The Intentional Destruction and Deposition of Bronze Age Metalwork in South West England (Volume 3 of 3)

Submitted by Matthew Giuseppe Knight to the University of Exeter as a thesis for the degree of Doctor of Philosophy in Archaeology In February 2018

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I certify that all material in this thesis which is not my own work has been identified and that no material has previously been submitted and approved for the award of a degree by this or any other University.

Signature:

<u>Volume 3</u>

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A CATALOGUE OF BRONZE AGE METALWORK FROM THE PORTABLE ANTIQUITIES SCHEME FOR SOUTH WEST ENGLAND

B.1 Introduction

This catalogue lists a sample of finds recorded on the Portable Antiquities Scheme (PAS) online database up until 28th March 2017 following the rationale presented in Section 7.2.1. Some PAS finds are not recorded here due to the poor quality or absence of a photo, or because they have been deemed unlikely to be Bronze Age in date, or because the spatial data is insufficient. Furthermore, some finds recorded through the PAS have not been documented in the online database despite having a PAS number (e.g. the Mylor hoard) and thus do not feature here. Finally, as details are largely reliant on what is recorded through the database, the information is variable. Often dimensions are recorded without a note regarding which part of the object it refers to; 'thickness' of a palstave for instance clearly refers to the flange breadth in some cases and the blade thickness in others. Consequently, these dimensions have been omitted here unless the area of the object being referred to can be clearly identified. The finds are ordered by county and four-figure grid references are provided following regulations around the PAS data. The PAS numbers can be searched and accessed via www.finds.org.uk.

<u>Key</u> * = indicates only the parish is known, not the precise findspot.

Dimension Abbreviations:

L = Length	D = Depth				
W = Width	H = Height				
Th = Thickness	Wt = Weight				
BI = Blade	Ext = External				
B = Butt	Int = Internal				
St = Stop	Diam = Diameter				
FI = Flange	n/o = Not observable				
Sh = Shoulder	n/a = Not applicable				
Br = Breadth					
Sock.Diam.Ext = External socket diameter (width x height)					
Sock.Diam.Int = Internal socket diameter (width x height)					

B.2 CORNWALL

PAS-F001 Blisland

Grid Ref.	SX 09	73	Altitude (m)		-
\checkmark		[
Dryland		Wet	land		Uncertain
Find aircumstances	An inc	omplete palstav	e was found abo	ut 10cm	n down in hard
Find circumstances	grassla	and while metal	-detecting.		
Reference(s)	Knight	et al. 2015, 29,	No.2, Pl.21; PAS	S CORN	N-CA0B11.
Object Type and	Palstav	/e – poss. Gr.III	or South-wester	n.	
Description	This ar	n incomplete pa	Istave with a broa	ad triang	gular blade and a
	slightly	curved cutting-	edge.		
Location	Finder		Period	Middle	e Bronze Age
Completeness	51-75%	0	Details	As-ca	st blade, broken
				below	the stop.
Dimensions (mm)	L.82; BI.W.59; BI.Th.19; Wt.192.38g.				
Patina/Corrosion	Mottled brown patina/corrosion.				
Manufacture/Use	As-cast. This palstave has seen very little working and the casting				
	seams survive down both sides. The break shows that this is quite a				
	poor ca	asting with lots o	of air hollows. Th	ere is re	eported hammering at
	the broken end, suggesting this might have been reused post-				
Demonstra	breakage.				
Damage	I his palstave has broken in antiquity across the thickest part of the				
	blade just below the stop ridge. There are no associated marks and				
	the breakage is almost certainly the result of poor casting, perhaps				
	occurring during working.				
	Breakage: W.22; Th.19.				

PAS-F002 Breage III

Grid Pof	SW/ 62	26	Altitudo (m)	54	
	300 02	20		54	
		L			
Dryland		Wet	land	Uncertain	
Find aircumstances	A sock	eted axe fragm	ent was found wl	hile metal-detecting in 2016,	
Find circumstances	five inc	hes down in gra	assland.		
Reference(s)	PAS C	ORN-10D5E6.			
Object Type and	Socket	ed axe – type u	ncertain.		
Description	This is	the lower blade	of a socketed a	xe, with a rectangular section	
-	and a narrow blade. The cutting-edge is rounded and blunt as a			s rounded and blunt as a	
	result c	result of post-depositional processes.			
Location	Finder		Period	Late Bronze Age	
Completeness	0-25%		Details	Lower blade.	
Dimensions (mm)	L.36; B	I.W.40; Th.14.5	; Wt.62.1g.		
Patina/Corrosion	Dark g	reen patina, mo	stly obscured by	corrosion and light green	
	bronze	disease.			
Manufacture/Use	Difficul	t to tell due to ir	completeness a	nd corrosion. It is likely this	
	axe wa	s used, but wea	ar on the axe is li	kely linked to post-	
	deposit	depositional processes.			
Damage	This is the lower blade of a socketed axe, broken below the socket				
-	aperture in antiquity. There are no associated marks or casting				
	flaws.			6	
	Breaka	ace: W.39: Th.1	4.5.		

