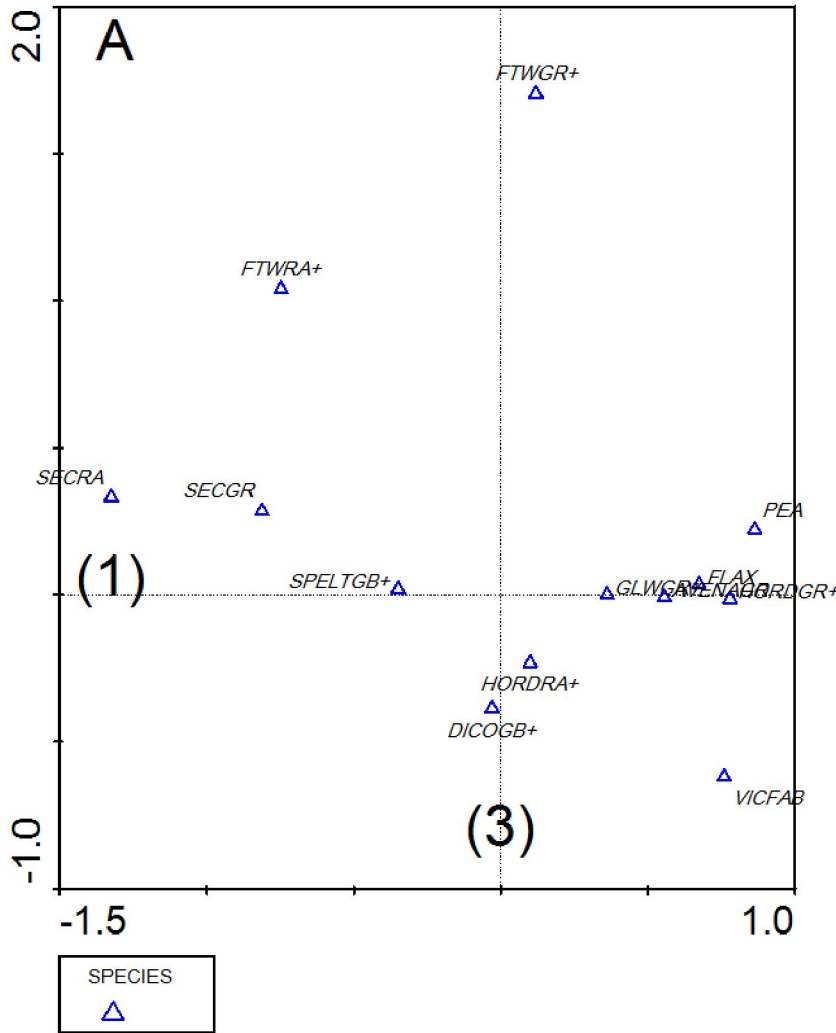
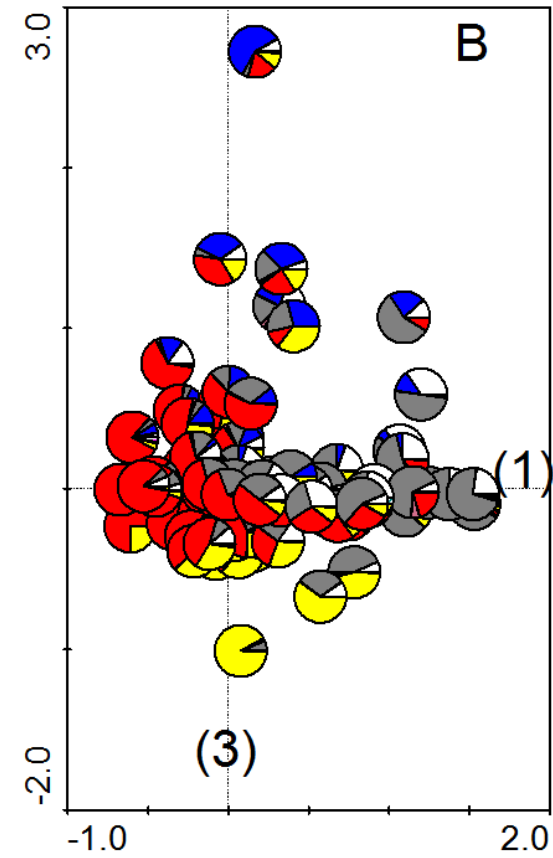
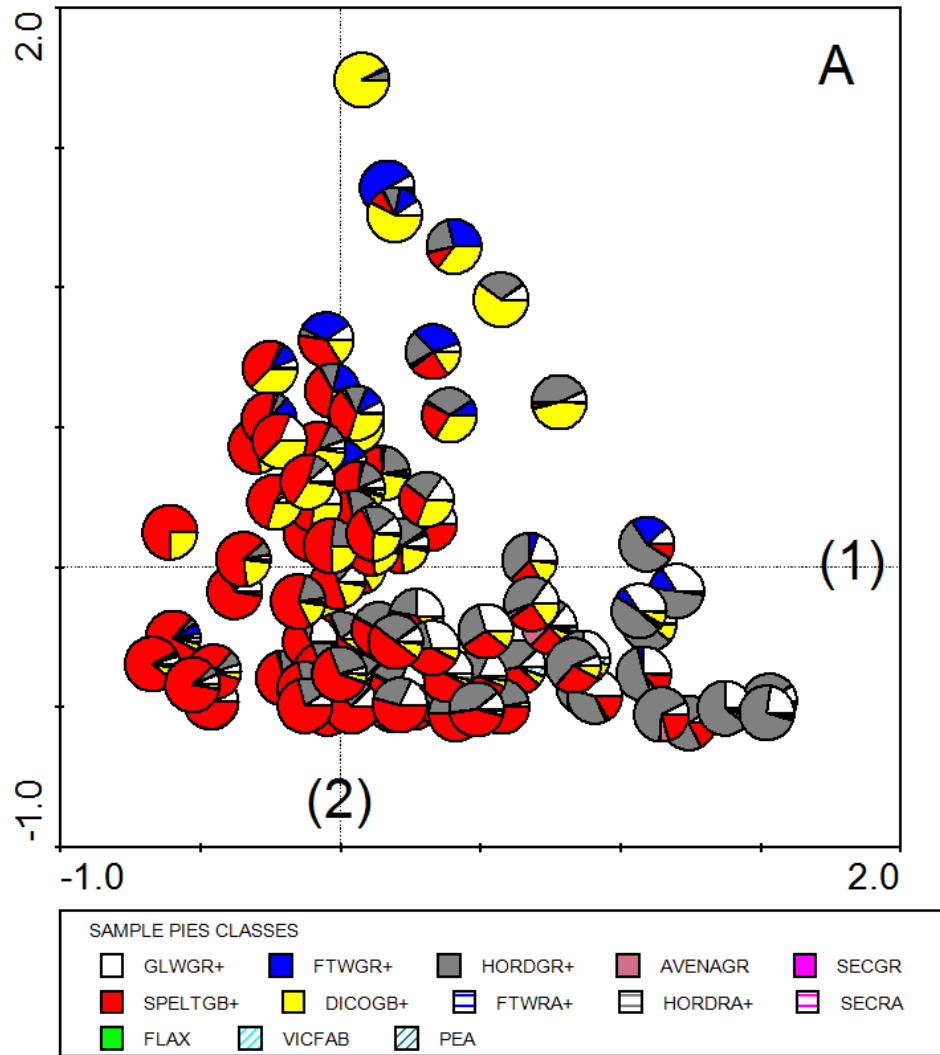


Figure 5.5
Correspondence analysis of crops for all samples with ≥ 50 crop items (excluding outliers). Plot of axis 1 against axis 3. A) plot of species, B) plot of samples



5.6 Correspondence analysis of crops for all samples with ≥ 50 crop items (excluding outliers) with sample points showing crop composition. A) plot of axis 1 against axis 2, B) plot of axis 1 against axis 3

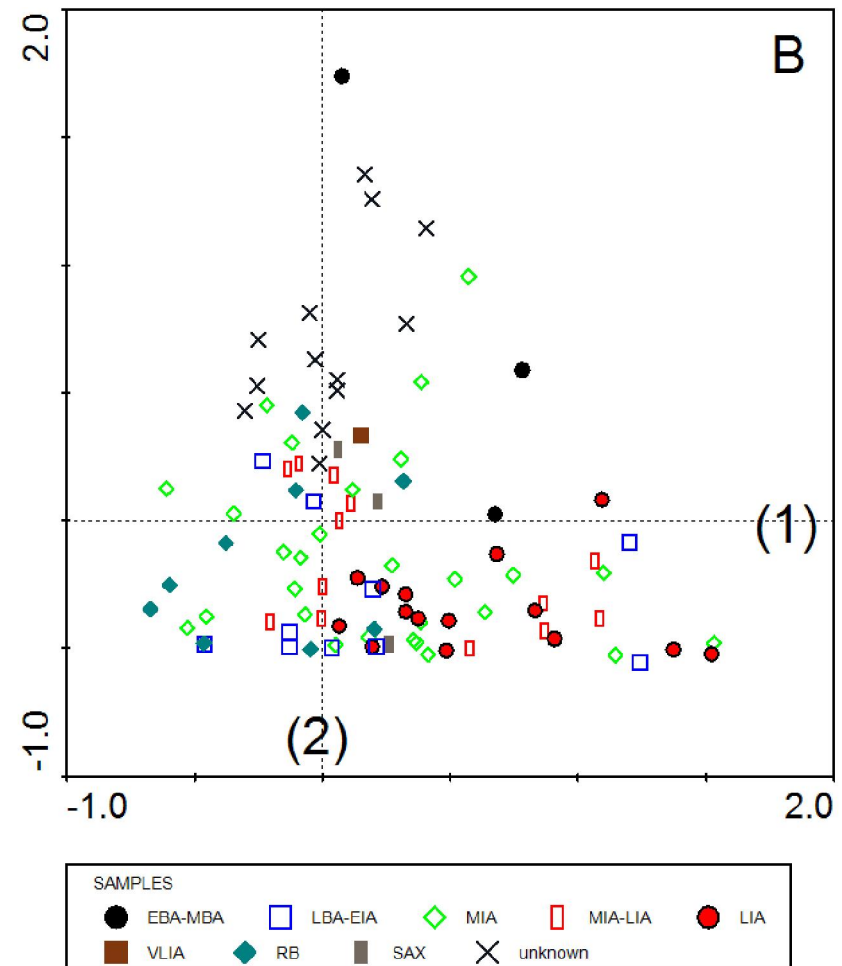
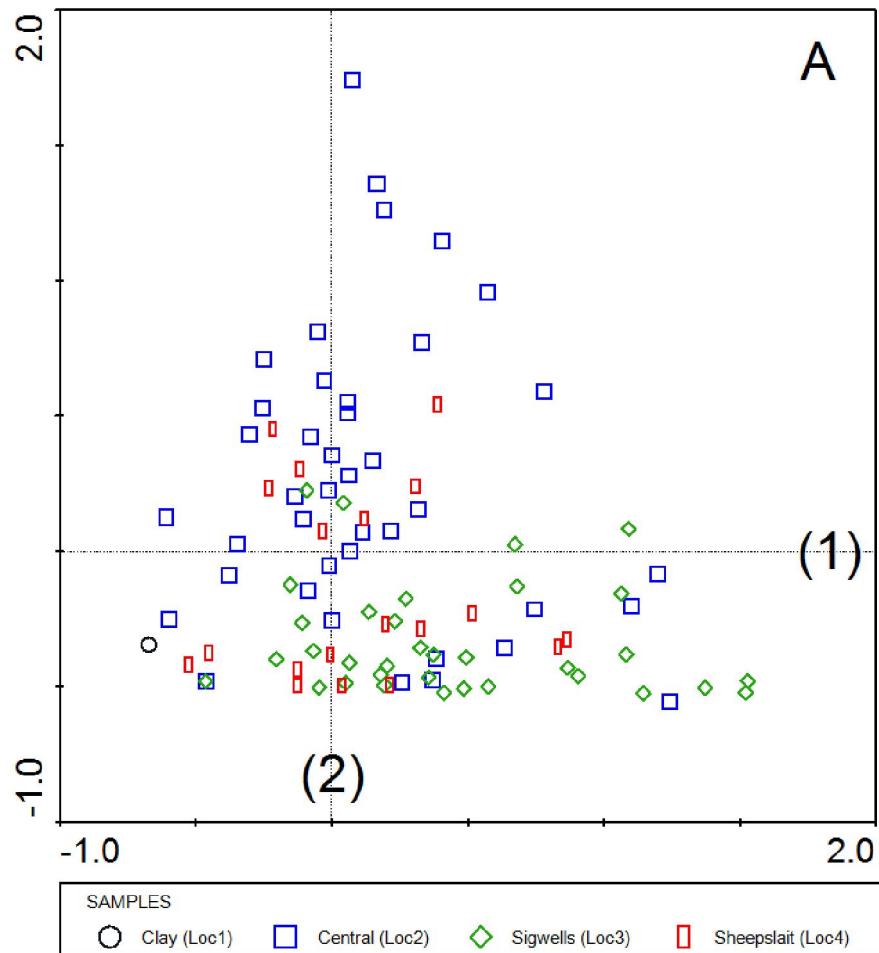


Figure 5.7 Correspondence analysis of crops for all samples with ≥ 50 crop items (excluding outliers). A) sample points coded according to locality, B) sample points coded according to chronological period

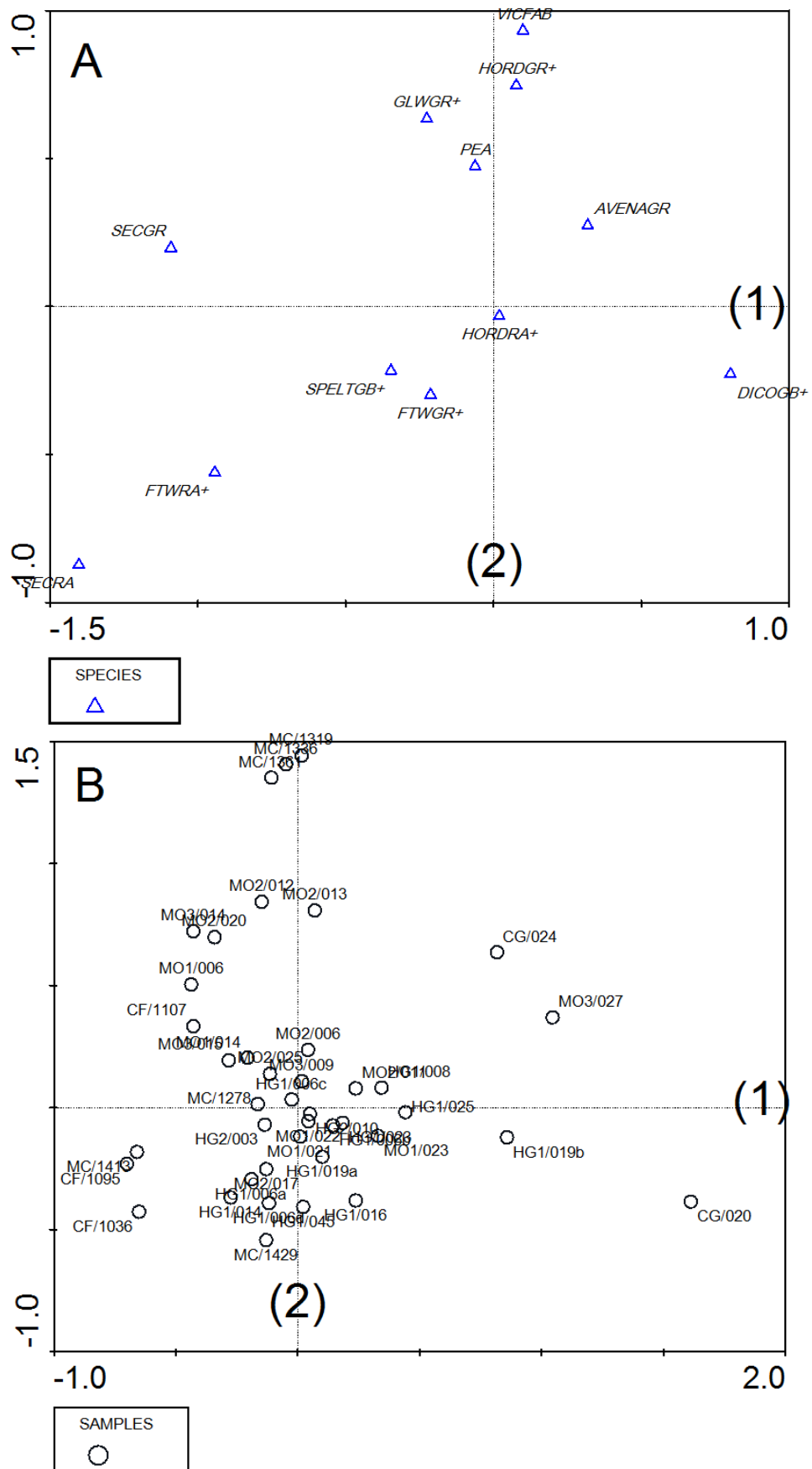
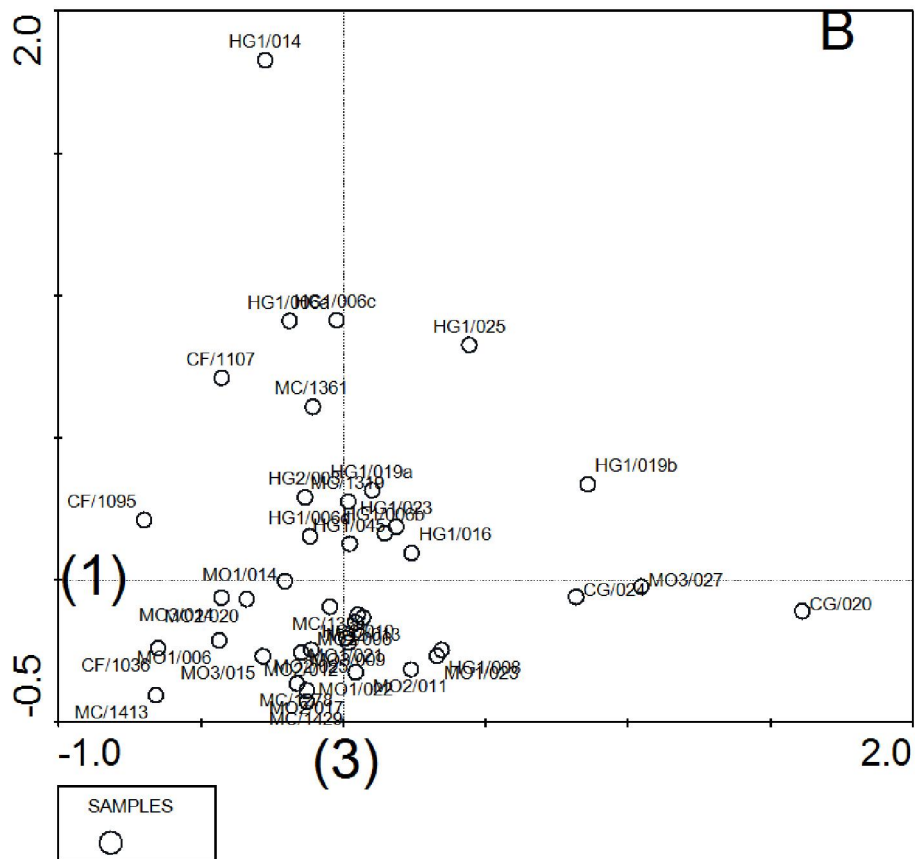
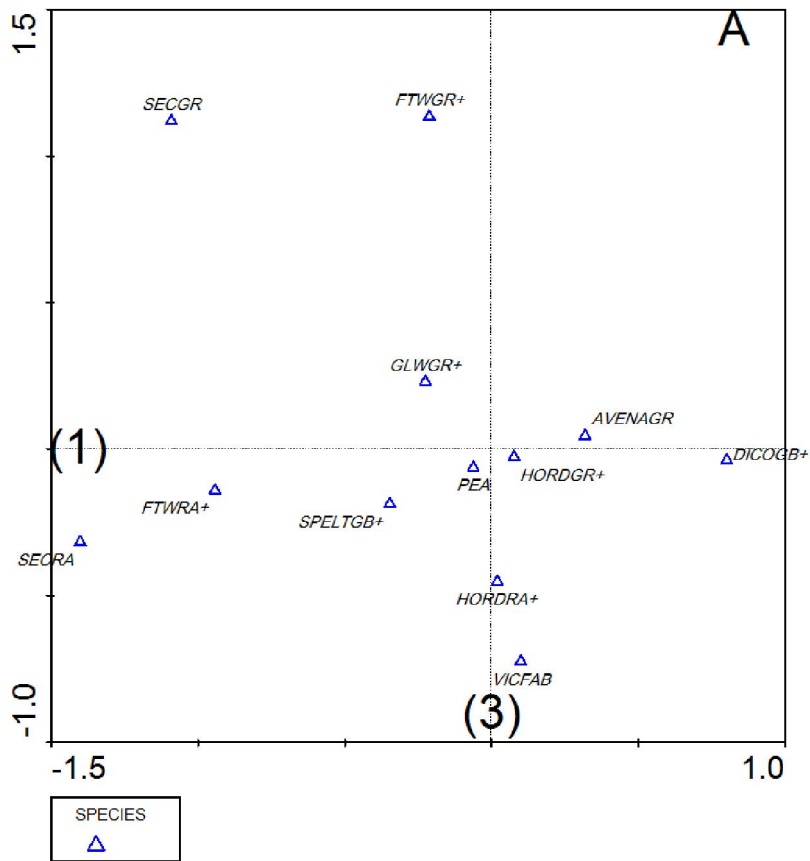
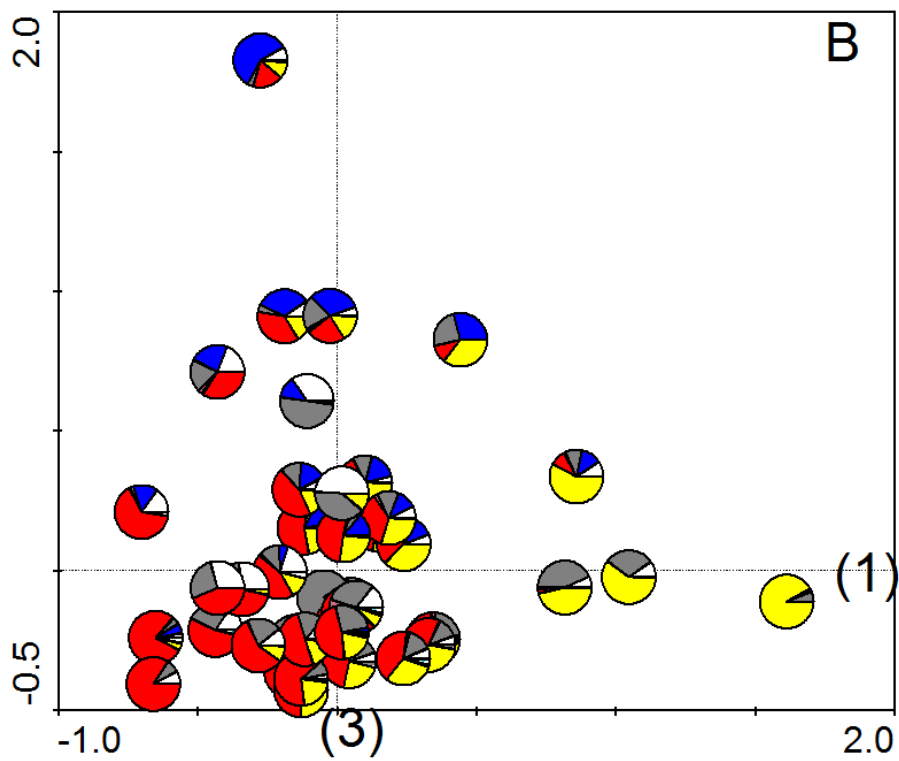
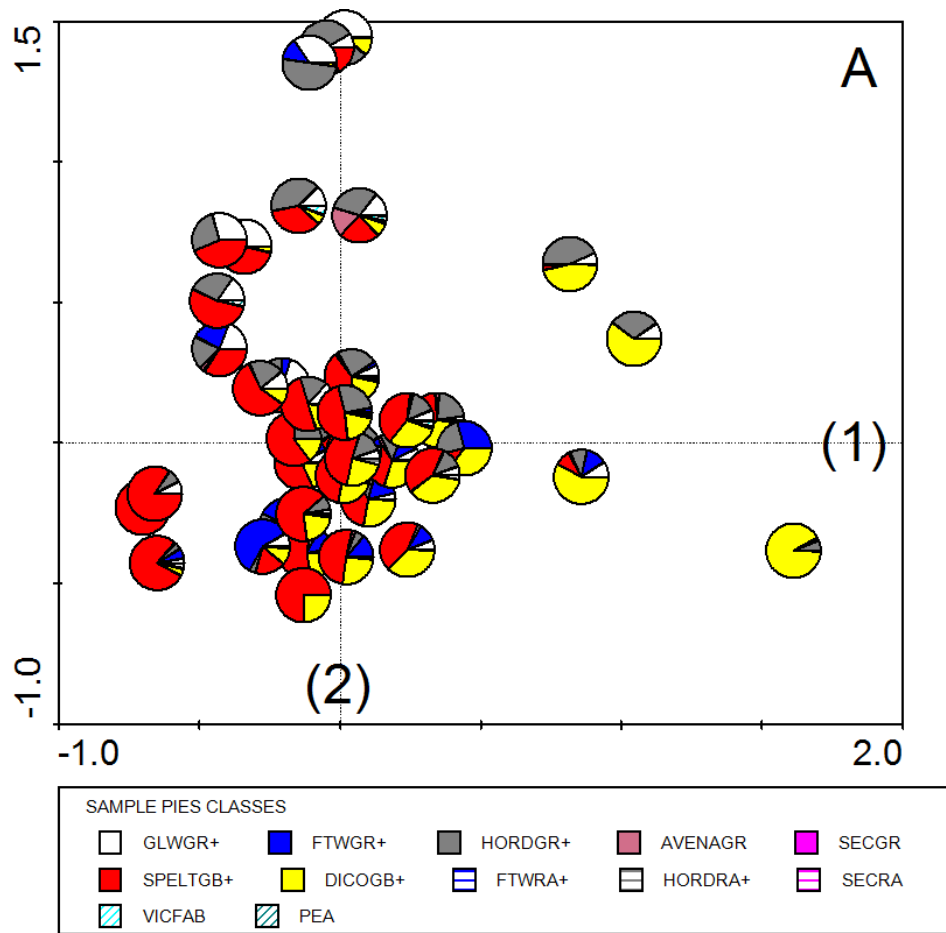


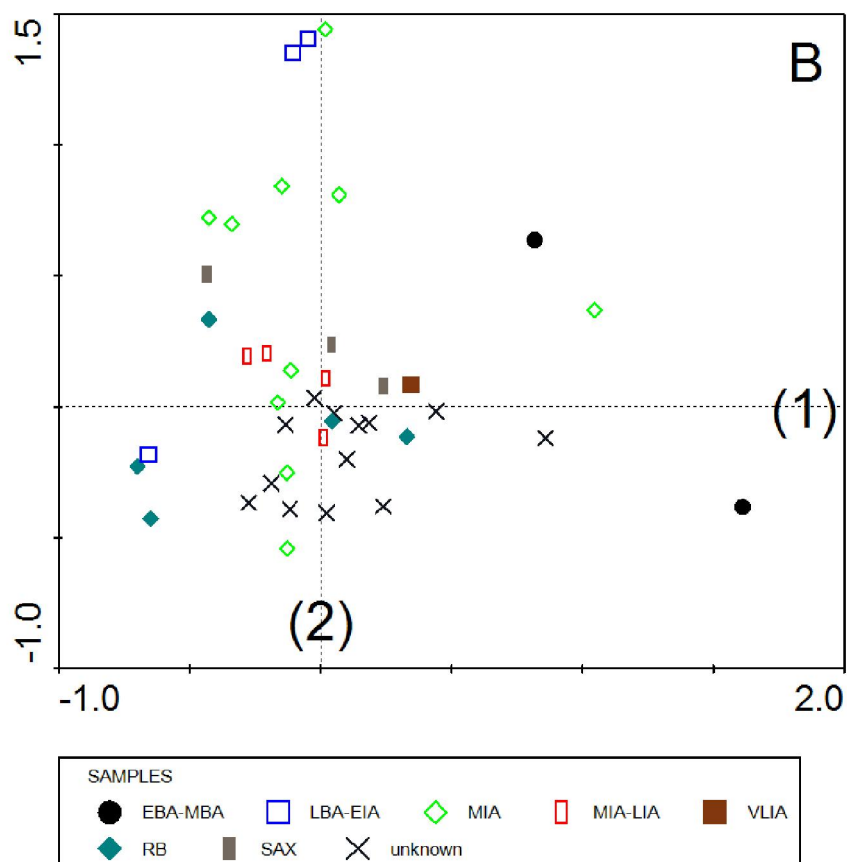
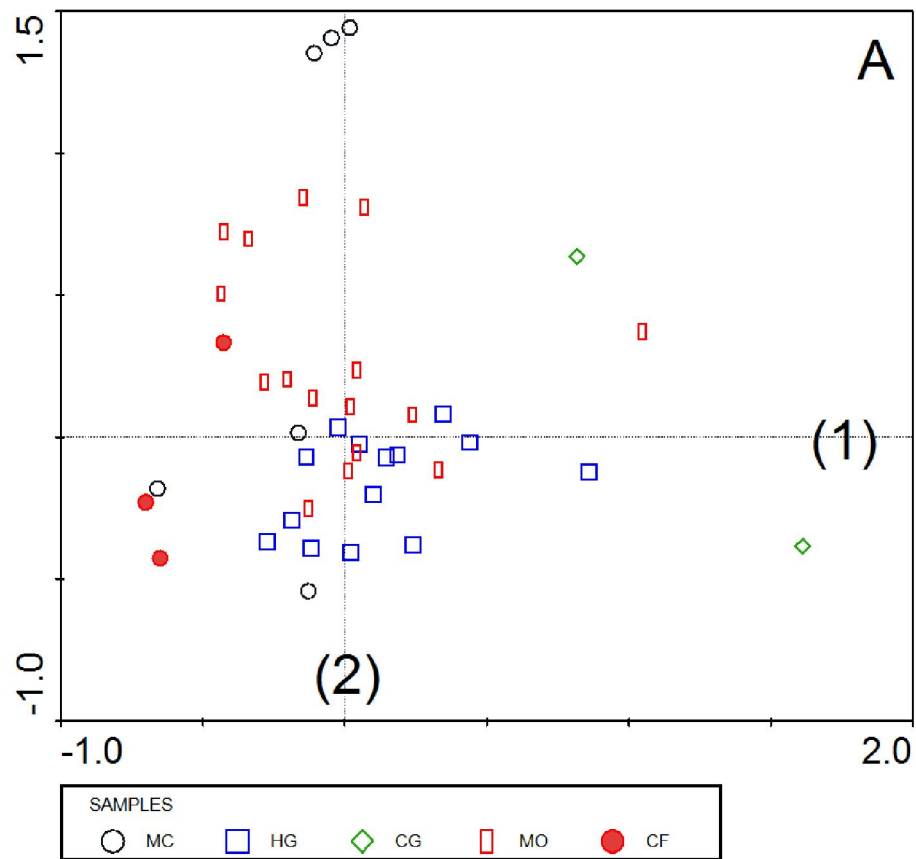
Figure 5.8 Correspondence analysis of crops for samples from the Central area (Locality 2). A) plot of species, B) plot of samples



5.9 Correspondence analysis of crops for samples from the Central area (Locality 2). Plot of axis 1 against axis 3. A) plot of species, B) plot of samples



5.10 Correspondence analysis of crops for samples from the Central area (Locality 2), with sample points showing crop composition. A) plot of axis 1 against axis 2, B) plot of axis 1 against axis 3



5.11 Correspondence analysis of crops for samples from the Central area (Locality 2). A) sample points coded according to site, B) sample points coded according to chronological period

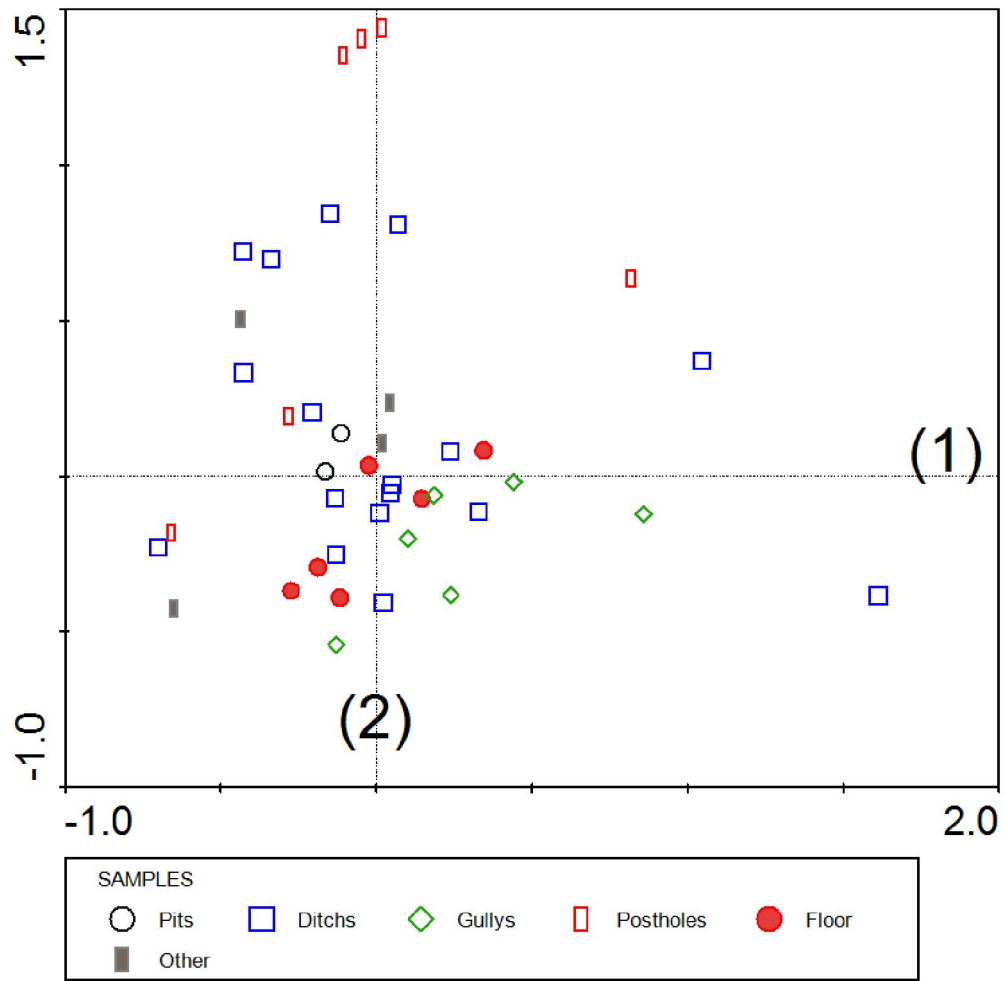


Figure 5.12 Correspondence analysis of crops for samples from the Central area (Locality 2), with sample points coded according to depositional context

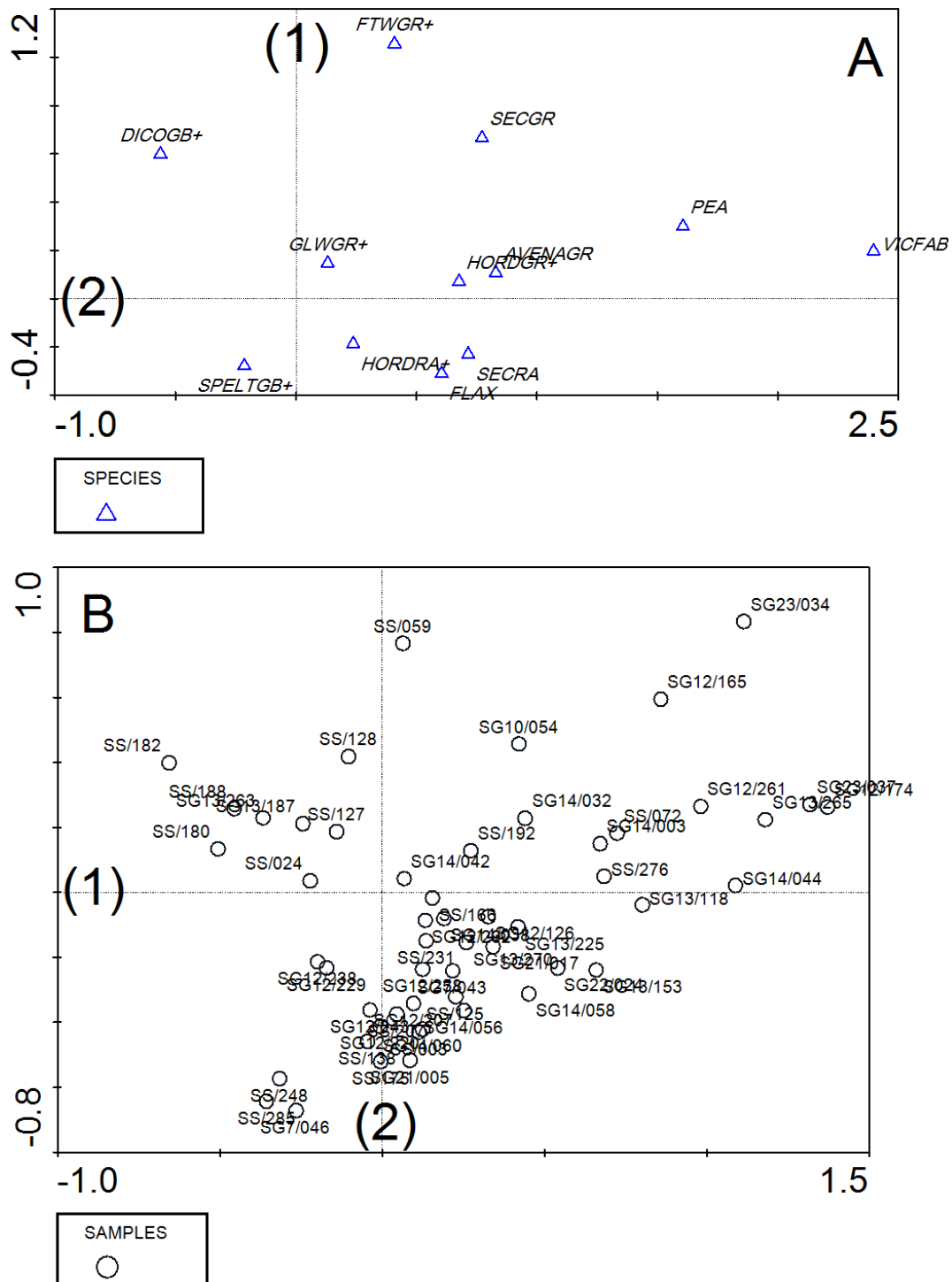
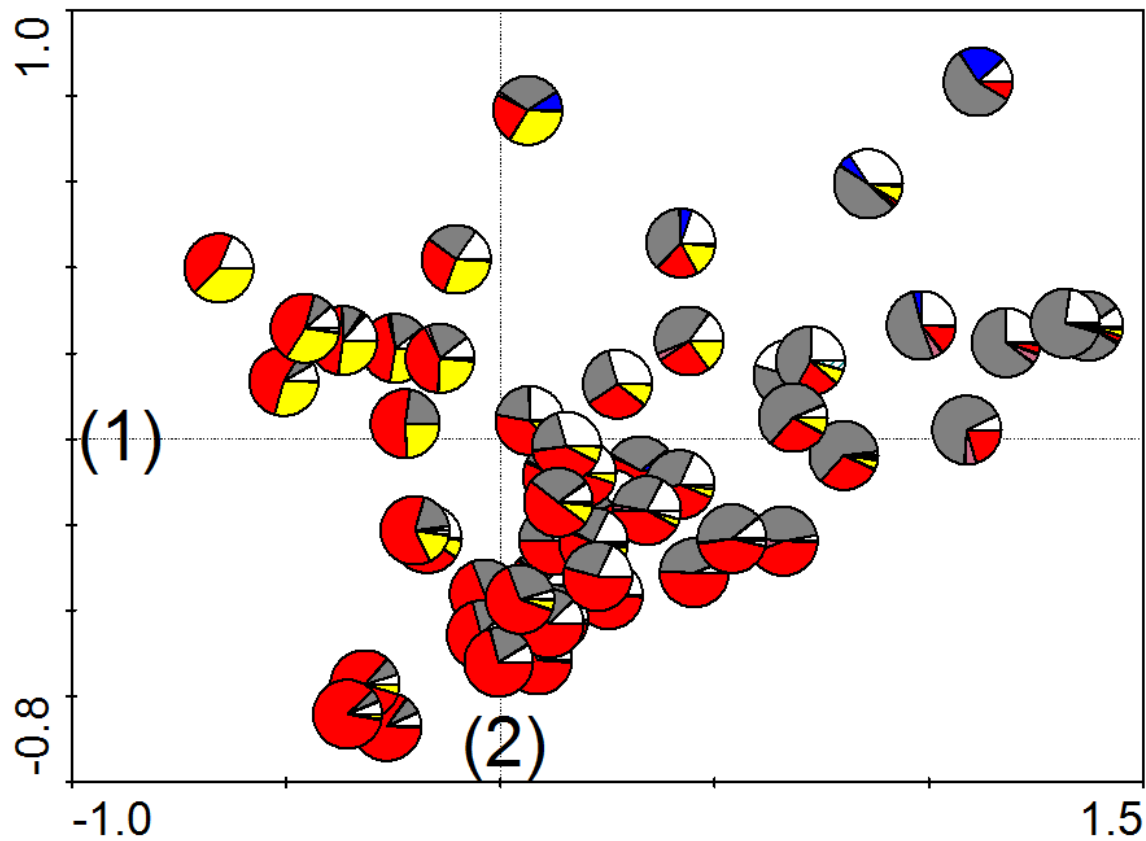
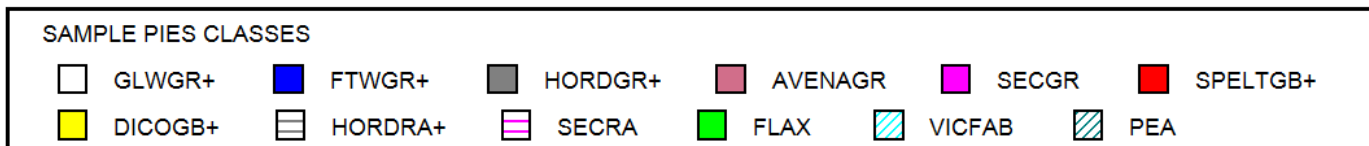


Figure 5.13 Correspondence analysis of crops for samples from Sigwells and Sheepslait (Localities 3 & 4). **A)** plot of species, **B)** plot of samples



5.14 Correspondence analysis of crops for samples from Sigwells and Sheepslait (Localities 3 & 4), with sample points showing crop composition



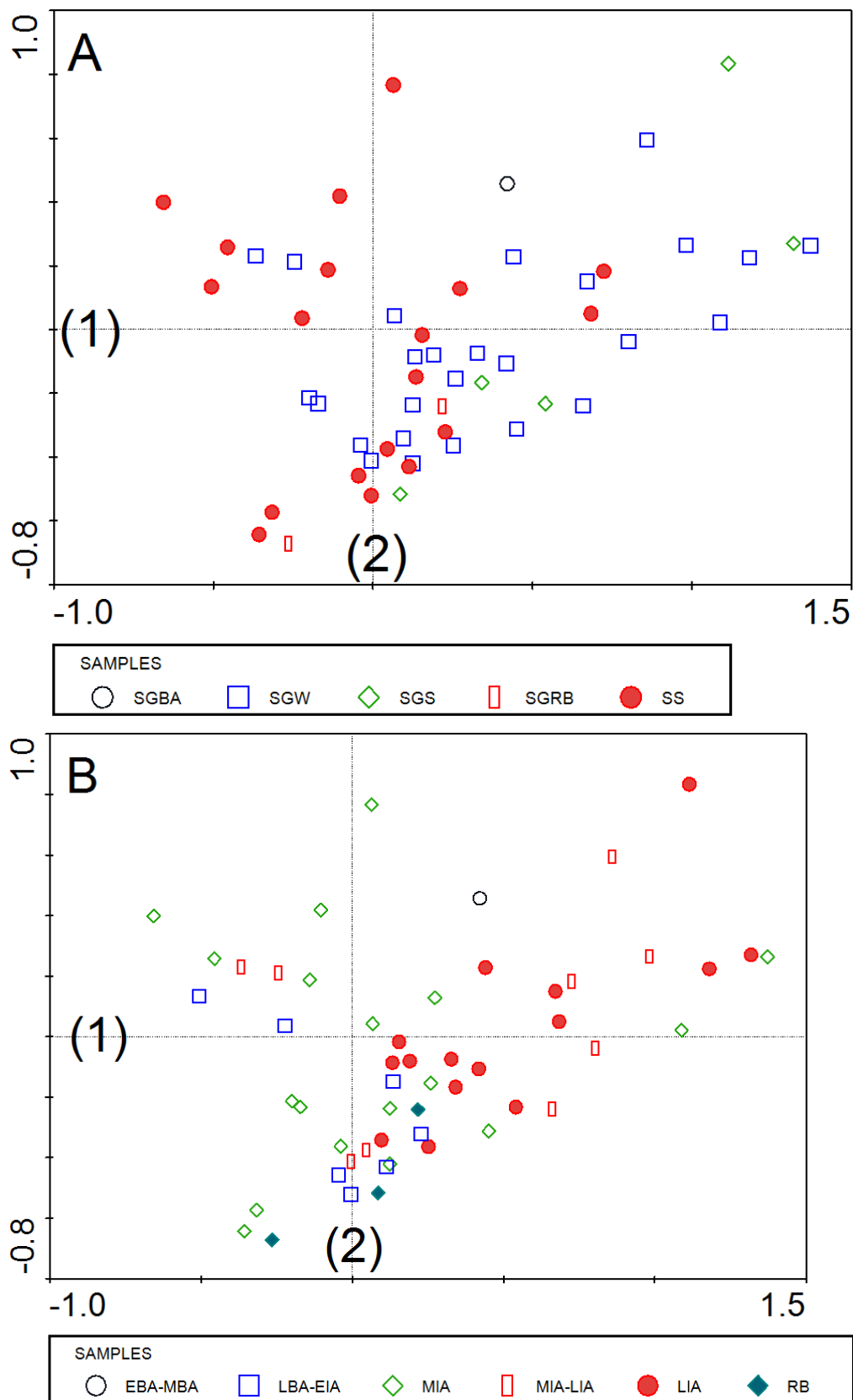


Figure 5.15 Correspondence analysis of crops for samples from Sigwells and Sheepslait (Localities 3 & 4). A) sample points coded according to site, B) sample points coded according to chronological period

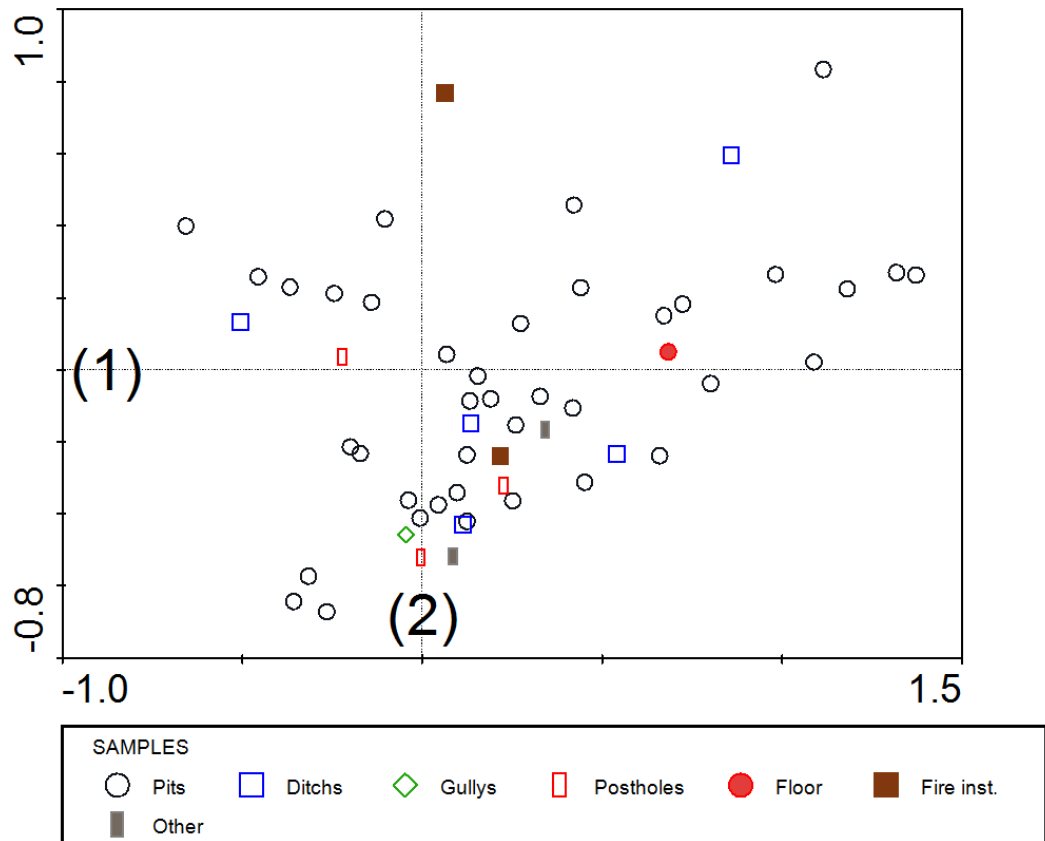


Figure 5.16 Correspondence analysis of crops for samples from Sigwells and Sheepslait (Localities 3 & 4), with sample points coded according to depositional context

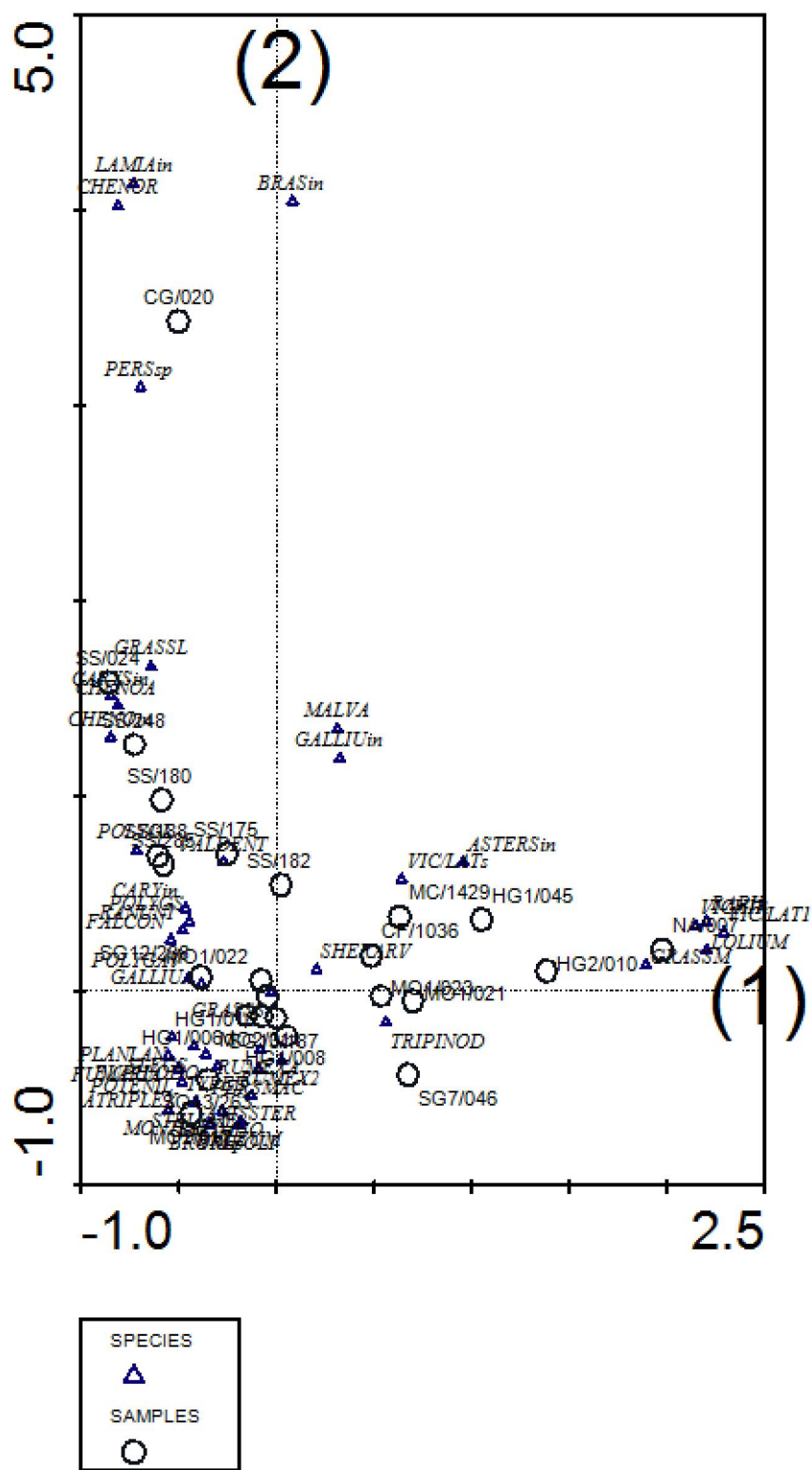


Figure 5.17 Correspondence analysis of weeds from glume wheat fine sieving by-products. Plot of samples and species.

