

Plant Remains from Salisbury Road, Amesbury

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Fifteen samples were taken and processed from the excavations. Examination showed most to be relatively rich in charred plant remains. The samples were mainly from the Late Saxon period, although two (pit 518, and ditch 106) date from deposits extending into the early medieval period.

Most samples produced evidence for grains of free-threshing wheat (*Triticum aestivum* s.l.), hulled barley (*Hordeum vulgare* s.l.) and rye (*Secale cereale*), wheat seemingly the dominant crop. Evidence for rachises of all these cereals was recovered, although never in the same quantities as grains. Few of the rachises fragments were identifiable beyond genus, although single examples indicated the presence of 6-row barley and hexaploid, bread or club, type wheat.

Free-threshing wheat and hulled barley often appear as the dominant crops in Wessex during this period. Rye (*Secale cereale*) has been recovered from middle and later Saxon sites (Carruthers 1991; Hunter 2005; Stevens 2006), but is often absent from earlier Saxon settlements (Wessex Archaeology 2003; 2004; 2006). Notably rye seems to have gained in importance in the region from the late Saxon period into the early medieval period (Green 1994; Stevens 2007), something that is reflected upon this site.

Remains of leguminous crops, in particular pea (*Pisum sativum*) and horsegram (*Vicia faba*) were frequent, while at least two samples contained probable seeds of lentil (*Lens culinaris*). Both pea and bean are common finds from Saxon sites in southern England (Carruthers 1991; Green 1994), while finds of lentil are rarer. However, lentil has been recovered from other middle to later Saxon sites in Wessex (Caruthers 1991; 2005; Green 1994; Hunter 2005; Clapham 2005; Stevens 2006).

Lentil favours warmer climates and is not a crop that today grows well in many parts of Britain. The appearance of this crop upon more rural settlements within the Late Saxon period, continuing into the early medieval period, suggests local cultivation (Greig 1991; Wessex Archaeology 2005; Stevens 2004), and can be seen as consistent with the proposed warming of the British climate from c. 900 AD, accumulating in the warmest phase between c. 1150 and c. 1250 (Lamb 1977, 435; Astill and Grant 1988).

As is often seen on Saxon settlements fragments of hazelnut signify the exploitation of wild resources to supplement the cereal diet. Pit 607 contained some mineralised material, that in the case of bramble (*Rubus* sp.) and elder (*Sambucus nigra*) may represent further exploited wild plants, although the presence of other wild species; hedge parsley (*Torilis* sp.) and nettle (*Urtica urens*) may indicate that all come from local scrub and hedgerows.

The dominance of grain suggests crops arrived at the settlement relatively processed, having been threshed, winnowed and sieved in the field. The weed flora was generally small, with large seeded weed seeds such as corncockle (*Agrostemma githago*), cleavers (*Galium aparine*), vetches/wild pea (*Vicia/Lathyrus* sp.), persicaria (*Persicaria maculosa/lapathifolia*), corn gromwell (*Lithospermum arvense*) and knotgrass (*Polygonum aviculare*) present, all of which are common grain contaminants removed only by hand in the final processing stages. It is probable that not all grain sized seed-heads were removed by sieving accounting for the presence of a seedhead of poppy (*Papaver* sp.) and numerous seeds of stinking mayweed (*Anthemis cotula*). This latter species is common on heavy-clay soils and appears to be a frequent weed of Saxon crops, doubtless grown on such soils.