PAS-F003 Breage IV

Grid Ref.	SW 61 27	Altitude (m)	55

\checkmark				
Dryland	Wetland		Uncertain	
Find circumstances	A cast below	sting jet was found while metal-detecting in 2016, one inch wundisturbed grassland.		
Reference(s)	PAS C	ORN-13BCC9.		

Object Type and	Casting jet.					
Description	This is an oval casting	This is an oval casting jet with two conical sprues.				
Location	Finder	Finder Period Bronze Age				
Completeness	n/a	n/a Details Casting waste.				
Dimensions (mm)	L.34.4; W.16; H.25; Wt.31.05g.					
Patina/Corrosion	Mottled green/brown corrosion.					
Manufacture/Use	Casting waste.					
Damage	Broken during the case	ting process.				

PAS-F004 Callington

Grid Ref.	SX 37	69	Altitude (m)		
\checkmark					
Dryland	Wetland Uncertair		Wetland		Uncertain
Find circumstances	A spearhead was found while metal-detecting in 2009 about ten inches below the surface in recently ploughed soil.			in 2009 about ten soil.	
Reference(s)	Davis 2 PAS C	2015, 88, No.48 ORN-740B97.	80, PI.53; Knight	et al. 20	15, 30, No.8, Pl.28;

Object Type and	Plain pegged spearhead (Type 11A)				
Description	This is flame-shaped spearhead with a circular midrib. There are no				
•	remains of peg holes i	, n the broken soc	ket.		
Location	Finder	Period	Penard-Wilburton		
Completeness	76-99%	Details	Blade edges damaged and broken across the socket.		
Dimensions (mm)	L.87; Bl.W.20; Bl.Th.1	2; Wt.34.32g.			
Patina/Corrosion	Brown corrosion.				
Manufacture/Use	Uncertain due to extensive corrosion. There is a hole in the lower				
	midrib on one face, which has been attributed to corrosion damage.				
Damage	This spearhead has suffered erosion and fragmentation of the blade				
	wings, which is likely the result of corrosion and post-depositional				
	damage. The socket has broken off above the peg holes and has				
	been partially crushed, with a shallow indentation in one face of the				
	socket. Images are not clear enough to accurately observe the state				
	of the breakage, but it appears to be consistently corroded with the				
	rest of the spearhead. This would indicate this is antiquated				
	damage, rather than th	ne result of recen	t ploughing, though this		
	cannot be discounted.				

PAS-F005 Camborne II

Grid Ref.	SW 64	- 39	Altitude (m)		109
\checkmark		[
Dryland		Wet	lland		Uncertain
	A swor	d fragment was	found while me	tal-deteo	cting in 2015 about 5-
Find circumstances	6 inche	es below the su	rface in a field re	eferred to	o as the 'round field'
	sugges	sting it might be	the site of an Iro	on Age s	settlement.
Reference(s)	PAS C	CORN-8149A2.		CORN-8149A2.	
Object Type and	Sword	– poss. Ewart F	Park.		
Description	This is	This is a mid-blade fragment of a sword, with a lozenge-section,			
	though end, sι	n no evidence of bevelled edges. It tapers slightly towards one uggesting it may have been towards the lower blade.			

Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Mid-blade fragment.		
Dimensions (mm)	L.69.6; W.35.2; Th.5.8	; Wt.62.5g.			
Patina/Corrosion	Green patina on one face and extensive corrosion on the opposite				
	face.				
Manufacture/Use	Difficult to tell due to incompleteness. The PAS report suggests that				
	the broken edges may	e broken edges may have been "trimmed in order to re-use the			
	weapon as a tool such as a razor or scraper".				
Damage	This sword has broker	sword has broken at both ends in antiquity, with consistent			
	patination, though no a	associated marks			

PAS-F006 Egloshayle

Grid Ref.	SW 98	74	Altitude (m)		14
Dryland		Wetland			Uncertain
Find circumstances	A flanged axe was found while metal-		detecting	g in 2015, about 4	
Find circumstances	inches below the surface.			-	
Reference(s)	PAS C	ORN-F6BDEC.			