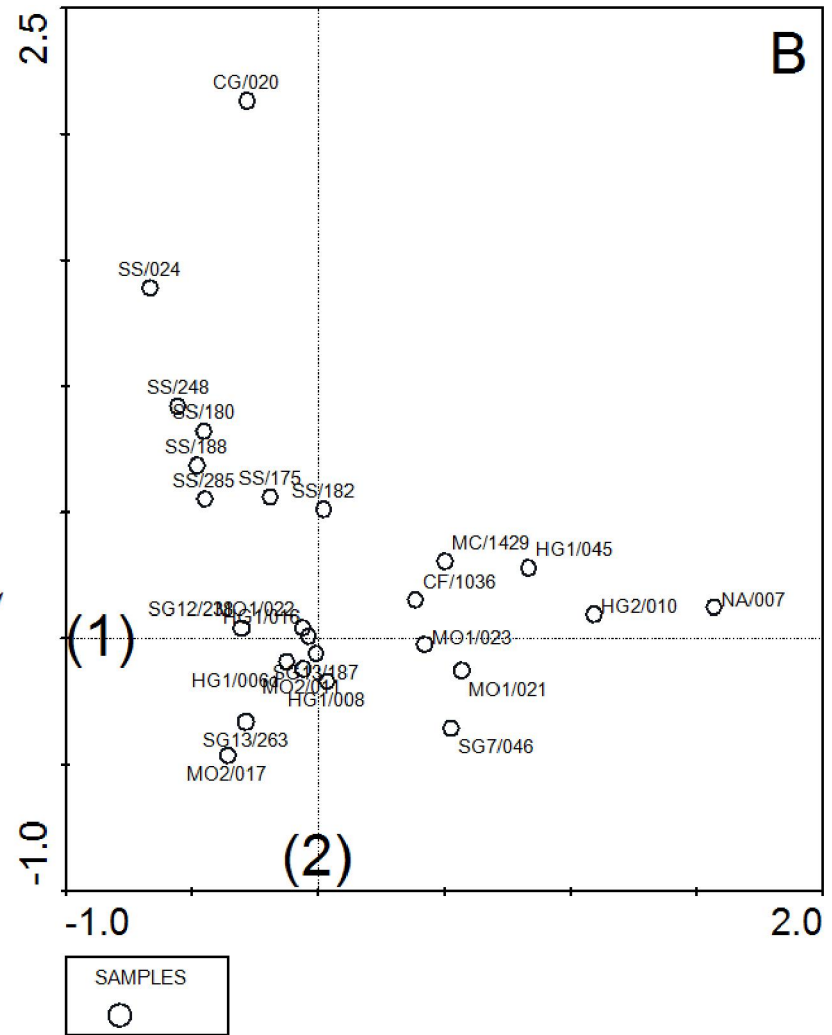
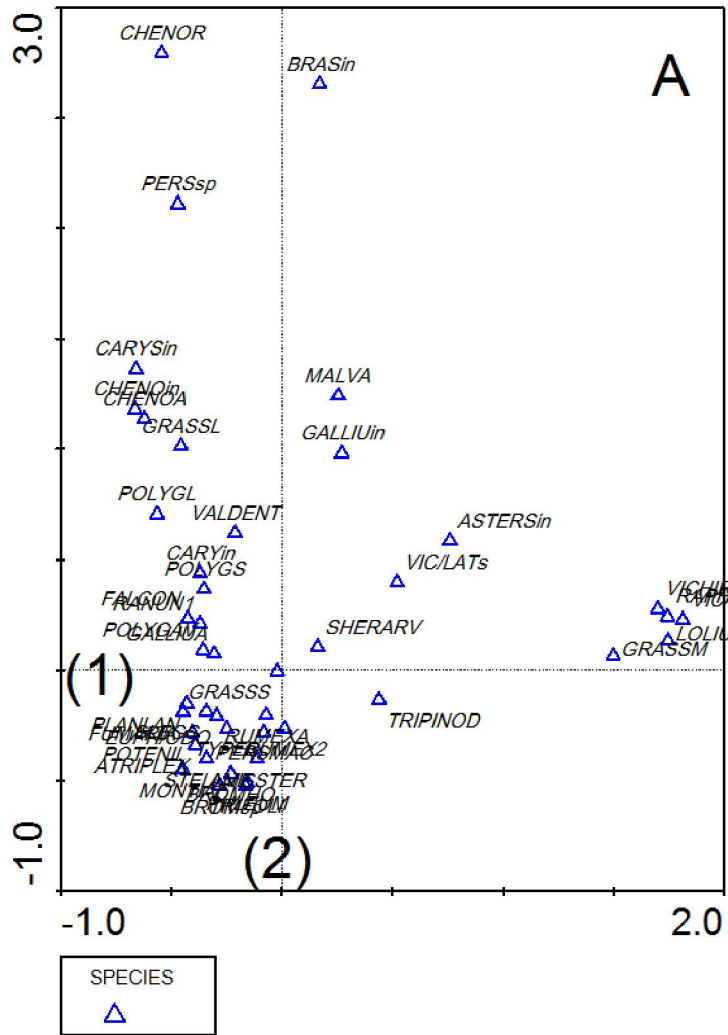


Figure 5.18
Correspondence
analysis of weeds
from glume wheat
fine sieving by-
products
(excluding
indeterminate
Lamiaceae).
A) plot of species,
B) plot of samples

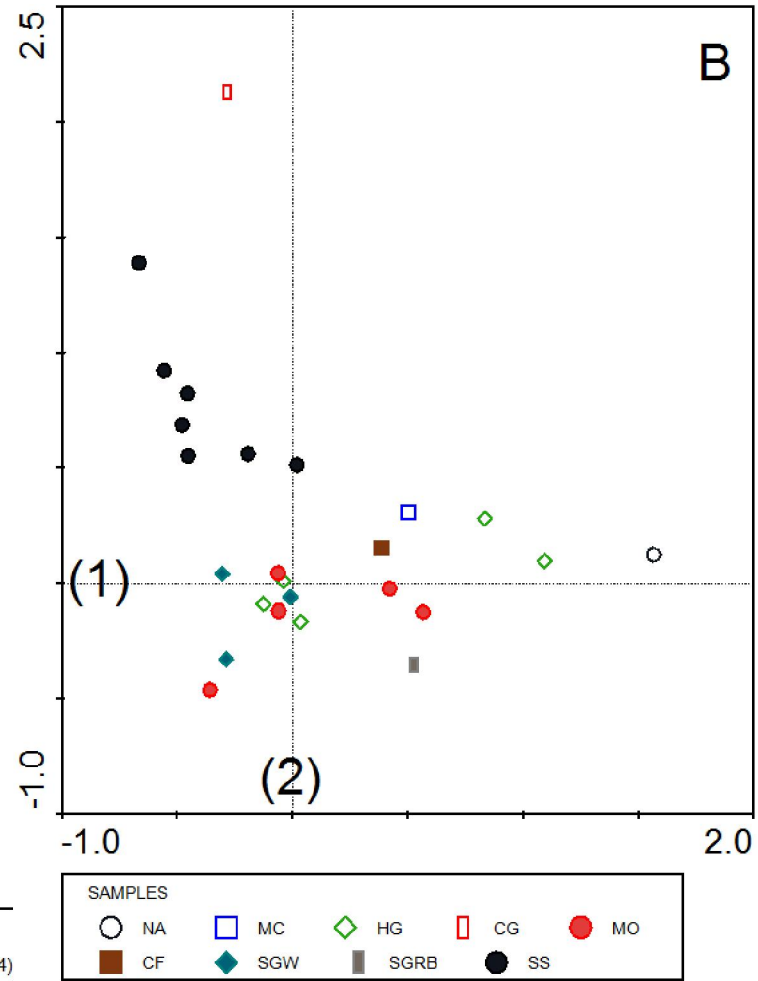
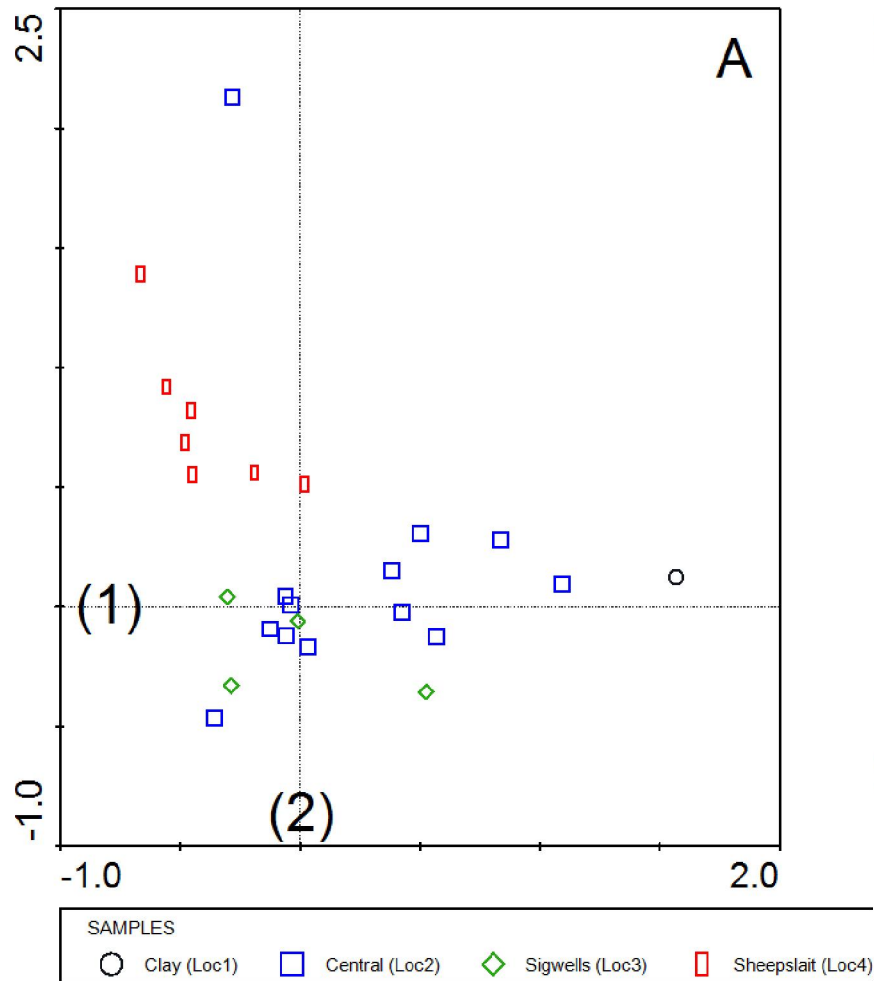
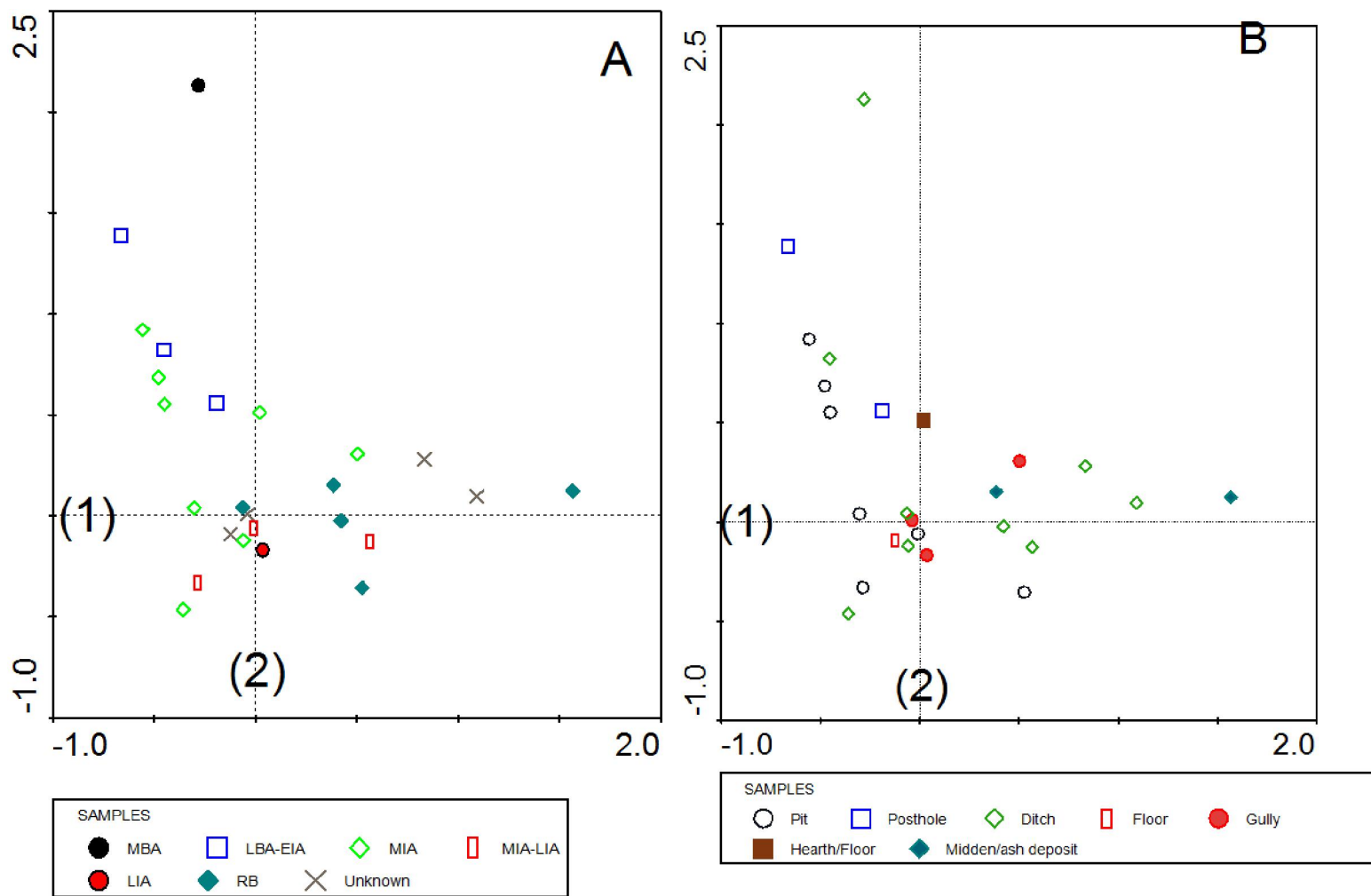


Figure 5.19
Correspondence analysis of weeds from glume wheat fine sieving by-products (excluding indeterminate Lamiaceae)
A) sample points coded according to locality, B) sample points coded according to site



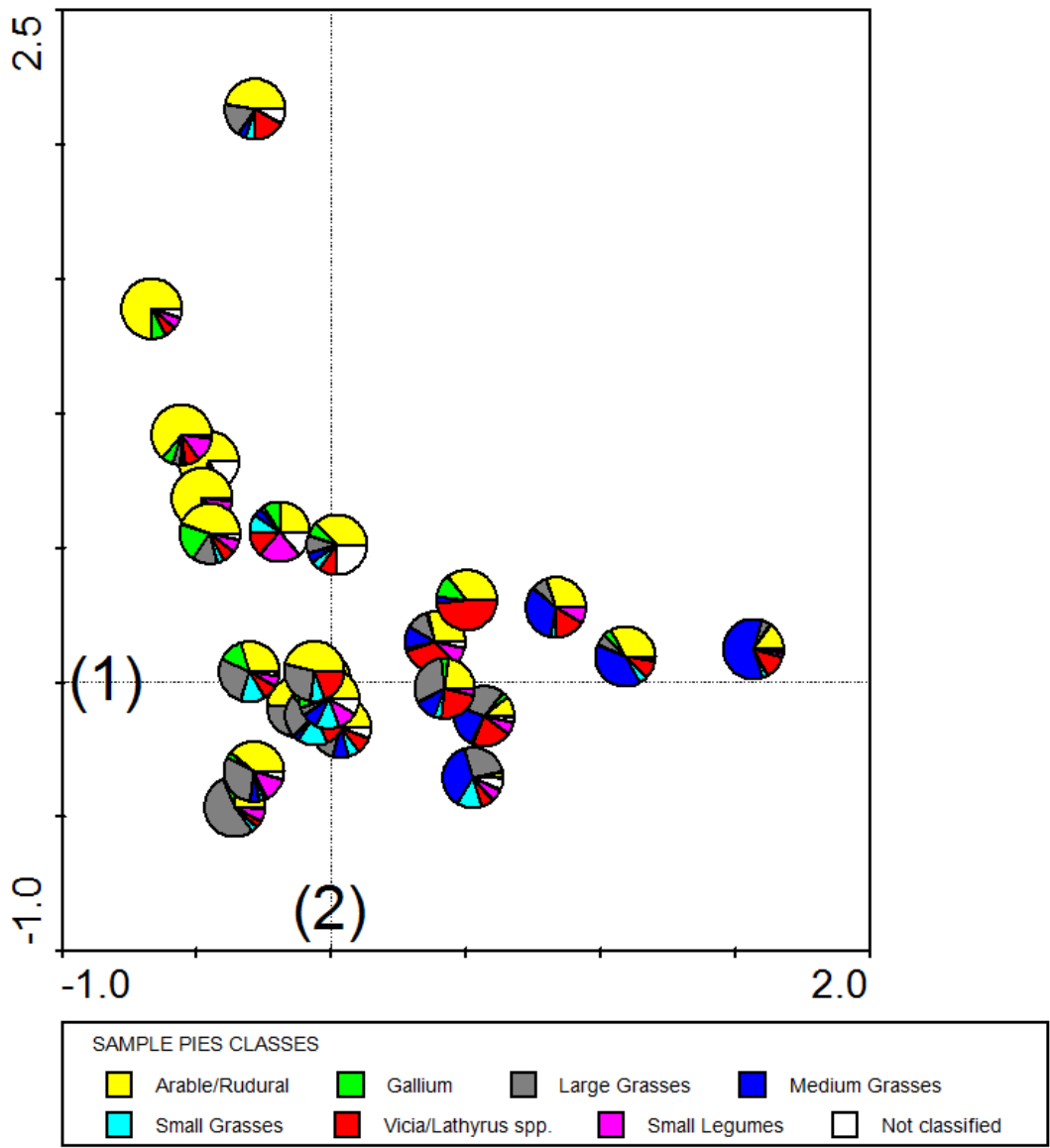


Figure 5.21 Correspondence analysis of weeds from glume wheat fine sieving by-products (excluding indeterminate Lamiaceae). Sample points showing taxonomic groupings and habitat preferences (table 5.9)

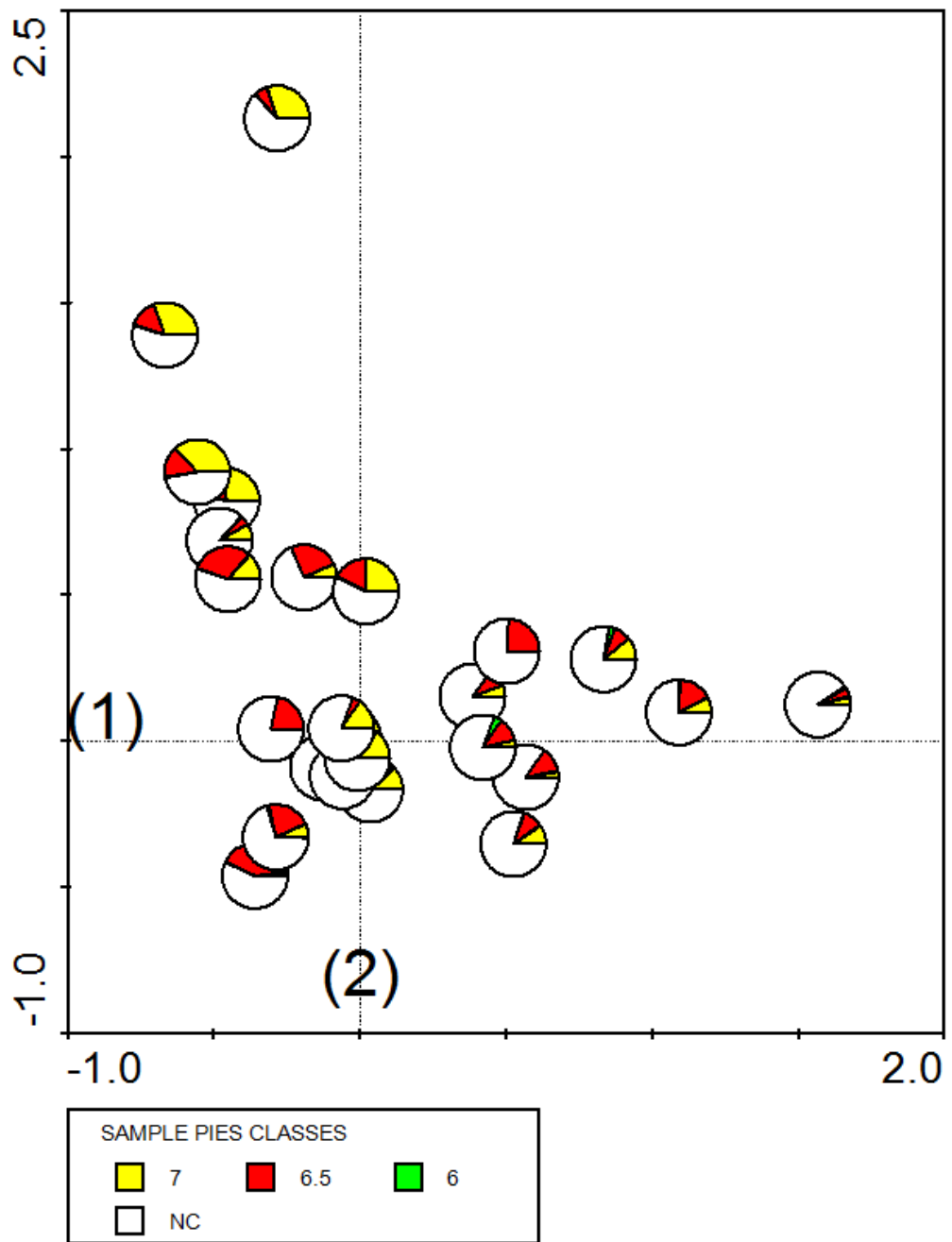


Figure 5.22 Correspondence analysis of weeds from glume wheat fine sieving by-products (excluding indeterminate Lamiaceae). Sample points showing median soil pH (Grime et al. 2007; table 5.10)

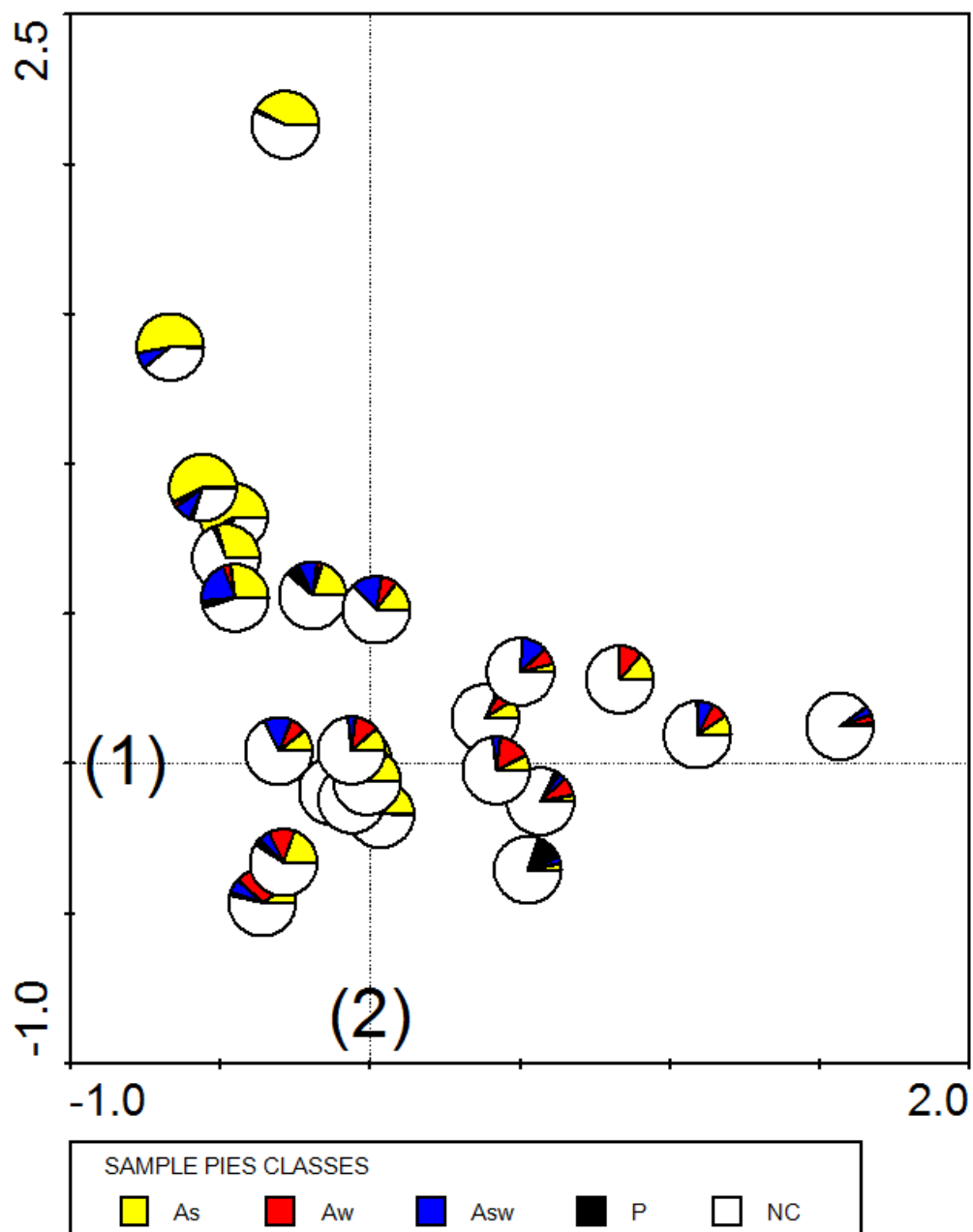


Figure 5.23 Correspondence analysis of weeds from glume wheat fine sieving by-product (excluding indeterminate Lamiaceae). Sample points showing life history (table 5.11). A=annual; P=perennial; s=summer; w=winter; NC=not classified

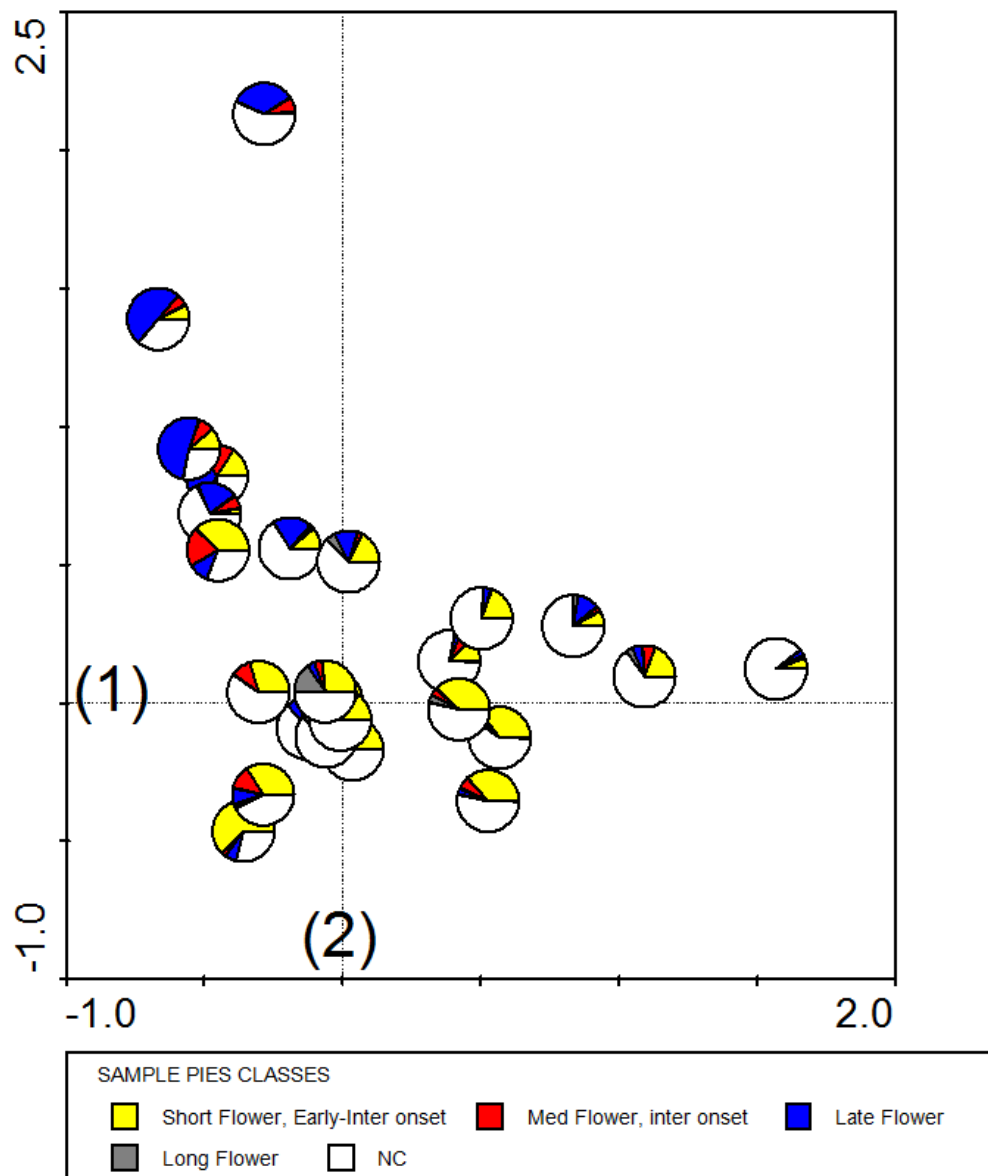


Figure 5.24 Correspondence analysis of weeds from glume wheat fine sieving by-product (excluding indeterminate Lamiaceae). Sample points showing flowering periods (table 5.11).

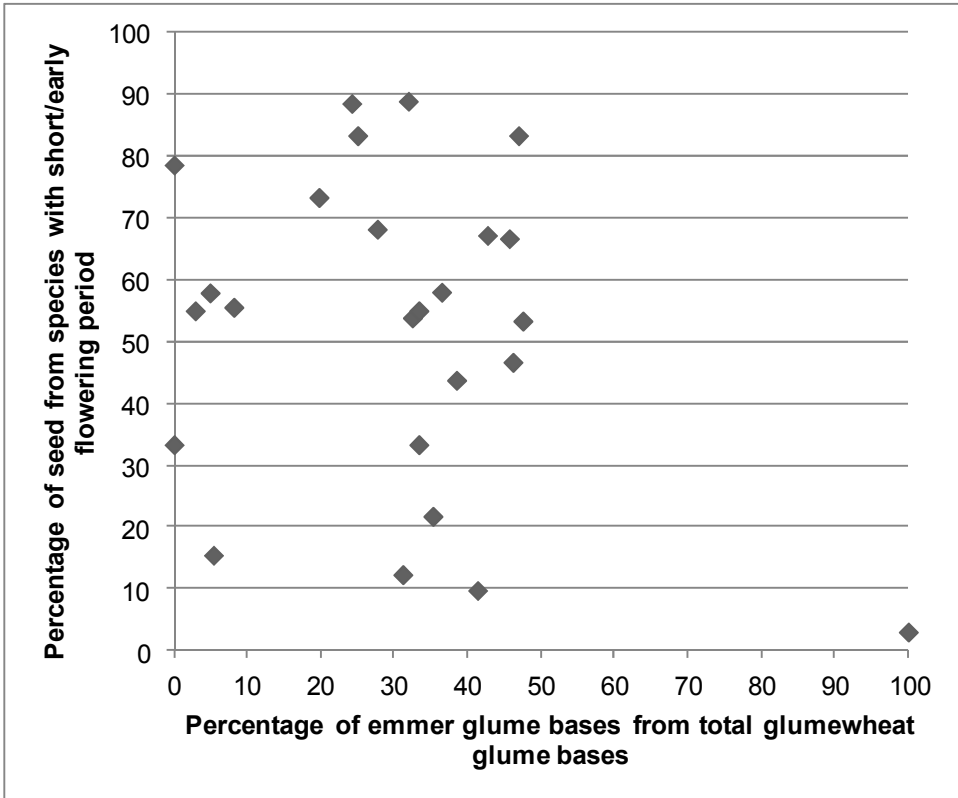


Figure 5.25 Scatter plot of glume wheat fine-sieving by-products. Proportion of emmer glume bases (from total glume wheat glume bases numbers) plotted against proportion of weed seeds from species with a short flowering period (from total classified weed numbers).

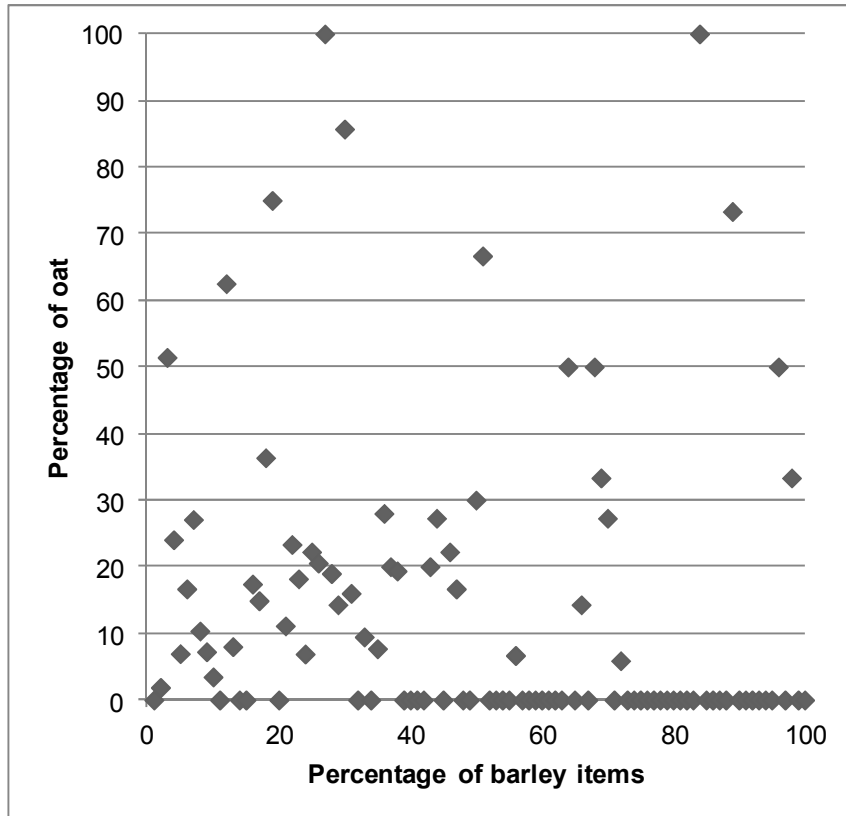


Figure 5.26 Scatter plot of samples with 50 or more cereal items. Proportion of barley (from all wheat and barley items) plotted against proportion oat (compared to brome).

6 The Wood charcoal results: tables and figures

Key to tables 5.1-5.12

Locality:

CEN = Central area (Locality 2);

SG = Sigwells Field (Locality 3);

SS = Sheepslait (Locality 4);

WO = Woolston (Locality 5).

Periods:

EN = Early Neolithic;

EBA = Early Bronze Age;

MBA = Middle Bronze Age;

LBA = Late Bronze Age;

EIA = Early Iron Age;

MIA = Middle Iron Age;

LIA = Late Iron Age;

VLIA = Very Late Iron Age

RB = Romano-British Period;

SAX = Saxon.

Table 6.1 Summary of wood taxa identified: number of SCEP samples in which taxa present

Period/Locality	No. of sites	No. of contexts	<i>Quercus decid.</i>	<i>Prunus spp.</i>	<i>Pomoideae</i>	<i>Corylus/Alnus</i>	<i>Corylus</i>	<i>Alnus</i>	<i>Fraxinus</i>	<i>Acer</i>	<i>Populus/Salix</i>	<i>Ulmus</i>	<i>Rosa</i>	Softwood	<i>Viburnum</i>	<i>Ilex</i>	<i>Betula</i>	<i>Frangula alnus</i>	<i>Hedra</i>	<i>Rubus</i>	<i>Taxus</i>	
EN - Central (Loc2)	1	6	6	4	4	6	4	1	1		1											
EBA - Sigwells (Loc3)	1	1		1	1		1	1		1												
EBA - Sheepslait (Loc4)	1	1	1	1	1	1	1		1													
MBA - Central (Loc2)	1	5	5	4	3	3	2		4	1	1	2	1									
MBA - Sigwells (Loc3)	1	6	5	5	3	3	2	3	6			1										
LBA - Central (Loc2)	1	6	6	6	6	3	1		4	3	1	3		1								1
LBA - Sigwells (Loc3)	1	1	1	1	1		1		1	1			1									
LBA - Woolston (Loc5)	1	1	1	1	1	1	1			1												
LB/EIA - Sheepslait (Loc4)	1	7	7	5	5	6	5	3	4	5	2	1	2									1
EIA - Central (Loc2)	1	7	7	7	6	6	5		7	6	3	2			1							
MIA - Central (Loc2)	2	8	8	7	7	5	3		5	4	1	2	1									
MIA - Sigwells (Loc3)	1	3	3	2	3	2	3		2	1	1		1									
MIA - Sheepslait (Loc4)	1	7	7	4	4	5	5	1	3	1												
M/LIA - Central (Loc2)	2	3	3	3	2	3	1		1	2	1	1					1		1			
M/LIA - Sigwells (Loc3)	1	3	3	3	3	3	3		3	3	2											
M/LIA - Sheepslait (Loc4)	1	4	4	4	3	3	2	1	2	3	1											1
LIA - Central (Loc2)	1	3	3	3	3	3	1		3	3	1	2	1	1								
LIA - Sigwells (Loc3)	2	7	7	7	6	6	6	2	5	5	2	1	2				1	1				
LIA - Sheepslait (Loc4)	1	1	1	1	1	1			1	1		1										
VLIA - Central (Loc2)	1	3	3	3	3	3	1	1	3	3	1	2		1								
RB - Central (Loc2)	1	4	4	4	4	4	3	1	4	2	1				2							
RB - Sigwells (Loc3)	2	3	3	2	2	2	2		3			1	1									
RB - Woolston (Loc5)	1	1	1			1	1															
Saxon - Central (Loc2)	1	2	2	2	2	1			1	1												
total		93	91	80	74	71	54	14	64	47	19	19	10	3	3	2	1	1	1	1	1	1

Table 6.2 Summary of wood taxa identified: percentage of taxa

Period/Locality	<i>Quercus</i> decid.	<i>Fraxinus</i>	<i>Ulmus</i>	<i>Populus/Salix</i>	<i>Alnus</i>	<i>Corylus/Alnus</i>	<i>Corylus</i>	<i>Prunus</i> spp.	Pomoideae	<i>Rosa</i>	<i>Acer</i>	Other
Central (Loc2)												
EN - Central	62.03	0.19	0.00	0.19	0.19	12.97	8.46	3.76	12.22	0.00	0.00	0.00
MBA - Central	64.44	1.27	0.63	0.00	0.00	1.27	0.95	24.13	6.67	0.32	0.32	0.00
LBA - Central	48.92	5.73	2.32	0.77	0.00	4.33	1.55	12.69	13.93	0.00	0.62	9.13
EIA - Central	43.99	6.55	0.31	0.78	0.00	5.15	1.40	27.61	9.83	0.00	2.50	1.87
MIA - Central	59.13	2.32	0.72	0.43	0.00	3.48	1.01	22.32	7.68	0.29	2.61	0.00
M/LIA - Central	71.96	1.48	0.37	0.37	0.00	4.80	0.37	10.70	4.43	0.00	3.69	1.85
LIA - Central	29.60	4.00	1.20	0.80	2.00	4.00	1.60	36.80	12.80	0.80	6.40	0.00
VLIA - Central	28.64	9.55	4.55	1.36	0.00	5.00	0.00	27.73	16.36	0.00	5.91	0.91
RB - Central	29.19	25.68	0.00	0.54	0.27	8.65	1.35	20.00	10.54	0.00	2.70	1.08
Sigwells(Loc3)												
MBA - Sigwells	38.76	45.49	0.18	0.00	2.65	4.07	0.71	1.59	6.55	0.00	0.00	0.00
MIA - Sigwells	61.73	4.69	0.00	1.81	0.00	3.25	1.81	17.33	7.22	0.00	2.17	0.00
M/LIA - Sigwells	39.37	5.57	0.00	3.14	0.00	7.67	3.14	23.34	6.27	0.00	11.50	0.00
LIA - Sigwells	55.27	4.67	0.60	0.90	0.30	6.78	4.07	11.60	6.93	1.51	6.63	0.75
RB - Sigwells	25.75	55.79	0.43	0.00	0.00	4.29	2.58	3.86	6.44	0.86	0.00	0.00
Sheepsloit (Loc4)												
LBA/EIA - Sheepsloit	54.69	11.98	0.15	1.08	2.00	13.67	3.69	2.92	5.99	0.31	3.38	0.15
MIA - Sheepsloit	41.64	20.82	0.00	0.00	0.91	10.64	8.66	2.43	0.91	0.00	13.98	0.00
M/LIA - Sheepsloit	45.43	7.31	0.00	0.26	0.52	5.48	12.01	11.75	9.40	0.00	7.57	0.26

Table 6.3 Wood taxa identified in each sample: Locality 2, Central area, percentages ≥ 70 highlighted

Central (Loc2)		Absolute fragment counts															total	Unidentified	% of fragment counts																						
Period	Sample	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus	Softwood		Unidentified	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus	Softwood
EN	MC/1706	24			1	39	24	5													93	7	26	0	0	0	1	42	26	5	0	0	0	0	0	0	0	0	0	0	
EN	MC/1889	66				3	1		23												93	6	71	0	0	0	0	3	1	0	25	0	0	0	0	0	0	0	0	0	
EN	MC/2285	60				3	3	1													67	1	90	0	0	0	0	4	4	1	0	0	0	0	0	0	0	0	0	0	
EN	MC/2294	67				7			8	3											85	15	79	0	0	0	0	8	0	9	4	0	0	0	0	0	0	0	0	0	
EN	MC/2347	82				10			3												95	5	86	0	0	0	0	11	0	0	3	0	0	0	0	0	0	0	0	0	
EN	MC/2362	31	1		1	7	17	6	36												99	1	31	1	0	1	0	7	17	6	36	0	0	0	0	0	0	0	0	0	
E-MBA	CG/018	93	1					3	1												98	2	95	1	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	
MBA	CG/016	100																			100		100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MBA	CG/020	2	2	1		2		17	20	1											45	15	4.4	4	2	0	0	4	0	38	44	2	0	0	0	0	0	0	0	0	
MBA	CG/024	8	1	1		2	3	56			1										72	28	11	1	1	0	0	3	4	78	0	0	1	0	0	0	0	0	0		
M-LBA	CG/008	10	28		3	18	1	6	12												78	22	13	36	0	4	0	23	1	8	15	0	0	0	0	0	0	0	0	0	
LBA	MC/1145	54	3	4		3		15	14		1										94	6	57	3	4	0	0	3	0	16	15	0	1	0	0	0	0	0	0	0	
LBA	MC/1168	84			2	3		8	1		2										100		84	0	0	2	0	3	0	8	1	0	2	0	0	0	0	0	0	0	
LBA	MC/1301	7	2	10				4	12										58		93	7	7.5	2	11	0	0	0	0	4	13	0	0	0	0	0	0	0	62	0	
LBA	MC/1403	61						1	29		1										92	8	66	0	0	0	0	0	0	1	32	0	1	0	0	0	0	0	0	0	
LBA	MC/1413	42	3	1				33	13												93	7	45	3	1	0	0	0	0	35	14	0	0	0	0	0	0	0	0	1	
LBA	MC/2221	58	1			4	9	15	9												96	4	60	1	0	0	0	4	9	16	9	0	0	0	0	0	0	0	0	0	
EIA	MC/1225	39	9			2	1	13	12		6										82	18	48	11	0	0	0	2	1	16	15	0	7	0	0	0	0	0	0	0	
EIA	MC/1249	31	12		1	6	1	30	12		1										94	6	33	13	0	1	0	6	1	32	13	0	1	0	0	0	0	0	0	0	
EIA	MC/1295	17	5	1		1	3	43	16		1										87	13	20	6	1	0	0	1	3	49	18	0	1	0	0	0	0	0	0	0	
EIA	MC/1361	91	1					2	4												98	2	93	1	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	
EIA	MC/1376	39	3		1	2		27	16		2										90	10	43	3	0	1	0	2	0	30	18	0	2	0	0	0	0	0	0	0	
EIA	MC/1827	28	7			6	2	33	3		1		12								92	8	30	8	0	0	0	7	2	36	3	0	1	0	0	13	0	0	0	0	
EIA	MC/2259	37	5	1	3	16	2	29			5										98	2	38	5	1	3	0	16	2	30	0	0	5	0	0	0	0	0	0	0	

Table 6.3 cont.