Bibliography

- Astill, G. and Grant, A. 1988 *The medieval countryside: Efficiency, Progress and Change*, 213-234, In Astill, G. and Grant, A. (ed.) *The Countryside of Medieval England*. Oxford: Basil Blackwell.
- Carruthers W. 1991. The plant remains, 67-75, In Fasham P J and Whinney R J B. (ed.) *Archaeology and the M3. The Abbots Worthy Settlement. Trust for Wessex Archaeology and Hampshire Field Club Archaeological Society Monograph 7*.
- Carruthers, W. 2005 Mineralised plant remains, In Birbeck, V, Smith, R J C, Andrews, P & Stoodley, N. (ed.) *The Origins of Mid-Saxon Southampton: excavations at the Friends Provident St Mary's Stadium 1998–2000*, Salisbury.
- Clapham, A J 2005 Waterlogged plant remains, 173–181, In Birbeck, V, Smith, R J C, Andrews, P & Stoodley, N. (ed.) *The Origins of Mid-Saxon Southampton: excavations at the Friends Provident St Mary's Stadium 1998–2000*, Salisbury.
- Green, F.J. 1994. Cereals and plant food: a reassessment of the Saxon economic evidence from Wessex, in Rackham, J. (ed.), *Environment and Economy in Anglo-Saxon England*. CBA Research Report 89, 83-88.
- Greig, J. 1991. The British Isles, 229-334, In W van Zeist, K Wasylikowa & K-E. Behre (eds), *Progress in Old World Palaeoethnobotany*. Rotterdam: Balkema
- Hunter, K L 2005 Charred plant remains, 163–173, In Birbeck, V, Smith, R J C, Andrews, P & Stoodley, N. (ed.) *The Origins of Mid-Saxon Southampton: excavations at the Friends Provident St Mary's Stadium 1998–2000*, Salisbury.

- Lamb, H. H. 1977 *Climate, Present, Past and Future Volume 2*. London: Methuen.
- Murphy P. 1981. Carbonised cereals and cropweeds, 173-4, In: Fasham P J. (ed.) *Fieldwork and Excavations at East Stratton along the Roman road from Winchester to Silchester. Proc. Hampshire Field Club Archaeological Society* 37, 165-88.
- Stevens, C. J. (with M. Robinson) 2004 'Production and consumption: plant cultivation, 81–82. In G Hey (ed.), *Yarnton: Saxon and Medieval Settlement and Landscape. Thames Valley Landscape Monograph*. Oxford: Oxford Archaeology
- Stevens, C. J. 2006 Charred, mineralised and waterlogged plant remains, 104-14, In Ellis, C. and Andrews, P. *A Mid-Saxon site at Anderson's Road, Southampton, Proceedings of the Hampshire Field Club and Archaeological Society (Hampshire Studies)*, 61, 81-133
- Stevens, C. J. for 2007 Appendix 2: Plant Remains, 62-66, in Mepham, L. and Brown, L. *The Broughton to Timsbury Pipeline, Part 1: A Late Saxon Pottery Kiln and the production centre at Michelmersh, Hampshire, Proceedings of the Hampshire Field Club and Archaeological Society (Hampshire Studies)*, 62, 35-68
- Wessex Archaeology, 2003. *Stonehenge Visitor Centre, Countess East, Amesbury, Wiltshire – Archaeological Evaluation: Results* Salisbury, unpublished Wessex Archaeology client report 53324.01
- Wessex Archaeology, 2004. *Stonehenge Visitor Centre, Countess East, Amesbury, Wiltshire*. Unpublished Client Report: Ref 54700.01a
- Wessex Archaeology, 2005. *Land at Court Lane Farm, Court lane, Bratton, Wiltshire, Archaeological Post-Excavation Assessment Report*. Unpublished Client Report Ref: 58460.02.
- Wessex Archaeology, 2006. *Harnham Flood Defence Scheme: Middle Street Meadow and Harnham Recreation Ground, Salisbury Wiltshire. Archaeological Evaluation Report*. Unpublished Client Report Ref: 62340.02.