Object Type and	Early short-flanged ax	е.		
Description	This is a low-flanged axehead with a slight transverse bevel and flanges that stop above the blade. It has a rounded butt and straight parallel sides that flare out to a short blade (c.35mm) with a worn, rounded cutting-edge.			
Location	Finder	Period	MA VI Arreton-Acton Park	
Completeness	76-99%	Details	Worn but complete.	
Dimensions (mm)	L.81.5; Bl.W.35; Bl.Th	.17; Wt.149.2g.		
Patina/Corrosion	Mottled brown/green c	orrosion.		
Manufacture/Use	Prepared and used. There is no evidence of casting material and the			
	overall axe is very worn. The cutting-edge is short, asymmetrical			
	and blunt, suggesting extensive use and reworking.			
Damage	None.			

PAS-F007 Gweek

Grid Ref.	SW 70	26	Altitude (m)		-
Dryland		Wetland			Uncertain
Find circumstances	An ing below	An ingot was found while metal-detection below the surface in undisturbed grass)16 about six inches
Reference(s)	PAS CORN-3B10A7.				

Object Type and Description	 Plano-convex ingot. This is a piece of a copper alloy ingot with a flat underside and sloping upper surface, indicating it originally belong to a large plano-convex ingot. Compositional analysis was conducted via XRF and demonstrated low levels of tin (1.4%). 			
Location	Finder	Period	Late Bronze Age	
Completeness	26-50%	Details	Central piece, broken on all	
			sides.	
Dimensions (mm)	L.72; W.72; Th.35; Wt.509.3g.			
Patina/Corrosion	Green corrosion.			
Manufacture/Use	Raw material – lots of large casting hollows but not uncommon for			
	ingots.			
Damage	This ingot piece has broken on all sides in antiquity, from near the centre of the original object. No associated marks are visible on the photos, but large casting hollows are visible, as is common.			

PAS-F008 Gwithian-Gwinear I

Grid Ref.	SW 60	36	Altitude (m)		-
\checkmark		[
Dryland		We	tland		Uncertain
Find circumstances	An ing below	ot was found wl the surface in p	hile metal-detect	ing in 20)12 about six inches
Reference(s)	Knight	et al. 2015, 32,	No.30; PAS CO	RN-BD	3DD5.
Object Type and	Plano-o	convex ingot.			
Description	This is	a sub-triangula	r fragment from t	he edge	e of a copper alloy
	ingot with a flat underside and curved upper surface, indicating it				Irface, indicating it
	original	ly belong to a la	arge plano-conve	ex ingot.	1
Location	Finder		Period	Late E	Bronze Age
Completeness	0-25%		Details	Edge	fragment.
Dimensions (mm)	L.63; W	L.63; W.83; Th.27; Wt.468.8g.			
Patina/Corrosion	Brown corrosion.				
Manufacture/Use	Raw material. This piece has been well-cast, with few casting hollows.				
Damage	This ingot piece has broken on two sides in antiquity No associated marks are visible on the photos, and the PAS record suggests that the ingot appears worn, indicating the breakage was not fresh upon deposition.				
	Breaka	ige : Th.27.			

PAS-F009 Gwithian-Gwinear II

Grid Ref.	SW 59	59 40 Altitude (m)			68
\square					
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe fragment was found while metal-detecting in within six inches below the surface in a ploughed field.			al-detecting in 2015 ed field.	
Reference(s)	PAS CORN-EF36FD.				

Object Type and	Socketed axe - type u	incertain.			
Description	This is the lower blade of a socketed axe, with a rectangular section				
_	and a narrow blade. T	he cutting-edge i	s rounded and blunt probably		
	as a result of post-dep	ositional process	es.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Broken at the socket		
	aperture.				
Dimensions (mm)	L.36; Bl.W.35; Wt.55.12g.				
Patina/Corrosion	Mottled green and brown corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness and corrosion. It is likely this				
	axe was used, but wear on the axe is likely linked to post-				
	depositional processes.				
Damage	This is the lower blade of a socketed axe, broken just above the				
	socket aperture in antiquity. There are no associated marks or				
	casting flaws.				
	Breakage: Th.11.7.				