Central (Loc2)		Absolute fragment counts															total	Unidentified	% of fragment counts																					
Period	Sample	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus			Hedra	Betula	Taxus	Softwood	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus
MIA	MC/1203	78	3				2	6	8												97	3	80	3	0	0	0	2	6	8	0	0	0	0	0	0	0	0	0	
MIA	MC/1278	22	6	2			8	4	29	14	2	5									92	8	24	7	2	0	0	9	4	32	15	2	5	0	0	0	0	0	0	
MIA	MC/1405	92	3	3					2												100		92	3	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	
MIA	MC/1429	28	3		3		9	1	41	9		2									96	4	29	3	0	3	0	9	1	43	9	0	2	0	0	0	0	0	0	
MIA	MO2/012	23							31	16		1									71	9	32	0	0	0	0	0	44	23	0	1	0	0	0	0	0	0	0	
MIA	MO2/017	38					2		43	1											84	16	45	0	0	0	0	2	0	51	1	0	0	0	0	0	0	0	0	
MIA	MO2/025	42					3		2	3		10									60	16	70	0	0	0	0	5	0	3	5	0	17	0	0	0	0	0	0	0
MIA	MO3/014	85	1				2			2											90	10	94	1	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
M-LIA	MO1/021	39		1			10		19	8		7		1							85	15	46	0	1	0	0	12	0	22	9	0	8	0	1	0	0	0	0	0
M-LIA	MO3/009	95					2		2												99	1	96	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
M-LIA	MO3/015	61	4		1		1	1	8	4		3	4								87	13	70	5	0	1	0	1	1	9	5	0	3	5	0	0	0	0	0	0
LIA?	HG1/016	19	2				4	2	32	21		6									86	14	22	2	0	0	0	5	2	37	24	0	7	0	0	0	0	0	0	0
LIA?	HG1/019b	7	5	3	2		2		42	4	2	9									76	24	9.2	7	4	3	0	3	0	55	5	3	12	0	0	0	0	0	0	0
LIA?	HG1/023	48	3			5	4	2	18	7		1									88	12	55	3	0	0	6	5	2	20	8	0	1	0	0	0	0	0	0	0
VLIA?	HG1/006b	18	5	6			4		16	20		3									72	28	25	7	8	0	0	6	0	22	28	0	4	0	0	0	0	0	0	0
VLIA?	HG1/006c	16	11	2	3		2		21	7		7									70	30	23	16	3	4	0	3	0	30	10	0	10	0	0	0	0	0	0	1
VLIA?	HG2/010	29	5	2			5		24	9		3									78	22	37	6	3	0	0	6	0	31	12	0	4	0	0	0	0	0	0	1
RB	MO1/022	17	2		2	1	12	3	32	23		4									96	4	18	2	0	2	1	13	3	33	24	0	4	0	0	0	0	0	0	0
RB	MO1/023	50	2				10	1	14	9		6									92	8	54	2	0	0	0	11	1	15	10	0	7	0	0	0	0	0	0	0
RB	CF/1107	16	68				4		1	3					3						95	5	17	72	0	0	0	4	0	1	3	0	0	0	0	3	0	0	0	0
RB	CF/1036	25	23				6	1	27	4					1						87	13	29	26	0	0	0	7	1	31	5	0	0	0	0	1	0	0	0	0
SAX	MO2/006	50	1						5	25		1									82	18	61	1	0	0	0	0	0	6	30	0	1	0	0	0	0	0	0	0
SAX	MO2/011	71					1		9	7											88	12	81	0	0	0	0	1	0	10	8	0	0	0	0	0	0	0	0	0

Table 6.4 Wood taxa identified in each sample: Locality 3, Sigwells, percentages ≥ 70 highlighted

Sigwells (Loc3)		Absolute fragment counts															total	Unidentified	% of fragment counts																						
Period	Sample	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus	Softwood		Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus	Softwood	
MBA	SG16/020					1	27	38	6	21		1									94	6	0	0	0	0	1	29	40	6	22	0	1	0	0	0	0	0	0		
MBA	SG10/051	48	10			8	19	1	3	3											92	8	52	11	0	0	9	21	1	3	3	0	0	0	0	0	0	0	0	0	
MBA	SG10/054	39	17					3	3	29											91	9	43	19	0	0	0	0	3	3	32	0	0	0	0	0	0	0	0	0	
MBA	SG10/060	65	29						1	5											100		65	29	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	
MBA	SG19/096	54	34	1		6	3		1												99	1	55	34	1	0	6	3	0	1	0	0	0	0	0	0	0	0	0	0	
MBA	SG19/132	13	85			1	1														100		13	85	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
MBA	SG19/151		82						1												83	17	0	99	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
LBA	SG16/006	5	12					2	63	11	1	6									100		5	12	0	0	0	0	2	63	11	1	6	0	0	0	0	0	0	0	
MIA	SG12/229	28			5	4	2	38	9												86	14	33	0	0	6	0	5	2	44	10	0	0	0	0	0	0	0	0	0	
MIA	SG13/270	77	7					2	6												92	8	84	8	0	0	0	0	2	0	7	0	0	0	0	0	0	0	0	0	0
MIA	SG14/058	66	6			5	1	10	5		6										99	1	67	6	0	0	0	5	1	10	5	0	6	0	0	0	0	0	0	0	0
M-LIA	SG12/220	23	3		1	4	2	25	10		31										99	1	23	3	0	1	0	4	2	25	10	0	31	0	0	0	0	0	0	0	0
M-LIA	SG12/261	40	2		8	7	1	26	6												90	10	44	2	0	9	0	8	1	29	7	0	0	0	0	0	0	0	0	0	0
M-LIA	SG13/263	50	11			11	6	16	2		2										98	2	51	11	0	0	0	11	6	16	2	0	2	0	0	0	0	0	0	0	0
LIA	SG12/126	36	8		2	1	13	7	12	3		7	3					2			94	6	38	9	0	2	1	14	7	13	3	0	7	3	0	0	0	0	2	0	0
LIA	SG12/207	47	4	4	4		8	1	14	7		1									90	10	52	4	4	4	0	9	1	16	8	0	1	0	0	0	0	0	0	0	0
LIA	SG12/292	50	5			8	5	7	17	1											93	7	54	5	0	0	0	9	5	8	18	1	0	0	0	0	0	0	0	0	0
LIA	SG13/225	45	1			1	7	2	23	5	9	2									95	5	47	1	0	0	1	7	2	24	5	9	2	0	0	0	0	0	0	0	0
LIA	SG14/032	54				3	9	1			31										98	2	55	0	0	0	0	3	9	1	0	0	32	0	0	0	0	0	0	0	0
LIA	SG14/048	48	13			6	3	15	9												94	6	51	14	0	0	0	6	3	16	10	0	0	0	0	0	0	0	0	0	0
LIA	SG14/050	87						5	5		3										100		87	0	0	0	0	0	0	5	5	0	3	0	0	0	0	0	0	0	0
RB	SG20/011	9	54	1		9	5	7	11												96	4	9.4	56	1	0	0	9	5	7	11	0	0	0	0	0	0	0	0	0	0
RB	SG21/005	26	13			1	1				2										43	25	60	30	0	0	0	2	2	0	0	5	0	0	0	0	0	0	0	0	0
RB	SG7/043	25	63					2	4												94	6	27	67	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0

Table 6.5 Wood taxa identified in each sample: Locality 4, Sheepslait, percentages ≥ 70 highlighted

Sheepslait (Loc4)		Absolute fragment counts																total	Unidentified	% of fragment counts																					
Period	Sample	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Viburnum	Rubus	Hedra	Betula	Taxus	Softwood		Unidentified	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Viburnum	Rubus	Hedra	Betula	Taxus	Softwood
EBA	DC/005	38	16				11	2	13	1											81	19	47	20	0	0	0	14	2	16	1	0	0	0	0	0	0	0	0		
LBA	SS/231	85		4				1	2	6	1	1									100		85	0	0	4	0	0	1	2	6	1	1	0	0	0	0	0	0	0	
LBA-EIA	SS/003	14	2	1			2	8	4	24	1	8			1						65	19	22	3	2	0	0	3	12	6	37	2	12	0	0	0	2	0	0	0	
LBA-EIA	SS/024	86			6	8															100		86	0	0	0	6	8	0	0	0	0	0	0	0	0	0	0	0	0	
LBA-EIA	SS/125	85		3	4	5						2									99	1	86	0	0	3	4	5	0	0	0	0	2	0	0	0	0	0	0	0	
LBA-EIA	SS/175	48	18			15	5	2	2		6										96	4	50	19	0	0	0	16	5	2	2	0	6	0	0	0	0	0	0	0	
LBA-EIA	SS/180	27	57			9	1	2	2												98	2	28	58	0	0	0	9	1	2	2	0	0	0	0	0	0	0	0	0	
EIA	SS/141	11	1		3	50	9	9	5		5										93	7	12	1	0	0	3	54	10	10	5	0	5	0	0	0	0	0	0	0	
MIA	SS/042	1				1	1				92										95	5	1.1	0	0	0	0	1	1	0	0	0	97	0	0	0	0	0	0	0	
MIA	SS/127	68			6	15	2	4	2												97	3	70	0	0	0	6	15	2	4	2	0	0	0	0	0	0	0	0	0	
MIA	SS/182	45	55																		100		45	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MIA	SS/192	3				22	42		2												69	1	4.3	0	0	0	0	32	61	0	3	0	0	0	0	0	0	0	0	0	
MIA	SS/248	43	35			9	7	5	1												100		43	35	0	0	0	9	7	5	1	0	0	0	0	0	0	0	0	0	
MIA	SS/259	98						1													99	1	99	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
MIA	SS/285	16	47			23	5	6	1												98	2	16	48	0	0	0	23	5	6	1	0	0	0	0	0	0	0	0	0	
M-LIA	SS/011	7	26			4	37	7	16		3										100		7	26	0	0	0	4	37	7	16	0	3	0	0	0	0	0	0	0	
M-LIA	SS/072	71	2	1	2	11	9	1	1												98	2	72	2	0	1	2	11	9	1	1	0	0	0	0	0	0	0	0	0	
M-LIA	SS/207	1				6	35	19		25				1							87	13	1.1	0	0	0	0	7	0	40	22	0	29	0	0	0	1	0	0		
M-LIA	SS/279	95						2			1										98	2	97	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	
LIA	SS/166	26	1	1		12	31	15			7										93	7	28	1	1	0	0	13	0	33	16	0	8	0	0	0	0	0	0	0	

Table 6.6 Wood taxa identified in each sample: Locality 5, Woolston, percentages ≥ 70 highlighted

Woolston (Loc5)		Absolute fragment counts														total		Unidentified	% of fragment counts																						
Period	Sample	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus	Softwood	total	Unidentified	Quercus decid	Fraxinus	Ulmus	Populus/Salix	Alnus	Corylus/Alnus	Corylus	Prunus spp.	Pomoideae	Rosa	Acer	Ilex	Frangula alnus	Vibunum	Rubus	Hedra	Betula	Taxus	Softwood
MBA	LF1/004	45				1	2	8	17		1										74	10	61	0	0	0	0	1	3	11	23	0	1	0	0	0	0	0	0		
RB	RC/039	96				1	1														98	2	98	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		

Table 6.7 Summary: species richness and Shannon-Weiner diversity index (H)

Period/ Locality	Period code	Species richness	Diversity (H)
EN- CEN	1	8	1.19
MBA-CEN	3	9	1.03
LBA-CEN	4	11	1.63
EIA-CEN	5	10	1.56
MIA-CEN	6	10	1.26
LIA-CEN	7	14	1.64
RB-CEN	8	10	1.73
MBA-SG	3	9	1.51
MIA-SG	6	8	1.27
LIA-SG	7	13	1.66
RB-SG	8	8	1.27
EIA-SS	4	12	1.53
MIA-SS	6	8	1.59
LIA-SS	7	11	1.74

Table 6.8 Species richness and Shannon-Weiner diversity index (H)

Period	Sample	Species richness	Diversity (H)	Period	Sample	Species richness	Diversity (H)
EN	MC/1706	5	1.27	MBA	SG16/020	6	1.33
EN	MC/1889	4	0.75	MBA	SG10/051	7	1.39
EN	MC/2285	4	0.44	MBA	SG10/054	5	1.27
EN	MC/2294	4	0.73	MBA	SG10/060	4	0.83
EN	MC/2347	3	0.47	MBA	SG19/096	6	1.07
EN	MC/2362	7	1.48	MBA	SG19/132	4	0.50
E-MBA	CG/018	4	0.25	MBA	SG19/151	2	0.07
MBA	CG/016	1	0.00	LBA	SG16/006	7	1.23
MBA	CG/020	7	1.31	MIA	SG12/229	6	1.36
MBA	CG/024	7	0.85	MIA	SG13/270	4	0.61
M-LBA	CG/008	7	1.64	MIA	SG14/058	7	1.19
LBA	MC/1145	7	1.30	M-LIA	SG12/220	8	1.64
LBA	MC/1168	6	0.66	M-LIA	SG12/261	7	1.45
LBA	MC/1301	6	1.21	M-LIA	SG13/263	7	1.46
LBA	MC/1403	4	0.73	LIA	SG12/126	11	1.93
LBA	MC/1413	6	1.21	LIA	SG12/207	9	1.56
LBA	MC/2221	6	1.22	LIA	SG12/292	7	1.41
EIA	MC/1225	7	1.50	LIA	SG13/225	9	1.53
EIA	MC/1249	8	1.58	LIA	SG14/032	5	1.07
EIA	MC/1295	8	1.41	LIA	SG14/048	6	1.42
EIA	MC/1361	4	0.33	LIA	SG14/050	4	0.53
EIA	MC/1376	7	1.36	RB	SG20/011	7	1.41
EIA	MC/1827	8	1.61	RB	SG21/005	5	0.98
EIA	MC/2259	8	1.56	RB	SG7/043	4	0.84
MIA	MC/1203	5	0.74	EBA	DC/005	6	1.39
MIA	MC/1278	9	1.84	LBA	SS/231	7	0.65
MIA	MC/1405	4	0.37	LBA/EIA	SS/003	10	1.79
MIA	MC/1429	8	1.51	LBA/EIA	SS/024	3	0.50
MIA	MO2/012	4	1.12	LBA/EIA	SS/125	5	0.60
MIA	MO2/017	4	0.84	LBA/EIA	SS/175	7	1.44
MIA	MO2/025	5	0.96	LBA/EIA	SS/180	6	1.10
MIA	MO3/014	4	0.27	EIA	SS/141	8	1.51
M-LIA	MO1/021	7	1.48	MIA	SS/042	4	0.17
M-LIA	MO3/009	3	0.20	MIA	SS/127	6	1.00
M-LIA	MO3/015	9	1.16	MIA	SS/182	2	0.69
LIA	HG1/016	7	1.55	MIA	SS/192	4	0.91
LIA	HG1/019b	9	1.55	MIA	SS/248	6	1.33
LIA	HG1/023	8	1.41	MIA	SS/259	2	0.06
VLIA	HG1/006b	7	1.72	MIA	SS/285	6	1.36
VLIA	HG1/006c	9	1.85	M-LIA	SS/011	7	1.62
VLIA	HG2/010	8	1.61	M-LIA	SS/072	8	1.00
RB	MO1/022	9	1.72	M-LIA	SS/207	6	1.34
RB	MO1/023	7	1.40	M-LIA	SS/279	3	0.16
RB	CF/1107	6	0.94	LIA	SS/166	7	1.57
RB	CF/1036	7	1.50	MBA	LF1/004	6	1.09
SAX	MO2/006	5	0.94	LRB	RC/039	3	0.11
SAX	MO2/011	4	0.66				

Table 6.9 Ecology and ‘use’ information for the wood taxa. Shading showing species that more general taxon values are based on. (nat = naturalised, arch= archeophyte) (Fuel value 1=low, 5=high; Hardness 1= hard, 5= soft)

Taxa	Max. canopy height	Most Common Terminal Habitat	Moisture	Median soil pH	Fuel value score	Hardness score
	Grime et al 2007				Keepax 1989	
<i>Quercus</i> agg.	>15m	WOOD (acid)	damp-dry	4	4	2
<i>Quercus</i> agg. juvenile		PLANTATION broadleaf		4		
<i>Quercus petraea</i> (nat)	>15m	WOOD acid		4		
<i>Quercus robur</i>	>15m	WOOD acid		5		
<i>Prunus</i> spp.			damp-dry		3	3
<i>Prunus avium</i>	>15m	WOOD acid		6		
<i>Prunus padus</i>	6.1-15m	HEDGE		6.5		
<i>Prunus spinosa</i>	3.1-6m	SCRUB		6.5		
<i>Fraxinus excelsior</i>	>15m	WOOD lime	damp	7	5	3
<i>Fraxinus excelsior</i> juvenile		WOOD lime		7		
Pomoideae			damp-dry		4	3
<i>Crataegus monogyna</i>	6.1-15m	HEDGE		7		
<i>Crataegus monogyna</i> juvenile		PASTURE lime		7		
<i>Malus sylvestris</i>	3.1-6m	HEDGE		7		
<i>Sorbus aucuparia</i> (nat)	6.1-15m	WOOD acid		4		
<i>Acer campestre</i>	6.1-15m	SCRUB	dry	5	3	2
<i>Corylus avellana</i>	3.1-6m	SCRUB	damp-dry	7	3	4
<i>Alnus glutinosa</i>	>15m	MIRE shaded	wet	6	2	5
<i>Alnus glutinosa</i> juvenile		RIVERBANK unshaded		6		
<i>Populus/Salix</i>			wet		2	5
<i>Populus tremula</i>	>15m	SCRUB		6.5		
<i>Salix alba</i> (arch)		RIVERBANK unshaded		6.5		
<i>Salix aurita</i> (nat)		MIRE shaded		5		
<i>Salix caprea</i> (nat)	6.1-15m	SCRUB		6.5		
<i>Salix cinerea</i> (nat)	6.1-15m	SCRUB		6.5		
<i>Salix fragilis</i> (arch)	>15m	MIRE shaded		7		
<i>Salix purpurea</i> (nat)	1-3m	MIRE shaded		6.5		
<i>Salix viminalis</i> (arch)	3.1-6m	MIRE shaded		6.5		
<i>Ulmus</i>	>15m		damp		2	3
<i>Ulmus glabra</i> (nat)	>15m	WOOD lime		7		
<i>Ulmus glabra</i> juvenile		QUARY Limestone		7		
<i>Ulmus procera</i> (nat)	>15m	WOOD acid		6.5		
<i>Rosa</i>	1-3m		damp-dry		-	-
<i>Rosa arvensis</i>	1-3m	SCRUB		6.5		
<i>Rosa canina</i>	1-3m	HEDGE		7		
<i>Rosa mollis</i>	1-3m	SCRUB		6.5		

Table 6.10 Preservation features recorded in wood charcoal fragments – Central area, Locality 2

Sample	Period	Context type	total fragments studied	No. of fragments unidentified	Fr/Pr Index (Asouti 2003)	No. of fragments with presence of Pith	No. of fragments with presence of Bark	No. of fragments with presence of fungal	No. of fragments with presence of insect	radial cracking	level 1 vitrification	Level 2 vitrification	Level vitrification 3
MC/1706	EN	Hearth pit fill	100	7	0.08					1	16	10	1
MC/1889	EN	Pit fill	99	6	0.06				1	5	24	45	2
MC/2285	EN	Pit Fill	68	1	0.01	1	1			6	38	12	
MC/2294	EN	Posthole	100	15	0.18	2				3	39	15	
MC/2347	EN	Pit Fill	100	5	0.05					2	18	15	
MC/2362	EN	Pit fill	100	1	0.01	1	1	2		1	16	4	
CG/018	E-MBA	Ditch fill - lower/mid. (ringditch)	100	2	0.02					7	24	18	
CG/016	MBA	Ditch fill - Middle (ringditch)	100		0.00					1			
CG/020	MBA	ditch fill (scoop cutting)	60	15	0.33	4					7	5	8
CG/024	MBA	posthole (spread)	100	28	0.39	3	3	1	1	4	25	12	6
CG/008	M-LBA	ditch fill -scoop cutting	100	22	0.28	7	4		1	3	7	10	1
MC/1168	LBA	Ditch fill (middle to upper)	100		0.00					2	13	3	
MC/1145	LBA	Vessel Pit	100	6	0.06				1	7	19	7	
MC/1301	LBA	Posthole	100	7	0.08	1			5	30	2	5	
MC/1403	LBA	Burnt mound	100	8	0.09				1	2	17	11	1
MC/1413	LBA	Posthole	100	7	0.08	2				9	25	10	
MC/2221	LBA	Industrial deposit	100	4	0.04			1		1	14	7	
MC/1249	EIA	Posthole	100	6	0.06	1				5	27	9	
MC/1295	EIA	Posthole	100	13	0.15	1	2	4		2	10	11	
MC/1361	EIA	Posthole	100	2	0.02					2	6	4	
MC/1376	EIA	Gully	100	10	0.11					3	14	14	
MC/1225	EIA	Industrial deposit	100	18	0.22								
MC/1827	EIA	Pit fill	100	8	0.09	5	2	1			17	8	
MC/2259	EIA	Hearth	100	2	0.02					2	16	19	

Table 6.10 cont.

Sample	Period	Context type	total fragments studied	No. of fragments unidentified	Fr/Pr Index (Asouti 2003)	No. of fragments with presence of Pith	No. of fragments with presence of Bark	No. of fragments with presence of fungal	No. of fragments with presence of insect	radial cracking	level 1 vitrification	Level 2 vitrification	Level vitrification 3
MC/1203	MIA	Posthole	100	3	0.03					1	40	12	1
MC/1278	MIA	Pit fill (vessel)	100	8	0.09					1	8	11	
MC/1405	MIA	Posthole	100		0.00	1					1		
MC/1429	MIA	Gully	100	4	0.04		1				9	7	
MO2/012	MIA	ditch deposit (upper)	80	9	0.13	1	1				11	6	
MO2/017	MIA	Ditch deposit (upper)	100	16	0.19	3	1				18	4	
MO3/014	MIA	Ditch fill (upper)	100	10	0.11					6	11	6	
MO2/025	MIA	Pit fill	76	16	0.27	2				8	12	9	1
MO1/021	M-LIA	Ditch silt (lower)	100	15	0.18	6	5		1	2	16	11	2
MO3/009	M-LIA	Layer	100	1	0.01					1	38	6	
MO3/015	M-LIA	Posthole	100	13	0.15	1	1			5	14	3	
HG1/016	LIA?	Gully Fill	100	14	0.16	2	1				8	6	4
HG1/019b	LIA?	Gully Fill	100	24	0.32	4	3				9	12	19
HG1/023	LIA?	Gully Fill	100	12	0.14	1	1			2	13	11	12
HG1/006b	VLIA?	floor/abandonment level	100	28	0.39	4		1		1	7	8	13
HG1/006c	VLIA?	floor/abandonment level	100	30	0.43	2	2			4	11	5	23
HG2/010	VLIA?	Ditch fill	100	22	0.28	3	3			3	12	8	
MO1/022	RB	Ditch silt (lower)	100	4	0.04	3	2				2	3	1
MO1/023	RB	Ditch silt (middle)	100	8	0.09	2	1			3	20	10	
CF/1107	RB	Ditch fill - Lower/middle	100	5	0.05	1					8	6	1
CF/1036	RB	Midden deposit	100	13	0.15	5	3		2		6	7	
MO2/006	SAX	cultivation horizon	100	18	0.22	1	3		1	9	12	19	
MO2/011	SAX	ditch deposit (upper)	100	12	0.14	2	1	2	1	9	19	16	1

Table 6.11 Preservation features recorded in wood charcoal fragments – Sigwells, Locality 3

Sample	Period	Context type	total fragments studied	No. of fragments unidentified	Fr/Pr Index (Asouti 2003)	No. of fragments with presence of Pith	No. of fragments with presence of Bark	No. of fragments with presence of fungal	No. of fragments with presence of insect	radial cracking	level 1 vitrification	Level 2 vitrification	Level vitrification 3
SG16/020	MBA	ditch (basal deposit in linear)	100	6	0.06	2	1			2	2	2	
SG10/051	MBA	cooking pit fill	100	8	0.09	1		2		4	6	6	
SG10/054	MBA	cooking pit fill	100	9	0.10	1	1	1		9	16	10	
SG10/060	MBA	cooking pit fill	100		0.00	2				4	12	2	
SG19/096	MBA	Posthole fill	100	1	0.01						1		
SG19/132	MBA	Posthole (closure deposit)	100		0.00					4	2		
SG19/151	MBA	Ditch fill enclosure	100	17	0.20	1					25	49	3
SG16/006	LBA	ditch (silt over ring ditch fills)	100		0.00					1	2	1	
SG12/126	LIA	Pit fill (upper F044)	100	6	0.06	4	4				9	4	
SG12/207	LIA	Pit fill (low. human burial F046)	100	10	0.11				1	6	18	2	
SG12/229	MIA	Pit fill (loer F017)	100	14	0.16	2	1			3	12	12	1
SG13/270	MIA	Pit silt (lower middle F058)	100	8	0.09	2	2		2	22	36	11	
SG14/058	MIA	Pit silt (Lower middle F004)	100	1	0.01	1	1			6	9	5	
SG12/220	M-LIA	Pit fill (upper F017)	100	1	0.01	3				3	7	1	
SG12/261	M-LIA	Pit fill (Lower F057)	100	10	0.11	4	3			1	24	17	1
SG13/263	M-LIA	Pit fill (middle F058)	100	2	0.02	2					27	9	
SG12/292	LIA	Pit fill (lower F004)	100	7	0.08					1	19	5	
SG13/225	LIA	Pit fill (upper F031)	100	5	0.05	1					11	4	
SG14/032	LIA	Pit fill (middle F003)	100	2	0.02	2	3	1	1	1	2		
SG14/048	LIA	Pit fill (upper middle F010)	100	6	0.06	3	3			1	9	3	
SG14/050	LIA	Gully/timbers	100		0.00			3		1	1		
SG20/011	RB	Scoop	100	4	0.04						2	8	
SG21/005	RB	upper scoop fill	68	25	0.58	4	1			11	10	9	1
SG7/043	RB	Hearth	100	6	0.06					8	23	8	

Table 6.12 Preservation features recorded in wood charcoal fragments – Sheepslait, Locality 4 & Woolston, Locality 5

Sample	Period	Context type	total fragments studied	No. of fragments unidentified	Fr/Pr Index (Asouti 2003)	No. of fragments with presence of Pith	No. of fragments with presence of Bark	No. of fragments with presence of fungal	No. of fragments with presence of insect	radial cracking	level 1 vitrification	Level 2 vitrification	Level vitrification 3
DC/005	EBA	Ditch silt (upper barrow)	100	19	0.23					1	13	9	
SS/231	LBA	Ditch (ringwork south terminal)	100		0.00					8	52	20	
SS/003	LBA/EIA	Palisade trench	84	19	0.29	3	2	1		4	12	12	
SS/024	LBA-EIA	Posthole	100		0.00				2		13		
SS/125	LBA-EIA	Posthole	100	1	0.01		1			5	6		
SS/175	LBA-EIA	Posthole	100	4	0.04	2					12	10	
SS/180	LBA-EIA	Ditch fill	100	2	0.02	1					5	1	1
SS/141	EIA	Ditch fill	100	7	0.08	1	1				4	8	
SS/042	MIA	Hearth	100	5	0.05	2	1				5	2	
SS/127	MIA	Pit fill	100	3	0.03	1	1			3	15	6	
SS/182	MIA	Hearth/Floor	100		0.00								
SS/192	MIA	Pit fill (upper)	70	1	0.01	1			20	3	9	4	
SS/248	MIA	Pit fill (Middle)	100		0.00		1				4	5	
SS/259	MIA	Posthole	100	1	0.01					9	2		
SS/285	MIA	Pit fill	100	2	0.02	2	4		1		5	4	
SS/011	M-LIA	Posthole	100		0.00	1					2	1	
SS/072	M-LIA	Pit fill	100	2	0.02	2			1	1	14		
SS/207	M-LIA	Pit fill (basal)	100	13	0.15	13	11			1	8	8	
SS/279	M-LIA	Pit fill (upper)	100	2	0.02						68	13	
SS/166	LIA	Pit fill (Rapid lower and middle)	100	7	0.08						12	11	
LF1/004	MBA	floor/abandonment level	84	10	0.14	2				5	14	4	
RC/039	LRB	ditch fill (middle)	100	2	0.02					1	35	4	

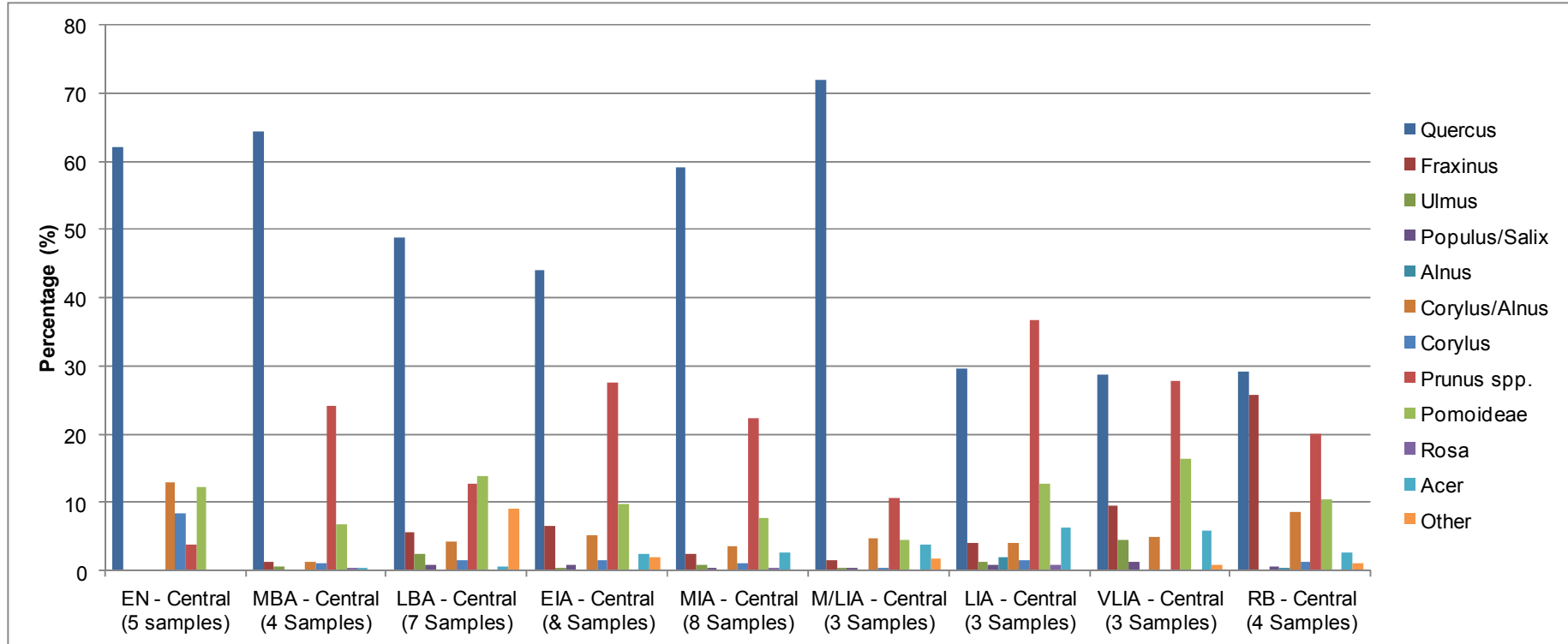


Figure 6.1 Percentage of wood taxa (for periods with at least 3 identified samples): Locality 2, Central area

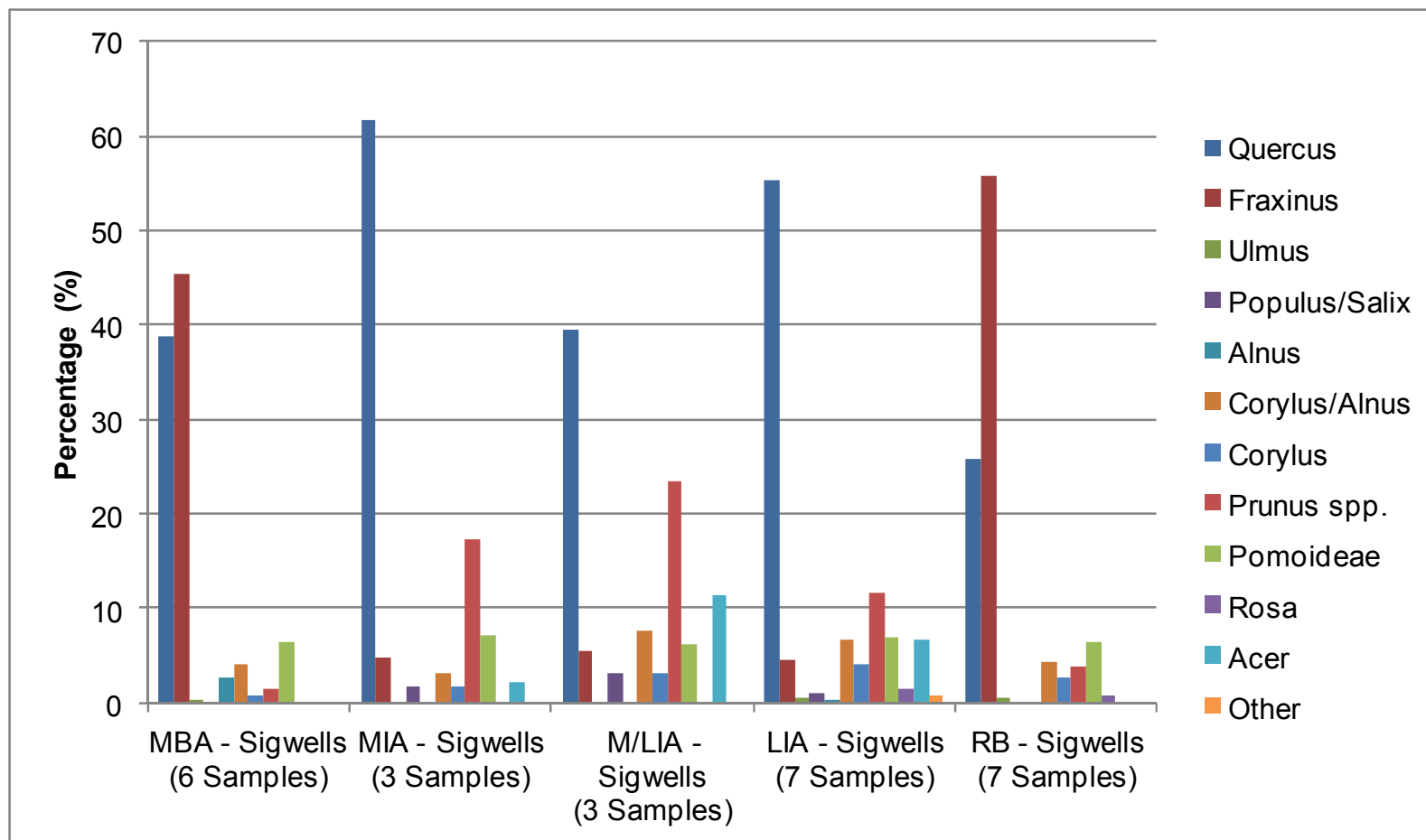


Figure 6.2 Percentage of wood taxa (for periods with at least 3 identified samples): Locality 3, Sigwells

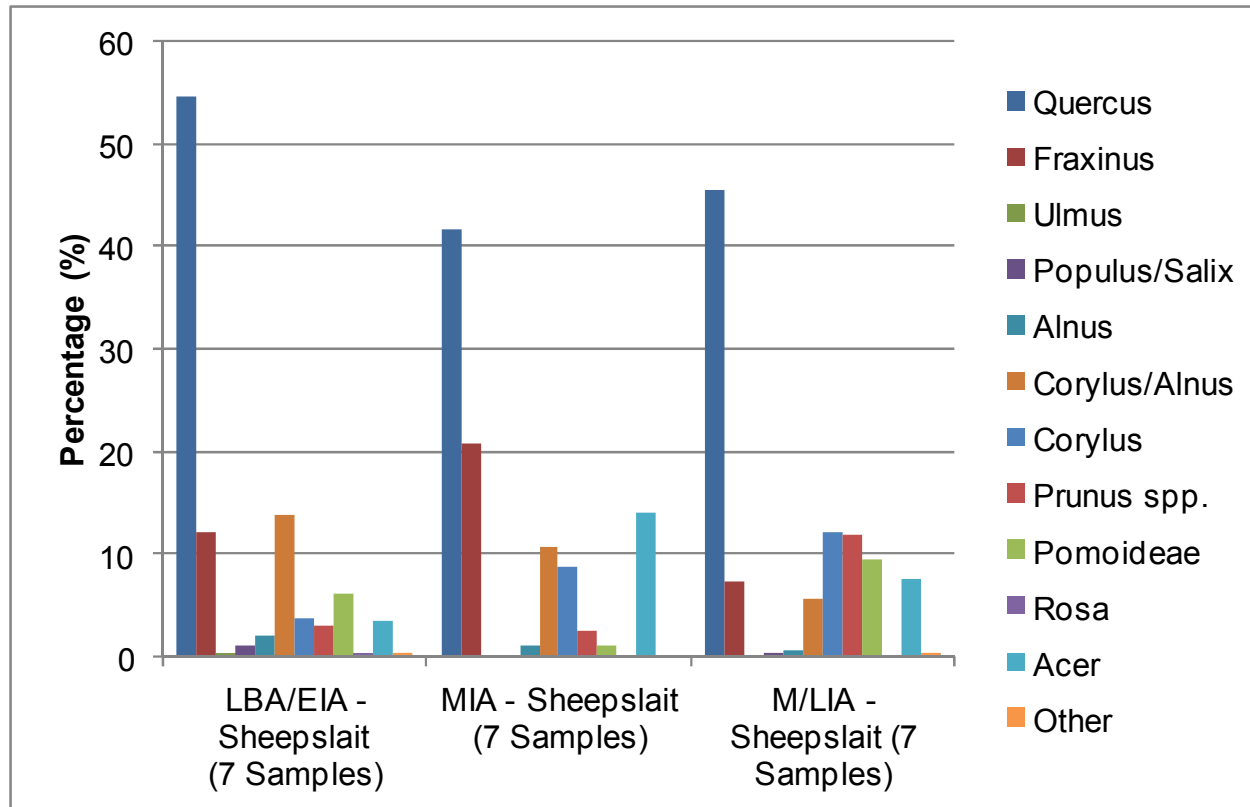


Figure 6.3 Percentage of wood taxa (for periods with at least 3 identified samples): Locality 4, Sheepslait

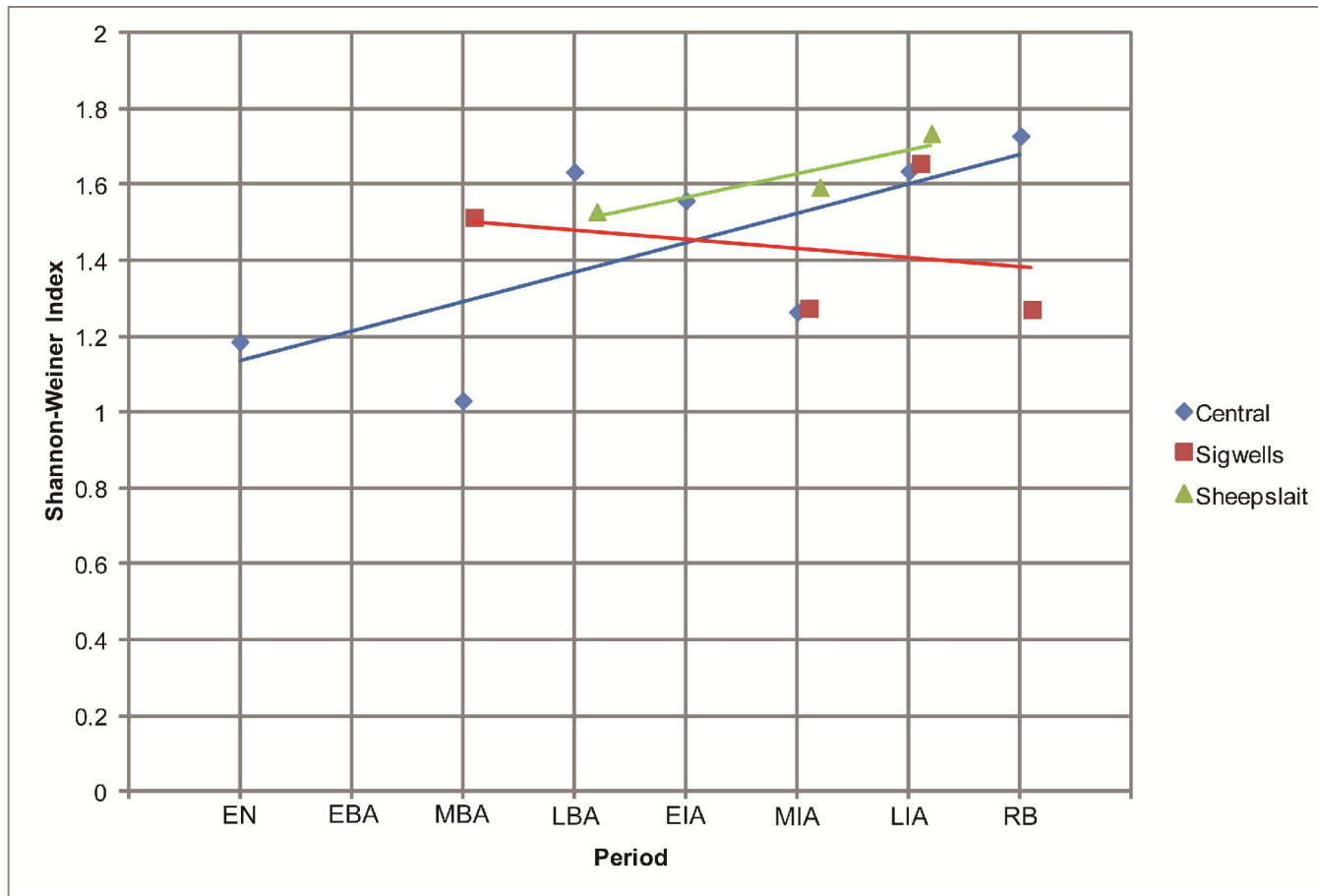


Figure 6.4 Shannon-Weiner indices of SCEP wood taxa, for each locality and period (for periods with at least 3 identified samples): with linear regression lines for locality

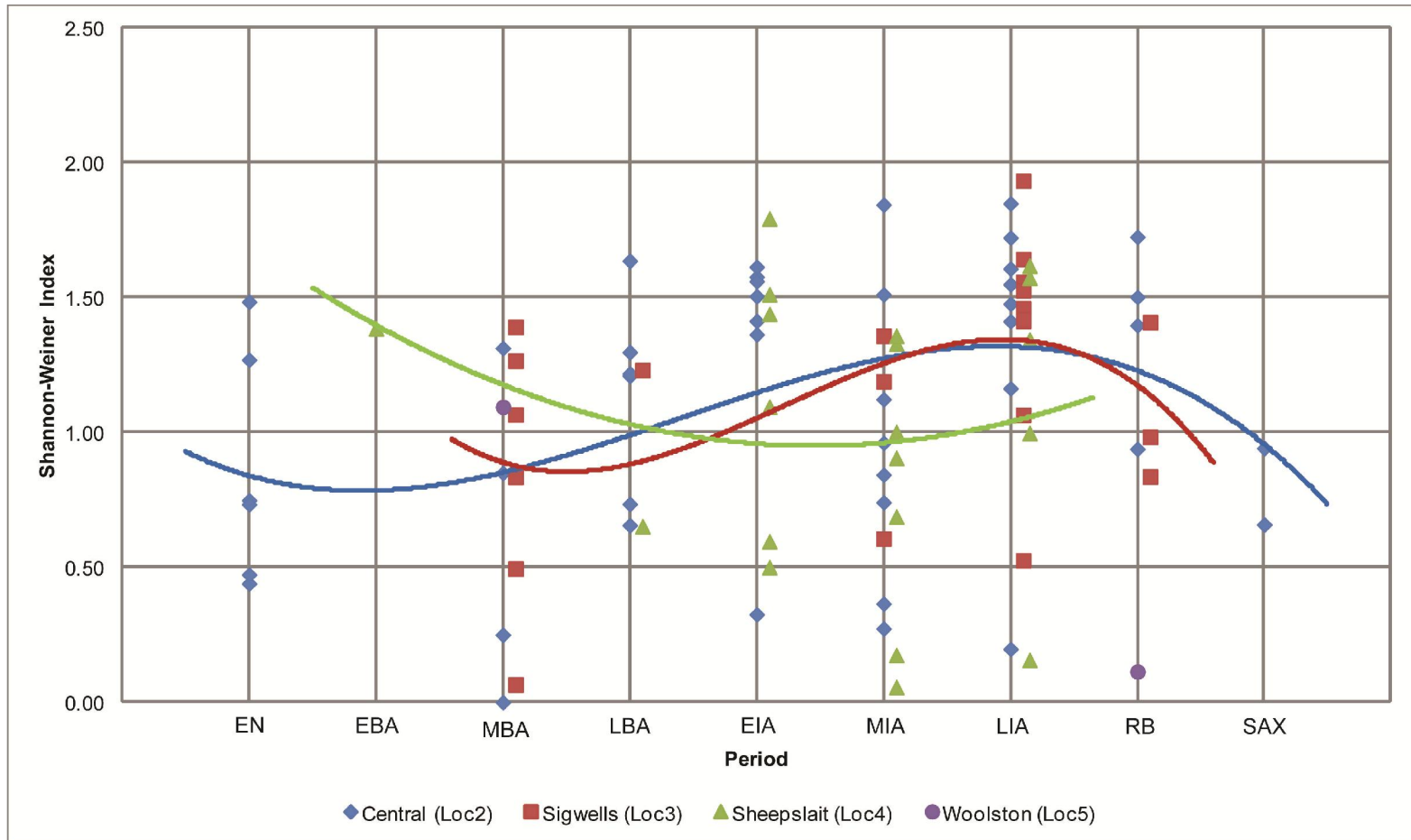


Figure 6.5 Shannon-Weiner indices of SCEP wood taxa, for individual samples: with polynomial regression lines for each locality

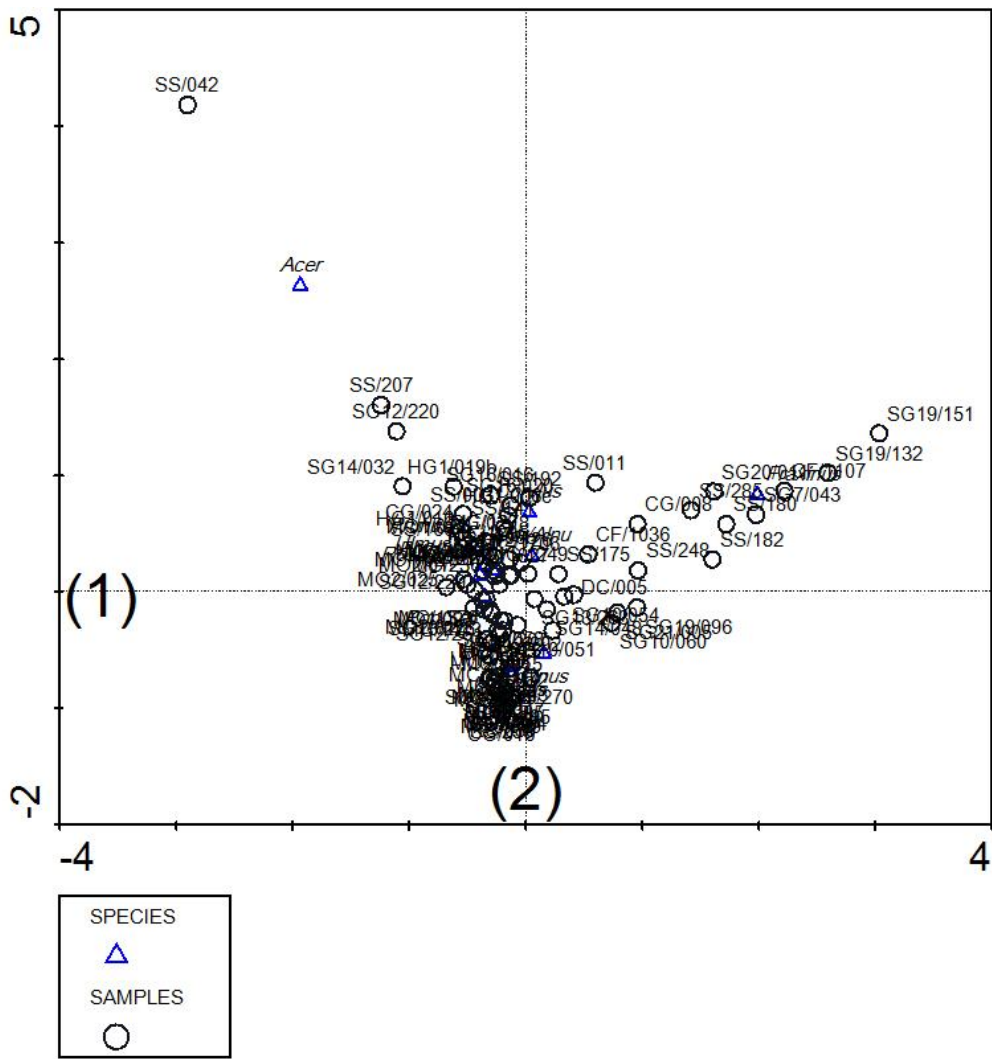


Figure 6.6 Correspondence analysis of wood taxa from all samples. Plot of samples and taxa.