	PHASE	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1
60033 Charred Plant remains analysis table.		LS	SN/EM	LS	LS	LS	LS	EM	LS?	LS	LS	LS	LS	LS	LS	LS
	Feature Type	pit	pit	pit	ditch	ditch	ditch	ditch	ditch	ditch	ditch	pit	ditch	ditch	ditch	beam-slot
Key: Scale of abundance: A*** = exceptional, A** = 100+, A* = 30-99, A = >10, B = 9-5, C = <5; Bioturbation proxies: Roots (%), Uncharred seeds (scale of abundance), F = mycorrhizal	Feature No	428	518	607	110	110	110	106	503	522/407	507	523/518	523/416	519/115	519/432	428/116
	Context	429	514	608	107	108	109	105	502	409	506	515	414	114	435	117
	Sample	4	5	100	1	2	3	4	1	2	3	6	7	5	8	6
	Size (L)	20	20	20	16	10	10	10	10	20	20	8	20	10	9	10
Flot Size ml	Flot Size ml	100	175	250	125	160	60	125	60	160	150	250	100	100	175	60
Roots %	Roots %	20	15	80	10	30	20	30	2	40	20	60	10	50	30	40
Grain	Grain	A*	A*	A**	A**	A**	A	A*	A*	A*	A*	A*	A*	A*	A*	A*
Chaff	Chaff	-	-	C	C	C	-	C	C	C	-	C	B	-	-	-
Charred Other	Charred Other	B	B	B	A(h)	A	A	B(h)	B(h)	B(h)	C(h)	B	B	C	B(h)	beam-slot
Charcoal >4mm (ml)	Charcoal >4mm (ml)	1	5	10	10	5	0.5	10	1	1	2	6	2	10	0.2	0.5
Charcoal >2mm (ml)	Charcoal >2mm (ml)	1	5	10	8	10	2	10	6	1	2	4	5	10	0.2	8
Cereals																
Hordeum vulgare L. sl (grain)	barley	+	+	+	+	+	+	-	+	+	-	+	+	+	+	-
H. vulgare L. (6-row rachis fragment)	barley	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
Triticum cf. aestivum L. sl (grain)	bread wheat	+	+	+	++	+	+	+	+++	+	+	+	+	+	+	1
Triticum cf. aestivum L. sl (rachis fragment)	bread wheat	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
T. cf. turgidum L. (tetraploid rachis fragment)	tetraploid rachis fragment	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
Secale cereale L. (grains)	rye	-	-	++	10+	-	-	-	5+	+	-	+	-	-	-	-
Secale cereale L. (rachis)	rye	-	-	-	+	-	-	+	+	+	-	-	-	-	-	-
Other Crop Species																
Corylus avellana L. (fragments)	hazel	-	-	-	+	-	-	-	3	-	-	-	-	-	-	+
Vicia faba var. minor L.	broad bean	-	+	2	+	cf.+	cf.+	-	-	-	-	-	+	-	-	-
Lens culinaris Medik.	lentil	-	-	1	-	-	-	-	cf.1	-	-	-	-	-	-	-
Vicia/Pisum sativum/Lens culinaris	pea/bean/large vetch	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-
Pisum sativum L.	pea	-	+	3	-	cf.+	cf.+	-	-	-	-	-	-	-	-	-
Species																
Papaver L. sp. (seed head)	poppy	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
Urtica urens L.	small nettle	-	-	+m	-	-	-	-	-	-	-	-	-	-	-	-
Atriplex sp. L.	oraches	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
Agrostemma githago L.	corn cockle	-	-	+	1	-	-	-	-	-	-	-	-	-	-	-
Persicaria lapathifolia (L.) Gray/P. maculosa Gray	persicaria	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
Polygonum aviculare L.	knot grass	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
Rumex sp. L.	docks	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brassica sp. L.	cabbage, wild mustard	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
Rubus sp. L.	brambles	-	-	+m	-	-	-	-	-	-	-	-	-	-	-	-
Vicia L./Lathyrus sp. L.	vetch/pea	-	+	+	++	-	-	+	-	+	+	-	-	-	-	+
Torilis sp. Adans.	hedge parsley	-	-	+/+m	+	-	-	-	-	-	-	-	-	-	-	-
Lithospermum arvense L.	corn gromwell	-	-	+m	+	-	-	-	-	-	+	+	-	-	-	-
Odontites vernus (Bellardi) Dumort.	red bartsia	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
Galium aparine L.	cleavers	-	+	+	+	-	-	+	+	-	-	-	+	-	-	-
Sambucus nigra L.	elder	-	-	+m	-	-	-	-	-	-	-	-	-	-	-	-
Anthemis cotula L.	stinking chamomile	-	+	+	-	-	-	-	+	+	+	-	-	-	-	-
Anthemis cotula L. (seed head)	stinking chamomile	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Poa sp. L.	meadow grass	-	+	-	-	-	-	-	+	-	-	-	+	-	-	-
Avena sp. L. (grain)	oat grain	-	-	+	+	-	-	+	+	+	+	+	+	+	+	-
Bromus sp. L.	brome	-	-	+	-	-	-	-	-	-	+	-	-	-	-	+