PAS-F010 Illogan

Grid Ref.	SW 67	43	Altitude (m)		79
Dryland		Wetland		Uncertain	
Find circumstances	A socketed gouge was found whi			etal-dete	cting in 2014 about
Find circuitistances	six inches below the surface in ploughed soil.				
Reference(s)	PAS CORN-EE9D5D.				

Object Type and	Class I or II socketed gouge.				
Description	This is an incomplete socketed gouge with a circular socket, and				
-	narrow blade that tape	ers to a slightly cu	rved cutting-edge.		
Location	Finder	Period	Ewart Park		
Completeness	76-99%	Details	Fragment missing from the		
_		socket.			
Dimensions (mm)	L.43; W.12; Sock.Diam.Ext.10; Wt.17.35g.				
Patina/Corrosion	Pale green and brown corrosion with some pale green bronze				
	disease.				
Manufacture/Use	Prepared and possibly used. The casting seams have been worked				
	and the cutting-edge appears to be worn and nicked, indicating use.				
Damage	A fragment has broken away from the mouth of the socketed gouge,				
	extending down one side of the object. This break occurred in				
	antiquity and there are no associated marks or casting flaws visible				
	in the photo.				

PAS-F011 Landulph

Grid Ref.	SX 42	63	Altitude (m)	59
\checkmark				
Dryland		Wetland		Uncertain
Find circumstances	An incomplete flat axe was found while metal-detecting in 2014 about six inches below the surface.			e metal-detecting in 2014
Reference(s)	PAS CORN-3207B3.			

Object Type and	Flat axe – Class 3/4? This is the lower blade of a flat axe with an expanded, curved				
Description	This is the lower blade of a flat axe with an expanded, curved cutting-edge. The edges of the axe have been slightly hammered into low flanges and the cutting-edge is bevelled. It is likely the butt would have been narrow and there may have been a low transverse bevel.				
Location	Finder	Period	MA IV Aylesford		
Completeness	26-50%	Details	Lower blade and cutting-		
			edge.		
Dimensions (mm)	L.64; Bl.W.66; Th.9.5; Wt.170.57g.				
Patina/Corrosion	Pale green patina.				
Manufacture/Use	Prepared and used. This axe appears to have been prepared for				
	asymmetrical and blunt with several picks. There is a secting flow				
	asymmetrical, and blunt, with several nicks. There is a casting flaw				
	In the surface of the axe on one face and they are present in the				
Domono					
Damage	This axe has broken across the middle of the blade in antiquity. The				
	break looks slightly worn, suggesting it may have continued in use				
	after breakage. The bi	eak has no asso	ciated marks, but there are		
	several casting flaws.				

PAS-F012 Ludgvan

Grid Ref.	SW 50	33	Altitude (m)		-
Dryland		Wet	lland		Uncertain
Find circumstances	A sock about	A socketed axe fragment was found while metal-detecting in 2011 about five inches below the surface.			al-detecting in 2011
Reference(s)	Knight	Knight et al. 2015, 33, No.37; PAS CORN-F29E04.			E04.
Object Type and Description	Socketed axe – type uncertain. This is a broad, crescentic cutting-edge of a socketed axe. The cutting-edge is uneven as a result of post-depositional processes.				
Location	Finder		Period	Late B	ronze Age

Completeness	0-25%	Details	Cutting-edge fragment.	
Dimensions (mm)	L.18; BI.W.41.5; Wt.18	3.77g.		
Patina/Corrosion	Mottled green and bro	wn corrosion.		
Manufacture/Use	Difficult to tell due to incompleteness and corrosion. It is likely this axe was used, but wear on the axe is likely linked to post- depositional processes.			
Damage	This is the cutting-edge of a socketed axe broken at the socket aperture in antiquity. There are no associated marks or casting flaws. Breakage: Th.8.			