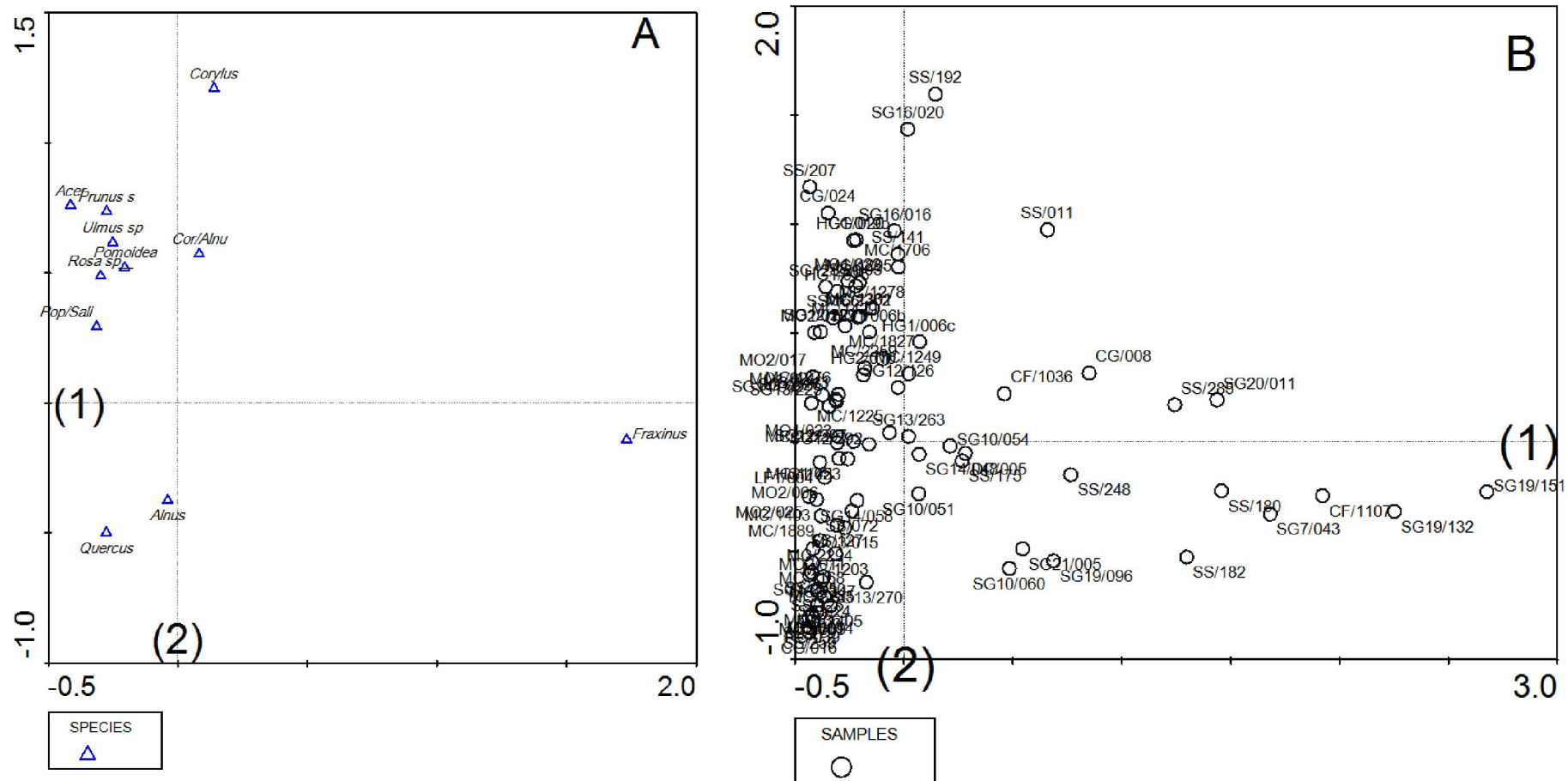
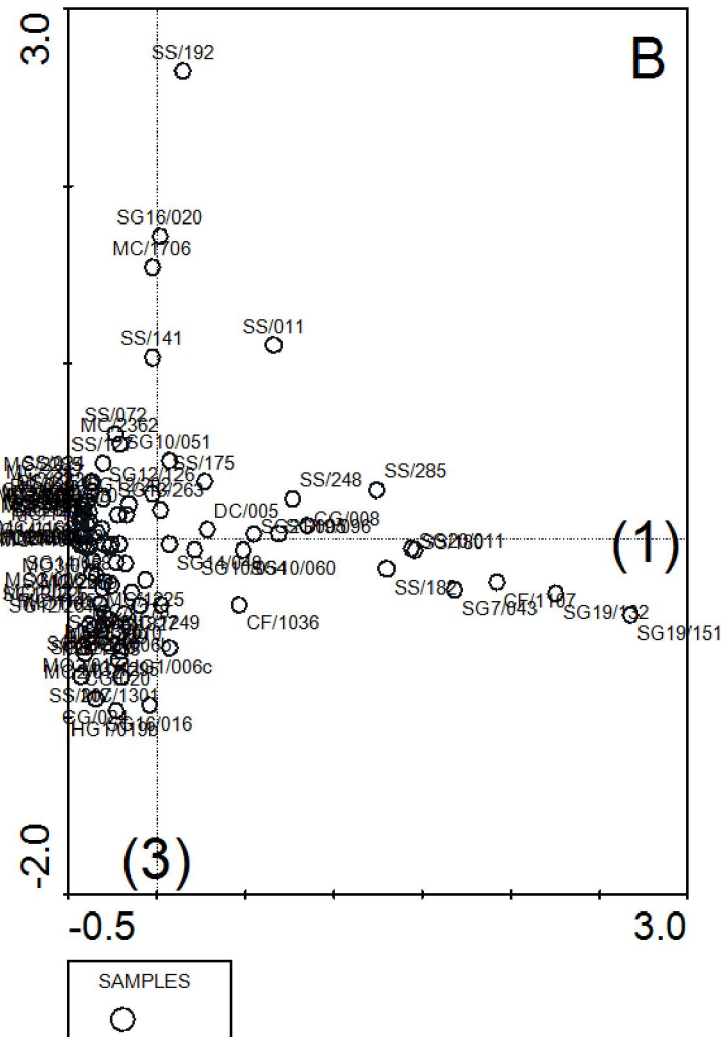
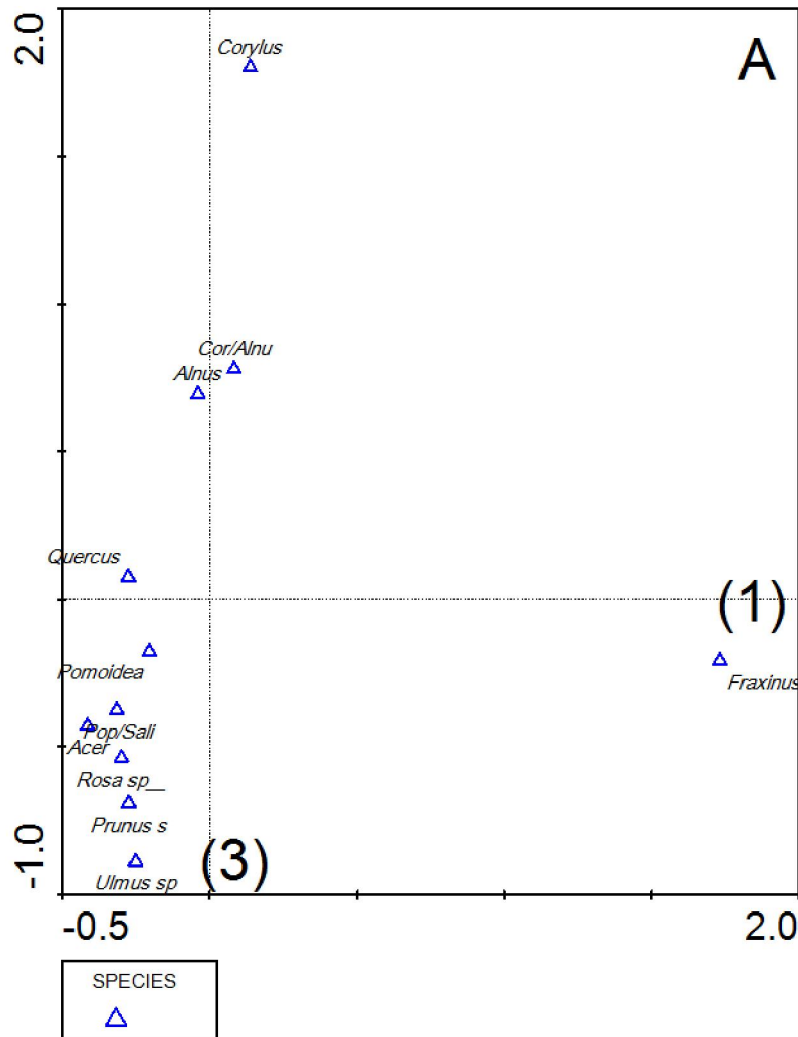
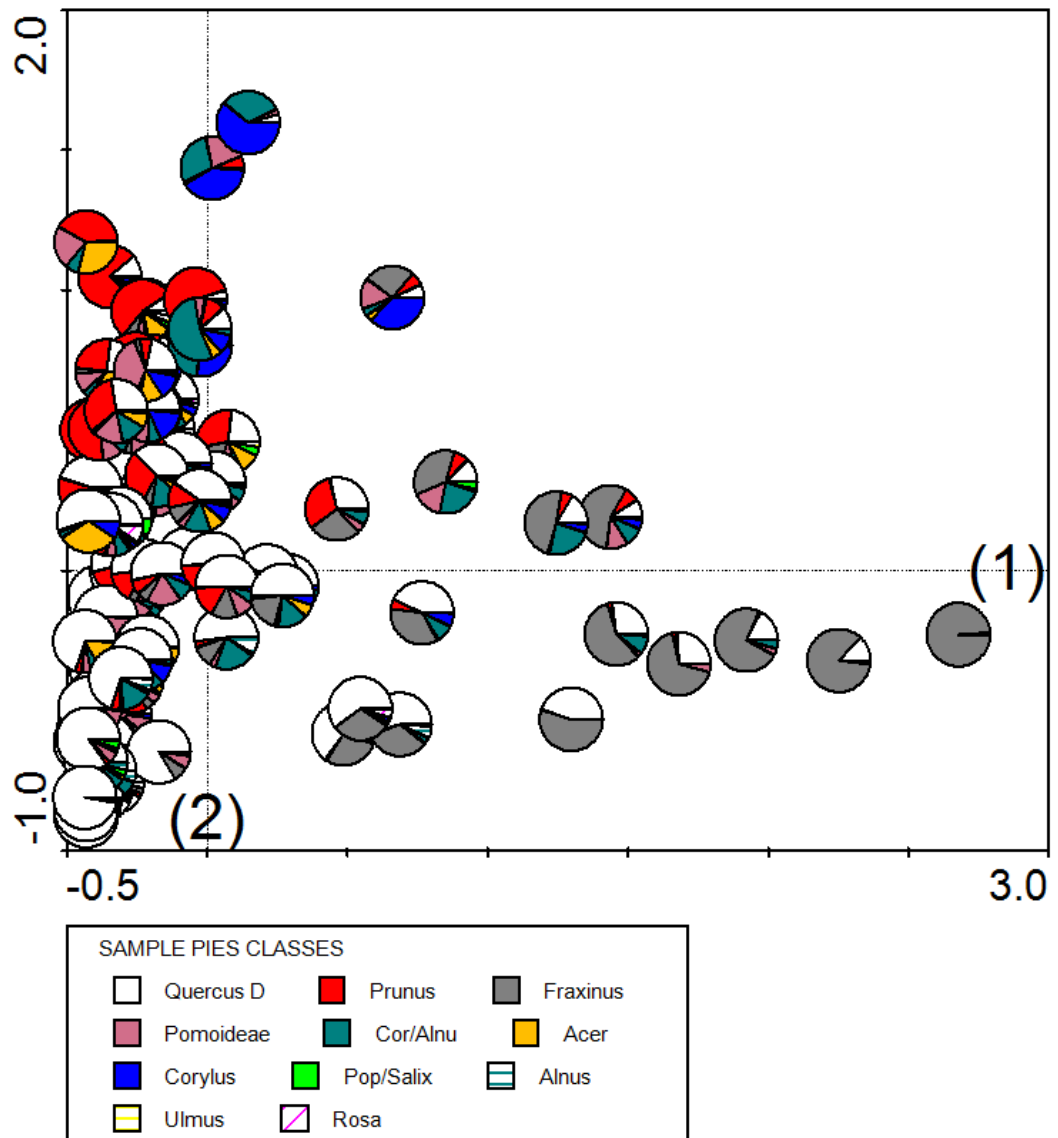


Figure 6.7 Correspondence analysis of wood taxa from all samples excluding SS/042. A) plot of taxa, B) plot of samples.



6.8 Correspondence analysis of wood taxa from all samples excluding SS/042. Plot of axis 1 against axis 3. A) plot of taxa, B) plot of samples.



6.9 Correspondence analysis of wood taxa form all samples excluding SS/042, with sample points showing wood taxa composition. Plot of axis 1 against axis 2.

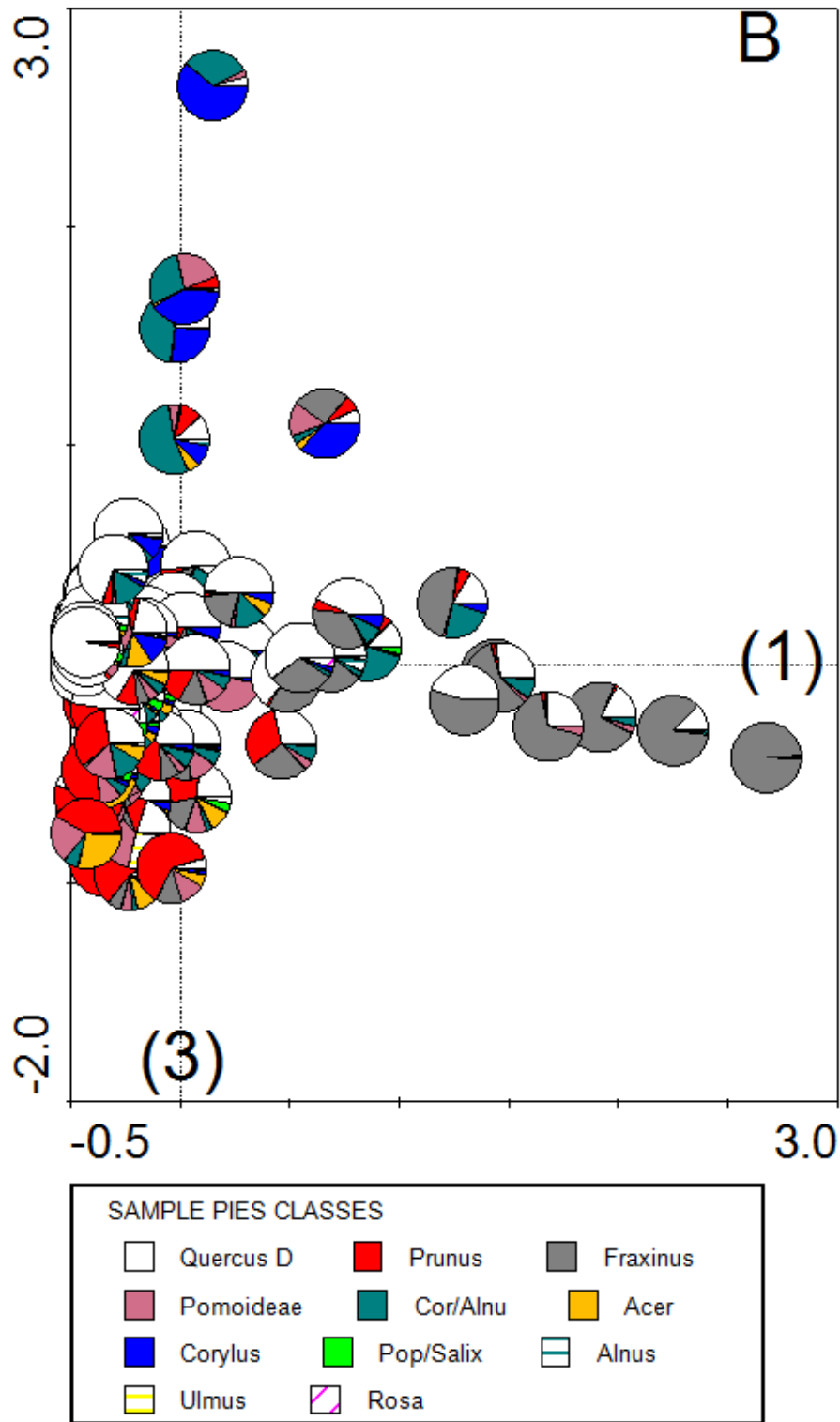


Figure 6.10 Correspondence analysis of wood taxa from all samples excluding SS/042, with sample points showing wood taxa composition. Plot of axis 1 against axis 3.

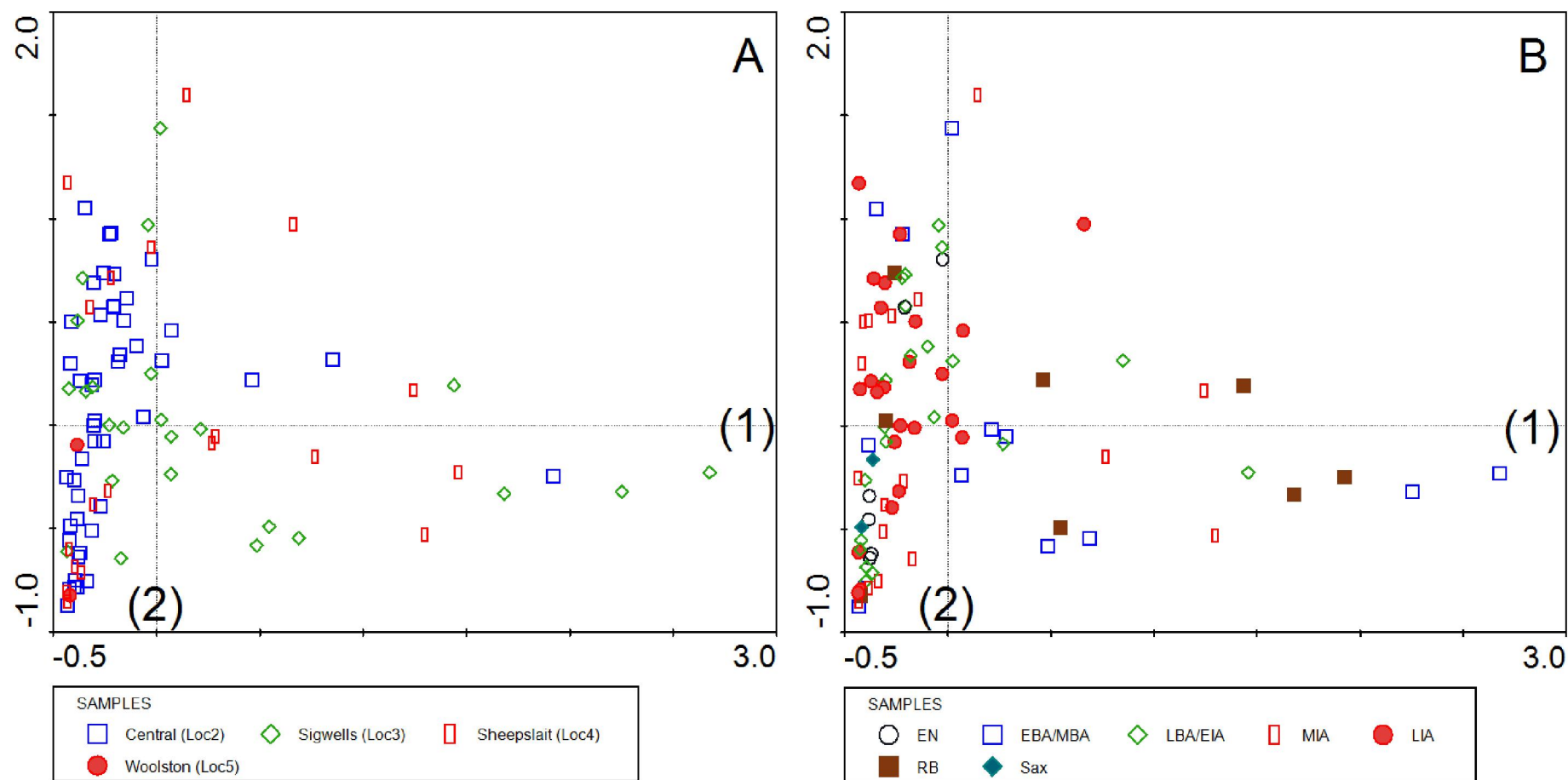
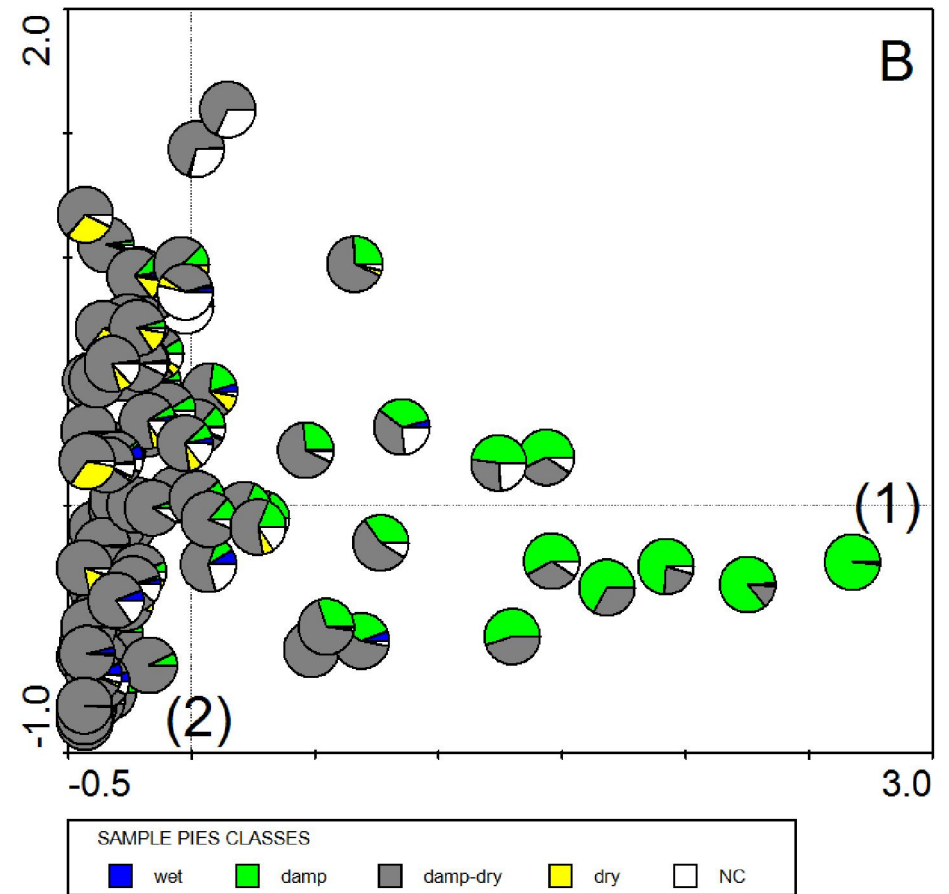
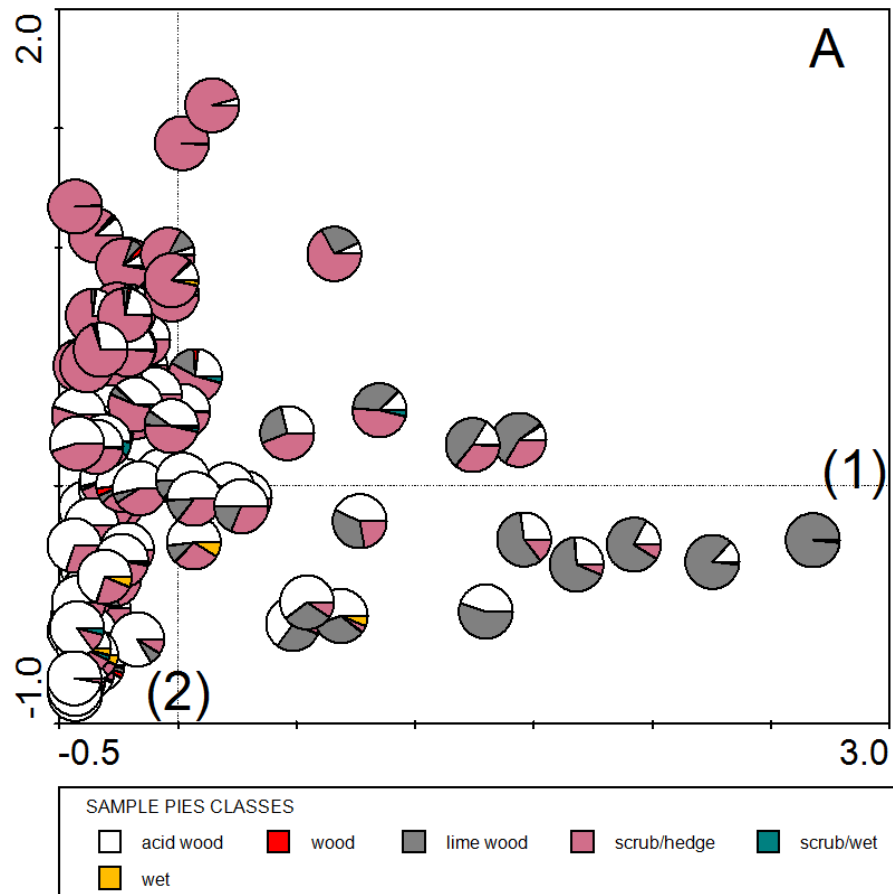


Figure 6.11 Correspondence analysis of wood taxa from all samples excluding SS/042. A) sample points coded according to locality, B) sample points coded according to chronological period



6.12 Correspondence analysis of wood taxa from all samples excluding SS/042. A) sample points showing most common terminal habitat of taxa (Grime et al 2007, B) sample points showing moisture preference of taxa (Grime et al 2007, Stace 2010).

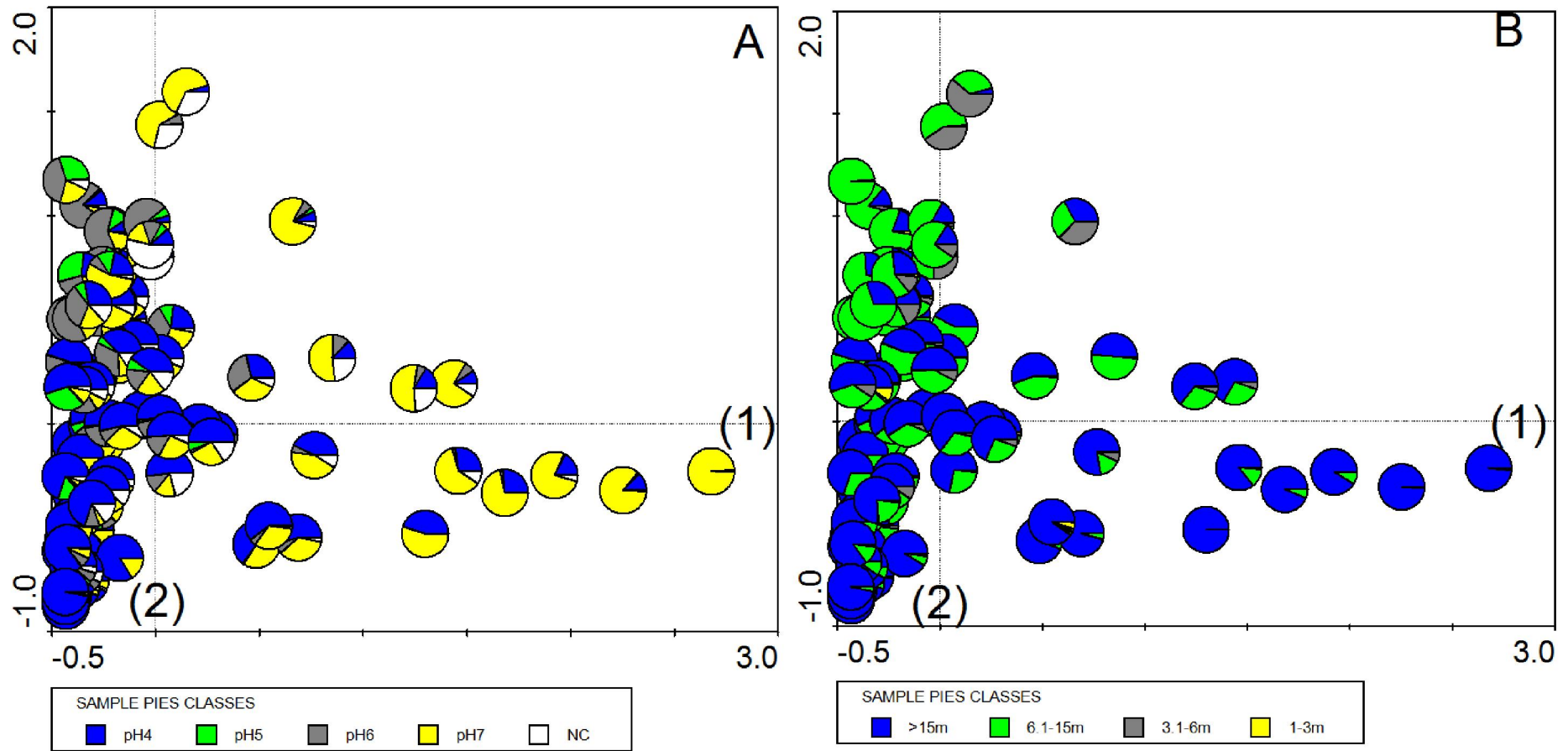
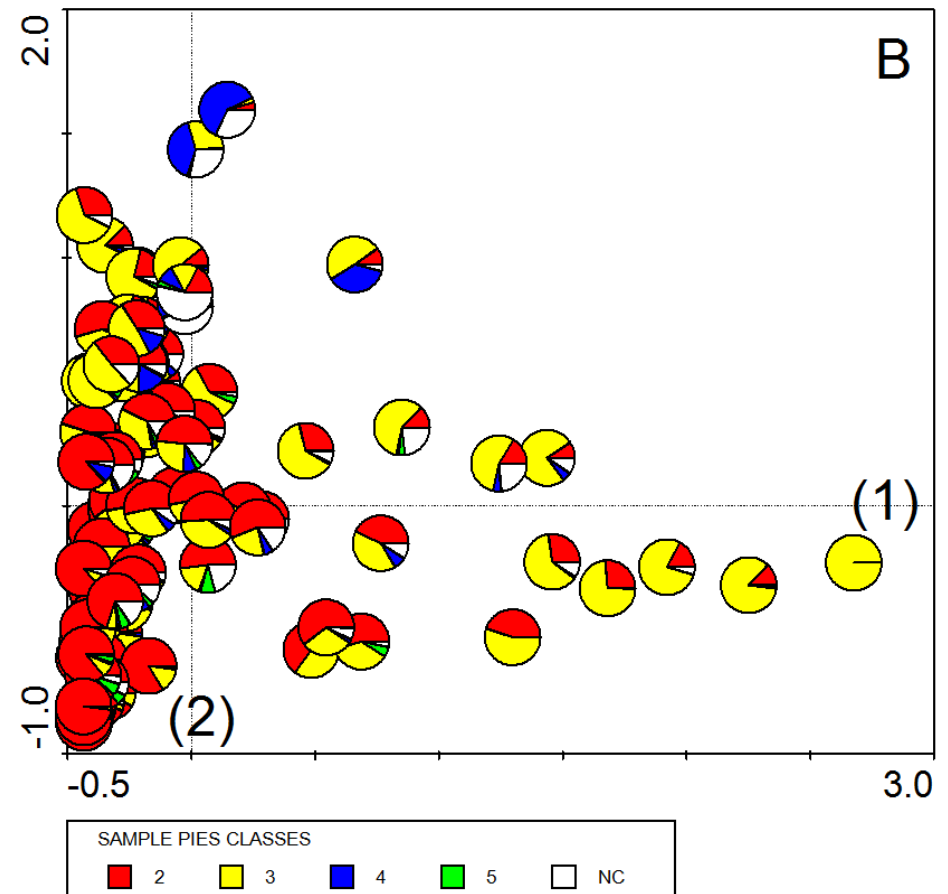
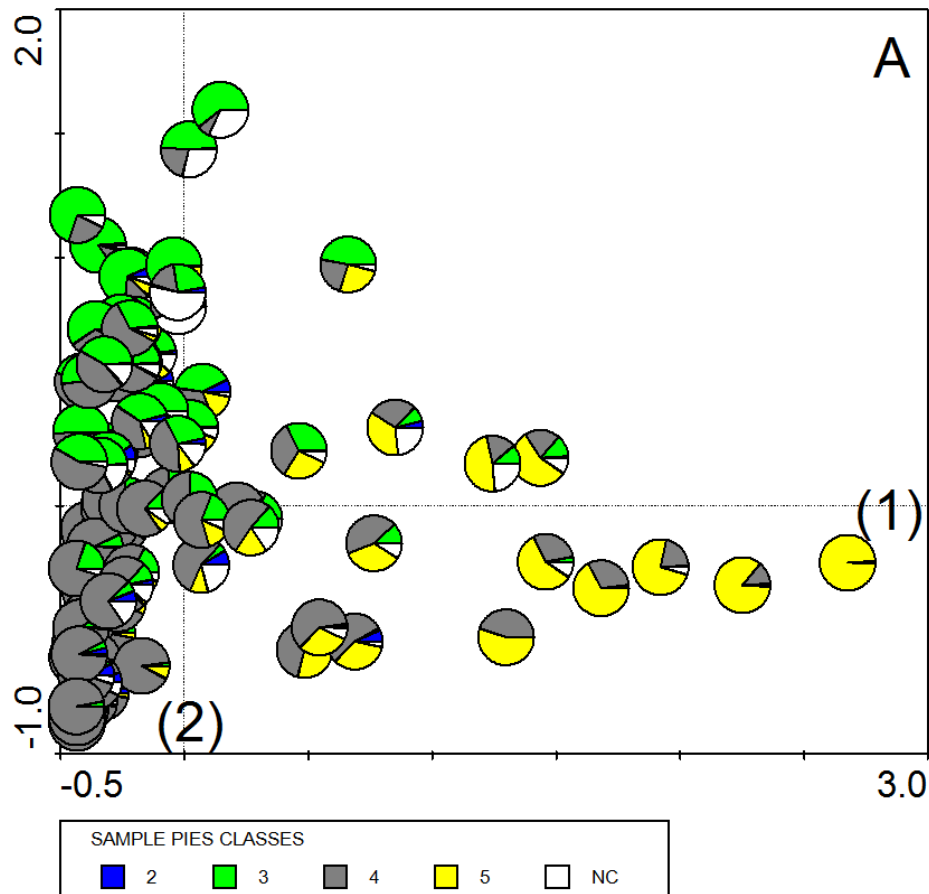


Figure 6.13 Correspondence analysis of wood taxa from all samples excluding SS/042. A) sample points showing median soil pH of taxa, B) with sample points showing maximum height of taxa (Grime et al 2007)



6.14 Correspondence analysis of wood taxa form all samples excluding SS/042. A) sample points showing the fuel value of taxa, B) with sample points showing the 'hardness' of taxa (Keepax 1983).

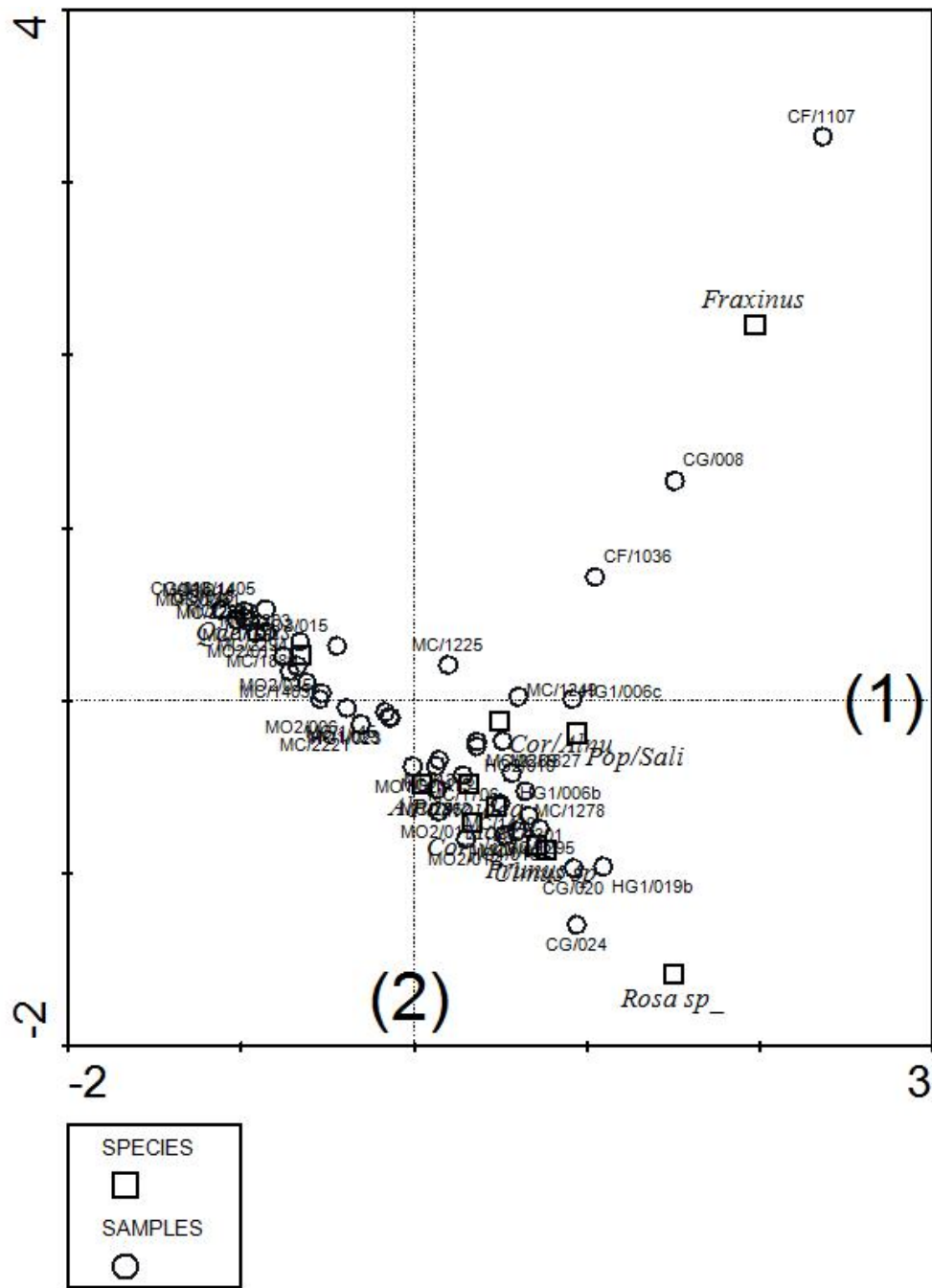


Figure 6.15 Correspondence analysis of wood taxa for samples from the Central area (Locality 2). Plot of samples and taxa.

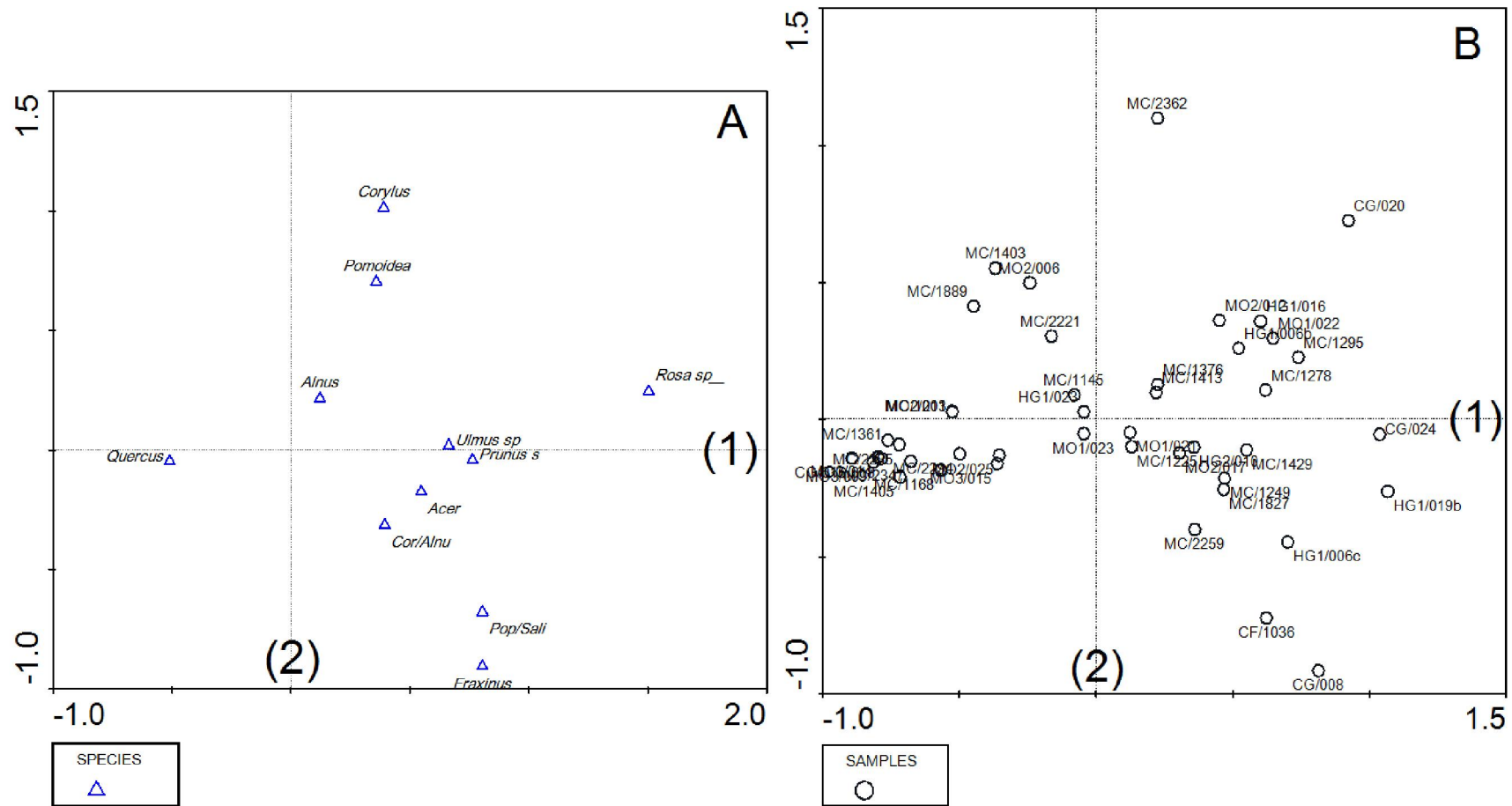


Figure 6.16 Correspondence analysis of wood taxa for samples from the Central area (Locality 2). All samples excluding CF/1107. A) plot of taxa, B) plot of samples.

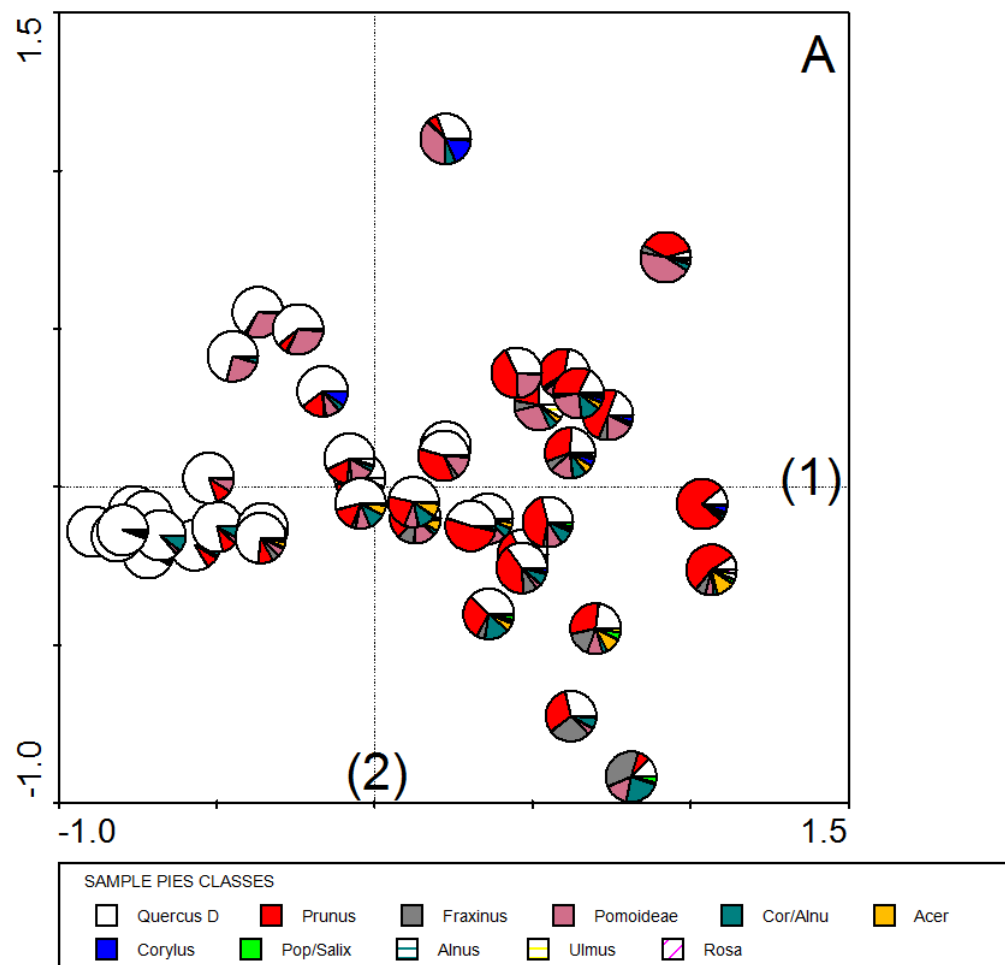


Figure 6.17 Correspondence analysis of wood taxa for samples from the Central area (Locality 2). All samples (excluding CF/1107), with sample points showing wood taxa composition. Plot of axis 1 against axis 2.

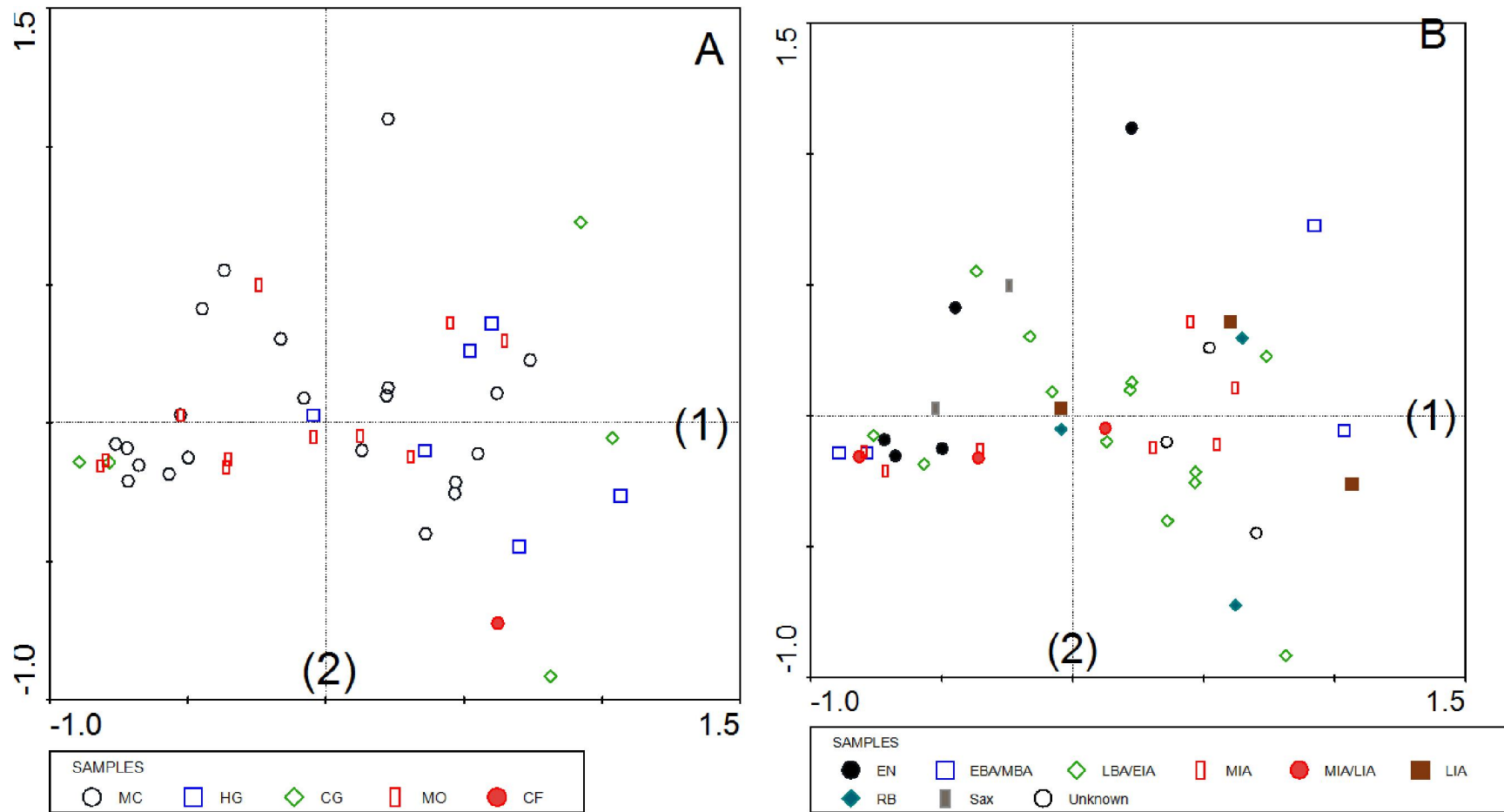


Figure 6.18 Correspondence analysis of wood taxa for samples from the Central area (Locality 2). All samples excluding CF/1107. A) sample points coded according to site, B) sample points coded according to chronological period.

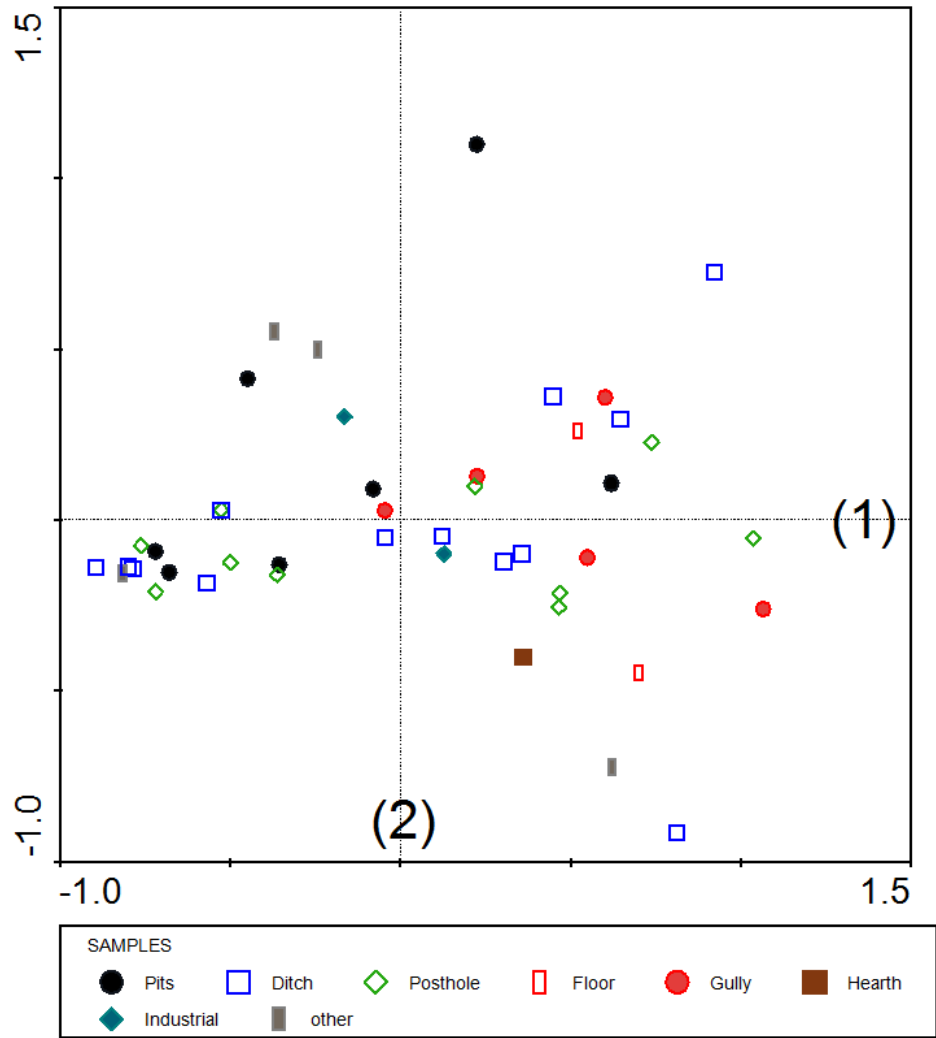


Figure 6.19 Correspondence analysis of wood taxa for samples from the Central area (Locality 2). All samples excluding CF/1107, with sample points showing depositional context.

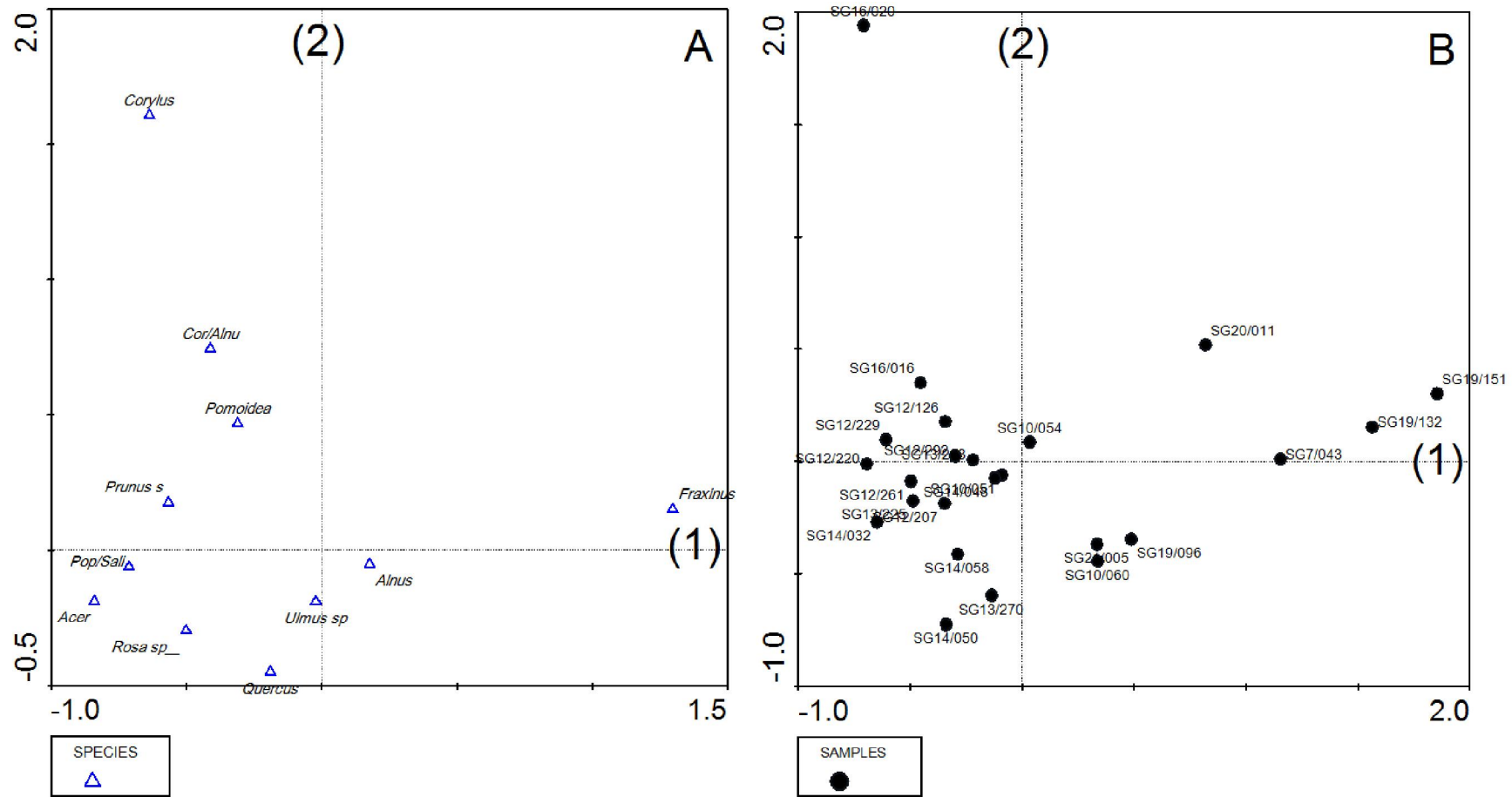


Figure 6.20 Correspondence analysis of wood taxa for samples from Sigwells (Locality 3). A) plot of species, B) plot of samples.

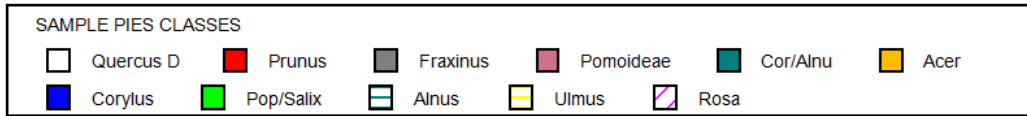
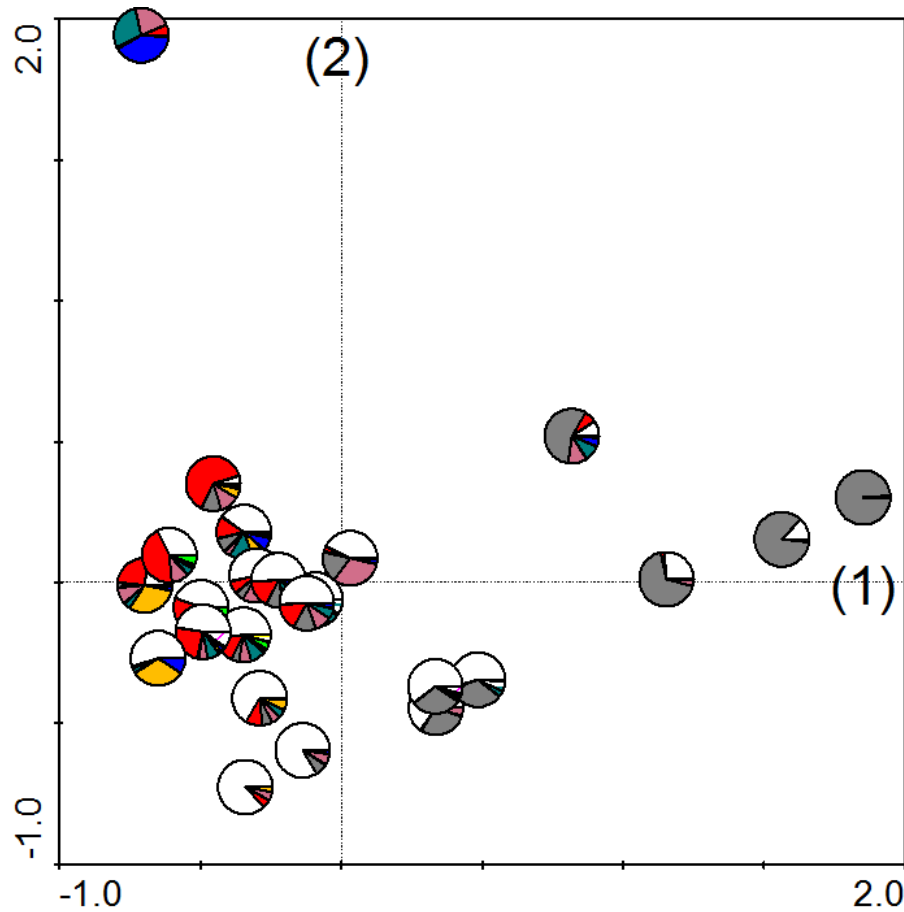


Figure 6.21 Correspondence analysis of wood taxa for samples from Sigwells (Locality 3), with sample points showing wood taxa composition.

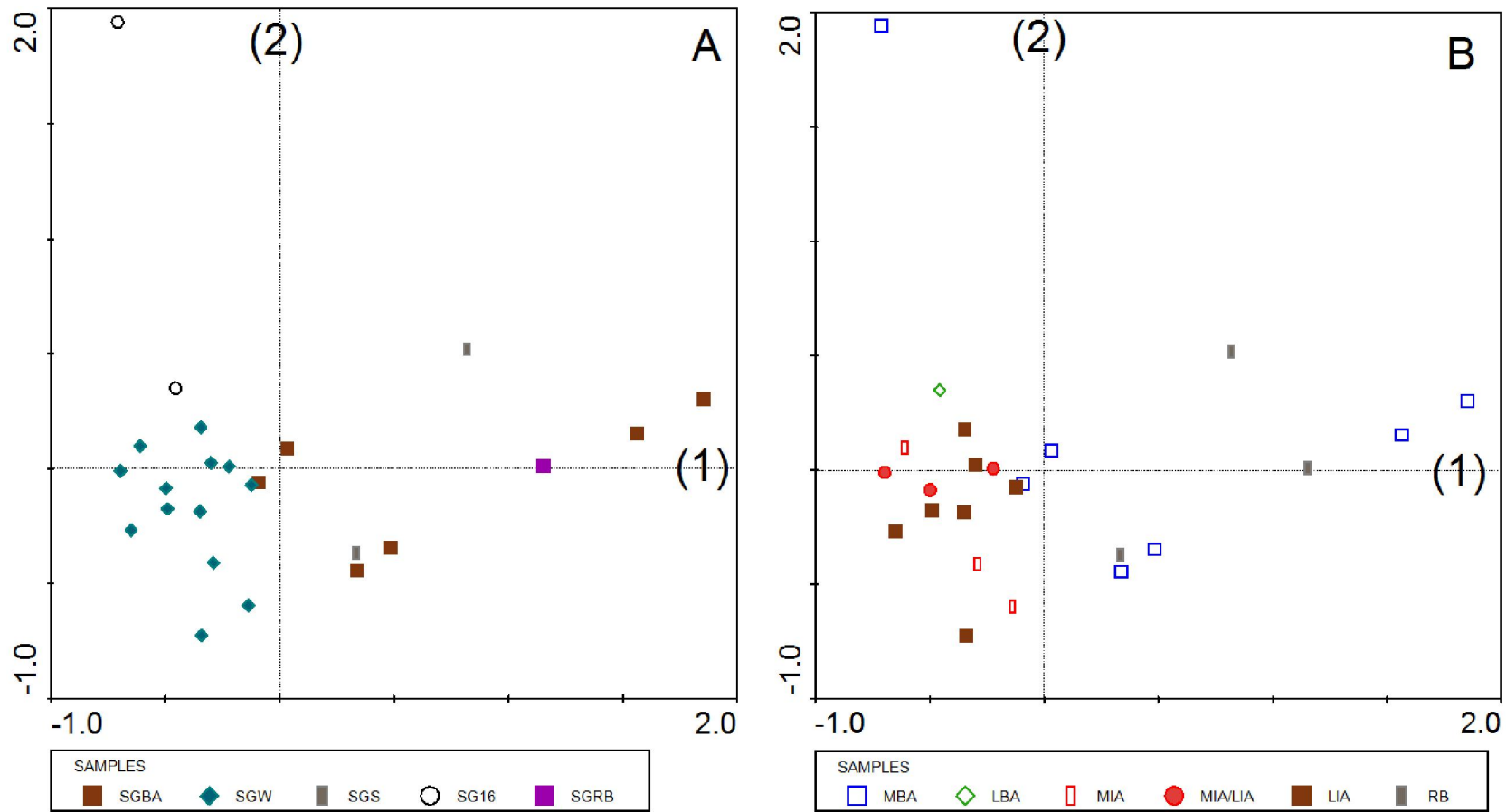
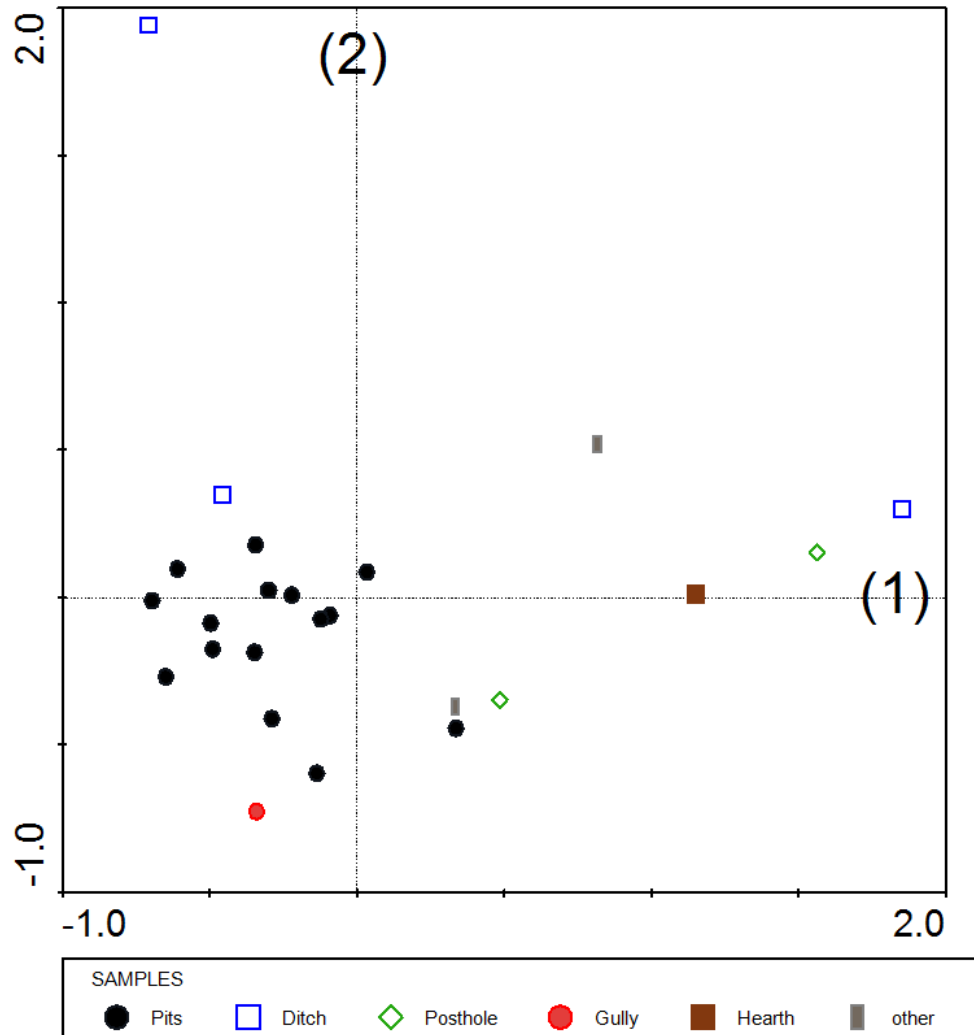


Figure 6.22 Correspondence analysis of wood taxa for samples from Sigwells (Locality 3). A) sample points showing site, B) sample points showing chronological period.



6.23 Correspondence analysis of wood taxa for samples from Sigwells (Locality 3), with sample points coded according to depositional context.

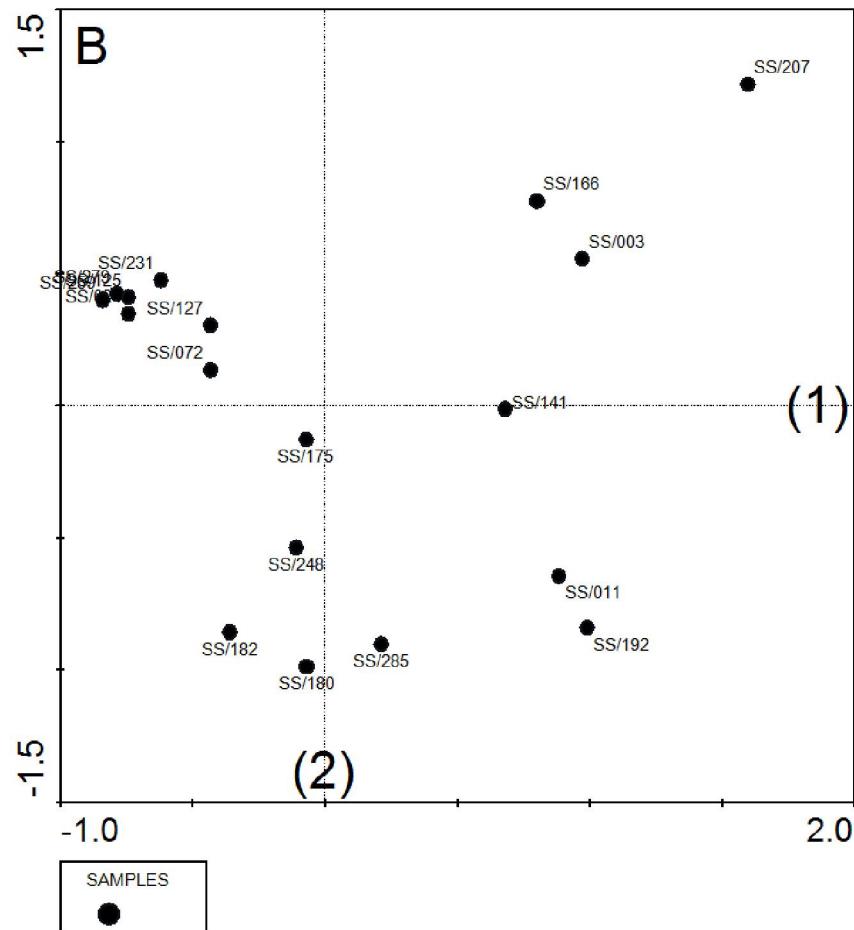
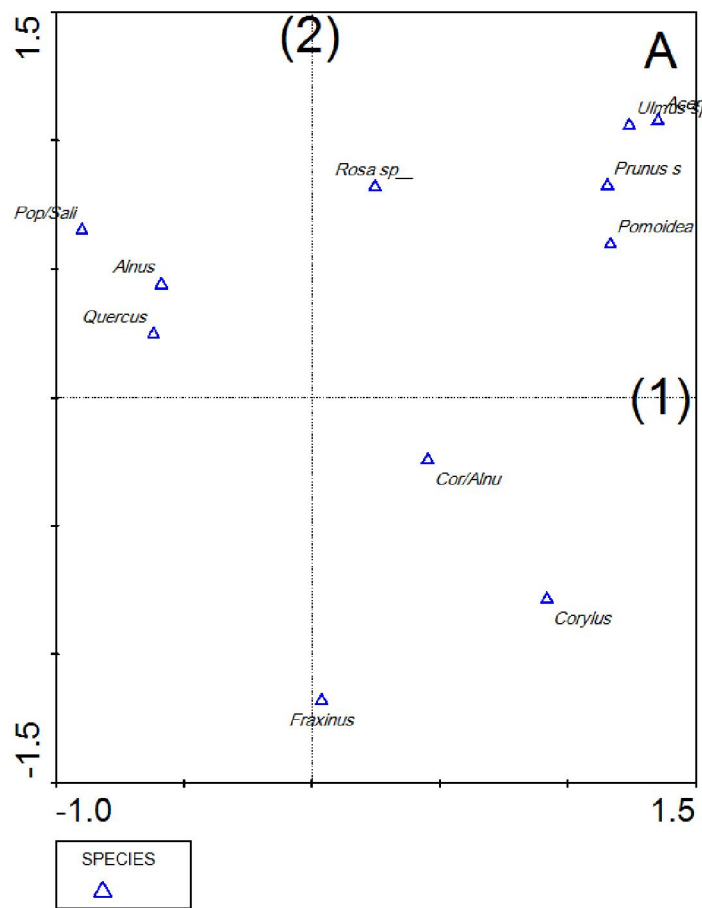
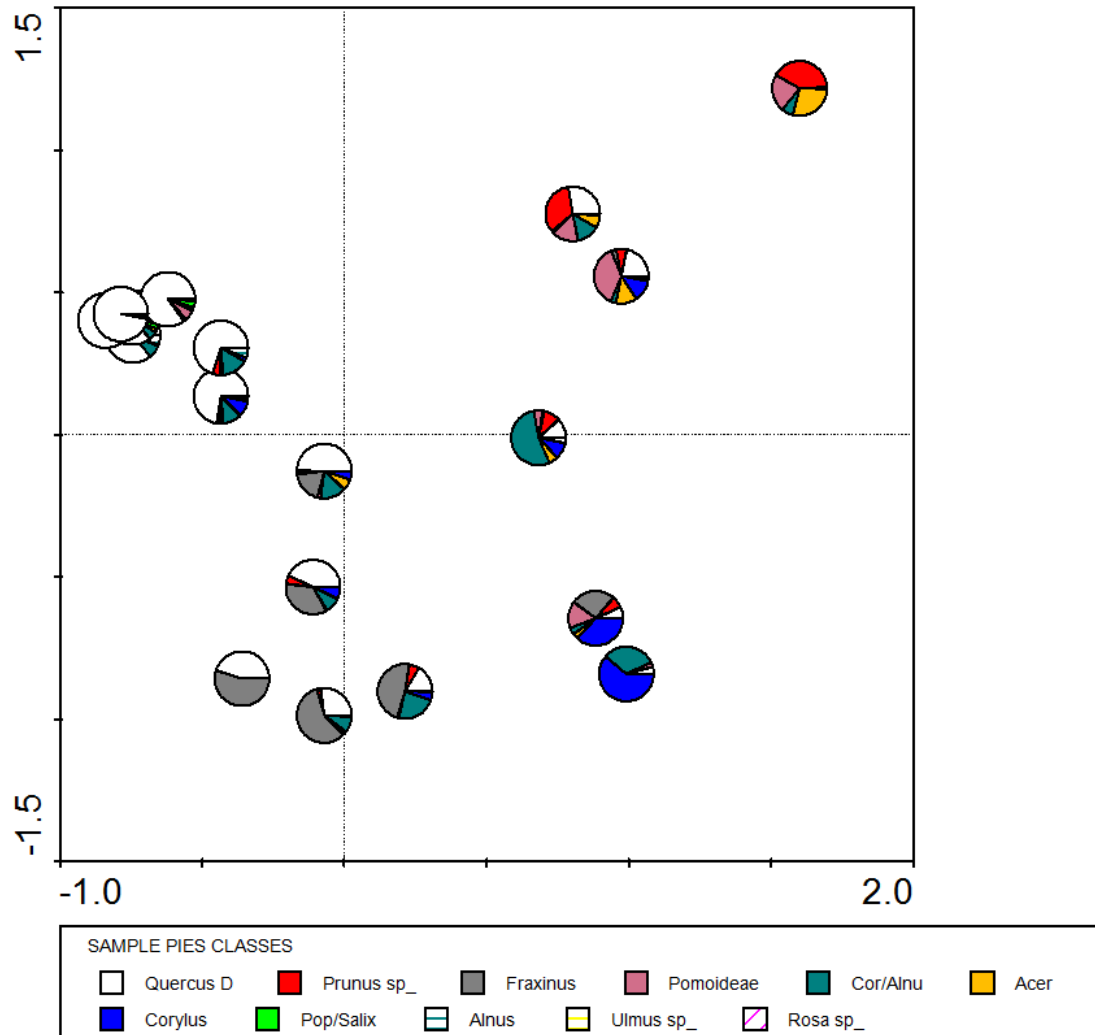
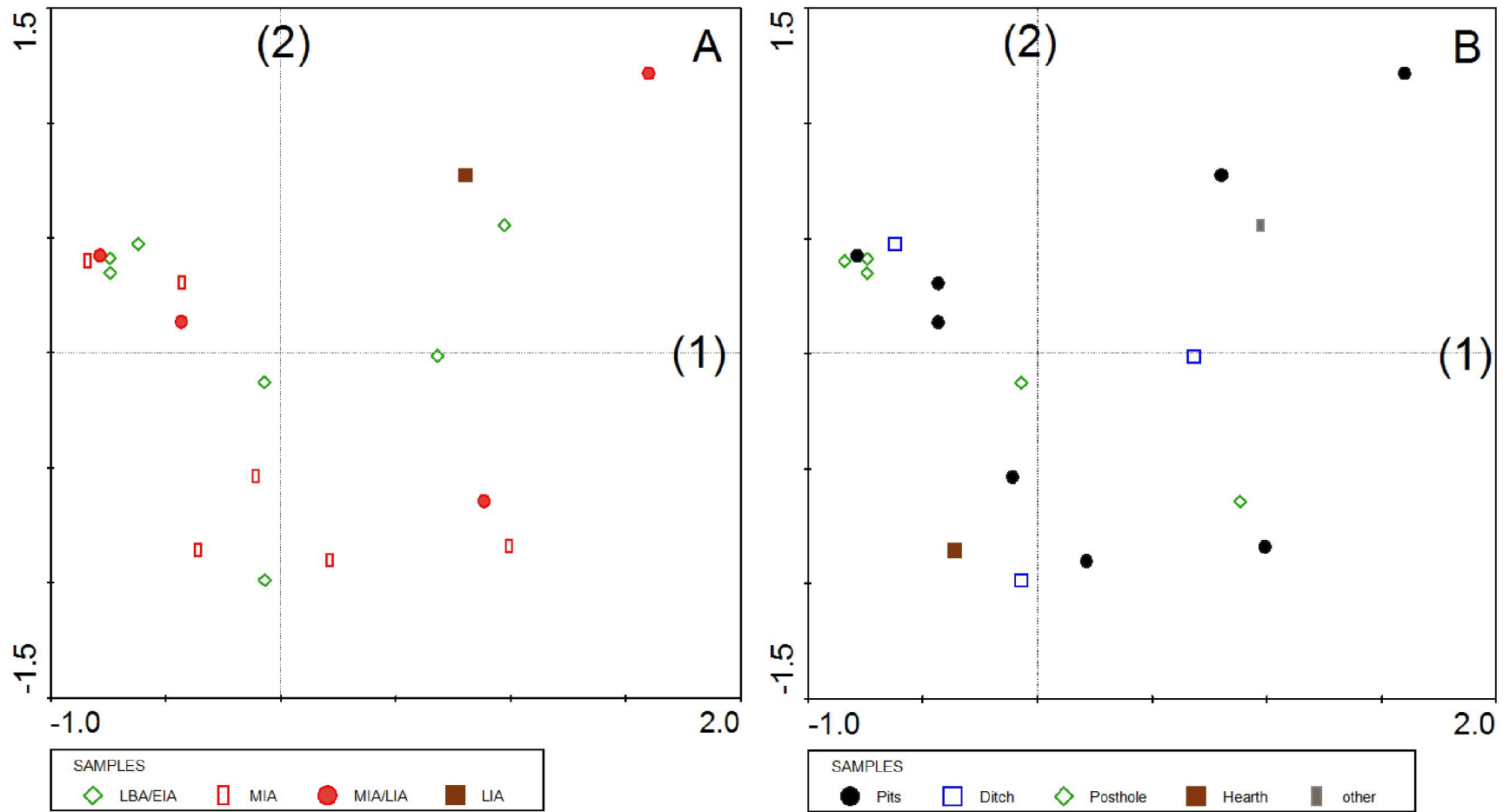


Figure 6.24
Correspondence
analysis of wood
taxa for samples
from Sheepslait
(Locality 4). A)
Plot of taxa, B)
plot of samples.



6.25 Correspondence analysis of wood taxa for samples from Sheepslait (Locality 4), with sample points showing wood taxa composition.



6.26 Correspondence analysis of wood taxa for samples from the Sheepslait (Locality 4). A) Sample points showing chronological period, B) sample points showing depositional context.

Figure 6.27 Summary of ring curvature results: Central, locality 2, Neolithic to Early Iron Age

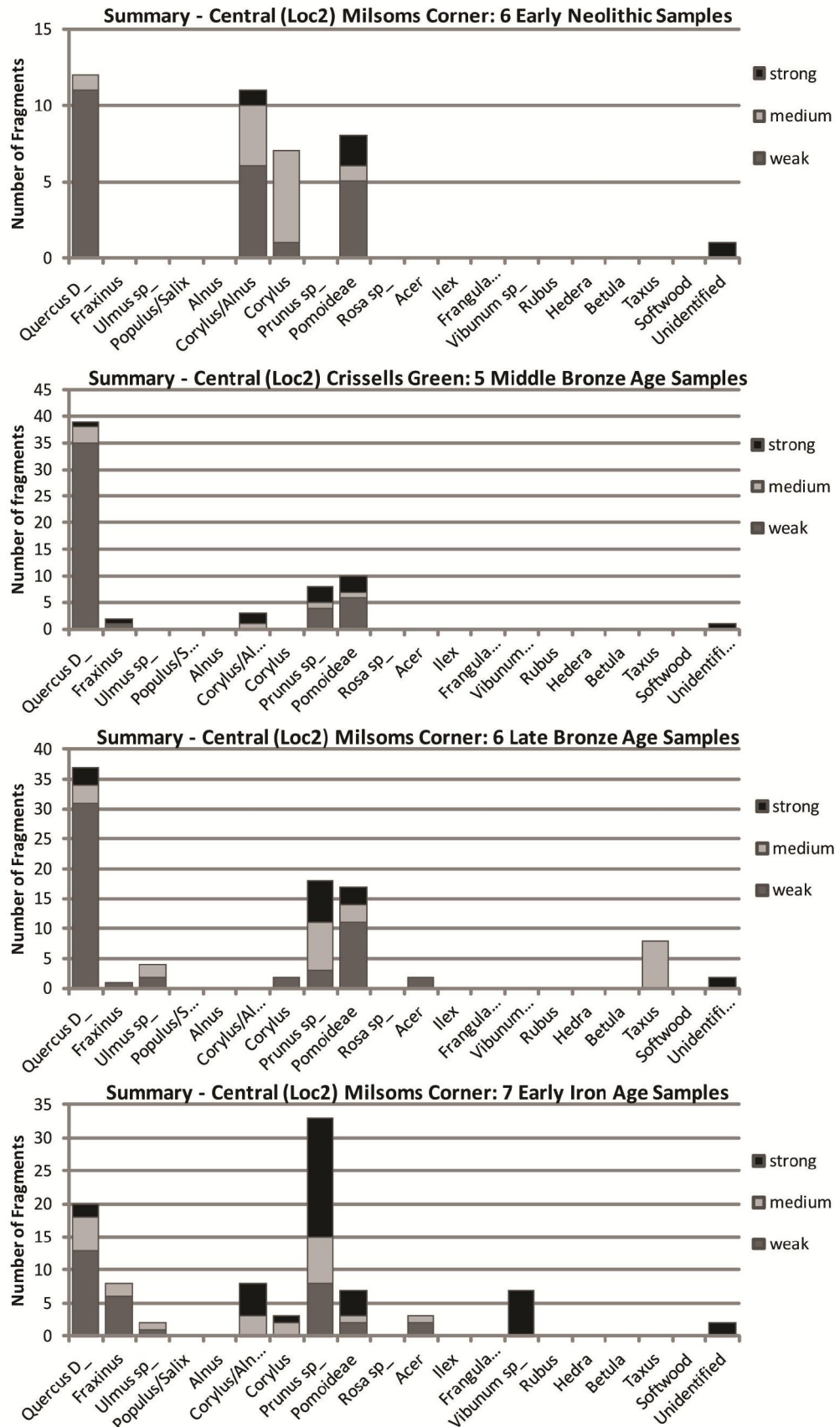


Figure 6.28 Summary of ring curvature results: Central, Locality 2, Middle Iron Age to Romano-British period.

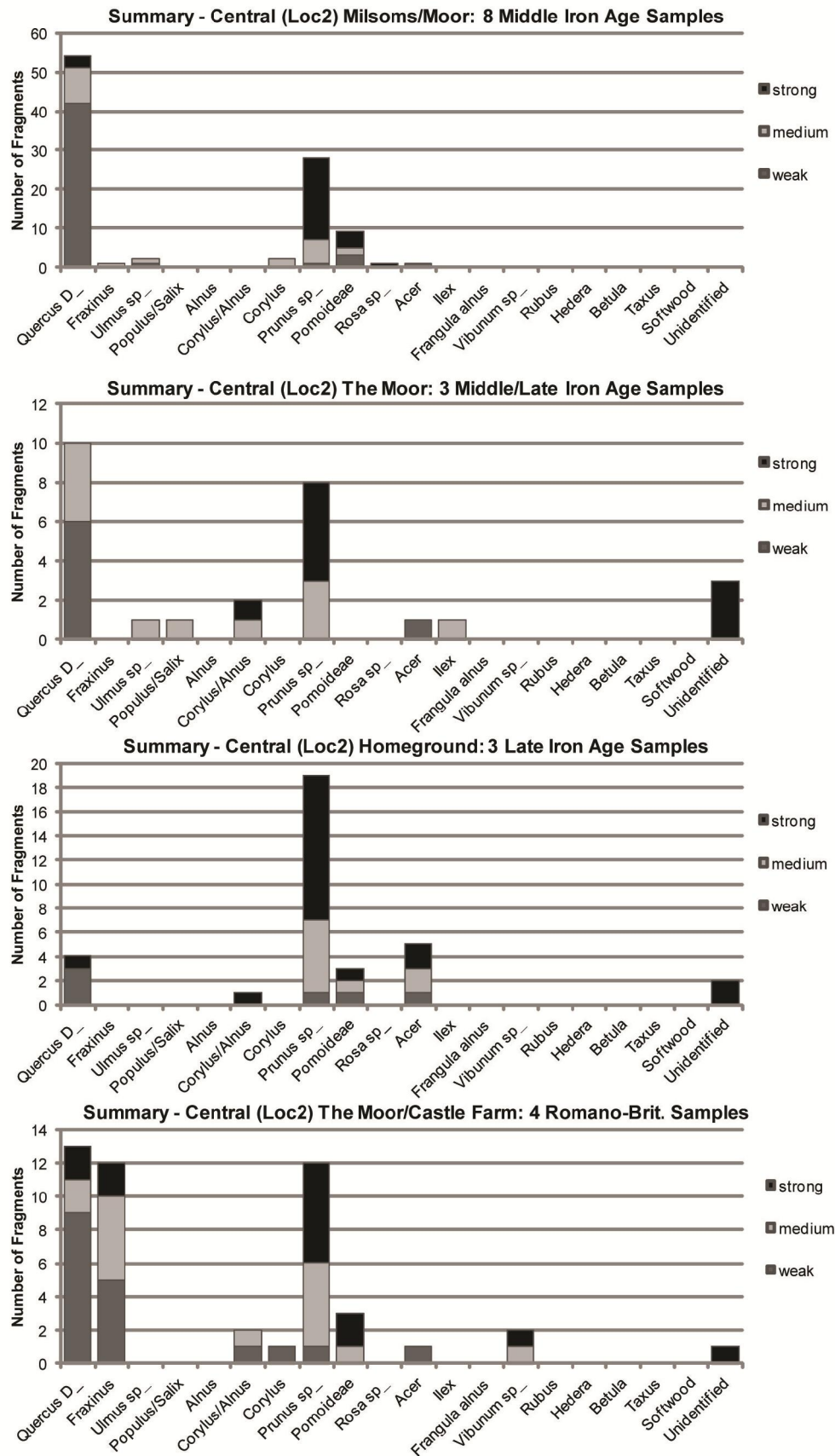


Figure 6.29 Summary of ring curvature results: Sigwells, Locality 3, Early to Late Bronze Age (shaded graphs based on a single sample).

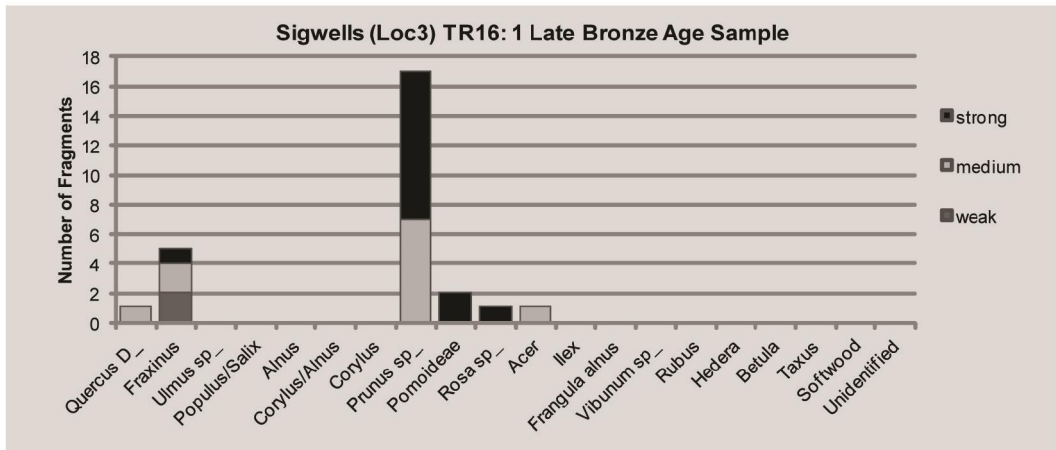
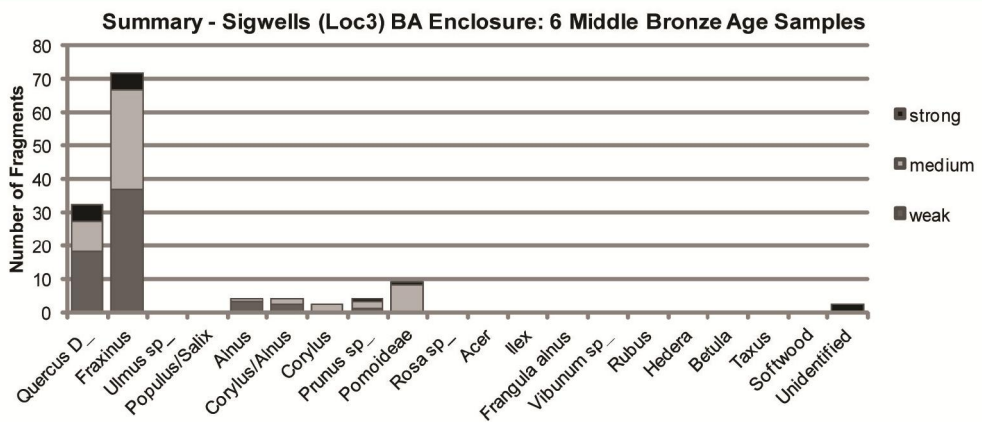
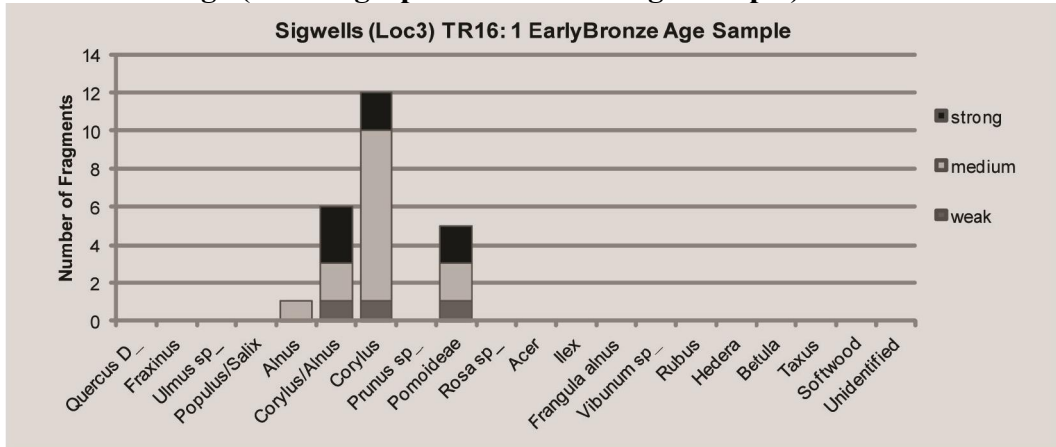


Figure 6.30 Summary of ring curvature results: Sigwells, Locality 3, Middle Iron Age to Romano-British.

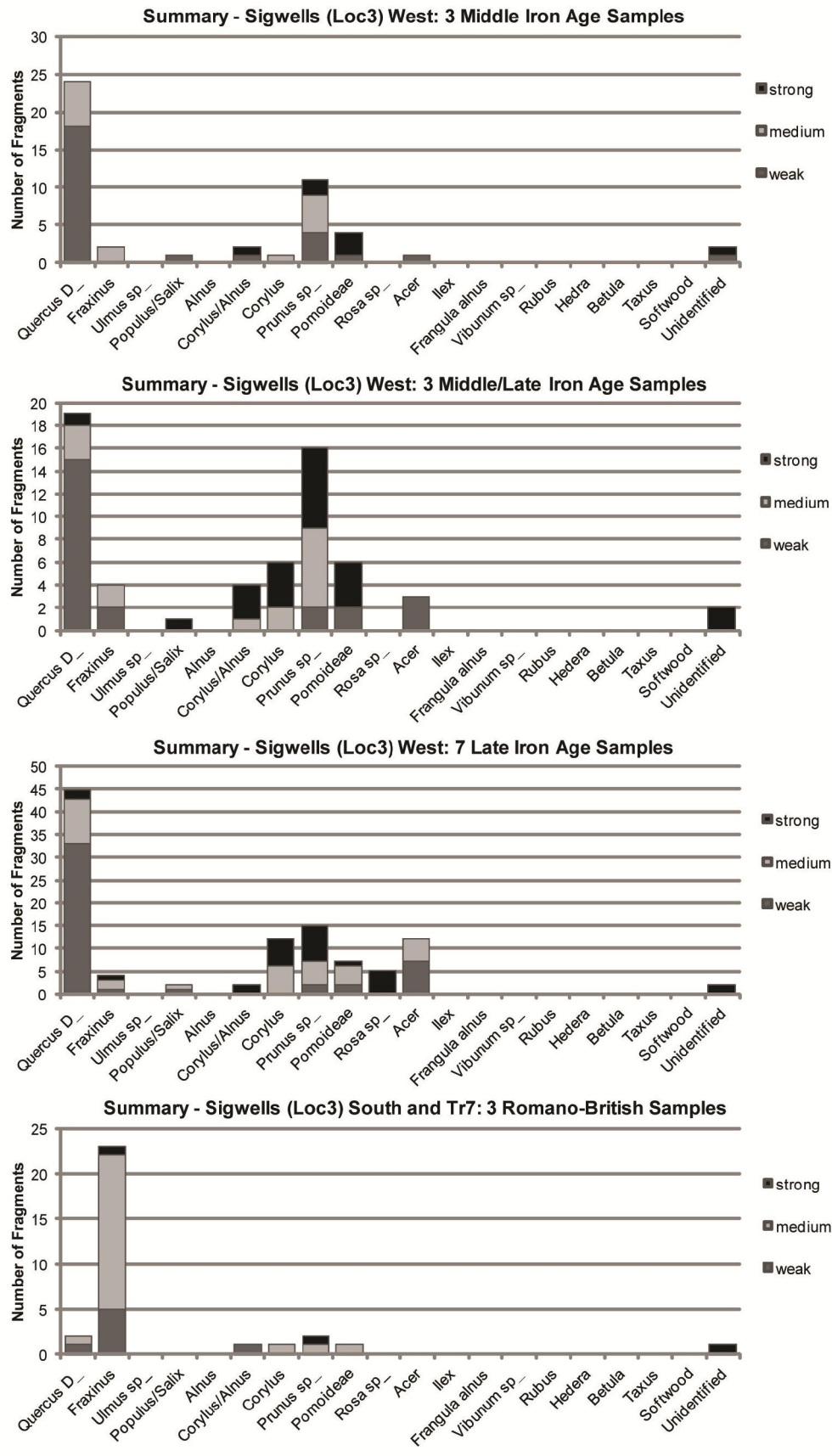


Figure 6.31 Summary of ring curvature results: Sheepslait, Locality 4, Early Bronze Age to Late Iron Age (shaded graphs based on a single sample).