PAS-F013 Madron I

Grid Ref.	SW 47	33 A	titude (m)		121	
\square						
Dryland		Wetland Uncertain				
Find aircumstances	An axe	An axe piece was found while metal-detecting about 150mm down in				
Find circumstances	soft sil	soft silty soil in a ploughed field.				
Reference(s)	PAS CORN-183F23.					
Object Type and	Low-fla	anged axe (Class 5	?)			
Description	This is	the lower blade of	a small axe v	vith the	remains of low flanges	
	extend	ing onto the blade	and an expar	nding cr	escentic cutting-edge.	
	There	are four transverse	grooves sep	arated b	by five ridges on one	
	face, s	pread between the	flanges close	e to the	break. There are the	
	faint re	mains of the same	decoration o	n the op	posite face. These	
	range	In length from 8-32	mm and are e	each ab	out 4mm wide. It has	
	been s	been suggested these are destructive but the regular spacing and				
	Ine nature suggests they were decorative. The axe has broken					
	below any possible transverse bevel. The overall form of the axe is					
Museum Ref	Finder		class J, dati		l Arreton	
Completeness	26-50% Details Lower blade only					
Dimensions (mm)	1.58 Bl W 51 5 Th 11 Fl Br 10 5 (surv.) Fl H 1 Wt 103 $4a$					
Patina/Corrosion	Some dark brown patina, across both faces, but interrupted with					
	green corrosion pitting, causing delamination.					
Manufacture/Use	Difficu	t to tell. Due to the	corroded nat	ure, it is	difficult to identify	
	definite signs of preparation and use. It is likely that the flanges were					
	hammered up and the cutting-edge had been worked to shape. The					
	ridge and grooves are consistently patinated indicating these were					
	deliberate decoration.					
Damage	The axe has broken unevenly in antiquity across the middle of the					
	blade, through the flanges.					
	Breakage: W.24.9; Th.10.6. The break is consistently					
	patina	ed/corroded and th	ere are at lea	AST TWO I	macroscopic casting	
	Inclusi	ons present in the t	preak, which w	would n	ave influenced the	
	brook	ige. The huge and (grooves are s		very close to the	
	act wi	the the grooves repr	ny marmis W	as a ue d strike	s However it is more	
	likely that the axe may have broken while incising the decoration					

PAS-F014 Madron II

Grid Ref.	SW 47	32	Altitude (m)		100
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	Two non-joining sword fragments were found while metal-detecting in Rosemorran in 2016. The fragments were about 10cm down in pasture/grassland.				vhile metal-detecting bout 10cm down in
Reference(s)	PAS CORN-3B62D1.				

Additional Notae	The similar style and patination of the fragments might indicate they
Additional Notes	once belonged to the same object.

PAS-F014a

Object Type and	Ewart Park sword – possibly Carp's Tongue.				
Description	This is a fragment of the shoulders of a sword. The shoulders are				
•	rounded with a rivet h	ole in each one. T	The surviving hilt displays a		
	prominent rounded m	idrib that extends	down onto the upper blade		
	creating a biconvex s	action Corrosion	obscures any indicators of		
	grooves along each s	ido that would do	cormina if this sword was of		
	the Corp's Tongue tre	dition			
		Daria d	Europe Doub		
Location	Finder	Period	Ewart Park		
Completeness	0-25%	Details	Shoulder fragment, broken		
			at both ends.		
Dimensions (mm)	L.38.4; Th.9.7; Sh.W.	46.2; Wt.44g.			
Patina/Corrosion	Dull bronze patina, la	rgely obscured by	green corrosive build-up.		
Manufacture/Use	Difficult to tell. Signs of	of preparation and	use are difficult to determine		
	from this piece, but el	ements of manufa	acture can be observed. The		
	shoulders are slightly	asymmetrical, as	are the rivet holes, which		
	would have been functional. The breaks show the metal to be very				
	norque which suggests a poor casting				
Damage	This fragment has been broken at both and separating it from the				
Damage	sword blade and hilt tang. Correction across the bracks indicates this				
	sword brade and nilt tang. Corrosion across the breaks indicates this				
	was done in antiquity.				
	Filt breakage : W.27.9, In.9.1. Inis break has occurred below the				
	hilt tang at the point of widening for the shoulders. It shows signs of				
	high porosity in the metal at a macroscopic level, which would have				
	influenced the breakage. Additionally, one face has two small				
	oblique indentations below the break on the midrib, one below the				
	other; these appear to be consistent with the bronze patina and it is				
	possible these represent chisel marks.				
	Blade breakage: W.32.4; Th.9. This break has occurred below the				
	shoulders, as they cu	rve towards the u	pper blade. Porosity is also		
	visible in this break. There is a possible indentation just above this				
	break on the same fa	ce as the marks a	ssociated with the hilt		
	breakage: however th	his indentation is a	covered by corrosion and it is		
	difficult to determine i	f it might be relate	ed to corrosion damage.		