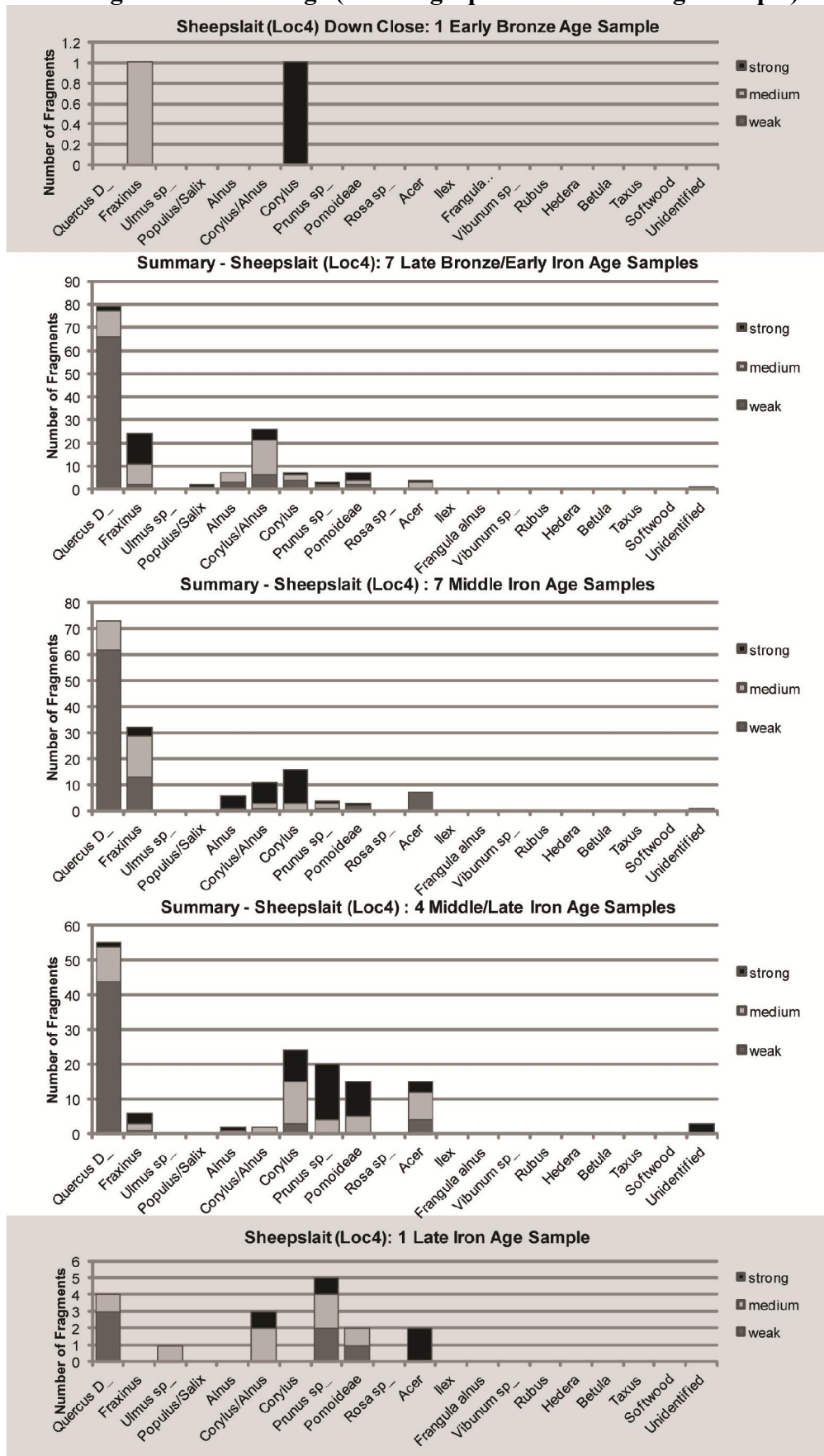
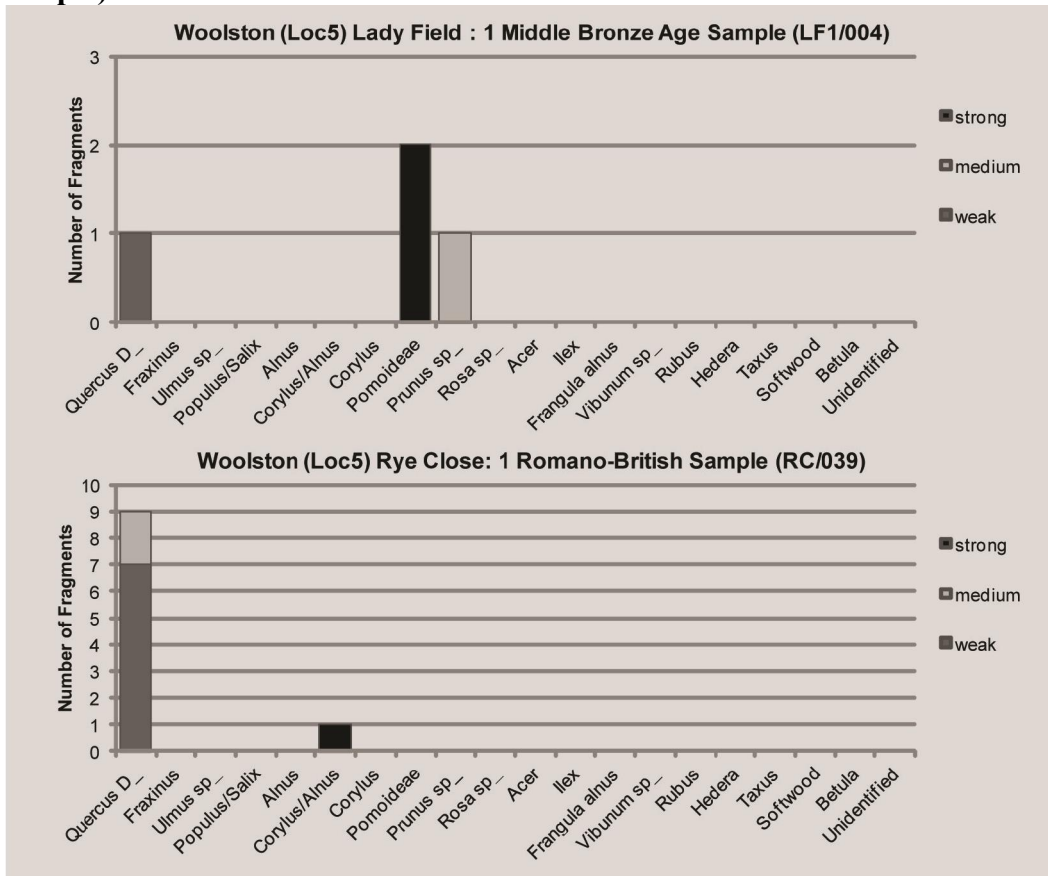


Figure 6.32 Summary of ring curvature results: Woolston, Locality 5, Middle Bronze Age and Romano-British (shaded graphs based on a single sample).



Appendix: crop/weed/wild herbaceous plant counts

Tables A.1-A.12 contain the transformed and proportionally assigned counts of the crop, weed and herbaceous plant parts used in chapter 5.

Samples where the sample numbers and context information are shaded at the top of the table indicate samples containing 50 crop items or greater (excluding culms).

Shaded sections at the bottom of each table include counts for unidentified but potentially identifiable items, non-seed items, rare items excluded from calculations and counts or estimates for culms, nutshell and tuberous material.

Table A.1 Nine Acres, Clay (Locality 1)

Sample no. (shaded samples ≥ 50 cereal items)	NA /007
Chronological period	RB
Soil volume (litres)	17
	Ash depos.
Taxa	
Gume w heats grain+	151
Barley grain+	54
Oat grain	18
Rye grain	17
Spelt glume bases+	2418
Emmer glume bases+	214
Barley rachis internodes+	9
Rye rachis internodes	96
Large legume indet.	7
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray	2
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1	2
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	51
<i>Trifolium</i> L. sp.	1
Small Legume indet.	10
<i>Raphanus raphanistrum</i> L. pod	2
Brassicaceae indet.	2
<i>Fallopia convolvulus</i> (L.) Á. Löve	1
Polygonaceae Large indet.	1
<i>Rumex</i> L. sp. (typeA)+	42
<i>Atriplex</i> L. spp.	5
<i>Galium aparine</i> L.	2
<i>Galium</i> L. indet.	2
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	12
Asteraceae Small indet.	6
<i>Bromus hordeaceus</i> L. ssp.	15
<i>Bromus</i> L. spp.	2
<i>Anisantha sterilis</i> (L.) Nevski	2
<i>Lolium</i> L. sp.	20
Medium Grass	234
Small Grass	12
Potentially identifiable weed/wild seed	21
cf. <i>Raphanus</i> L. seed	1
Unassigned Chenopodium L./	
Caryophyllaceae indet.	7
Large culm node	3
Small culm node	
Culm frag. (wide)	5
Culm frag. (thin)	3
Nutshell frags (<i>Corylus</i>)	3

Table A.2 Milsoms Corner, Central (Locality 2)

Sample no. (shaded samples ≥50 cereal items)	MC /1018	MC /1068	MC /1106	MC /1145	MC /1150	MC /1168	MC /1202	MC /1203	MC /1225	MC /1249	MC /1278
Chronological period	EIA	M-LBA	E-MIA	LBA	LBA	LBA	EIA	MIA	EIA	EIA	MIA
Soil volume (litres)	3	7.5	2	10	25	12.5	20	7	10	11	11
Taxa	indust. area	Ditch fill	Posthole	Pit (vessel)	Vessel contents	Ditch fill (mid/upper)	Posthole	Posthole	Industrial deposit	Posthole	Pit fill (vessel)
Gume w heats grain+	4	6	1	10	11	3	25		1		
Free threshing w heat grain+											
Barley grain+	11			6		9	16			3	14
Spelt glume bases+		2	3	5	28	13					37
Emmer glume bases+	2					2	1	5			9
Flax	1								1		
Celtic Bean											
<i>Papaver</i> L. sp.											
<i>Ranunculus</i> L. pitted surface					1						
<i>Ranunculus</i> L.sp.					1	2					
Large legume indet.				2	2						2
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray											
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1					1						
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.				1	11	1				1	21
Small Legume indet.							1				
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.					2						
<i>Persicaria</i> Mill. spp.											1
<i>Fallopia convolvulus</i> (L.) Á.						6					1
Polygonaceae Large indet.											
Polygonaceae Small indet											
<i>Rumex</i> L. sp. (typeA)+					2	6					3
<i>Stellaria</i> cf. <i>media</i> L. Vill.											
Caryophyllaceae indet.											
<i>Chenopodium album</i> L. group						1		1			
<i>Chenopodium</i> L. indet.+						1					
<i>Atriplex</i> L. spp.						3					
<i>Galium aparine</i> L.											9
<i>Galium</i> L. indet.						1					
<i>Veronica hederifolia</i> L.											
<i>Plantago lanceolata</i> L.					1						
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.					2						
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.					2						
<i>Juncus</i> L. spp.				1							
Bicovex <i>Carex</i> L. spp.						1					
<i>Carex</i> L.spp.						1					
Small <i>Carex</i> L.spp.						1					
<i>Bromus hordeaceus</i> L. ssp.					1						
<i>Bromus</i> L. spp.											
<i>Anisantha sterilis</i> (L.) Nevski											
Large Grass		1									
Medium Grass					2	1					
Small Grass							1				
Potentially identifiable weed/wild seed				1	1	1					
cf. Fruit											
Unassigned <i>Chenopodium</i> L./ Caryophyllaceae indet.				1	2						
Unassigned cereal grain											
Unassigned w heat grain+									2		
Unassigned glume w heat glume											
Large culm node											1
Small culm node					1						
Culm frag. (thin)											
Nutshell frags (<i>Corylus</i>)		2			1	8		2	1		
Tuber frags.				2		5					
Tuber											

Table A.2 Milsoms Corner, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	MC /1295	MC /1301	MC /1319	MC /1336	MC /1361	MC /1376	MC /1403	MC /1405	MC /1413	MC /1429	MC /1706
Chronological period	EIA	LBA	MIA	EIA	EIA	EIA	LBA	MIA	LBA	MIA	EN
Soil volume (litres)	14	13	5	9.5	4	14.5	6	5	31.5	/	3
Taxa	Posthole	Posthole	Posthole	Posthole	Posthole	Gully	Burnt mound	Posthole	Posthole	Gully	Hearth pit fill
Gume w heats grain+			27	5	63		10		6		
Free threshing w heat grain+					24						
Barley grain+	2	7	22	43	91	6			6		
Spelt glume bases+	5	15		10			4		64	39	
Emmer glume bases+			6		4					13	
Flax											
Celtic Bean											
<i>Papaver</i> L. sp.											
<i>Ranunculus</i> L. pitted surface											
<i>Ranunculus</i> L.sp.											
Large legume indet.				1							
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray				3						2	
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1											
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	1				1			1	1	10	
Small Legume indet.											
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.											
<i>Persicaria</i> Mill. spp.											
<i>Fallopia convolvulus</i> (L.) Á.				1							1
Polygonaceae Large indet.											
Polygonaceae Small indet											1
<i>Rumex</i> L. sp. (typeA)+	1				2	1	1			7	
<i>Stellaria</i> cf. <i>media</i> L. Vill.											
Caryophyllaceae indet.				1							
<i>Chenopodium album</i> L. group								1			
<i>Chenopodium</i> L. indet.+											
<i>Atriplex</i> L. spp.						1					
<i>Galium aparine</i> L.		1								3	
<i>Galium</i> L. indet.											
<i>Veronica hederifolia</i> L.						1			1		
<i>Plantago lanceolata</i> L.											
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (<i>Bellardi</i>) Dumort.											
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.											
<i>Juncus</i> L. spp.											
Bicovex <i>Carex</i> L. spp.											
<i>Carex</i> L.spp.											
Small <i>Carex</i> L.spp.											
<i>Bromus hordeaceus</i> L. ssp.	1										
<i>Bromus</i> L. spp.			4								
<i>Anisantha sterilis</i> (L.) Nevski											
Large Grass											
Medium Grass					3				2	1	
Small Grass											
Potentially identifiable weed/wild seed					2				2		
cf. Fruit				1							
Unassigned <i>Chenopodium</i> L./ <i>Caryophyllaceae</i> indet.											
Unassigned cereal grain								3			
Unassigned w heat grain+											
Unassigned glume w heat glume						5					
Large culm node				1							
Small culm node											
Culm frag. (thin)	1										
Nutshell frags (<i>Corylus</i>)			1		1	2					67
Tuber frags.		3		2	1	2			3	4	
Tuber							1				

Table A.2 Milsoms Corner, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	MC /1726	MC /1827	MC /1839	MC /1867	MC /1886	MC /1888	MC /1889	MC /2221	MC /2259	MC /2285	MC /2294
Chronological period	MIA	EIA	EN	EIA	EN	EN	EN	LBA	EIA	EN	EN
Soil volume (litres)	1	10	15	2.75	/	48	40	3.5	2.5	1.25	1.2
Taxa	Ditch fill	Pit fill	Pit fill	General layer	Pit fill	Pit fill	Pit fill	Industrial deposit	Hearth	Pit fill	Posthole
Gume w heats grain+	13								2		
Free threshing w heat grain+											
Barley grain+		10									1
Spelt glume bases+								6			
Emmer glume bases+	3	2							6		
Flax							2				
Celtic Bean	6										
<i>Papaver</i> L. sp.	1										
<i>Ranunculus</i> L. pitted surface											
<i>Ranunculus</i> L.sp.											
Large legume indet.	3										
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray											
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1											
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.		3					2	1	1		
Small Legume indet.											
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.											
<i>Persicaria</i> Mill. spp.											
<i>Fallopia convolvulus</i> (L.) Á.		1									
Polygonaceae Large indet.		1						1			
Polygonaceae Small indet					1						
<i>Rumex</i> L. sp. (typeA)+		2						4			
<i>Stellaria</i> cf. <i>media</i> L. Vill.								2			
Caryophyllaceae indet.											
<i>Chenopodium album</i> L. group											
<i>Chenopodium</i> L. indet.+											
<i>Atriplex</i> L. spp.											
<i>Galium aparine</i> L.		2									
<i>Galium</i> L. indet.											
<i>Veronica hederifolia</i> L.											
<i>Plantago lanceolata</i> L.											
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.		1									
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.											
<i>Juncus</i> L. spp.											
Bicovex <i>Carex</i> L. spp.											
<i>Carex</i> L.spp.											
Small <i>Carex</i> L.spp.											
<i>Bromus hordeaceus</i> L. ssp.											
<i>Bromus</i> L. spp.											
<i>Anisantha sterilis</i> (L.) Nevski	1										
Large Grass											
Medium Grass	6										
Small Grass	4										
Potentially identifiable weed/wild seed					1		2		1		
cf. Fruit							3				
Unassigned <i>Chenopodium</i> L/ Caryophyllaceae indet.											
Unassigned cereal grain					2						
Unassigned w heat grain+											
Unassigned glume w heat glume											
Large culm node							4				
Small culm node		1			1				1		
Culm frag. (thin)							2				
Nutshell frags (<i>Corylus</i>)			94		2.1g	10.9g	172.7g			45	19
Tuber frags.	1	1									
Tuber							7				

Table A.2 Milsoms Corner, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	MC /2295	MC /2347	MC /2362
Chronological period	EN	EN	EN
Soil volume (litres)	/	7.75	19
Taxa	Pit fill	Pit fill	Pit fill
Gume w heats grain+			
Free threshing w heat grain+			
Barley grain+			
Spelt glume bases+			
Emmer glume bases+			
Flax			
Celtic Bean			
<i>Papaver</i> L. sp.			
<i>Ranunculus</i> L. pitted surface			
<i>Ranunculus</i> L.sp.			
Large legume indet.			
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray			
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1			
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.		1	1
Small Legume indet.			
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.			
<i>Persicaria</i> Mill. spp.			
<i>Fallopia convolvulus</i> (L.) A.			
Polygonaceae Large indet.			
Polygonaceae Small indet	1		
<i>Rumex</i> L. sp. (typeA)+		3	
<i>Stellaria</i> cf. <i>media</i> L. Vill.			
Caryophyllaceae indet.			
<i>Chenopodium album</i> L. group			
<i>Chenopodium</i> L. indet.+			
<i>Atriplex</i> L. spp.			
<i>Galium aparine</i> L.			
<i>Galium</i> L. indet.			
<i>Veronica hederifolia</i> L.			
<i>Plantago lanceolata</i> L.			
<i>Euphrasia</i> L. sp./ <i>Odonitites vernus</i> (<i>Bellardi</i>) Dumort.			
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.			
<i>Juncus</i> L. spp.			
Bicovex <i>Carex</i> L. spp.			
<i>Carex</i> L.spp.			
Small <i>Carex</i> L.spp.			
<i>Bromus hordeaceus</i> L. ssp.			
<i>Bromus</i> L. spp.			
<i>Anisantha sterilis</i> (L.) Nevski			
Large Grass			1
Medium Grass			
Small Grass			
Potentially identifiable weed/wild seed		1	
cf. Fruit			1
Unassigned <i>Chenopodium</i> L/ Caryophyllaceae indet.			
Unassigned cereal grain			1
Unassigned w heat grain+			
Unassigned glume w heat glume		1	
Large culm node			
Small culm node			
Culm frag. (thin)			
Nutshell frags (<i>Corylus</i>)	1g	1.5g	5.9g
Tuber frags.	4		
Tuber			

Table A.3 Homeground, Central (Locality 2)

Sample no. (shaded samples ≥50 cereal items)	HGTP /006	HGTP /004	HG1 /006a	HG1 /006b	HG1 /006c	HG1 /006d	HG1 /008	HG1 /014	HG1 /016	HG1 /019a	HG1 /019b
Chronological period	MBA	MBA	VLIA?	VLIA?	VLIA?	VLIA?	LIA	LIA?	LIA?	LIA?	LIA?
Soil volume (litres)	22	30.5	28	17	65.5	37.5	23.5	49.5	11	26.5	22.5
Taxa	Depression fill	Burnt mound	floor/aban. level	floor/aban. level	floor/aban. level	floor/aban. level	Gully fill (upper)	Floor fill	Gully fill	Gully Fill	Gully fill
Gume w heats grain+			11	4	9	20	3	7	17	19	32
Free threshing w heat grain+			37	16	52	102		48	30	83	41
Barley grain+		7	5	23	34	33	24	3	6	56	34
Oat grain					3	3	3			4	4
Spelt glume bases+			41	49	38	392	42	15	125	189	31
Emmer glume bases+			18	35	26	150	38	8	105	130	194
Free threshing w heat rachis internodes+											
Barley rachis internodes+				1		4	1			4	
Celtic Bean									1	1	
Pea							2	1			
Large legume indet.			2	3	2				1		4
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray		1								2	
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1										3	
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.		2	2	5	18	16	3		5	5	6
<i>Trifolium</i> L. sp.						1		1			
Small Legume indet.						1			1	2	1
<i>Potentilla</i> L. type						1					
<i>Malva</i> L. sp.			1								
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.								1			
<i>Raphanus raphanistrum</i> L. pod											
<i>Persicaria maculosa</i> Gray			1								1
<i>Persicaria lapathifolia</i> (L.)				1	1						
<i>Persicaria</i> L. spp.				1	3	2					
<i>Polygonum aviculare</i> L. agg.						2					4
<i>Fallopia convolvulus</i> (L.) Á.			1		1	1	1				1
Polygonaceae Large indet.					2						1
Polygonaceae Small indet										1	4
<i>Rumex</i> L. sp. (typeA)+	1	1	9	9	17	48	7	9	3	32	7
<i>Rumex</i> L. sp.+				1	1		3				
<i>Stellaria</i> cf. <i>media</i> L. Vill.											
Caryophyllaceae indet.			1				1	1	1	1	
Caryophyllaceae Small L. indet.						1					
<i>Chenopodium album</i> L. group			2			4	2		2	5	1
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.						1				2	4
<i>Chenopodium</i> L. indet.+						1		3	1	2	1
<i>Atriplex</i> L. spp.			4				2		2		3
<i>Montia fontana</i> L.											
<i>Sherardia arvensis</i> L.											
<i>Galium aparine</i> L.		1	1		1					1	1
<i>Galium</i> L. indet.								1			
<i>Hyoscyamus niger</i> L.								1			
<i>Veronica</i> cf. <i>arvensis</i> L.									1		
<i>Plantago lanceolata</i> L.					1						
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.						3	1			2	
<i>Tripleurospermum inodorum</i>							1			1	
Asteraceae Large intdet.					1					1	
Asteraceae Small intdet.					2				2	1	1
<i>Valerianella dentata</i> (L.) Pollich											
<i>Juncus</i> L. spp.					1				1	1	
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.										1	
Bicovex <i>Carex</i> L. spp.			1								1
Small <i>Carex</i> L. spp.					1					1	

Table A.3 Homeground, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	HGTP /006	HGTP /004	HG1 /006a	HG1 /006b	HG1 /006c	HG1 /006d	HG1 /008	HG1 /014	HG1 /016	HG1 /019a	HG1 /019b
Chronological period	MBA	MBA	VLIA?	VLIA?	VLIA?	VLIA?	LIA	LIA?	LIA?	LIA?	LIA?
Soil volume (litres)	22	30.5	28	17	65.5	37.5	23.5	49.5	11	26.5	22.5
Taxa	Depression fill	Burnt mound	floor/aban. level	floor/aban. level	floor/aban. level	floor/aban. level	Gully fill (upper)	Floor fill	Gully fill	Gully Fill	Gully fill
<i>Bromus hordeaceus</i> L. ssp.			3	4	4	14	3	5	4	13	9
<i>Bromus</i> L. spp.			3	3	3	12	5	2	5	6	12
<i>Anisantha sterilis</i> (L.) Nevski										1	
<i>Lolium</i> L. sp.									1	1	
<i>Poa annua</i> L.					1						
<i>Phleum pratense</i> L.				2		4			1	7	2
<i>Danthonia decumbens</i> (L.) DC.											
Large Grass	3							1		4	1
Medium Grass			3	1		1	3	1		3	1
Small Grass			1	1	11	7	2	4	2	4	1
Type D				1		1			2		
Potentially identifiable weed/wild seed			2	3	1					2	3
Unassigned cereal grain	3										
Unassigned w heat grain+		6									
Detached cereal embryo						3		1		1	
Basal culm node			2	6					1	1	
Large culm node			1		2	2		3	5	2	1
Small culm node				2		2	2				1
Culm frag. (wide)								1			
Culm frag. (thin)			1					1	2	3	
Nutshell frags (<i>Corylus</i>)	1			6	4	3	1	13	3		2
Tuber frags.	3	1	1	5	2	>25		5	2	4	2
Tuber	2				1		5			3	

Table A.3 Homeground, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	HG1 /023	HG1 /025	HG1 /045	HG2 /010	HG2 /003
Chronological period	LIA?	LIA?	LIA?	VLIA?	VLIA?
Soil volume (litres)	27	25	12.5	49.5	118
Taxa	Gully fill	Ditch fill	Ditch fill	Ditch fill	Ditch fill
Gume w heats grain+	24			8	28
Free threshing w heat grain+	39	19	18	15	55
Barley grain+	44	16	7	56	45
Oat grain	7		3	2	1
Spelt glume bases+	118	7	66	140	155
Emmer glume bases+	96	23	33	70	58
Free threshing w heat rachis internodes+				1	
Barley rachis internodes+	1		2		1
Celtic Bean	1			1	
Pea					4
Large legume indet.			1	61	3
<i>Vicia cf. hirsuta</i> (L.) Gray				6	6
<i>Vicia L./Lathyrus L. sp. type1</i>				2	3
<i>Vicia L./Lathyrus L. sp.</i>	5	4	6	3	43
<i>Trifolium L. sp.</i>				1	1
Small Legume indet.			3		3
<i>Potentilla L. type</i>					
<i>Malva L. sp.</i>				4	
<i>Brassica L./Sinapis L. sp.</i>					
<i>Raphanus raphanistrum L. pod</i>			1		
<i>Persicaria maculosa</i> Gray				2	
<i>Persicaria lapathifolia</i> (L.)					
<i>Persicaria L. spp.</i>	2				2
<i>Polygonum aviculare L. agg.</i>					6
<i>Fallopia convolvulus</i> (L.) Á.	1			4	
Polygonaceae Large indet.		1			3
Polygonaceae Small indet.					
<i>Rumex L. sp. (typeA)+</i>	5	1	5	17	11
<i>Rumex L. sp.+</i>					
<i>Stellaria cf. media</i> L. Vill.				1	
Caryophyllaceae indet.	1			1	
Caryophyllaceae Small L. indet.					
<i>Chenopodium album L. group</i>			3		
<i>Chenopodium rubrum L./glaucum L.</i>					
<i>Chenopodium L. indet.+</i>	1		1		
<i>Atriplex L. spp.</i>				2	
<i>Montia fontana L.</i>					1
<i>Sherardia arvensis L.</i>			1	3	4
<i>Galium aparine L.</i>				5	2
<i>Galium L. indet.</i>					1
<i>Hyoscyamus niger L.</i>					
<i>Veronica cf. arvensis L.</i>					1
<i>Plantago lanceolata L.</i>					
<i>Euphrasia L. sp./Odontites vernus</i> (Bellardi) Dumort.					2
<i>Tripleurospermum inodorum</i>				2	2
Asteraceae Large intdet.				2	
Asteraceae Small intdet.					
<i>Valerianella dentata</i> (L.) Pollich	1			3	2
<i>Juncus L. spp.</i>					
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.			1		1
<i>Bicovex Carex L. spp.</i>					
<i>Small Carex L. spp.</i>					

Table A.3 Homeground, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	HG1 /023	HG1 /025	HG1 /045	HG2 /010	HG2 /003
Chronological period	LIA?	LIA?	LIA?	VLIA?	VLIA?
Soil volume (litres)	27	25	12.5	49.5	118
Taxa	Gully fill	Ditch fill	Ditch fill	Ditch fill	Ditch fill
<i>Bromus hordeaceus</i> L. ssp.	10	1	3		
<i>Bromus</i> L. spp.	8			7	8
<i>Anisantha sterilis</i> (L.) Nevski					
<i>Lolium</i> L. sp.			2	16	16
<i>Poa annua</i> L.					
<i>Phleum pratense</i> L.	1			1	
<i>Danthonia decumbens</i> (L.) DC.					2
Large Grass	8				
Medium Grass		1	10	28	23
Small Grass	1		1	5	
Type D				1	1
Potentially identifiable weed/wild seed	5		1	1	
Unassigned cereal grain					
Unassigned wheat grain+					
Detached cereal embryo					
Basal culm node				1	
Large culm node	2			1	
Small culm node			1	3	
Culm frag. (wide)					
Culm frag. (thin)					
Nutshell frags (<i>Corylus</i>)	4	1	3	3	10
Tuber frags.	11	3	>50	9	>25
Tuber	1	>50			

Table A.4 Castle Farm, Central (Locality 2)

Sample no. (shaded samples ≥ 50 cereal items)	CF /1004	CF /1036	CF /1095	CF /1107
Chronological period	RB	RB	RB	RB
Soil volume (litres)	17	16	30	20
Taxa	Oven fill	Midden		Ditch fill (lower/mid)
Gume w heats grain+		26	63	43
Free threshing w heat grain+	12	52	62	52
Barley grain+		35	9	44
Oat grain		2	2	6
Rye grain		1		2
Spelt glume bases+	14	662	268	76
Emmer glume bases+		34		
Free threshing w heat rachis internodes+		1	1	
Barley rachis internodes+		5		
Rye rachis internodes		25	10	
Pea	1			
<i>Ranunculus</i> L. pitted surface			1	
Large legume indet.	1	5		
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray			1	8
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1		1		
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	5	27	8	37
<i>Trifolium</i> L. sp.	1			
Small Legume indet.		8	11	5
<i>Raphanus raphanistrum</i> L. pod				1
Brassicaceae indet.				1
<i>Polygonum aviculare</i> L. agg.		4	1	
Polygonaceae Large indet.		2		1
Polygonaceae Small indet			1	3
<i>Rumex</i> L. sp. (typeA)+		16	20	22
<i>Rumex</i> L. sp.+				1
<i>Chenopodium</i> L. indet.+		3		
<i>Sherardia arvensis</i> L.			2	1
<i>Galium aparine</i> L.		1		
<i>Galium</i> L. indet.	1			
<i>Plantago lanceolata</i> L.			1	1
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.		1		
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.			1	1
Asteraceae Large intdet.		1		
Asteraceae Small intdet.		1	1	1
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.			1	
<i>Bromus hordeaceus</i> L. ssp.		7		1
<i>Bromus</i> L. spp.		3	9	24
<i>Anisantha sterilis</i> (L.) Nevski				1
<i>Lolium</i> L. sp.	1	3		10
Large Grass				4
Medium Grass		8	3	6
Small Grass	2	1	3	4
Type D		2		
<i>Sambucus nigra</i> L.		1		
Potentially identifiable weed/wild seed		1	2	6
cf. Apiaceae				3
cf. Rosaceae sp. >2mm				1
Detached cereal embryo		1		
Basal culm node	1			1
Large culm node			4	
Small culm node		1		4
Culm frag. (thin)		3	2	2
Nutshell frags (<i>Corylus</i>)		6		
Thorn			1	
Tuber		9		

Table A.5 The Moor, Central (Locality 2)

Sample no. (shaded samples ≥ 50 cereal items)	MO1 /006	MO1 /008	MO1 /014	MO1 /021	MO1 /022	MO1 /023	MO2 /006	MO2 /011	MO2 /012	MO2 /013
Chronological period	SAX	SAX	M-LIA	M-LIA	RB	RB	SAX	MIA?	MIA	MIA
Soil volume (litres)	7	10	9	7	21	11	45	34.5	9	2
Taxa	Cultiva. horizon	Plough mark fill	Ditch silt (upper/mid)	Ditch silt (lower)	Ditch silt (lower)	Ditch silt (middle)	Cultivation horizon	Ditch fill (upper)	Ditch fill (upper)	Ditch fill (upper)
Gume w heats grain+	9	9	90	23	22	14	26	45	63	9
Free threshing w heat grain+		4	24	13			10			
Barley grain+	16		57	42	58	30	93	100	207	19
Oat grain			4	2	1	2	7	13	2	11
Rye grain		1								
Spelt glume bases+	31	15	198	190	202	103	158	282	179	15
Emmer glume bases+			57	89	97	91	78	210	28	5
Barley rachis internodes+			17	13	15	6	2	9	3	1
Rye rachis internodes							1			
Celtic Bean				1			1	26	25	2
Pea	2			1			9	1	2	
<i>Fumaria</i> L. sp.					1				1	
<i>Ranunculus</i> L. pitted surface	1			2						
<i>Ranunculus parviflorus</i> L.			1		1		1		1	4
<i>Ranunculus</i> L.sp.					1			2		
Large legume indet.				4			3	9	2	
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray									1	
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1		2	2						1	
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	7	3	25	19	5	6	11	22	17	1
<i>Trifolium</i> L. sp.	1			2					2	
Small Legume indet.			2	4		1	3	5	2	1
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.			1							
<i>Raphanus raphanistrum</i> L. pod						1				
<i>Persicaria maculosa</i> Gray								1		1
<i>Persicaria lapathifolia</i> (L.) Delarbre							1			
<i>Persicaria</i> L. spp.					1		1		1	
<i>Polygonum aviculare</i> L. agg.			1	1				1		
<i>Fallopia convolvulus</i> (L.) A. Löve					1		4	5	3	1
Polygonaceae Large indet.					1			2		2
Polygonaceae Small indet			1				2	5	1	
<i>Rumex</i> L. sp. (typeA)+			23	6	5	3	9	31	19	
<i>Rumex</i> L. sp.+							2	1		
<i>Stellaria</i> cf. <i>media</i> L. Vill.			1							
Caryophyllaceae indet.									1	
<i>Chenopodium album</i> group	2							3		
<i>Chenopodium</i> L. indet.+			2						4	
<i>Atriplex</i> L. spp.			3	2			1	5		2
<i>Montia fontana</i> L.								1		
<i>Sherardia arvensis</i> L.	1		3	1	3	1		4	2	2
<i>Galium aparine</i> L.	2	1		2			1	5	2	
<i>Galium</i> L. indet.		1		1		1	2		1	
<i>Hyoscyamus niger</i> L.				1						
<i>Veronica</i> cf. <i>arvensis</i> L.								2		
<i>Veronica hederifolia</i> L.				2						
<i>Plantago lanceolata</i> L.							2	1	2	
Lamiaceae indet.				1			1	1		
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.									1	
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.							1			
Asteraceae Large indet.									1	
Asteraceae Small indet.				1						
<i>Valerianella dentata</i> (L.) Pollich			3			1		1		
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.	1						1			
<i>Carex</i> L. spp.										

Table A.5 The Moor, Central (Locality 2) cont.

Sample no. (shaded samples \geq 50 cereal items)	MO1 /006	MO1 /008	MO1 /014	MO1 /021	MO1 /022	MO1 /023	MO2 /006	MO2 /011	MO2 /012	MO2 /013
Chronological period	SAX	SAX	M-LIA	M-LIA	RB	RB	SAX	MIA?	MIA	MIA
Soil volume (litres)	7	10	9	7	21	11	45	34.5	9	2
Taxa	Cultiva. horizon	Plough mark fill	Ditch silt (upper/mid)	Ditch silt (lower)	Ditch silt (lower)	Ditch silt (middle)	Cultivation horizon	Ditch fill (upper)	Ditch fill (upper)	Ditch fill (upper)
<i>Bromus hordeaceus</i> L. ssp.			23	7		3	16	21	31	3
<i>Bromus</i> L. spp.		2	23	20	6	5	7	14	25	1
<i>Anisantha sterilis</i> (L.) Nevski			3		1		1	2	1	
<i>Lolium</i> L. sp.	1		7	6						
<i>Phleum pratense</i> L.									1	
Large Grass			19				7		3	
Medium Grass	4	3	21	15		3	5	5		
Small Grass			2	1	2	1	17	26	24	
Type D								1	1	
Potentially identifiable weed/wild seed								3		2
cf. Fruit										
Unassigned <i>Rumex</i> L. sp.	2									1
Basal culm node			20	7				1	2	
Large culm node			10	4	4		1	4	8	
Small culm node	1	3	2	1	2	1	2	3	1	
Culm frag. (wide)			7	1			2			
Culm frag. (thin)			5	4	1					
Nutshell frags (<i>Corylus</i>)	1			1	1		3	1	1	1
Thorn					1					
Tuber frags.			3	1		7	6	30	22	3
Tuber			2	2	1		2	2	1	
Parencyma										

Table A.5 The Moor, Central (Locality 2) cont.

Sample no. (shaded samples ≥ 50 cereal items)	MO2 /017	MO2 /020	MO2 /025	MO3 /009	MO3 /014	MO3 /015	MO3 /027
Chronological period	MIA	MIA	MIA	M-LIA	MIA	M-LIA	MIA
Soil volume (litres)	9	11	10	12	8.5	9	8
Taxa	Ditch fill (upper)	Ditch fill (lower)	Pit fill	Layer	Ditch fill (upper)	Posthole	Ditch fill (middle)
Gume w heats grain+	16	16	23		21	32	5
Free threshing w heat grain+				2			
Barley grain+	42	16	28	17	19	61	15
Oat grain						2	
Rye grain							
Spelt glume bases+	329	24	87	31	31	170	
Emmer glume bases+	105	2	30	13		28	30
Barley rachis internodes+	6		4	1		1	
Rye rachis internodes							
Celtic Bean	3						
Pea				1			
<i>Fumaria</i> L. sp.							
<i>Ranunculus</i> L. pitted surface	1						
<i>Ranunculus parviflorus</i> L.	1						
<i>Ranunculus</i> L.sp.							
Large legume indet.	3	1			2		2
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray							
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1					1		
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	3	2		3	1	9	1
<i>Trifolium</i> L. sp.	6						
Small Legume indet.		1				2	
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.			1				
<i>Raphanus raphanistrum</i> L. pod						1	
<i>Persicaria maculosa</i> Gray							
<i>Persicaria lapathifolia</i> (L.) Delarbre		1				1	
<i>Persicaria</i> L. spp.			1				
<i>Polygonum aviculare</i> L. agg.	1						
<i>Fallopia convolvulus</i> (L.) A. Löve	3	3					1
Polygonaceae Large indet.	3		4		1		1
Polygonaceae Small indet							
<i>Rumex</i> L. sp. (typeA)+	10	1	9	2		3	1
<i>Rumex</i> L. sp.+				1			
<i>Stellaria</i> cf. <i>media</i> L. Vill.					1		
Caryophyllaceae indet.							
<i>Chenopodium album</i> group	1		3			3	1
<i>Chenopodium</i> L. indet.+	1		1				
<i>Atriplex</i> L. spp.	1		3				
<i>Montia fontana</i> L.							
<i>Sherardia arvensis</i> L.			2		2	1	
<i>Galium aparine</i> L.	6	1				2	
<i>Galium</i> L. indet.					1		
<i>Hyoscyamus niger</i> L.							
<i>Veronica</i> cf. <i>arvensis</i> L.							
<i>Veronica hederifolia</i> L.							
<i>Plantago lanceolata</i> L.						1	
Lamiaceae indet.							
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.						1	
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.							
Asteraceae Large indet.							
Asteraceae Small indet.			1				
<i>Valerianella dentata</i> (L.) Pollich	1					1	
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.							
<i>Carex</i> L. spp.	1				1		

Table A.5 The Moor, Central (Locality 2) cont.

Sample no. (shaded samples ≥50 cereal items)	MO2 /017	MO2 /020	MO2 /025	MO3 /009	MO3 /014	MO3 /015	MO3 /027
Chronological period	MIA	MIA	MIA	M-LIA	MIA	M-LIA	MIA
Soil volume (litres)	9	11	10	12	8.5	9	8
Taxa	Ditch fill (upper)	Ditch fill (lower)	Pit fill	Layer	Ditch fill (upper)	Posthole	Ditch fill (middle)
<i>Bromus hordeaceus</i> L. ssp.	25	3	7		3	9	3
<i>Bromus</i> L. spp.	21	2	5	1		15	
<i>Anisantha sterilis</i> (L.) Nevski			1			1	
<i>Lolium</i> L. sp.						3	
<i>Phleum pratense</i> L.		1		1		4	
Large Grass							
Medium Grass				3	18	19	
Small Grass	3		2	1		5	1
Type D							
Potentially identifiable weed/wild seed			2			5	
cf. Fruit					1		
Unassigned <i>Rumex</i> L. sp.							
Basal culm node							
Large culm node		1					
Small culm node	1						
Culm frag. (wide)							
Culm frag. (thin)	1						
Nutshell frags (<i>Corylus</i>)	2		1			1	
Thorn							
Tuber frags.			5		4	13	2
Tuber							
Parenchyma					3		

Table A.6 Crissells Green, Central (Locality 2)

Sample no. (shaded samples ≥ 50 cereal items)	CG /008	CG /012	CG /016	CG /018	CG /020	CG /024
Chronological period	M-LBA	M-LBA	MBA	E-MBA	MBA	MBA
Soil volume (litres)	52	28	0.45	53.1	26	28
Taxa	Scoop /Ditch fill	Scoop fill	Ditch fill (middle)	Ditch fill (lower/mid)	Scoop	Posthole (spread)
Gume w heats grain+	9	1		3		12
Free threshing w heat grain+				5		
Barley grain+					23	76
Oat grain					5	2
Spelt glume bases+	4					5
Emmer glume bases+				4	317	80
Barley rachis internodes+					2	1
<i>Ranunculus</i> L. pitted surface					1	
<i>Vicia</i> L. / <i>Lathyrus</i> L. sp.	4	2		4	13	8
Small Legume indet.				1		
Brassicaceae indet.					5	
<i>Persicaria maculosa</i> Gray						1
<i>Persicaria lapathifolia</i> (L.) Delarbre						3
<i>Persicaria</i> L. spp.					5	3
<i>Polygonum aviculare</i> L. agg.					1	
<i>Fallopia convolvulus</i> (L.) A. Löve					4	6
Polygonaceae Large indet.					2	3
Polygonaceae Small indet.						1
<i>Rumex</i> L. sp. (typeA)+	8				2	5
<i>Chenopodium album</i> L. group					14	30
<i>Chenopodium rubrum</i> L. / <i>glaucum</i> L.					8	4
<i>Chenopodium</i> L. indet.+						1
<i>Atriplex</i> L. spp.	1					1
<i>Galium aparine</i> L.						1
<i>Hyoscyamus niger</i> L.					2	
<i>Solanum nigrum</i> L.		1				4
<i>Veronica</i> cf. <i>arvensis</i> L.						1
Lamiaceae indet.					8	
Small <i>Carex</i> L. spp.						2
<i>Bromus</i> L. spp.						7
Large Grass					14	
Medium Grass					3	2
Small Grass					4	4
Potentially identifiable w eed/w ild seed		1			7	13
Unassigned glume w heat glume bases		4				
Large culm node		2			2	3
Culm frag. (w ide)				1		
Nutshell frags (<i>Corylus</i>)	1	1		2		
Tuber frags.	10	2		14	>25	5
Tuber				2		

Table A.7 Bronze Age Tr16, Sigwells (Locality 3)

Sample no. (shaded samples \geq 50 cereal items)	SG16 /020	SG16 /007	SG16 /006
Chronological period	MBA	LBA	LBA
Soil volume (litres)	2.5	10	9.5
Taxa	Ditch fill (basal)	Ditch fill	Ditch silt
Gume w heats grain+		1	4
Barley grain+	30		
Spelt glume bases+			2
Emmer glume bases+			4
Barley rachis internodes+	81		
Small Legume indet.		1	
<i>Panicum</i> L. spp.	1		
<i>Fallopia convolvulus</i> (L.) Á. Löve		1	
<i>Rumex</i> sL. p. (typeA)+			1
<i>Chenopodium album</i> L. group			1
<i>Sherardia arvensis</i> L.			1
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.			2
Asteraceae Large indet.	1		
<i>Bromus</i> L. spp.		1	
Large Grass	1		
Potentially identifiable weed/wild seed			3
cf. Nutlet			1
Unassigned glume w heat glume bases	12	3	
Basal culm node	1		
Small culm node	3		3
Nutshell frags (<i>Corylus</i>)	1		2
Tuber frags.	1		8

Table A.8 Bronze Age Enclosure (Tr10/19), Sigwells (Locality 3)

Sample no. (shaded samples ≥50 cereal items)	SG10 /051	SG10 /053	SG10 /060	SG10 /054	SG19 /048	SG19 /052	SG19 /089	SG19 /104	SG19 /132	SG19 /151	SG19 /096
Chronological period	MBA	MBA	MBA	MBA	M-LBA	MBA	MBA	MBA	MBA	MBA	M-LBA
Soil volume (litres)	66	30	59.5	168	20	18	65	76	15	9	54.5
Taxa	Pit fill	Pit fill	Pit fill (cooking)	Pit fill (cooking)	Scoop fill	Scoop fill	Post trench	Posthole	Posthole (closure)	Ditch fill	Posthole fill
Gume w heats grain+			4	26	5						
Free threshing w heat grain+	11			8						1	
Barley grain+	12	1	31	49	10		4		3	1	
Spelt glume bases+				27	8						
Emmer glume bases+	8		7	20							4
Barley rachis internodes+				1							
Flax				1		5	3	6	7		157
<i>Papaver</i> L. sp.									1		
<i>Ranunculus</i> L. pitted surface		1									
Large legume indet.				2							
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.				6		1			1	1	
Small Legume indet.				2							
<i>Persicaria maculosa</i> Gray		1									
<i>Persicaria lapathifolia</i> (L.)				1							
<i>Polygonum aviculare</i> L. agg.	1			1		1					
<i>Fallopia convolvulus</i> (L.) A.	4	4		2		1					1
Polygonaceae Large indet.				2					1		1
Polygonaceae Small indet.		2	1	2					2		2
<i>Rumex</i> L. sp. (typeA)+	1			3							
<i>Rumex</i> L. sp.+								1			
Caryophyllaceae indet.		2									
<i>Chenopodium album</i> L. group				4							
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.	1										
<i>Chenopodium</i> L. indet.+	1	2									
<i>Atriplex</i> L. spp.								1			
<i>Montia fontana</i> L.		1		2							
<i>Sherardia arvensis</i> L.				4							
<i>Galium aparine</i> L.	3			4		1					
<i>Galium</i> L. indet.	1										
<i>Solanum nigrum</i> L.				1							
<i>Veronica</i> cf. <i>arvensis</i> L.	3		1	4							
<i>Plantago lanceolata</i> L.	1					1					
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i>	1			8				1			
Asteraceae Large indet.									1		
Asteraceae Small indet.	1			4							
Small <i>Carex</i> L. spp.	1	1									
<i>Bromus hordeaceus</i> L. ssp.	2										
<i>Phleum pratense</i> L.						2					2
Medium Grass											2
Small Grass		2	1	2				1	1		4
Potentially identifiable weed/wild seed	3			4							
little twist' type	1			2							
<i>Rubus</i> L. sp.				1							
cf. <i>Malus sylvestris</i> (L.) Mill.	2										1
cf. <i>Malus sylvestris</i> (L.) Mill.	5										
cf. Fruit				1							
cf. Nutlet		1		4							
Caryophyllaceae indet.		1									
Unassigned cereal grain						3					
Unassigned w heat grain+									3		
Unassigned glume w heat glume		5					3			7	
Basal culm node	3		2	1							
Large culm node	5	1		1							
Small culm node				2							
Culm frag. (thin)	3										
Nutshell frags (<i>Corylus</i>)		1	2	2							
Tuber frags.	10		9	6	3	6			4	3	>25
Tuber		9									

Table A.9 Sigwells West (Tr12,13,14), Sigwells (Locality 3)

Sample no. (shaded samples ≥50 cereal items)	SG12 /101	SG12 /126	SG12 /146	SG12 /165	SG12 /174	SG12 /207	SG12 /211	SG12 /220	SG12 /229	SG12 /238	SG12 /243
Chronological period	MIA	LIA	M-LIA	M-LIA	MIA	LIA	MIA	M-LIA	MIA	MIA	MIA
Soil volume (litres)	16	10	15	17	13	164	2.5	20	20.5	18.5	16.5
Taxa	Ditch fill (lower)	Pit fill (upper)	Ditch fill (basal)	Ditch fill (basal)	Pit fill (lower)	Pit fill (burial)	Pit fill	Pit fill (upper)	Pit fill (lower)	Pit fill (middle)	Pit fill (lower)
Gume w heats grain+	6		3	52	13	126		38	28	2	20
Free threshing w heat grain+		11	13	10				13			
Barley grain+	26	32		71	106	252	1	56	12	17	31
Oat grain		1		1	1	5		7			
Rye grain				1			1				
Spelt glume bases+	9	59	4	3	4	614		269	72	57	104
Emmer glume bases+	2			11	4	34			10	14	8
Barley rachis internodes+						8		2	1	2	2
Rye rachis internodes				2				3			
Celtic Bean					2						
Pea											
<i>Papaver</i> L. sp.								1			
<i>Fumaria</i> L. sp.								1			
<i>Ranunculus</i> L. pitted surface											
<i>Ranunculus parviflorus</i> L.											
<i>Ranunculus</i> L.sp.											
Large legume indet.					1			2			
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.		1							2	3	1
<i>Trifolium</i> L. sp.			2		1						
Small Legume indet.	2	4	1	2	1	24		12	7	2	1
<i>Potentilla</i> L. type									2		
<i>Malva</i> sp.											
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.											
<i>Raphanus raphanistrum</i> L. pod	1										
Brassicaceae indet.											
<i>Persicaria maculosa</i> Gray								2			
<i>Persicaria lapathifolia</i> (L.)								2			
<i>Persicaria</i> L. spp.											
<i>Polygonum aviculare</i> L. agg.			1	2				2			
<i>Fallopia convolvulus</i> (L.) Á.	1			2		16		7	4		
Polygonaceae Large indet.	1	1		2		6		2	1	1	
Polygonaceae Small indet		4							2		2
<i>Rumex</i> L. sp. (typeA)+	1	2	1	4	10	30		29	9	6	2
<i>Rumex</i> L. sp.+											
<i>Stellaria</i> cf. <i>media</i> L. Vill.						2		5			
Caryophyllaceae indet.		2								1	
Caryophyllaceae Small indet.	1										
<i>Chenopodium album</i> L. group						2		14			
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.											
<i>Chenopodium</i> L. indet.+		1	2		1						
<i>Atriplex</i> L. spp.				5		6		8		4	6
<i>Montia fontana</i> L.						2		2	1		1
<i>Sherardia arvensis</i> L.		2						3			
<i>Galium aparine</i> L.	2	5		1	4	18	1	19	8	5	5
<i>Galium</i> L. indet.			1	1				1			
<i>Hyoscyamus niger</i> L.						2					
<i>Solanum nigrum</i> L.			1								
<i>Veronica</i> cf. <i>arvensis</i> L.								1			1
<i>Veronica hederifolia</i> L.		1									
<i>Plantago lanceolata</i> L.								2			1
Lamiaceae indet.		1									
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.			1	1		14		1	5		

Table A.9 Sigwells West (Tr12,13,14), Sigwells (Locality 3) cont.