PAS-F014b

Object Type and	Ewart Park sword – po	Ewart Park sword – possibly Carp's Tongue.			
Description	This is a mid-blade fragment of a sword, with bevelled edges and a				
	prominent rounded mi	drib creating a bi	convex section. There are no		
	grooves down either s	ide of this midrib.	suggesting it is not a Carp's		
	Tongue sword, though	n the midrib is a s	uggestive feature.		
Location	Finder	Period	Ewart Park		
Completeness	0-25%	Details	Mid-blade fragment, broken		
_			at both ends.		
Dimensions (mm)	L.47.6; W.28.6; Th.7.8; Wt.42g.				
Patina/Corrosion	Dull bronze patina, largely obscured by green corrosive build-up.				
Manufacture/Use	Prepared and used. T	he edges of this b	blade have been hammered		
	and bevelled and were likely sharpened, though corrosion obscures				
	much of the detail. Much like F014a, this piece shows macroscopic				
	signs of porosity in the breaks suggesting a poor casting. The blade				
	edges are uneven and chipped, some of which appears to be				
	consistently corroded and thus might be linked to use, particularly a				
	small u-shaped notch on one edge. Abrasion of the edges does				
	mean some of this may be the result of corrosion.				
Damage	This fragment has bee	en broken at both	ends. Corrosion across the		
_	breaks indicates this v	vas done in antiqu	uity. There is some evidence		
	of hammering on the b	blade faces, whicl	h might be linked.		

 Breakage 1: W.27.2; Th.8. This break has occurred across the
blade and shows signs of high porosity in the metal at a
macroscopic level, which would have influenced the breakage.
Breakage 2: W.25.2; Th.7.3. This break has occurred across the
blade and shows signs of high porosity in the metal at a
macroscopic level, which would have influenced the breakage.

PAS-F015 Madron III

Grid Ref.	SW 44	30	Altitude (m)		74
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A sock	eted tool was fo	ound while meta	l-detecti	ng in 2016 three
Find circuitistances	inches below the surface.				
Reference(s)	PAS C	ORN-B51CDB.			

Object Type and	Socketed tool – possibly a chisel.			
Description	This is a socketed tool with straight, parallel sides, converging to a			
-	narrow, rounded cuttir	ng-edge, with a su	ub-rectangular section.	
Location	Finder	Period	Taunton-Penard?	
Completeness	51-75%	Details	Socket missing and broken	
			down one face.	
Dimensions (mm)	L.56; W.12; Wt.25.6g.			
Patina/Corrosion	Mottled green and brown corrosion.			
Manufacture/Use	Difficult to tell but probably prepared and used. The cutting-edge is			
	quite worn and abraded, but this might be the result of post-			
	depositional damage.			
Damage	The socket mouth has broken away in antiquity and this			
	fragmentation has extended down one face of the chisel. There are			
	no signs of associated marks or casting flaws. The PAS record			
	notes plough damage to the surface and thus some of the damage			
	might be related to pos	st-depositional pr	ocesses.	

PAS-F016 Madron IV

Grid Ref.	SW 47	32	Altitude (m)		95
\square		Γ			
Dryland	Wetland		Uncertain		
Find circumstances	An uncertain blade fragment was found while metal-detecting in 2016 about 10 cm below the surface.			netal-detecting in	
Reference(s)	PAS CORN-D0690C.				
Additional Notes					

Object Type and	Blade – object uncertain.			
Description	This is a roughly trapezoidal blade fragment with a sub-triangular			
	section, meaning the c	object thins towar	ds the upper edge. The PAS	
	records this as a poter	ntial sickle, but it a	appears to be too thick. It is	
	difficult to identify precisely what object this fragment belongs to.			
Location	Finder Period Bronze Age			
Completeness	0-25% Details Mid-section fragment.			
Dimensions (mm)	L.31.5; W.21.3; Th.6.3; Wt.15.3g.			
Patina/Corrosion	Pale brown patina with pale green corrosion around the edges.			
Manufacture/Use	Difficult to tell.			
Damage	This fragment has broken from a larger object in antiquity, though			
_	there are no signs of c	casting flaws or as	ssociated marks.	

PAS-F017 Madron V

Grid Ref.	SW 44 30	Altitude (m)	88
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\checkmark				
Dryland	Wetland Uncertain			
Find circumstances An ing		igot fragment was found while metal-detecting in 2015 about 2		
Find circumstances	inches below the surface in a ploughed field.			
Reference(s)	PAS C	PAS CORN-F588DE.		

Object Type and Description	Plano-convex ingot. This is a large fragment of an ingot with a flat underside and domed upper surface, indicating an originally plano-convex form.					
Location	Finder	Period	Late Bronze Age			
Completeness	0-25%	Details Central fragment broken all sides.				
Dimensions (mm)	L.42; W.36; Th.28; Wt.179.88g.					
Patina/Corrosion	Dark green and brown corrosion, with some light green patches of corrosion.					
Manufacture/Use	Raw material – the ingot appears to have been well-cast with no casting hollows visible on the surface or in the breaks.					
Damage	This ingot piece has broken on all sides in antiquity, from near the centre of the original object. There are no associated marks or casting flaws.					

PAS-F018 Marazion I

Grid Ref.	SW 52	2 31 Altitude (m)			-
☑					
Dryland		Wetland		Uncertain	
Find circumstances	A sword fragment was found while metal-detecting in 1997 about 6 inches below the surface on cultivated land.				ting in 1997 about 6
Reference(s)	Knight et al. 2015, 34, No.46, PI.26; PAS CORN-30BC82.				
Additional Notes	A possible rapier fragment was found in the same field nine years later (PAS-F019).				me field nine years

Object Type and	Sword – poss. Ewart F	Park.			
Description	This is a rounded tip fragment of a sword with a biconvex section. The section is indicative of the Ewart Park type, though the rounded				
	rature of the tip is unu rather than worn.	sual as it appear	s to be a deliberate shape,		
Location	Finder Period Ewart Park				
Completeness	0-25% Details Tip fragment.				
Dimensions (mm)	L.47; W.38; Th.7.5; W	t.52.84g.			
Patina/Corrosion	Mottled green and bro	wn patina.			
Manufacture/Use	Difficult to tell due to incompleteness. The surviving edges look				
	slightly worked and hammered.				
Damage	This tip fragment has broken straight across the lower blade in				
	antiquity. There are no associated marks and there do not appear to				
	be any casting flaws in the break.				
	Breakage: W.38; Th.7.5.				

PAS-F019 Marazion II

Grid Ref.	SW 52	2 31	Altitude (m)		-
Dryland		Wetland		Uncertain	
Find circumstances	A blade fragment was found while metal-detecting in 2006 about 6 inches below the surface on cultivated land.			ting in 2006 about 6	
Reference(s)	Knight et al. 2015, 34, No.47, Pl.26; PAS CORN-021D57.				N-021D57.
Additional Notes	A swor (PAS-I	A sword fragment was found in the same field nine years earlier (PAS-F018).			

Object Type and	Blade – poss. rapier?				
Description	This is an incomplete narrow fragment of blade, with a lozenge-				
	section and a raised m	hidrib on both fac	es, indicating it once		
	belonged to a rapier.				
Location	Finder Period Middle Bronze Age				
Completeness	0-25% Details Mid-blade fragment.				
Dimensions (mm)	L.56.6; W.19; Th.5; Wt.22.18g.				
Patina/Corrosion	Mottled green corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness and corrosion damage.				
Damage	This is a fragment of a narrow blade broken at both ends in antiquity. Corrosion makes it difficult to identify any associated marks or casting flaws				
	marks or casting flaws	5.			

PAS-F020 Mevagissey

Grid Ref.	SX 00	44	Altitude (m)		-
Dryland		Wet	land		Uncertain
Find circumstances	A pals	tave was found	while metal-dete	ecting in	2010 about 10 inches
Find circumstances	below	the surface on o	cultivated land.		
Reference(s)	Knight	et al. 2015, 35,	No.52, Pl.14; P/	AS COR	N-FD2517.
Object Type and	Palstav	/e – Gr.III or SV	۷.		
Description	This is	the triangular b	lade of a palstav	e with a	broad, largely
	straigh	t cutting-edge.	There are the rer	mains of	a midrib terminating
	just be	low the breakag	e point, and the	sides a	re slightly flanged.
Location	Finder		Period	Taunt	on-Penard
Completeness	26-50%	6	Details	Blade	, broken below the
			stop.		
Dimensions (mm)	L.60; Bl.W.51; Th.12; Wt.121.68g.				
Patina/Corrosion	Largely covered by coppery corrosion.				
Manufacture/Use	Difficult to tell due to corrosion, but seemingly prepared after				
	casting.				
Damage	This palstave has broken across the mid-blade, below the stop, in				
	antiqui	ty. Corrosion ma	akes it difficult to	o identify	any associated
	marks	or casting flaws			