Sample no. (shaded samples ≥50 cereal items)	SG12 /101	SG12 /126	SG12 /146	SG12 /165	SG12 /174	SG12 /207	SG12 /211	SG12 /220	SG12 /229	SG12 /238	SG12 /243
Chronological period	MIA	LIA	M-LIA	M-LIA	MIA	LIA	MIA	M-LIA	MIA	MIA	MIA
Soil volume (litres)	16	10	15	17	13	164	2.5	20	20.5	18.5	16.5
Taxa	Ditch fill (lower)	Pit fill (upper)	Ditch fill (basal)	Ditch fill (basal)	Pit fill (lower)	Pit fill (burial)	Pit fill	Pit fill (upper)	Pit fill (lower)	Pit fill (middle)	Pit fill (lower)
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.					1	4		1			
Asteraceae Large intdet.						2					
Asteraceae Small intdet.	1			1		2					
<i>Valerianella dentata</i> (L.) Pollich	1			1	1						
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.								1			
<i>Bicovex Carex</i> L. spp.		1									
<i>Carex</i> L. spp.				1							
Small <i>Carex</i> L.spp.		1	1								
<i>Bromus hordeaceus</i> L. spp.				7	1	38		17	8	3	6
<i>Bromus</i> L. spp.	1	6	4	7		29		23	3	3	
<i>Anisantha sterilis</i> (L.) Nevski				1	1	2		1			
<i>Lolium</i> L. sp.		1									
<i>Poa annua</i> L.											1
<i>Phleum pratense</i> L.		7					4	3	2		3
<i>Danthonia decumbens</i> (L.) DC.											
Large Grass										4	
Medium Grass		11	1		4	22	1	3	1		
Small Grass	1	6	3	2	2	38		3	1	5	4
Type D		1						1	4		
Potentially identifiable weed/wild seed				1		5		5	1		1
little twist' type											
<i>Euphorbia exigua</i> L.											
Cyperaceae indet.					1						
<i>Lithospermum arvense</i> L. (mineral.)											
<i>Aphanes</i> cf. <i>australis</i> Rydb.											
cf. Fruit											
cf. Nutlet							1				
Unassigned glume w heat glume								2			
Detached cereal embryo											
Basal culm node							6		1		
Large culm node		5			1	15		3	1		2
Small culm node		1		2		10		2		2	
Culm frag. (wide)						4		3			
Culm frag. (thin)						6					
Nutshell frags (<i>Corylus</i>)	4				1	8		2	2	1	1
Tuber frags.	3	7	7	6		13		8 >50	6	8	4
Tuber	4							>10			

Table A.9 Sigwells West (Tr12,13,14), Sigwells (Locality 3) cont.

Sample no. (shaded samples ≥50 cereal items)	SG12 /258	SG12 /261	SG12 /292	SG13 /118a	SG13 /153	SG13 /187	SG13 /225	SG13 /263	SG13 /265	SG13 /270	SG14 /003
Chronological period	MIA	M-LIA	LIA	M-LIA	M-LIA	M-LIA	LIA	M-LIA	LIA	MIA	LIA
Soil volume (litres)	17	35	19.5	50.5	16.5	8.5	22.5	66	21	37.5	9
Taxa	Pit fill (lower)	Pit fill (lower)	Pit fill (lower)	Pit fill (lower)	Pit fill (middle)	Pit fill (basal)	Pit fill (upper)	Pit fill (middle)	Pit fill (middle)	Pit silt (lower/mid)	Pit silt (upper)
Gume w heats grain+	27	80	36	5	6	19	76	697	37	29	25
Free threshing w heat grain+		13						84			
Barley grain+	13	165	51	147	89	32	146	509	96	19	20
Oat grain		15	2		15	2	6	11	7		1
Rye grain		1						2			
Spelt glume bases+	39	43	95	72	86	80	158	2385	7	35	9
Emmer glume bases+			19	11		50	16	1367			
Barley rachis internodes+	1	1		4		1	10	16	1		
Rye rachis internodes											
Celtic Bean				1							
Pea		1	1								
<i>Papaver</i> L. sp.											
<i>Fumaria</i> L. sp.								4			
<i>Ranunculus</i> L. pitted surface	1	1					2	8			
<i>Ranunculus parviflorus</i> L.											
<i>Ranunculus</i> L.sp.											
Large legume indet.		1	2	2	1		1	6			
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.							1	29			
<i>Trifolium</i> L. sp.			2					16		1	
Small Legume indet.	6	7	3	27	24	5	6	248	20	2	
<i>Potentilla</i> L. type			1				8	8	2		
<i>Malva</i> L. sp.		1					6				
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.								28	1	1	
<i>Raphanus raphanistrum</i> L. pod											
Brassicaceae indet.											
<i>Persicaria maculosa</i> Gray							1	8	1	1	
<i>Persicaria lapathifolia</i> (L.)				1				20			
<i>Persicaria</i> L. spp.											
<i>Polygonum aviculare</i> L. agg.		1						20	2		
<i>Fallopia convolvulus</i> (L.) Á.	2	7	1	6		2	3	77	5		1
Polygonaceae Large indet.			2	5	4		5	32	1	1	
Polygonaceae Small indet				5		2	4	4	7		
<i>Rumex</i> L. sp. (typeA)+	6	11	9	12	24	12	54	320	20	1	
<i>Rumex</i> L. sp.+						1					
<i>Stellaria</i> cf. <i>media</i> L. Vill.		2		1		1	2	24	1		
Caryophyllaceae indet.			1		4		1	12			
Caryophyllaceae Small indet.										2	
<i>Chenopodium album</i> L. group		2				1		56	4		
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.											
<i>Chenopodium</i> L. indet.+			1		8		8	16	2		
<i>Atriplex</i> L. spp.	4	11	1		2		32	196	30		
<i>Montia fontana</i> L.		2		2			6	12	1		
<i>Sherardia arvensis</i> L.	1				6	1	2	4	2	2	
<i>Galium aparine</i> L.	10	9	6	10	36	4	29	60	8	5	1
<i>Galium</i> L. indet.				3			2				
<i>Hyoscyamus niger</i> L.	1			2	4		3			1	
<i>Solanum nigrum</i> L.											
<i>Veronica</i> cf. <i>arvensis</i> L.					4		2				
<i>Veronica hederifolia</i> L.							1				
<i>Plantago lanceolata</i> L.							4	16	1		
Lamiaceae indet.			2	1							
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.					4	3	10	16	9		

Table A.9 Sigwells West (Tr12,13,14), Sigwells (Locality 3) cont.

Sample no. (shaded samples ≥50 cereal items)	SG12 /258	SG12 /261	SG12 /292	SG13 /118a	SG13 /153	SG13 /187	SG13 /225	SG13 /263	SG13 /265	SG13 /270	SG14 /003
Chronological period	MIA	M-LIA	LIA	M-LIA	M-LIA	M-LIA	LIA	M-LIA	LIA	MIA	LIA
Soil volume (litres)	17	35	19.5	50.5	16.5	8.5	22.5	66	21	37.5	9
Taxa	Pit fill (lower)	Pit fill (lower)	Pit fill (lower)	Pit fill (lower)	Pit fill (middle)	Pit fill (basal)	Pit fill (upper)	Pit fill (middle)	Pit fill (middle)	Pit silt (lower/mid)	Pit silt (upper)
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.			1	1	4	1	2	24	1		
Asteraceae Large intdet.										2	
Asteraceae Small intdet.			1		2	1					
<i>Valerianella dentata</i> (L.) Pollich		2	2	3	4	1	3	4	2	2	
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.											
<i>Bicovex Carex</i> L. spp.			1	1							
<i>Carex</i> L. spp.						1					
Small <i>Carex</i> L.spp.							2	16	5		
<i>Bromus hordeaceus</i> L. ssp.	8	48	4	11	40	1	55	247	31	5	
<i>Bromus</i> L. spp.	3	10	6	47	24		22	330	36	6	2
<i>Anisantha sterilis</i> (L.) Nevski		1			2	1	1	16	1		
<i>Lolium</i> L. sp.		1				1					
<i>Poa annua</i> L.							2				
<i>Phleum pratense</i> L.							6	16	2		
<i>Danthonia decumbens</i> (L.) DC.			1								1
Large Grass		6			14			24			3
Medium Grass	1	5	4		4	3	13	88	8	4	
Small Grass	1		1	3	8	6	12	56	24		
Type D			2		10		2	16	8		
Potentially identifiable weed/wild seed		2	8	2	10		1	5	8	2	
little twist' type											
<i>Euphorbia exigua</i> L.							2				
Cyperaceae indet.											
<i>Lithospermum arvense</i> L. (mineral.)								13			
<i>Aphanes</i> cf. <i>australis</i> Rydb.											
cf. Fruit		1									
cf. Nutlet											
Unassigned glume w heat glume											
Detached cereal embryo						1	4	16			1
Basal culm node					3	2		18			
Large culm node				2	17	1	22	31	7		
Small culm node	1		1		2			8	1		
Culm frag. (wide)							3	3			
Culm frag. (thin)	1				6	1	3	14	2		
Nutshell frags (<i>Corylus</i>)		2	1	1		1		18			3
Tuber frags.	11	29	4		34	2	>25	>100	15	29	7
Tuber				>25			2	16			

Table A.9 Sigwells West (Tr12,13,14), Sigwells (Locality 3) cont.

Sample no. (shaded samples ≥50 cereal items)	SG14 /032	SG14 /042	SG14 /044	SG14 /048	SG14 /050	SG14 /058	SG14 /060	SG14 /038	SG14 /056
Chronological period	LIA	MIA	MIA	LIA	LIA	MIA	MIA	LIA	LIA
Soil volume (litres)	23	/	/	11	8.5	10	10	10	9.5
Taxa	Pit fill (middle)	Pit silt (upper)	Pit silt (upper)	Pit fill (mid/upper)	Gully/timbers	Pit silt (lower/mid)	Pit fill (lower/mid)	Pit fill (basal)	Pit fill
Gume w heats grain+	22	27	4		11	5	13	38	12
Free threshing w heat grain+									
Barley grain+	60	23	36	34	20	35	23	29	29
Oat grain	5		3						1
Rye grain									
Spelt glume bases+	37	42	11	13	9	41	59	52	55
Emmer glume bases+	22	13			4			6	
Barley rachis internodes+		1					2		1
Rye rachis internodes									
Celtic Bean									
Pea									
<i>Papaver</i> L. sp.							1		
<i>Fumaria</i> L. sp.									
<i>Ranunculus</i> L. pitted surface									
<i>Ranunculus parviflorus</i> L.	1								
<i>Ranunculus</i> L.sp.	3								
Large legume indet.	2			1					
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	1		1	1				2	
<i>Trifolium</i> L. sp.						2			
Small Legume indet.	2	2	2		1	2		3	1
<i>Potentilla</i> L. type	2								
<i>Malva</i> sp.	1	1							
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.	78				1			1	1
<i>Raphanus raphanistrum</i> L. pod									
Brassicaceae indet.	2								
<i>Persicaria maculosa</i> Gray	2	1							
<i>Persicaria lapathifolia</i> (L.)									
<i>Persicaria</i> L. spp.	1							1	
<i>Polygonum aviculare</i> L. agg.	30						1		
<i>Fallopia convolvulus</i> (L.) Á.	9					3	1	2	1
Polygonaceae Large indet.	49					2	5	3	1
Polygonaceae Small indet	7								1
<i>Rumex</i> L. sp. (typeA)+	14	6	2		3	9	3	3	5
<i>Rumex</i> L. sp.+	1			1					2
<i>Stellaria</i> cf. <i>media</i> L. Vill.							1		
Caryophyllaceae indet.	2								
Caryophyllaceae Small indet.									
<i>Chenopodium album</i> L. group		2					1		
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.								1	
<i>Chenopodium</i> L. indet.+		1						3	3
<i>Atriplex</i> L. spp.	5	3		1			3		2
<i>Montia fontana</i> L.			1					1	
<i>Sherardia arvensis</i> L.	8				1				
<i>Galium aparine</i> L.	4	2	1	2		4			5
<i>Galium</i> L. indet.			1						
<i>Hyoscyamus niger</i> L.			1						
<i>Solanum nigrum</i> L.									
<i>Veronica</i> cf. <i>arvensis</i> L.									
<i>Veronica hederifolia</i> L.									
<i>Plantago lanceolata</i> L.	3					1			
Lamiaceae indet.	2								
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.	16			2					

Table A.9 Sigwells West (Tr12,13,14), Sigwells (Locality 3) cont.

Sample no. (shaded samples ≥50 cereal items)	SG14 /032	SG14 /042	SG14 /044	SG14 /048	SG14 /050	SG14 /058	SG14 /060	SG14 /038	SG14 /056
Chronological period	LIA	MIA	MIA	LIA	LIA	MIA	MIA	LIA	LIA
Soil volume (litres)	23	/	/	11	8.5	10	10	10	9.5
Taxa	Pit fill (middle)	Pit silt (upper)	Pit silt (upper)	Pit fill (mid/upper)	Gully/timbers	Pit silt (lower/mid)	Pit fill (lower/mid)	Pit fill (basal)	Pit fill
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	13					1	2		
Asteraceae Large intdet.	4					1	1		
Asteraceae Small intdet.	86		1	1			2	2	
<i>Valerianella dentata</i> (L.) Pollich				1	1	1			2
<i>Eleocharis palustris</i> (L.) Roem. Schult./ <i>uniglumis</i> (Link) Schult.									
Bicovex <i>Carex</i> L. spp.									
<i>Carex</i> L. spp.						1	1		
Small <i>Carex</i> L.spp.	2								
<i>Bromus hordeaceus</i> L. ssp.	3	3	3	3		1	4	2	5
<i>Bromus</i> L. spp.		4			3	3	2	2	11
<i>Anisantha sterilis</i> (L.) Nevski	1	1						2	
<i>Lolium</i> L. sp.	128								
<i>Poa annua</i> L.									1
<i>Phleum pratense</i> L.	2						1	2	
<i>Danthonia decumbens</i> (L.) DC.		1						1	
Large Grass								5	
Medium Grass	9	2	4		1	1	2	1	
Small Grass	10	3		1		1	4	2	2
Type D			1	1		2			
Potentially identifiable weed/wild seed	10							4	2
little twist' type	44								
<i>Euphorbia exigua</i> L.									
Cyperaceae indet.									
<i>Lithospermum arvense</i> L. (mineral.)									
<i>Aphanes</i> cf. <i>australis</i> Rydb.		1							
cf. Fruit									
cf. Nutlet									
Unassigned glume w heat glume									
Detached cereal embryo							1		
Basal culm node	2	2		1			1		
Large culm node				1		1			2
Small culm node								1	
Culm frag. (wide)									
Culm frag. (thin)							2		
Nutshell frags (<i>Corylus</i>)		2		3	1		1		
Tuber frags.	3	2	11	4		1	1	13	1
Tuber									

Table A.10 Sigwells South/Roman (Tr20,21,22,23,7), Sigwells (Locality 3)

Sample no. (shaded samples ≥ 50 cereal items)	SG20 /011	SG21 /005	SG21 /017	SG22 /024	SG23 /034	SG23 /037	SG7 /043	SG7 /046	
Chronological period	RB	RB	LIA	LIA	LIA	LIA	RB	RB	
Soil volume (litres)	9	10	11	10	10	4	9.5	5	
Taxa	Scoop	Scoop fill (upper)	Deposit under track	Ditch fill (upper/mid)	Pit fill (middle)	Pit fill (middle)	Hearth	Pit fill	
Gume w heats grain+	8	5	10	39	21	16	16	51	24
Free threshing w heat grain+	1					31			
Barley grain+	7	57	66	79	78	51	69	26	
Oat grain	4		6			1	4	2	
Rye grain	1			1					
Spelt glume bases+	6	151	94	84	12		142	283	
Emmer glume bases+	2		8				10		
Barley rachis internodes+	5	2	9	5		1		1	
Rye rachis internodes	1						2		
Flax	1						4		
Celtic Bean	1			1					
Pea	3			1		1	1		
<i>Papaver</i> L. sp.	2				1		1		
<i>Ranunculus</i> L. pitted surface	1						1		
<i>Ranunculus parviflorus</i> L.	2			1		1			
<i>Ranunculus</i> L.sp.	3		2	1			1		
Large legume indet.	5	1	2	2	1		2		
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1	1		1						
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	5	10	7	17			19	2	
<i>Trifolium</i> L. sp.	4	1			2		1	1	
Small Legume indet.	7	3	42	16	3	2	8	1	
<i>Potentilla</i> L. type	1		1						
<i>Raphanus raphanistrum</i> L. pod	3			1	1		2		
Brassicaceae indet.	1				1				
<i>Persicaria maculosa</i> Gray	1		1						
<i>Persicaria</i> L. spp.	2		1	2					
<i>Polygonum aviculare</i> L. agg.	2		3	4					
<i>Fallopia convolvulus</i> (L.) Á. Löve	3		5	5			2		
Polygonaceae Large indet.	3		1	2			2		
Polygonaceae Small indet	4	2	8	5			2		
<i>Rumex</i> L, sp. (typeA)+	5	2	40	48	1		13		
<i>Rumex</i> L. sp.+	1			1					
<i>Stellaria</i> cf. <i>media</i> L. Vill.	4	1	3	2	1				
Caryophyllaceae indet.	3		3	1			1		
Caryophyllaceae Small indet.	3			2	1		3		
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.	1	2							
<i>Chenopodium</i> L. indet.+	1		2						
<i>Atriplex</i> L. spp.	2		21	13					
<i>Montia fontana</i> L.	1			1					
<i>Sherardia arvensis</i> L.	5	2	1	1	1	2			
<i>Galium aparine</i> L.	5	4	12	18	1		2		
<i>Galium</i> L. indet.	1					1			
<i>Veronica</i> cf. <i>arvensis</i> L.	3	1		2		1			
<i>Veronica hederifolia</i> L.	3	1	3	5					
<i>Plantago lanceolata</i> L.	2						10	1	
Lamiaceae indet.	1		1						
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.	6	2	4	1	3		8	1	
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	7	1	6	7	1	1	10	1	
Asteraceae Large intdet.	2			1			6		
Asteraceae Small intdet.	3		3	8	4				

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4) cont.

Sample no. (shaded samples ≥50 cereal items)	DC /005	SS /003	SS /011	SS /024	SS /042	SS /059	SS /072	SS /125	SS /127
Chronological period	EBA	LBA-EIA	M-LIA	LBA-EIA	MIA	MIA	M-LIA	LBA-EIA	MIA
Soil volume (litres)	11	7	10	12	54	11	11	13	27
Taxa	Ditch silt (upper)	Palisade trench	Posthole	Posthole	Hearth	Pit fill (upper)	Pit fill	Posthole	Pit fill
<i>Valerianella dentata</i>			1			1			
<i>Eleocharis palustris</i> (L.) Roem. <i>Schult./uniglumis</i> (Link) Schult.									
Bicovex <i>Carex</i> L.spp.			1						4
<i>Carex</i> L. spp.									
<i>Bromus hordeaceus</i> L. ssp.	2					5	2		43
<i>Bromus</i> L. spp.		1			2	3		1	17
<i>Anisantha sterilis</i> (L.) Nevski									
<i>Lolium</i> L. sp.									
<i>Poa annua</i> L.									
<i>Phleum pratense</i> L.									4
<i>Danthonia decumbens</i> (L.) DC.						1			
Large Grass									
Medium Grass			1				10		17
Small Grass			3		2	4	4		124
Type D						3	4		
<i>Sambucus nigra</i> L.									
Potentially identifiable weed/wild seed				4		2	16		4
<i>Aphanes</i> cf. <i>australis</i> L.						1			
cf. Rosaceae sp. >2mm									2
<i>Prunus spinosa</i> L. stone									
cf. Fruit									
Unassigned cereal grain	7								
Unassigned glume w heat glume									
Oat floet									1
Lema indet.									1
Ditached cereal embryo		1				2			7
Basal culm node			1	1			2		2
Large culm node						1	29		7
Small culm node							2		
Culm frag. (thin)					1				1
Nutshell frags (<i>Corylus</i>)	5	1				4	3		
Tuber frags.				5		6	4	>100	>25
Tuber			3	1					

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4)

Sample no. (shaded samples ≥50 cereal items)	DC /005	SS /003	SS /011	SS /024	SS /042	SS /059	SS /072	SS /125	SS /127
Chronological period	EBA	LBA-EIA	M-LIA	LBA-EIA	MIA	MIA	M-LIA	LBA-EIA	MIA
Soil volume (litres)	11	7	10	12	54	11	11	13	27
Taxa	Ditch silt (upper)	Palisade trench	Posthole	Posthole	Hearth	Pit fill (upper)	Pit fill	Posthole	Pit fill
Gume w heats grain+		9	7		2		33	11	97
Free threshing w heat grain+						19			
Barley grain+		18	14	18	13	65	57	17	179
Oat grain						3			19
Spelt glume bases+		46	11	42	19	50	29	33	378
Emmer glume bases+				19		68	9		224
Barley rachis internodes+					1	1			11
Pea							6		
<i>Papaver</i> L. sp.									
<i>Fumaria</i> L. sp.									1
<i>Ranunculus</i> L. pitted surface									3
<i>Ranunculus</i> L.sp.									
Large legume indet.				3			1	1	4
<i>Vicia</i> cf. <i>hirsuta</i> L.							6		2
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.			4	6	1	6	56	3	18
<i>Trifolium</i> L. sp.									12
Small Legume indet.				6	8	2		2	55
<i>Potentilla</i> L. type							2		4
<i>Malva</i> L. sp.				3				3	2
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.									
Brassicaceae indet.									
<i>Persicaria maculosa</i> Gray								2	2
<i>Persicaria lapathifolia</i> (L.)				1		1			
<i>Persicaria</i> L. spp.									6
<i>Polygonum aviculare</i> L. agg.						2	22		3
<i>Fallopia convolvulus</i> (L.) Á.			2	7		3	30	3	17
Polygonaceae Large indet.	1		6	14	7	6	38		17
Polygonaceae Small indet.					4				4
<i>Rumex</i> L. sp. (typeA)+			2	5	4	10	44		125
<i>Stellaria</i> cf. <i>media</i> L. Vill.									
Caryophyllaceae indet.				4	4	2		8	29
Caryophyllaceae Small indet.	1			1					
<i>Chenopodium album</i> L. group			5	26	2	4	4	5	13
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.				2	2			2	
<i>Chenopodium</i> L. indet.+				15		1			
<i>Atriplex</i> L. spp.			1	3		2	8	8	9
<i>Montia fontana</i> L.									
<i>Sherardia arvensis</i> L.					2	1			1
<i>Galium aparine</i> L.			3	7		1	2	4	8
<i>Galium</i> L. indet.				1			2	3	
<i>Hyoscyamus niger</i> L.							2		
<i>Solanum nigrum</i> L.			1	2					
<i>Veronica hederifolia</i> L.									2
<i>Plantago lanceolata</i> L.						1			
Lamiaceae indet.			2						
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.		1					8		
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.						1			12
Asteraceae Large indet.									8
Asteraceae Small indet.									

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4) cont.

Sample no. (shaded samples ≥50 cereal items)	DC /005	SS /003	SS /011	SS /024	SS /042	SS /059	SS /072	SS /125	SS /127
Chronological period	EBA	LBA-EIA	M-LIA	LBA-EIA	MIA	MIA	M-LIA	LBA-EIA	MIA
Soil volume (litres)	11	7	10	12	54	11	11	13	27
Taxa	Ditch silt (upper)	Palisade trench	Posthole	Posthole	Hearth	Pit fill (upper)	Pit fill	Posthole	Pit fill
<i>Valerianella dentata</i>			1			1			
<i>Eleocharis palustris</i> (L.) Roem. <i>Schult./uniglumis</i> (Link) Schult.									
<i>Bicovex Carex</i> L.spp.			1						4
<i>Carex</i> L. spp.									
<i>Bromus hordeaceus</i> L. ssp.	2					5	2		43
<i>Bromus</i> L. spp.		1			2	3		1	17
<i>Anisantha sterilis</i> (L.) Nevski									
<i>Lolium</i> L. sp.									
<i>Poa annua</i> L.									
<i>Phleum pratense</i> L.									4
<i>Danthonia decumbens</i> (L.) DC.						1			
Large Grass									
Medium Grass			1				10		17
Small Grass			3		2	4	4		124
Type D						3	4		
<i>Sambucus nigra</i> L.									
Potentially identifiable weed/wild seed				4		2	16		4
<i>Aphanes</i> cf. <i>australis</i> L.						1			
cf. Rosaceae sp. >2mm									2
<i>Prunus spinosa</i> L. stone									
cf. Fruit									
Unassigned cereal grain	7								
Unassigned glume w heat glume									
Oat floet									1
Lema indet.									1
Ditached cereal embryo		1				2			7
Basal culm node			1	1			2		2
Large culm node						1	29		7
Small culm node							2		
Culm frag. (thin)					1				1
Nutshell frags (<i>Corylus</i>)	5	1				4	3		
Tuber frags.				5		6	4	>100	>25
Tuber			3	1					

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4) cont.

Sample no. (shaded samples ≥50 cereal items)	SS /128	SS /138	SS /141	SS /166	SS /175	SS /180	SS /182	SS /188	SS /192
Chronological period	MIA	LBA-EIA	EIA	LIA	LBA-EIA	LBA-EIA?	MIA	MIA	MIA
Soil volume (litres)	9	10	11	9	12.5	14	3	10	12.5
Taxa	Pit fill (lower/mid)	Gully	Ditch fill	Pit fill (lower/mid)	Posthole	Ditch fill	Hearth /Floor	Pit fill (middle)	Pit fill (upper)
Gume w heats grain+	28	22	2	35	11	11	12	11	40
Free threshing w heat grain+									
Barley grain+	45	28	18	27	25	10		9	40
Oat grain									
Spelt glume bases+	54	114		47	87	68	28	44	41
Emmer glume bases+	55	3	8	9		37	24	31	14
Barley rachis internodes+	1	4	1					2	
Pea									
<i>Papaver</i> L. sp.						1			
<i>Fumaria</i> L. sp.								1	
<i>Ranunculus</i> L. pitted surface						1		1	1
<i>Ranunculus</i> L.sp.									1
Large legume indet.			1		1	1			
<i>Vicia</i> cf. <i>hirsuta</i> L.									
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.				1	6		4	3	7
<i>Trifolium</i> L. sp.								1	
Small Legume indet.	6				10	6		12	
<i>Potentilla</i> L. type					2				
<i>Malva</i> L. sp.								1	1
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.	1								20
Brassicaceae indet.					1				
<i>Persicaria maculosa</i> Gray						1			
<i>Persicaria lapathifolia</i> (L.)									
<i>Persicaria</i> L. spp.	1	1				1		1	
<i>Polygonum aviculare</i> L. agg.	3					4		4	
<i>Fallopia convolvulus</i> (L.) A.	1	1			7	8		5	24
Polygonaceae Large indet.	4				2		2	25	24
Polygonaceae Small indet.				1		4		3	
<i>Rumex</i> L. sp. (typeA)+	13			1		5	6	30	12
<i>Stellaria</i> cf. <i>media</i> L. Vill.	1					1	2		
Caryophyllaceae indet.	1				2	2	4		4
Caryophyllaceae Small indet.						1			
<i>Chenopodium album</i> L. group	8		1			10	4	3	1
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.	2				2	2		1	
<i>Chenopodium</i> L. indet.+						12	1	18	
<i>Atriplex</i> L. spp.	2					5		3	4
<i>Montia fontana</i> L.						1			
<i>Sherardia arvensis</i> L.	1					3			
<i>Galium aparine</i> L.	1				3	5	2		5
<i>Galium</i> L. indet.		3	1		1		1	1	
<i>Hyoscyamus niger</i> L.									
<i>Solanum nigrum</i> L.									
<i>Veronica hederifolia</i> L.									
<i>Plantago lanceolata</i> L.					1	3			7
Lamiaceae indet.						1			
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.	1	1				3	1		16
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	1	1	1						
Asteraceae Large indet.									
Asteraceae Small indet.		1				2	5	1	4

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4) cont.

Sample no. (shaded samples ≥50 cereal items)	SS /128	SS /138	SS /141	SS /166	SS /175	SS /180	SS /182	SS /188	SS /192
Chronological period	MIA	LBA-EIA	EIA	LIA	LBA-EIA	LBA-EIA?	MIA	MIA	MIA
Soil volume (litres)	9	10	11	9	12.5	14	3	10	12.5
Taxa	Pit fill (lower/mid)	Gully	Ditch fill	Pit fill (lower/mid)	Posthole	Ditch fill	Hearth/Floor	Pit fill (middle)	Pit fill (upper)
<i>Valerianella dentata</i>						9		2	
<i>Eleocharis palustris</i> (L.) Roem. <i>Schult./uniglumis</i> (Link) Schult.									4
<i>Bicovex Carex</i> L.spp.									4
<i>Carex</i> L. spp.									4
<i>Bromus hordeaceus</i> L. ssp.	15			1	1		3		8
<i>Bromus</i> L. spp.	10								
<i>Anisantha sterilis</i> (L.) Nevski							1		
<i>Lolium</i> L. sp.									3
<i>Poa annua</i> L.	1					1			
<i>Phleum pratense</i> L.									4
<i>Danthonia decumbens</i> (L.) DC.									4
Large Grass		2	1						
Medium Grass	2	1			2	4	2	1	2
Small Grass	4		1		4		2	10	44
Type D	3					2			
<i>Sambucus nigra</i> L.									1
Potentially identifiable weed/wild seed	1	3		1		1	4	8	4
<i>Aphanes</i> cf. <i>australis</i> L.									
cf. Rosaceae sp. >2mm									
<i>Prunus spinosa</i> L. stone									
cf. Fruit									
Unassigned cereal grain									
Unassigned glume w heat glume									
Oat floet									
Lema indet.									
Ditached cereal embryo	2		1		2				
Basal culm node		1			1			1	5
Large culm node					3	2			3
Small culm node	1	2						2	2
Culm frag. (thin)									
Nutshell frags (<i>Corylus</i>)								3	
Tuber frags.	4	4	1	11	>25	>25		2	9
Tuber			1		3	1			1

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4) cont.

Sample no. (shaded samples ≥50 cereal items)	SS /207	SS /231	SS /248	SS /276	SS /279	SS /285	SS /259	SSTP /007
Chronological period	M-LIA	LBA	MIA	LIA	M-LIA	MIA	MIA	LBA-EIA
Soil volume (litres)	12.5	10	24	1.2	2.2	1.7	6	12
Taxa	Pit fill (basal)	Ditch fill	Pit fill (Middle)	Floor (leveling)	Pit fill (upper)	Pit fill	Posthole	Ditch fill
Gume w heats grain+	7	58	24	6	4	21	4	3
Free threshing w heat grain+		3						
Barley grain+	41	172	44	52	2	17	6	16
Oat grain								
Spelt glume bases+	99	296	406	26	14	270	6	
Emmer glume bases+	8	53	23	7	4	8		
Barley rachis internodes+		8						
Pea								
<i>Papaver</i> L. sp.	2							
<i>Fumaria</i> L. sp.	1			1				
<i>Ranunculus</i> L. pitted surface			1			1		
<i>Ranunculus</i> L.sp.								
Large legume indet.			1			3		
<i>Vicia</i> cf. <i>hirsuta</i> L.					1			
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	1		12	4	1	2		
<i>Trifolium</i> L. sp.								
Small Legume indet.			20			2		
<i>Potentilla</i> L. type								
<i>Malva</i> L. sp.						1		
<i>Brassica</i> L./ <i>Sinapis</i> L. sp.								
Brassicaceae indet.			1					
<i>Persicaria maculosa</i> Gray								
<i>Persicaria lapathifolia</i> (L.)	1							1
<i>Persicaria</i> L. spp.						2		
<i>Polygonum aviculare</i> L. agg.	1					1		
<i>Fallopia convolvulus</i> (L.) Á.	2	4	12		1	1	2	
Polygonaceae Large indet.	4					3		
Polygonaceae Small indet.								
<i>Rumex</i> L. sp. (typeA)+	1		6			1		
<i>Stellaria</i> cf. <i>media</i> L. Vill.								
Caryophyllaceae indet.								
Caryophyllaceae Small indet.								
<i>Chenopodium album</i> L. group	12		52	3		2	4	1
<i>Chenopodium rubrum</i> L./ <i>glaucum</i> L.								
<i>Chenopodium</i> L. indet.+	14		12					
<i>Atriplex</i> L. spp.	19	4	12			2	1	
<i>Montia fontana</i> L.								
<i>Sherardia arvensis</i> L.								
<i>Galium aparine</i> L.	7	6	7		2	6		
<i>Galium</i> L. indet.	1	4	2					
<i>Hyoscyamus niger</i> L.								
<i>Solanum nigrum</i> L.			1					
<i>Veronica hederifolia</i> L.								
<i>Plantago lanceolata</i> L.			1					
Lamiaceae indet.			4				1	
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.	2							
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	10		4					
Asteraceae Large indet.								
Asteraceae Small indet.	4							

Table A.11 Sheepslait & Down Close, Sheepslait (Locality 4) cont.

Sample no. (shaded samples ≥50 cereal items)	SS /207	SS /231	SS /248	SS /276	SS /279	SS /285	SS /259	SSTP /007
Chronological period	M-LIA	LBA	MIA	LIA	M-LIA	MIA	MIA	LBA-EIA
Soil volume (litres)	12.5	10	24	1.2	2.2	1.7	6	12
Taxa	Pit fill (basal)	Ditch fill	Pit fill (Middle)	Floor (leveling)	Pit fill (upper)	Pit fill	Posthole	Ditch fill
<i>Valerianella dentata</i>								
<i>Eleocharis palustris</i> (L.) Roem. <i>Schult./uniglumis</i> (Link) Schult.								
<i>Bicovex Carex</i> L.spp.								
<i>Carex</i> L. spp.								
<i>Bromus hordeaceus</i> L. ssp.			4			1		
<i>Bromus</i> L. spp.			3		1	3		
<i>Anisantha sterilis</i> (L.) Nevski								
<i>Lolium</i> L. sp.								
<i>Poa annua</i> L.								
<i>Phleum pratense</i> L.								
<i>Danthonia decumbens</i> (L.) DC.								
Large Grass		4			2			
Medium Grass					1			
Small Grass	4		4	1		1		
Type D				1			1	
<i>Sambucus nigra</i> L.	1							
Potentially identifiable weed/wild seed			23			5	2	
<i>Aphanes</i> cf. <i>australis</i> L.								
cf. Rosaceae sp. >2mm	1							
<i>Prunus spinosa</i> L. stone			1					
cf. Fruit						2		
Unassigned cereal grain								
Unassigned glume w heat glume								1
Oat floet								
Lema indet.								
Detached cereal embryo						1		
Basal culm node								
Large culm node	4		3			5		
Small culm node			8					
Culm frag. (thin)								
Nutshell frags (<i>Corylus</i>)			8					
Tuber frags.	>25		8			3	4	5
Tuber	>25					1		

Table A.12 Ladyfield 1, 3 & Rye Close, Woolston (Locality 5)

Sample no. (shaded samples ≥ 50 cereal items)	LF1 /004	LF3 /14	LF3 /16	RC /039	RC /049
Chronological period	MBA	RB	RB	RB	RB
Soil volume (litres)	11	0.9	6	4	5
Taxa	Floor/aban. level	Posthole	General layer	Ditch fill (middle)	Ditch fill (lower)
Gume w heats grain+				11	9
Free threshing w heat grain+		226	86		
Barley grain+	46	17	1		11
Oat grain		18	5		
Rye grain		3			
Spelt glume bases+				9	9
Free threshing w heat rachis internodes+		85	1		
Barley rachis internodes+					1
Rye rachis internodes		7			
Pea		3	2		
<i>Ranunculus</i> L. pitted surface					1
Large legume indet.		19	1	2	
<i>Vicia</i> cf. <i>hirsuta</i> (L.) Gray		3			
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp. type1					1
<i>Vicia</i> L./ <i>Lathyrus</i> L. sp.	2	6	4	3	10
<i>Trifolium</i> L. sp.				2	
Small Legume indet.		2		1	1
<i>Raphanus raphanistrum</i> L. pod		1	1	1	
<i>Persicaria lapathifolia</i> (L.) Delarbre	1				
<i>Polygonum aviculare</i> L. agg.		3			
Polygonaceae Large indet.		4			
Polygonaceae Small indet	8	3			
<i>Rumex</i> L. sp. (typeA)+	3	3	1		3
<i>Chenopodium album</i> L. group	1				
<i>Montia fontana</i> L.	1				
<i>Sherardia arvensis</i> L.					1
<i>Galium</i> L. indet.				1	1
<i>Euphrasia</i> L. sp./ <i>Odontites vernus</i> (Bellardi) Dumort.				3	
Asteraceae Large intdet.		1			
Asteraceae Small intdet.		3			1
<i>Bromus hordeaceus</i> L. ssp.				3	
<i>Bromus</i> L. spp.		3		5	
<i>Lolium</i> L. sp.				2	1
<i>Phleum pratense</i> L.			1	3	
Large Grass		5			
Medium Grass				6	4
Small Grass				1	
Type D				2	
Potentially identifiable w eed/w ild seed		2			2
Unassigned glume w heat glume bases	2		3		
Ditached cereal embryo		3	2		
Basal culm node	1			2	
Large culm node		4			1
Small culm node	1	1	1		
Culm frag. (w ide)		5			
Culm frag. (thin)		1			
Nutshell frags (<i>Corylus</i>)		4	4		
Thorn		3			

Bibliography

- Akeret, Ö., Haas, J. N., Leuzinger, U., Jacomet, S., (1999). Plant macrofossils and pollen in goat/sheep faeces from the Neolithic lake-shore settlement Arbon Bleiche 3, Switzerland. *Holocene*, 9, 175-82.
- Albarella, U., (2007). The end of the Sheep Age: people and animals in the Later Iron Age, in *The Later Iron Age in Britain and Beyond*, eds. Haselgrove, C., Moore, T. Oxford: Oxbow, 389-402.
- Alcock, L., (1972). 'By South Cadbury, is that Camelot...' *Excavations at Cadbury Castle 1966-70*, London: Thames and Hudson Ltd.
- Alcock, L., Stevenson, S. J., Munsson, C. R., (1995). *Cadbury Castle, Somerset: the Early Medieval archaeology* Cardiff: University of Wales Press.
- Anderberg, A. L., (1994). *Atlas of seeds and small fruits of Northwest-European plant species, with morphological Descriptions, Part 4 Resedaceae-Umbelliferae*, Stockholm: Swedish Natural Science Research Council.
- Asouti, E., (2001). Charcoal Analysis from Çatalhöyük and Pınarbaşı, Two Neolithic sites in the Konya Plain, South-Central Anatolia, Turkey, unpublished PhD, London: Institute of Archaeology, University College.
- Asouti, E., (2003). Woodland vegetation and fuel exploitation at the prehistoric campsite of Pınarbaşı, south-central Anatolia, Turkey: the evidence from the wood charcoal macro-remains. *Journal of Archaeological Science*, 30, 1185-201.
- Asouti, E., (2003a). Wood charcoal from Santorini (Thera): new evidence for climate, vegetation and timber imports in the Aegean Bronze Age *Antiquity*, 77, 471-84.
- Asouti, E., Austin, P., (2005). Reconstructing woodland vegetation and its exploitation by past societies, based on the analysis and interpretation of archaeological wood charcoal macro-remains. *Environmental Archaeology*, 10, 1-18.
- Austin, P., (2000). The Emperor's new garden: woodland, trees, and people in the Neolithic of southern Britain in *Plants in Neolithic Britain and beyond*, ed. Fairbairn, A. S. Oxford: Oxbow Books, 63-78.

- Austin, P., Barnett, C., Hather, J. G., (2009). Charcoal and charred plant remains, in *Hambledon Hill, Dorset, England. Excavation and survey of a Neolithic monument complex and its surrounding landscape vol.2*, eds. Mercer, R., Healy, F. London: English Heritage, 454-69.
- Avery, B. W., (1955). *The soils of the Glastonbury District of Somerset [Sheet 296] Ministry of Agriculture and Fisheries, memoirs of the soil survey of Great Britain, England and Wales*, London Her Majesty's Stationary Office.
- Badal, E., Bernabeu, J., Vernet, J.-L., (1994). Vegetation changes and human action from Neolithic to the Bronze Age (7000-4000 B.P.) in Alicante, Spain, based on charcoal analysis. *Vegetation History and Archaeobotany*, 3, 155-66.
- Bakels, C. C., (1978). *Four Linearbandkeramik settlements and their environment: a palaeoecological study of Sittard, Stein, Elsloo and Hienheim*: *Analacta Praehistorica Leidensia* 11.
- Barrett, J. C., (2000). Writing the Iron Age, in *Cadbury Castle Somerset: the Later Prehistory and Early Historic archaeology*, eds. Barrett, J. C., Freeman, P. W. M., Woodward, A. London: English Heritage, 317-24.
- Barrett, J. C., Freeman, P. W. M., Woodward, A. (eds.), (2000). *Cadbury Castle Somerset: the later prehistoric and early historic archaeology* London: English Heritage.
- Behre, K.-E., (2008). Collected seeds and fruits from herbs as prehistoric food. *Vegetation History and Archaeobotany*, 17, 65-73.
- Behrendt, S., Hanf, M., (1979). *Grass weeds in world agriculture*, Ludwigshafen am Rhein: BASF.
- Bell, M., (1983). Valley sediments as evidence of prehistoric land-use on the South Downs. *Proceedings of the Prehistoric Society*, 49, 119-50.
- Bell, M., (1992). The prehistory of soil erosion, in *Past and present soil erosion*, eds. Bell, M., Boardman, J. Oxford: Oxbow Monograph 22, 21-36.
- Bennett, J. A., (1890). Camelot. *Somerset Archaeology and Natural History*, 36, 1-19.
- Bennett, K. D., (1989). A provisional map of forest types for the British Isles 5000 years ago. *Journal of Quaternary Science*, 4, 141-4.

- Berggren, G., (1969). *Atlas of seeds and small fruits of Northwest-European plant species, with morphological descriptions: Part 2 Cyperaceae*, Stockholm: Natural Science Research Council.
- Berggren, G., (1981). *Atlas of Seeds and small fruits of Northwest-European plant species, with morphological descriptions, Part 3: Salicaceae-Cruciferae*, Stockholm: Swedish Natural Science Research Council.
- Bevan-Jones, R., (2002). *The ancient yew: a history of Taxus baccata*, Macclesfield: Windgather Press.
- Boardman, S., Jones, G., (1990). Experiments on the effects of charring on cereal plant components. *Journal of Archaeological Science*, 17, 1-11.
- Boch, M., (1998). Why trees, are good to think with: towards an anthropology of the meaning of life in *The social life of trees: anthropological perspectives on tree symbolism*, ed. Rival, L. Oxford: Berg, 39-56.
- Bogaard, A., (2004). *Neolithic farming in Central Europe: an archaeobotanical study of crop husbandry practices*, Oxford: Routledge.
- Bogaard, A., (2011). *Plant use and crop husbandry in an early Neolithic village: Vaihingen an der Enz, Baden-Württemberg*, Bonn: Verlag Dr. Rudolf Habelt GmbH.
- Bogaard, A., Jones, G., (2007). Neolithic farming in Britain and central Europe: contrast or continuity? *Proceedings of the British Academy*, 144, 357-75.
- Bogaard, A., Jones, G., Charles, M., (2005). The impact of crop processing on the reconstruction of crop sowing time and cultivation intensity from archaeobotanical weed evidence. *Vegetation History and Archaeobotany*, 14, 505-9.
- Bogaard, A., Jones, G., Charles, M., Hodgson, J. G., (2001). On the archaeobotanical inference of crop sowing time using the FIBS method. *Journal of Archaeological Science*, 28, 1171-83.
- Boulton, E. H. B., Jay, B. A., (1947). *British Timbers: their properties, uses and identification 3rd Edition*, London: Adam and Charles Black.
- Braadbaart, F., Poole, I., (2008). Morphological, chemical and physical changes during charcoalification of wood and its relevance to archaeological contexts. *Journal of Archaeological Science*, 35, 2434-45.
- Bradley, R., (2007). *The Prehistory of Britain and Ireland*, Cambridge: Cambridge University Press.

- Broderick, L. G., Wallace, M., (forthcoming). Manure: valued by farmers, undervalued by zooarchaeologists, in *People with animals: perspectives and studies in Ethnozooarchaeology*, ed. Broderick, L. G. Oxford: Oxbow Books.
- Bronk Ramsey, C., (2009). Bayesian analysis of Radiocarbon dates. *Radiocarbon*, 51, 337-60.
- Bronk Ramsey, C., (2013). OxCal 4.2, Oxford: Oxford Radiocarbon Accelerator Unit.
- Butler, E. A., (1990). Legumes in antiquity: a micromorphological investigation of seeds of the Viciaeae, unpublished PhD, London: University College.
- Buurman, J., (1993). Carbonized plant remains from a pre-Roman Iron Age house site at Opperdoes, West Friesland, The Netherlands. *Vegetation History and Archaeobotany*, 2, 69-78.
- Campbell, G., (2000a). Plant utilization: the evidence from charred plant remains, in *The Danebury Environs Programme the prehistory of a Wessex Landscape, Volume 1 Introduction*, ed. Cunliffe, B. Oxford: English Heritage and Oxford University Committee for Archaeology, 45-59.
- Campbell, G., (2000b). Charred plant remains, in *The Danebury Environs Programme the prehistory of a Wessex Landscape, Volume 2 part 5 Nettlebank Copse, Wherwell, Hants 1993*, eds. Cunliffe, B., Poole, C. Oxford: English Heritage and University of Oxford Committee for Archaeology, 116-27.
- Campbell, G., (2008). Plant utilization in the Countryside around Danebury: a Roman perspective, in *The Danebury Environs Roman Programme: a Wessex landscape during the Roman era vol. 1 overview*, ed. Cunliffe, B. Oxford: English Heritage and Oxford University School of archaeology, 53-74.
- Campbell, G., Straker, V., (2003). Prehistoric crop husbandry and plant use in southern England: development and regionality in *Archaeological Sciences 1999: proceedings of the archaeological sciences conference, University of Bristol, 1999*, ed. Robson Brown, K. A. Oxford: BAR International Series 1111, Archaeopress, 14-30.

- Canti, M., (2005). Wondering about worms, in *Fertile ground: papers in honour of Susan Limbrey*, eds. Smith, D. N., Brickley, M., Smith, W. Oxford: Oxbow Books, 30-42.
- Capper, R. T. J., Bekker, R. M., Jans, J. E. A., (2006). *Digitalezandenatlas van Nederland: Digital seed atlas of the Netherlands*: Barkhuis Publishing and Groningen University Library
- Chabal, L., (1992). La représentativité paléo-écologique des charbons de bois archéologiques issus du bois de feu. *Bulletin de la Société Botanique de France*, 139, 213-36.
- Chambers, B., Nicholson, N., Smith, K., Pain, B., Cumby, T., Scotford, I., (2001). Managing livestock manures: making better use of livestock manures on grassland, 2nd Edition, Ministry of Agriculture, Fisheries and Food: ADAS Gleadthorpe Research Centre, <http://www.rothamsted.ac.uk/northwyke/PDFs/Booklet2ManuresGrassland.pdf> accessed 07/05/2013.
- Charles, M., (1989). Agriculture in Lowland Mesopotamia in the Late Uruk/Early Dynastic period, unpublished PhD, London: University College.
- Charles, M., (1998). Fodder from dung: the recognition and interpretation of dung-derived plant material from archaeological sites. *Environmental Archaeology*, 1, 111-22.
- Charles, M., Bogaard, A., (2001). Third millennium B.C. charred plant remains from Tell Brak, in *Excavations at Tell Brak, Vol 2.*, eds. Oates, D., Oates, J., McDonald, H. Cambridge McDonald Institute Monographs, 301-26.
- Charles, M., Jones, G., Hodgson, J. G., (1999). FIBS in archaeobotany: functional interpretation of weed floras in relation to husbandry practices. *Journal of Archaeological Science*, 24, 1151-61.
- Clapham, A. J., (1999). Charred Plant Remains in *Prehistoric & Roman sites in East Devon: the A30 Honiton to Exeter improvement DBFO scheme, 1996-9, volume 1 & 2*, eds. Fitzpatrick, A., Butterworth, C. A., Grove, J. Sailsbury: Wessex Archaeology Report 16, 51-9, 85-6, 112-9, 34-35, 52-55, 84-88, 332-7, 91-92.

- Clapham, A. J., Stevens, C. J., (1999). The charred plant remains : environmental and economic evidence, in *Prehistoric & Roman sites in East Devon: the A30 Honiton to Exeter improvement DBFO scheme, 1996-9, volume 1 & 2*, eds. Fitzpatrick, A., Butterworth, C. A., Grove, J. Salsbury: Wessex Archaeology Report 16, 197-207.
- Clapham, A. R., Tutin, T. G., Moore, D. M., (1989). *Flora of the British Isles, 3rd Edition*, Cambridge: Cambridge University Press.
- Coles, J., Leach, P. S., Minnitt, S., Tabor, R., Wilson, A., (1999). A Later Bronze Age shield from South Cadbury, Somerset, England. *Antiquity*, 73, 33-48.
- Cooper, G., (2002). Fieldname survey, in *The South Cadbury Environs Project: interim fieldwork report 1998-2001*, ed. Tabor, R. Bristol University of Bristol, 15-25.
- Cope, J. C. W., (2006). Jurassic: the returning seas, in *The geology of England and Wales 2nd Edition*, eds. Brenchley, P. J., Rawson, P. F. Bath The Geological Society, 325-64.
- Cope, T., Gray, A., (2009). *Grasses of the British Isles*, London: Botanical Society of the British Isles.
- CQC, (2010). Change in Countryside Counts JCA 140- Yeovil Scarplands, <<http://countryside-quality-counts.org.uk/jca/Consultation/Evidence.aspx?CqJcaID=136>> accessed 27/09/2010.
- Cranfield, DEFRA, (2010). <https://www.landis.org.uk/soilscapes/> accessed 08/04/2013.
- Cunliffe, B., (1984). *Danebury: an Iron Age Hillfort in Hampshire vol 1: the excavations, 1969-1978 the site*, London: CBA Research Report 52.
- Cunliffe, B., (2005). *Iron Age Communities in Britain: an account of England, Scotland and Wales from the seventh century BC until the Roman Conquest, 4th Edition*, London: Routledge.
- Darvill, T., (2010). *Prehistoric Britain, 2nd edition*, London: Routledge.
- Davey, J. E., (2002). Hicknoll Slait 2001, in *The South Cadbury Environs Project: interim fieldwork report 1998-2001*, ed. Tabor, R. Bristol: University of Bristol, 80-99.

- Davey, J. E., (2005). *The Roman to Medieval transition in the region of South Cadbury Castle, Somerset*, Oxford: BAR British Series 399, Archaeopress.
- de Carle, D. E., (2006). An environmental study of carbonised plant macrofossils from an Iron Age house Homeground, South Cadbury Environs Project, unpublished undergraduate dissertation, Bristol Archaeology and Anthropology, University of Bristol.
- de Hingh, A. E., (2000). Food production and food procurement in the Bronze Age and Early Iron Age (2000-500BC) the organisation of a diversified and intensified agrarian system in the Meuse-Demer-Scheldt region (the Netherlands and Belgium) and the region of the river Moselle (Luxemburg and France) PhD
<https://openaccess.leidenuniv.nl/handle/1887/13513> Leiden: Archaeological Studies Leiden University.
- Delhon, C., Martin, L., Argant, J., Thiébault, S., (2008). Shepherds and plants in the alps: multi-proxy archaeobotanical analysis of Neolithic dung from "la Grande Rivoire" (Isere, France). *Journal of Archaeological Science*, 35, 2937-52.
- Delhon, C., Thiébault, S., Berger, J.-F., (2009). Environmental and landscape management during the Middle Neolithic in southern France: evidence for agro-sylvo-pastoral systems in the middle Rhone valley. *Quaternary International*, 200, 50-65.
- Dennell, R., (1976a). Prehistoric crop cultivation in southern England: a reconsideration. *Antiquaries Journal*, 56, 11-23.
- Dennell, R., (1976b). The economic importance of plant resources represented on archaeological sites. *Journal of Archaeological Science*, 3, 229-47.
- Dufraisse, A., (2006). Charcoal anatomy potential, wood diameter and radial growth, in *Charcoal analysis: new analytical tools and methods for archaeology: papers from the Table-Ronde held in Basel 2004*, ed. Dufraisse, A. Oxford: Archaeopress, BAR International Series 1483, 47-60.
- Dufraisse, A., (2008). Firewood management and woodland exploitation during the late Neolithic at Lac de Chalain (Jura, France). *Vegetation History and Archaeobotany*, 17, 199-210.

- Ede, J., (1999). Charred seeds, in *Excavations at Ham Hill, Montacute, Somerset 1994 and 1998*, ed. McKinley, J. I. Somerset Archaeology and Natural History 142, 77-37.
- Eichhorn, M. P., Paris, P., Herzog, F., Incoll, I. d., Liagre, F., Mantzannzs, K., Mayus, M., Moreno, G., Papanastasis, V. P., Pilbeam, D. J., Pisanelli, A., Dupraz, C., (2006). Silvoarable systems in Europe - past, present and future prospects. *Agroforestry Systems*, 67, 29-50.
- Ellis, R. P., Russell, G., (1984). Plant development and grain yield in spring and winter barley. *Journal of Agricultural Science*, 102, 85-95.
- Epplin, F. M., Hossain, I., Krenzer Jr, E. G., (2000). Winter wheat fall-winter forage yield and grain yield response to planting date in a dual-purpose system. *Agricultural Systems*, 63, 161-73.
- Fairbairn, A. S., (2000). On the spread of crops across Neolithic Britain, with special reference to southern England, in *Plants in Neolithic Britain and beyond: Neolithic Studies Group Seminar Papers 5*, ed. Fairbairn, A. S. Oxford: Oxbow, 106-21.
- Findlay, D. C., Colborne, G. J. N., D.W., C., Harrod, T. R., Hogan, D. V., Staines, S. J., (1984). *Soils and their use in South West England*, Harpenden Soil Survey of England and Wales Bulletin No.14.
- Fitter, A. H., Peat , H. J., (1994). The Ecological Flora Database <http://www.ecoflora.co.uk> *Journal of Ecology*, 82, 415-25.
- Fitzpatrick, A., Brunning, R., Johns, C., Minnitt, S., Moore, T., Mullin, D., (2007). Later Bronze Age and Iron Age, in *The archaeology of the South West: South West Archaeological Research Framework*, ed. Webster, C. J. Taunton: Somerset Heritage Service, 117-44.
- Francis, S. A., (2009). *British field crops: a pocket guide to the identification, history and uses of arable crops in great Britain, 2nd edition*, Bury St Edmunds: Sally Francis.
- Freeman, P. W. M., (2000). Antiquarian and archaeological research 1542-1965, in *Cadbury Castle Somerset: the later prehistoric and early historic archaeology*, eds. Barrett, J. C., Freeman, P. W. M., A., W. London English Heritage, 6-8.

- Fuller, D. Q., Stevens, C. J., McClatchie, M., (In Press). Routine activities, tertiary refuse and labour organization: social inference from everyday archaeobotany, in *Ancient plants and people contemporary trends in archaeobotany*, eds. Madella, M., Savard, M. Tuscon: University of Arizona Press.
- Gale, R., (1988). Gravelly Guy, Oxford 1984-6: the identification of charcoal from Beaker, Iron Age and Roman sites, Ancient Monuments Laboratory Report 196/88.
- Gale, R., (1991). Charred wood, in *Maiden Castle: excavations and field survey 1985-6*, ed. Sharples, N. M. London: English Heritage 125-9.
- Gale, R., (1999). The charcoal: environmental and artefactual evidence, in *Prehistoric & roman sites in East Devon: the A30 Honiton to Exeter improvement* eds. Fitzpatrick, A., Butterworth, C. A., Grove, J. Sailsbury: Wessex Archaeology, 194-6.
- Gale, R., (2003). Wood-based industrial fuels and their environmental impact in lowland Britain, in *The environmental archaeology of industry*, eds. Murphey, P., Wiltshire, P. E. J. Oxford: Oxbow books, 30-47.
- Gale, R., Cutler, D., (2000). *Plants in archaeology: identification manual of artefacts of plant origin from Europe and the Mediterranean*, Otley: Royal Botanic Gardens, Kew and Westbury Publishing.
- Gauch, H. G., (1982). Noise reduction by eigenvector ordinations. *Ecology*, 63, 1643-9.
- Gill, G. T., Vear, K. C., Bardnard, D. J., (1980). *Agricultural Botany, 3rd edition, Vol 2. monocotyledonous crops*, London: Duckworth.
- Girling, M. A., (1979). Fossil insects from the Sweet Track. *Somerset Levels Papers*, 5, 84-93.
- Godwin, H., (1956). Studies of the Post-glacial history of British vegetation XIII the Meare Pool region of the Somerset Levels. *Philosophical transactions of the Royal Society London B*, 239, 161-90.
- Godwin, H., Tansley, A. G., (1941). Prehistoric charcoals as evidence of former vegetation, soil and climate. *Journal of Ecology*, 19, 117-26.
- Gray, H. s. G., (1913). Trial excavations at Cadbury Castle, South Cadbury 1913. *Somerset Archaeology and Natural History*, 59, 1-24.

- Green, F. J., (1981). Iron Age, Roman and Saxon crops: the archaeological evidence from Wessex, in *The environment of man: the Iron Age to the Anglo-Saxon period*, eds. Jones, M., Dimbleby, G. Oxford: British Archaeological Reports: British Series 87.
- Green, P. R., Green, I. P., Crouch, G. A., (1997). *The atlas flora of Somerset*, Wayford/Yeovil: Green, Green and Crouch.
- Greig, J., (1991). The British Isles, in *Progress in Old World Palaeobotany*, eds. Van Zeist, W., Wasylikowa, K., Behre, K.-E. Rotterdam: A.A. Balkema, 299-334.
- Grime, J. P., Hodgson, J. G., Hunt, R., (2007). *Comparative plant ecology: a functional approach to common British species, 2nd Edition*, Kirkcudbrightshire: Castlepoint Press.
- Haas, J. N., Karg, S., Rasmussen, P., (1998). Beech leaves and twigs used as winter fodder: examples from historic and prehistoric times. *Environmental Archaeology*, 1, 81-6.
- Hald, M. M., (2008). *A thousand years of farming: Late Chalcolithic agricultural practices at Tell Brak in Northern Mesopotamia*, Oxford: BAR International Series 1880, Archaeopress.
- Hall, A. R., Huntley, J. P., (2007). *A review of the evidence for macrofossil plant remains from archaeological deposits in northern England: Environmental Studies Report*: English Heritage.
- Hall, J. E., Kirby, K. J., Whitbread, A. M., (2004). *National vegetation classification: field guide to woodland, revised reprint*, Peterborough: Joint Nature Conservation Committee.
- Halstead, P., (1989). The economy has a normal surplus: economic stability and social change among early farming communities of Thessaly, Greece, in *Bad year economics: cultural responses to risk and uncertainty*, eds. Halstead, P., O'Shea, J. Cambridge: Cambridge University Press, 68-80.
- Halstead, P., (1993). Banking on livestock: indirect storage in Greek agriculture. *Bulletin on Sumerian Agriculture*, 7, 63-75.
- Halstead, P., (1998). Ask the fellows who lop the hay: leaf-fodder in the mountains of Northwest Greece. *Rural History*, 9, 211-34.
- Halstead, P., Jones, G., (1989). Agrarian ecology in the Greek Islands: time stress and risk. *The Journal of Hellenic Studies*, 109, 41-55.

- Hambleton, E., (1999). *Animal husbandry regimes in Iron Age Britain: a comparative study of faunal assemblages from British Iron Age sites*, Oxford: Archaeopress BAR British Series 282.
- Hamilton, J., (2000). Animal Husbandry: the evidence from the animal bones, in *The Danebury Environs Programme the prehistory of a Wessex Landscape, Volume 1 Introduction*, ed. Cunliffe, B. Oxford: English Heritage and Oxford University Committee for Archaeology, 59-76.
- Hanf, M., (1983). *The arable weeds of Europe with their seedlings and seeds*: BASF.
- Hastie, M., (2011). Charred plant remains, in *Lockerbie Academy: Neolithic and Early Historic timber halls, a Bronze Age Cemetery, an undated enclosure and a post-medieval corn-drying kiln in south-west Scotland*, ed. Kirby, M. The Society of Antiquaries of Scotland, Scottish Archaeological Internet Report 46 www.sair.org.uk/sair46/sair46.pdf accessed 27/02/2013.
- Hather, J. G., (2000). *The identification of the northern European woods: a guide for archaeologist and conservators*, London: Archetype Publications.
- Havinden, M., (1981). *The Somerset landscape*, London: Hodder and Stoughton.
- Heizer, R. F., (1963). Domestic fuel in primitive society. *Journal of the Royal Anthropological Institute of Great Britain and Ireland*, 93, 186-94.
- Hejmanivá, P., Stejskalová, M., Hejman, M., (2013). Forage quality of leaf-fodder from the main broad-leaved woody species and its possible consequences for Holocene development of forest vegetation in Central Europe, published online 05/09/2013. *Vegetation History and Archaeobotany*, DOI 10.1007/s00334-013-0414-2.
- Helbaek, H., (1952). Early crops in Southern England. *Proceedings of the Prehistoric Society*, 18, 194-233.
- Herbig, C., Maier, U., (2011). Flax for oil or fibre? morphometric analysis of flax seeds and new aspects of flax cultivation in late Neolithic wetland settlements in southwest Germany. *Vegetation History and Archaeobotany*, 20, 527-33.

- Hey, G., Robinson, M., (2011a). Neolithic communities in the Thames Valley: the creation of new worlds, in *Thames through time, the archaeology of the gravel terraces of the Upper and Middle Thames: Early Prehistory* eds. Morigi, A., Schreve, D., White, M., Hey, G., Garwood, P., Robinson, M., Barclay, A., Bradley, P. Oxford: Oxford Archaeology Thames Valley Landscapes Monograph No. 32, 221-60.
- Hey, G., Robinson, M., (2011b). Domesticating the landscape: settlement and agriculture in the Early Bronze Age, in *Thames through time, the archaeology of the gravel terraces of the Upper and Middle Thames: Early Prehistory*, eds. Morigi, A., Schreve, D., White, M., Hey, G., Garwood, P., Robinson, M., Barclay, A., Bradley, P. Oxford: Oxford Archaeology Thames Valley Landscapes Monograph No. 32, 311-30.
- Hill, J. D., (1995). *Ritual and rubbish in the Iron Age of Wessex: a study on the formation of a specific archaeological record*, Oxford: Tempvs Reparatum: BAR British Series 242.
- Hill, M. O., Mountford, J. O., Roy, D. B., Bunce, R. G. H., (1999). *ECOFAC 2a Technical Annex - Ellenberg's indicator values for British plants*, Rotherham: DETR Publications.
- Hillman, G. C., (1981). Reconstructing crop husbandry practices from charred remains of crops, in *Farming practice in British prehistory*, ed. Mercer, R. Edinburgh: Edinburgh University Press, 123-62.
- Hillman, G. C., (1982). Evidence for Spelt Malt, in *Excavations at Catsgore 1970-1973: a Romano-British Village*, ed. Leech, R. Bristol: Western Archaeological Trust Excavation Monograph No. 2, 137-41.
- Hillman, G. C., (1984). Interpretation of archaeological plant remains: the application of ethnographic models from Turkey, in *Plants and Ancient Man*, eds. van Zeist, W., Casparie, W. A. Rotterdam: A.A. Balkema, 1-42.
- Hillman, G. C., Mason, S., de Moulins, D., Nesbitt, M., (1996 for 1994). Identification of the archaeological remains of wheat: the 1992 London workshop. *Circaea*, 12.2, 195-210.

- Hosfield, R., Straker, V., Gardiner, P., Brown, A., Davies, P., Fyfe, R., Jones, J., Tinsley, H., (2007). Palaeolithic and Mesolithic, in *The Archaeology of South West England South West Archaeological Research Framework, Resource Assessment and Research Agenda*, ed. Webster, C. J. Taunton: Somerset County Council, 23-62.
- IBM, (2010). IBM SPSS Statistics for windows, version 19, Armonk NY: IBM corp.
- Jacomet, S., (2006). *Identification of cereal remains from archaeological sites, 2nd Edition*, Basel: Botanisches Institut de Universität Abteilung Pflanzensystematik und Geobotanik
- Jacomet, S., Brombacher, C., Dick, M., (1989). *Archäobotanik am Zürichsee: Ackerbau, Sammelwirtschaft und Umwelt von neolithischen und bronzezeitlichen Seeufersiedlungen im Raum Zürich: Ergebnisse von Untersuchungen pflanzlicher Makroreste der Jahre 1979-1988*, Zürich: Berichte der Zürcher Denkmalpflege, 7, Komm. Orell Füssli.
- Jones, G., (1983). The use of ethnographic and ecological models in the interpretation of archaeological plant remains: case studies from Greece, unpublished PhD, Cambridge: University of Cambridge.
- Jones, G., (1984). Interpretation of archaeological plant remains: ethnographic models from Greece, in *Plants and Ancient Man*, eds. van Zeist, W., Casparie, W. A. Rotterdam: A.A. Balkema, 43-61.
- Jones, G., (1987). A statistical approach to the identification of crop processing. *Journal of Archaeological Science*, 14, 311-23.
- Jones, G., (1990). The application of present-day cereal processing studies to charred archaeobotanical remains. *Circaea*, 6, 91-6.
- Jones, G., (1991). Numerical analysis in archaeobotany, in *Progress in Old World Palaeoethnobotany*, eds. Van Zeist, W., Wasylikowa, K., Behre, K.-E. Rotterdam: A.A Balkema, 63-80.
- Jones, G., (1992). Weed phytosociology and crop husbandry: identifying a contrast between ancient and modern practice. *Review of Palaeobotany and Palynology*, 73, 133-43.
- Jones, G., (1998). Wheat grain identification - why bother? *Environmental Archaeology*, 2, 29-34.

- Jones, G., (2000). Evaluating the importance of cultivation and collecting in Neolithic Britain in *Plants in Neolithic Britain and beyond: Neolithic Studies Group Seminar Papers 5*, ed. Fairbairn, A. S. Oxford: Oxbow, 79-84.
- Jones, G., (in press). Crop processing evidence for the role of cereals in the neolithic: the charred plant remains, in *The excavation of a Mesolithic and Neolithic settlement area at Lismore Fields, Buxton, Derbyshire*, ed. Garton, D.
- Jones, G., Halstead, P., (1995). Maslins, mixtures and monocrops: on the interpretation of archaeobotanical crop samples of heterogeneous composition. *Journal of Archaeological Science*, 22, 103-14.
- Jones, G., Legge, A. J., (2008). Evaluating the role of cereal cultivation in the Neolithic: charred plant remains from Hambledon Hill, in *Hambledon Hill, Dorset, England. Excavation and survey off a Neolithic monument complex and its surrounding landscape*, eds. Mercer, R., Healy, F. Swindon: English Heritage, 469-77.
- Jones, G., Rowley-Conwy, P., (2007). On the importance of cereal cultivation in the British Neolithic, in *Origins and Spread of Domestic Plants in Southwest Asia and Europe*, eds. Colledge, S., Conolly, J. Walnut Creek California: Left Coast Press, 391-419.
- Jones, M., (1981). The development of crop husbandry, in *The environment of man: the Iron Age to the Anglo-Saxon period*, eds. Jones, M., Dimbleby, G. Oxford: British Archaeological Reports: British Series 87, 95-128.
- Jones, M., (1984). The plant remains, in *Danebury an Iron Age Hillfort in Hampshire: Vol 2 the excavations 1969-1978: the finds*, ed. Cunliffe, B. London: CBA, 483-95.
- Jones, M., (1985). Archaeobotany beyond subsistence reconstruction in *Beyond Domestication in Prehistoric Europe*, eds. Barker, G., Gamble, C. London: Academic Press Inc, 107-28.
- Jones, M., (1991). Food production and consumption - plants, in *Britain in the Roman Period: recent trends*, ed. Jones, R. F. J. Sheffield: J.R. Collis Publications Department of Archaeology and Prehistory Sheffield, 21-7.

- Jones, M., (1995). Patterns in agricultural practice: the archaeobotany of Danebury in its wider context, in *Danebury an Iron Age Hillfort in Hampshire, Vol. 6 a hillfort community in perspective*, ed. Cunliffe, B. York: Council for British Archaeology
- Jones, M., (1996). Plant exploitation, in *The Iron Age in Britain and Ireland recent trends*, eds. Champion, T. C., Collis, J. R. Sheffield: J.R. Collis Publications, 29-41.
- Jones, M., Nye, S., (1991). The plant remains, in *Danebury an Iron Age hillfort in Hampshire: Vol 5 the excavations 1979-1988: the finds*, eds. Cunliffe, B., Poole, C. London: CBA, 439-46.
- Karg, S., (2011). New research on the cultural history of the useful plant *Linum usitatissimum* L. (flax), a resource for food and textiles for 8,000 years. *Vegetation History and Archaeobotany*, 20, 507-8.
- Keeley, H. C. M., (1984). *Environmental archaeology: a regional review*: Directorate of Ancient Monuments and Historic Buildings, Department of the Environment.
- Keepax, C. A., (1977). Contamination of archaeological deposits by seeds of modern origin with particular reference to the use of flotation machines. *Journal of Archaeological Science*, 4, 221-9.
- Keepax, C. A., (1988). Charcoal analysis, with particular reference to archaeological sites in Britain, unpublished PhD, London: University of London.
- Kenward, H., Hall, A. R., (1997). Enhancing bioarchaeological interpretation using indicator groups: stable manure as a paradigm. *Journal of Archaeological Science*, 24, 663-73.
- Kislev, M. E., Rosenzeig, S., (1991). Influence of experimental charring on seed dimensions of pulses, in *Paleoethnobotany and Archaeology: International Work-Group for palaeoethnobotany 8th symposium Nitra-Nové Vozokany 1989*, ed. Výtlačok, S. Nitra: Acta Interdiscip Archaeol 7, 143-77.
- Knörzer, K.-H., (1970). *Novaesium 4. Römerzeitliche Pflanzenfunde aus Neuss*, Berlin: Mann.

- Köber-Grohne, U., (1991). Bestimmungsschlüssel für subfossile Gramineen-Früchte *Probleme der Küstenforschung im südlichen Nordseegebiet*, 18, 169-231.
- Kwon, S. M., Kim, N.-H., Cha, D. S., (2009). An investigation on the transition characteristics of the wood cell walls during carbonization. *Wood Science and Technology*, 43, 487-98.
- Lambrick, G., Robinson, M., (2009). *The Thames through time: the archaeology of the gravel terraces of the Upper and Middle Thames: the Thames Valley in Late Prehistory: 1500BC-AD 50*, Oxford: Oxford Archaeology, Thames Valley Landscapes Monograph No. 29.
- Lange, A. G., (1990). *Plant remains from a native settlement at the Roman frontier a numerical approach*, Amersfoort: ROB.
- Lange, E., (1979). Verkohlte Pflanzenreste aus de slawischen Siedlungsplätzen Brandenburg und Zirzow (Kr. Neubrandenburg). *Archäo-Physika*, 8, 191-207.
- Law, M., (2009). Darwin's greatest worms *British Archaeology*, 108, 36-9.
- Leech, R., (1982). *Excavations at Catsgore 1970-73: A Romano- British Village*, Bristol: Western Archaeological Trust.
- Légère, A., Samson, N., (2004). Tillage and weed management effects on weeds in barley-red clover cropping systems. *Weed Science Society of America*, 52, 881-5.
- Leney, L., Casteel, R. W., (1975). Simplified procedure for examining charcoal specimens for identification. *Journal of Archaeological Science*, 2, 153-9.
- Lillie, M. C., Zhilin, M., Shavchenko, S., Taylor, M., (2005). Carpentry dates back to Mesolithic. *Antiquity*, 79, <http://www.antiquity.ac.uk.eresources.shef.ac.uk/ProjGall/lillie/> accessed October 2013.
- Livarda, A., (2011). Spicing up life in Northwestern Europe: exotic food plant imports in the Roman and Medieval world. *Vegetation History and Archaeobotany*, 20, 143-64.
- Lock, G., Pouncett, J., (2008). Closest facility analysis: integration of geophysical and test-pitting data from the South Cadbury Environs Project, in *Layers of perception: advanced technological means to illuminate our past*

CAA2007, eds. Herzog, I., Lambers, K., Posluschny, A. Berlin: Deutsche Archäologische Institut.

Lock, G., Pouncett, J., (2011). Modelling colluviation: land use and Landscape change in the South Cadbury Environs, in *On the road to reconstructing the past: computer applications and quantitative methods in archaeology (CAA), Proceedings of the 36th international conference Budapest, April 2-6, 2008*, eds. Jerem, E., Redő, F., Szeverényi, V. Budapest: Archaeoligua foundation, 364-72.

Mainland, I., (1998). The lamb's last supper: the role of dental microwear analysis in reconstructing livestock diet in the past. *Environmental Archaeology*, 1, 55-62.

Marguerie, D., Hunot, J.-Y., (2007). Charcoal analysis and dendrology: data from archaeological sites in north-western France. *Journal of Archaeological Science*, 34, 1417-33.

Märkle, T., Rösch, M., (2008). Experiments on the effect of carbonization on some cultivated plant seeds. *Vegetation History and Archaeobotany*, 17, S257-S263.

Marston, J. M., (2009). Modeling wood acquisition strategies from archaeological charcoal remains. *Journal of Archaeological Science*, 36, 2192-200.

McParland, L. C., Hazell, Z., Campbell, G., Collinson, M. E., Scott, A. C., (2009). How the Romans got themselves into hot water: temperatures and fuel types used in firing a hypocaust. *Environmental Archaeology*, 14, 176-83.

MetOffice, (2010).

<http://www.metoffice.gov.uk/climate/uk/averages/regmapavge.html#>, "© British Crown copyright [2010], the Met Office" accessed 28/09/2010.

Miller, N. F., (1988). Ratios in palaeoethnobotanical analysis, in *Current Palaeoethnobotany*, eds. Hastorf, C. A., Popper, V. S. Chicago: University of Chicago Press, 72-85.

Miller, N. F., Smart, T. L., (1984). Intentional burning of dung as fuel: a mechanism for the incorporation of charred seeds into the archaeological record. *Journal of Ethnobiology*, 4, 15-28.

- Mills, T., (2006). A study of European cereal frequency change during the Iron Age and Roman periods, unpublished PhD, Sheffield: University of Sheffield.
- Mithen, S., Finlay, N., Carruthers, W., Carter, S., Ashmore, P., (2001). Plant Use in the Mesolithic: Evidence from Staosnaig, Isle of Colonsay, Scotland. *Journal of Archaeological Science*, 28, 223-234.
- Moffett, L., Robinson, M., Straker, V., (1989). Cereals, fruit and nuts: charred plant remains from Neolithic sites in England and Wales and the Neolithic Economy, in *Beginnings of agriculture*, eds. Miles, A., Williams, D., Gardner, N. Oxford: British Archaeological Reports International Series 496, 243-61.
- Monk, M. A., (1985). The plant economy, in *The Prehistoric settlement at Winnall Down, Winchester: excavations of MARC3 site R17 in 1976 and 1977*, ed. Fasham, P. J. Hampshire Field Club/Trust for Wessex Archaeology.
- Murphy, P., (1983). Plant remains from Roman deposits at Ilchester, in *Ilchester vol. 1 Excavations 1974-1975*, ed. Leach, P. S. Bristol: Western Archaeological Trust Excavation Monograph No. 3, 286-90.
- Murphy, P., (2001). A review of wood and macroscopic wood charcoal from archaeological sites in the West and East Midlands Regions and the East of England English Heritage: Centre for Archaeology Report 23/2001.
- Musil, A. F., (1963). *Identification of crop and weed seeds*, Washington D.C.: U.S. Department of Agriculture.
- Nesbitt, M., (2006). *Identification guide for Near Eastern grass seeds* London: Institute of Archaeology University College.
- Newman, C., O'Connell, M., Dillon, M., Molloy, K., (2007). Interpretation of charcoal and pollen data relating to a late Iron Age ritual site in eastern Ireland: a holistic approach. *Vegetation History and Archaeobotany*, 16, 349-65.
- Palmer, C., Jones, M., (1991). Plant resources, in *Maiden Castle: Excavation and field survey 1985-6*, ed. Sharples, N. M. London: English Heritage, 129-39.

- Parks, K., (2012). Iron Age and Roman arable practice in the east of England, Unpublished PhD, in *School of Archaeology and Ancient History* Leicester: University of Leicester.
- Payne, A., (2006). Hillfort studies and the Wessex Project, in *The Wessex Hillforts Project*, eds. Payne, A., Corney, M., Cunliffe, B. London: English Heritage, 1-38.
- Pelling, R., (2006). Charred plant remains, in *Excavations of a Roman farmstead at RNAS Yeovilton*, ed. Lovell, J. Somerset Archaeology and Natural History, 49-53.
- Pielou, E. C., (1977). *Mathematical ecology*, New York: John Wiley & Sons.
- Poole, C., (1984). The woodlands and their use, in *Danebury: an Iron Age Hillfort in Hampshire. Volume 2: The excavations, 1969-1978: the finds. (Council for British Archaeology Research Report, 52)*, ed. Cunliffe, B. London: Council for British Archaeology, 481-3.
- Popper, V. S., (1988). Selecting quantitative measurements in paleoethnobotany, in *Current paleoethnobotany: analytical methods and cultural interpretations of archaeological plant remains*, eds. Hastorf, C. A., Popper, V. S. Chicago: University of Chicago Press, 53-85.
- Preston, C. D., Pearman, D. A., Hall, A. R., (2004). Archaeophytes in Britain. *Botanical Journal of the Linnean Society*, 145, 257-94.
- Rackham, O., (1977). Neolithic woodland management in the Somerset Levels: Garvin's Walton Heath and Rowlands tracks *Somerset Levels Papers*, 3, 65-71.
- Rackham, O., (1986). *The history of the countryside*, London: J.M. Dent & Sons Ltd.
- Rackham, O., (1988). Woods, hedges, and forests, in *Aspects of the Mediaeval landscape of Somerset: contributions to the landscape history of the county*, ed. Aston, M. Taunton: Somerset County Council, 13-32.
- Rackham, O., (1990). *Trees and woodland in the British landscape*, London: J.M. Dent and Sons Ltd.
- Rackham, O., (2003). *Ancient woodland: its history, vegetation and uses in England*, Colvend: Castlepoint Press.
- Radford, C. A. R., Stevens Cox, J., (1954-55). Cadbury Castle, Somerset, South Cadbury. *Somerset Archaeology and Natural History*, 99/100, 106-13.

- Randall, C. E., (2006). More ritual rubbish: a study of animal bone deposition during the Iron Age at Sigwells, Charlton Horethorne, unpublished MSc, Bournemouth: Bournemouth University.
- Randall, C. E., (2009). South Somerset archaeological Research Group: Annual Report 2009, <http://www.ssarg.org.uk/documents/SSARG%20Annual%20Report%202009.pdf> accessed 21/09/2010.
- Randall, C. E., (2010a). Livestock and landscape: exploring animal exploitation in later prehistory in South West Britain, unpublished PhD, Bournemouth: University of Bournemouth
- Randall, C. E., (2010b). More ritual rubbish? Exploring the taphonomic history, context formation processes and ‘specialness’ of deposits including human and animal bone in Iron Age pits, in *Integrating social Environmental Archaeologies: reconsidering deposition*, eds. Maltby, M., Morris, J. Oxford: Archaeopress, 83-102.
- Randall, C. E., Caldwell, L., (forthcoming). Soil sampling and wet sieving, South Cadbury Environs Project unpublished internal document.
- Rasmussen, P., (1993). Analysis of goat/sheep faeces from Egolzwil 3, Switzerland: evidence for branch and twig foddering of livestock in the Neolithic. *Journal of Archaeological Science*, 20, 479-502.
- Regnell, M., (2003). Charcoals from Uppa°kra as indicators of leaf fodder. *Centrality-Regionality*, 1, 105-15.
- Reimer, P., Bard, E., Bayliss, A., Warren Beck, P., Blackwell, P. G., Bronk Ramsey, C., Grootes, P. M., Guilderson, T. P., Hafliðason, H., Hajdas, I., Hatté, C., Timothy J Heaton, Hoffmann, D. L., Hogg, A. G., Hughen, K. A., Felix Kaiser, K., Kromer, B., Manning, S., Niu, M., Reimer, R. W., Richards, D. A., Scott, E. M., Southon, J. R., Staff, A. R., Turney, C. S. M., van der Plicht, J., (2013 [in Press]). IntCal13 and Marine13 Radiocarbon Age Calibration Curves 0–50,000 Years cal BP. *Radiocarbon*, 55(1869-1887).
- Robinson, M., (2000). Further considerations of Neolithic charred cereals, fruits and nuts, in *Plants in Neolithic Britain and beyond: Neolithic Studies Group Seminar Papers 5*, ed. Fairbairn, A. S. Oxford: Oxbow, 85-90.

- Robinson, M., (2002). *English Heritage reviews of environmental archaeology: Southern region insects*: English Heritage Centre for Archaeology Report 39/2002.
- Robinson, M., (2011). The Thames and its changing environment in our era, in *Thames through time, the archaeology of the gravel terraces of the Upper and Middle Thames: Early Prehistory*, eds. Morigi, A., Schreve, D., White, M., Hey, G., Garwood, P., Robinson, M., Barclay, A., Bradley, P. Oxford: Oxford Archaeology Thames Valley Landscapes Monograph No. 32, 173-92.
- Rodwell, J. S., (2006). *National vegetation classification: user's handbook*, Peterborough: Joint Nature Conservation Committee.
- Ross-Craig, S., (1974). *Drawings of British Plants Parts I-XXVII*, London: Bell & Hyman.
- Rotherham, I. D., (2009). *Peat and Peat Cutting*, Oxford: Shire Library No. 483.
- Rouse, A., (2000). The environment of the outer earthworks: the land mollusca from Site D, in *Cadbury Castle Somerset: the later prehistoric and early historic archaeology*, eds. Barrett, J. C., Freeman, P. W. M., A., W. London English Heritage: , 75-9.
- Sailsbury, K. J., Jane, F. W., (1940). Charcoals from Maiden Castle and their significance in relation to vegetation and climatic conditions in prehistoric times. *Journal of Ecology*, 28, 310-25.
- Scaife, R. G., (1987). A review of Later Quaternary plant microfossil and macrofossil research in Southern England; with special reference to environmental archaeology evidence, in *Environmental archaeology a regional review Vol II*, ed. Keeley, H. C. M. English Heritage, Historic Buildings & Monuments Commission for England, 125-203.
- Schibler, J., Jacomet, S., (2010). Short climatic fluctuations and their impact on Human economies and societies: the potential of Neolithic lake shore settlements in the Alpine Foreland. *Environmental Archaeology*, 15, 173-82.
- Schweingruber, F. H., (1990). *Microscopic wood anatomy: structural variability of stems and twigs in recent and subfossil woods from Central Europe, 3rd Edition*, Birmensdorf: Swiss federal Institute for Forest, Snow and Landscape Research.

- Score, D., Mithen, S., (2001) The experimental roasting of hazelnuts, in *Hunter-gatherer landscape archaeology: the Southern Hebrides Mesolithic project 1988-1998: Vol 2 Archaeological field work on Colonsay, computer modelling, experimental archaeology and final interpretations*, ed. Mithen, S., Cambridge McDonald Institute 507-512
- Shackleton, C. M., Prins, F., (1992). Charcoal analysis and the "principle of least effort" - a conceptual model. *Journal of Archaeological Science*, 19, 631-637.
- Sharples, N. M., (1991). *Maiden Castle: excavations and field survey 1985-6*, London: English Heritage.
- Shennan, S., (1997). *Quantifying archaeology, 2nd Edition*, Edinburgh: Edinburgh University Press.
- Shirlaw, D. W. G., (1966). *An agricultural geography of Great Britain* Oxford: Pergamon Press.
- Skowranek, C., (2008). Random places or organized industry? The Middle to Late Bronze Age metalworking sites in South-West England, unpublished MA, Bristol: Archaeology, University of Bristol.
- Smart, T. L., Hoffman, E. S., (1988). Environmental interpretation of archaeological charcoal, in *Current Paleoethnobotany: analytical methods and cultural interpretations of archaeological remains*, eds. Harstorf, C. A., Popper, V. S. Chicago: University of Chicago Press, 167-205.
- Smilauer, P., (2006). CanoDraw for Windows 4.14, Ithica: Microcomputer Power.
- Smith, P. H., (1993). The landscape of South Somerset: a landscape assessment of the scenery of South Somerset Planning Environment Unit.
- Smith, W., (2002). A review of archaeological wood analysis in Southern England, English Heritage: Centre for Archaeology Report 75/2002.
- Stace, C., (2012). *New flora of the British Isles, 3rd Edition*, Cambridge: Cambridge University Press.
- Stevens, C. J., (2003). An investigation of agricultural consumption and production models for Prehistoric and Roman Britain. *Environmental Archaeology*, 8, 61-76.
- Stevens, C. J., (2007). Reconsidering the evidence: towards an understanding of social contexts of subsistence production in Neolithic Britain, in *Origins*

- and Spread of Domestic Plants in Southwest Asia and Europe*, eds. Colledge, S., Conolly, J. Walnut Creek, California: Left Coast Press, 375-89.
- Stevens, C. J., Fuller, D. Q., (2012). Did Neolithic farming fail? The case for a Bronze Age agricultural revolution in the British Isles. *Antiquity*, 86, 707-22.
- Straker, V., (1990). Charred plant macrofossils, in *Brean Down excavations 1983-1987*, ed. Bell, M. London: English Heritage Archaeological Report 15, 211-9.
- Straker, V., (1991). Charred plant macrofossils, in *Trethellan Farm, Newquay: excavation of a lowland Bronze Age settlement and Iron Age cemetery* ed. Newakowski, J. Cornish Archaeology 161-80.
- Straker, V., (2000). Charred cereals and weed seeds, in *Pottern 1982-5: animal husbandry in Later Prehistoric Wiltshire*, ed. Lawson, A. J. Sailsbury: Wessex Archaeology Report No. 17, 85-91.
- Straker, V., (2007a). Early Medieval Environmental Background, in *The Archaeology of South West England South West Archaeological Research Framework, Resource Assessment and Research Agenda*, ed. Webster, C. J. Taunton: Somerset County Council, 163-8.
- Straker, V., (2007b). Post-conquest Medieval environmental background, in *The archaeology of the South West: South West Archaeological Research Framework* ed. Webster, C. J. Taunton: Somerset Heritage Service, 187-94.
- Straker, V., (2007c). Post-Medieval to Modern Environmental Background Background, in *The Archaeology of South West England South West Archaeological Research Framework, Resource Assessment and Research Agenda*, ed. Webster, C. J. Taunton: Somerset County Council, 209-12.
- Straker, V., Brown, A., Fyfe, R., Jones, J., (2007b). Romano-British Environmental Background in *The Archaeology of South West England South West Archaeological Research Framework, Resource Assessment and Research Agenda*, ed. Webster, C. J. Taunton: Somerset County Council, 145-50.
- Straker, V., Brown, A., Fyfe, R., Jones, J., Wilkinson, K., (2007a). Later Bronze and Iron Age Environmental Background, in *The archaeology of the*

- South West: South West Archaeological Research Framework*, ed. Webster, C. J. Taunton: Somerset Heritage Service, 103-16.
- Tabor, R. (ed.) (2002). *South Cadbury Environs: interim fieldwork report, 1998-2001*, Bristol: University of Bristol Centre for the historic Environment.
- Tabor, R. (ed.) (2003). *South Cadbury Environs Project: interim fieldwork report, 2002-2003*, Bristol: University of Bristol Centre for Historic Environment.
- Tabor, R., (2004). *Regional perspectives in archaeology*, Oxford: BAR International Series 1203, John and Erica Hedges Ltd.
- Tabor, R., (2008a). *Cadbury Castle: the hillfort and landscape*, Stroud: The History Press.
- Tabor, R., (2008b). Woolston Manor Farm, North Cadbury: an outline report of fieldwork in 2006-7 by the South Cadbury Environs Project. *Proceedings of the Somerset Archaeological and Natural History Society*, 151, 83-96.
- Tabor, R., Johnson, P., (2000). Sigwells, Somerset, England: regional application and interpretation of geophysical survey. *Antiquity*, (74), 319-25.
- ter Braak, C. F. J., (2006). Canoco for Windows version 4.55, Wageningen: Plant Research International
- ter Braak, C. F. J., Smilauer, P., (2002). Canoco Reference Manual and CanoDraw for Windows User's guide (Version 4.5), Ithaca: Microcomputer Power.
- Torrens, H. S., Ashmore, P. J., Prudden, H. C., (2000). The hill: geology, in *Cadbury Castle Somerset: the later prehistoric and early historic archaeology*, eds. Barrett, J. C., Freeman, P. W. M., Woodward, A. London English Heritage, 8-10.
- Trigger, B. G., (1989). *A history of archaeological thought*, Cambridge: Cambridge University Press.
- Valamoti, S. M., (2004). *Plants and people in Late Neolithic and Early Bronze Age northern Greece: an archaeobotanical investigation*, Oxford: BAR International Series 1258, Archaeopress.
- Valamoti, S. M., (2013). Towards a distinction between digested and undigested glume bases in the archaeobotanical record from Neolithic Greece: a preliminary experimental investigation. *Environmental Archaeology*, 18, 31-42.

- van der Veen, M., (1992). *Crop husbandry Regimes: an archaeobotanical study of farming in northern England 1000BC-AD500*, Sheffield: J.R. Collis Publications Department of Archaeology and Prehistory University of Sheffield.
- van der Veen, M., (2007). Formation processes of desiccated and carbonized plant remains - the identification of routine practice. *Journal of Archaeological Science*, 34, 968-90.
- van der Veen, M., Fieller, N., (1982). Sampling seeds. *Journal of Archaeological Science*, 9, 287-98.
- van der Veen, M., Jones, G., (2006). A re-analysis of agricultural production and consumption: implications for understanding the British Iron Age. *Vegetation History and Archaeobotany*, 15, 217-28.
- van der Veen, M., Jones, G., (2007). The production and consumption of cereals: a question of scale, in *The Later Iron Age of Britain and Beyond*, eds. Haselgrove, C., Moore, T. Oxford: Oxbow.
- van der Veen, M., Livarda, A., Hill, A., (2007). The archaeobotany of Roman Britain: current state and identification of research priorities. *Britannia*, 38, 181-210.
- van der Veen, M., O'Connor, T., (1998). The expansion of agricultural production in Late Iron Age and Roman Britain, in *Science in archaeology*, ed. Bayley, J. London: English Heritage, 127-43.
- van der Veen, M., Palmer, C., (1997). Environmental factors and yield potential of ancient wheat crops. *Journal of Archaeological Science*, 24, 163-82.
- van Zeist, W., Bakker-Heeres, J. A., (1982). Archaeobotanical studies in the Levant 1: Neolithic sites in the Damascus Basin, Aswad, Ghoraif, Ramad. *Palaeohistoria*, 24, 165-256.
- van Zeist, W., Bakker-Heeres, J. A., (1985). Archaeobotanical studies in the Levant 4 Bronze Age sites on the North Syrian Euphrates. *Palaeohistoria*, 27, 247-316.
- Vera, F. W. M., (2000). *Grazing ecology and forest history*, Oxford: BABI Publishing.
- Wallace, M., Charles, M., (2013). What goes in does not always come out: the impact of the ruminant digestive system of sheep on plant material, and

- it's importance for the interpretation of dung-derived archaeobotanical assemblages. *Environmental Archaeology*, 18, 18-9.
- Warren, P., (2006). *British native trees: their past and present uses*, UK: Wildeye.
- Waters, M., Kuehn, D., (1996). The geoarchaeology of place: the effect of geological processes on the preservation and interpretation of the archaeological record. *American Antiquity*, 61, 483-97.
- Whittle, A., Davies, J. J., Dennis, I., Fairbairn, A. S., Hamilton, M. A., (2000). Neolithic activity and occupation outside Windmill Hill causewayed enclosure, Wiltshire: survey and excavation 1992-93. *Wiltshire Archaeological and Natural History Magazine*, 93, 131-80.
- Wilkinson, K., Straker, V., (2007). Neolithic and Early Bronze Age environmental background, in *The archaeology of the South West: South West Archaeological Research Framework*, ed. Webster, C. J. Taunton: Somerset Heritage Service, 63-74.
- Woodward, A., (2000). The revised phasing scheme, in *Cadbury Castle Somerset: the Later Prehistoric and early historic archaeology*, eds. Barrett, J. C., Freeman, P. W. M., Woodward, A. London: English Heritage, 41-3.
- Wright, P., (2003). Preservation or destruction of plant remains by carbonization? *Journal of Archaeological Science*, 30, 577-83.
- Yates, D. T., (2007). *Land, power and prestige: Bronze Age field systems in Southern England*, Oxford: Oxbow.
- Zicherman, J. B., Williamson, R. B., (1981). Microstructure of wood char. *Wood Science and Technology*, 15, 237-49.
- Zohary, D., Hopf, M., Weiss, E., (2012). *Domestication of plants in the Old World, 4th Edition*, Oxford: Oxford University Press.