PAS-F021 Padstow

Grid Ref.	SW 91	77 Altitude (m)			-
		[
Dryland		Wet	land		Uncertain
Find circumstances	Five of detecti one ha ingot fi objects conver	e objects were found within the same ploughed field while metal ecting in 2005. The objects were found at varying depths, with having been found on the surface, while the deepest was an ot fragment found about 14 inches down. It is unlikely the five ects are associated, but have been grouped here for hyenience.			hed field while metal- arying depths, with he deepest was an is unlikely the five d here for
Reference(s)	Knight T110; 28175	et al. 2015, 35, Nos.57-59, Pl.4; PAS CORN-199400 CORN-C76CD4; CORN-431AF8; CORN-27DEC1; C 7.		ORN-199400, 2005 √-27DEC1; CORN-	

PAS-F021a

Object Type and	Gold object.				
Description	This is a small fragment of gold strip with flanged sides.				
	Compositional analysis is indicative of a Bronze Age date, though				
	the form is undiagnostic.				
Location	RCM Period Bronze Age				
Completeness	0-25%	Details	Fragment.		

Dimensions (mm)	L.12.6; W.8; Th.2; Wt.1.53g.
Patina/Corrosion	Dull gold.
Manufacture/Use	Difficult to tell due to incompleteness, but it appears the sides have
	been deliberately shaped.
Damage	This fragment has been deliberately broken at both ends in antiquity. At one end the break is uneven, while at the other, the fragment has been compressed and it appears to have been deliberately broken using a chisel or blunt object. The overall piece is bowed slightly towards this later break.

PAS-F021b

Object Type and	Flat axe – type uncertain.				
Description	This is a rounded butt fragment of a flat axe, with straight diverging				
	sides, possibly Class 3	3 or 4.			
Location	Finder	Period	MA IV Aylesford?		
Completeness	0-25%	-25% Details Butt fragment.			
Dimensions (mm)	L.59.3; B.W.41; Th.11	; Wt.105.35g.			
Patina/Corrosion	Mottled green and brown corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This flat axe has broken across the hafting end in antiquity, leaving				
	only the tip of the butt. There are no associated marks visible, but				
	there is no image of the break to identify casting flaws.				
	Breakage: W.41; Th.4.				

PAS-F021c

Object Type and Description	Socketed axe – poss. south-eastern. This is a mouth fragment of a socketed axe representing about a third of the socket rim, with the remains of a rounded, single moulding collar. The surviving piece indicates a square or sub- rectangular mouth. It is possible this piece belonged to a south- eastern axe.				
Location	Finder Period Ewart Park				
Completeness	0-25%	Details	Mouth fragment.		
Dimensions (mm)	L.16.7; W.28.2; Th.5.2	; Wt.12.37g.			
Patina/Corrosion	Extensive corrosion.				
Manufacture/Use	Difficult to tell due to corrosion, but the remains of a sprue stump are still visible on the socket. The extent to which this has been worked is uncertain, but it is possible this axe saw limited preparation.				
Damage	The socket mouth of this axe has broken away in antiquity. Corrosion obscures any indicators of associated marks or casting flaws.				

PAS-F021d

Object Type and Description	Flanged axe – type uncertain. This is the corroded remains of a narrow flanged axe. It is difficult to determine any further diagnostic features, but it possibly belongs to the short-flanged class.				
Location	Finder	Period	Early-Middle Bronze Age		
Completeness	26-50%	0% Details Mid-blade section, heavily			
			corroded.		
Dimensions (mm)	L.67.4; W.26; Th.14; Wt.87.59g.				
Patina/Corrosion	Extensive green corrosion.				
Manufacture/Use	Uncertain due to corrosion.				
Damage	The blade of this axe has broken away, as well as the butt, either in				
	antiquity or post-deposition through corrosion. It is difficult to				
	determine due to the o	corrosion.			

PAS-F021e

Object Type and	Ingot.			
Description	This is a small irregularly-shaped copper alloy lump. It likely			
	represents an ingot.			
Location	Finder	Period	Bronze Age.	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.28.7; W.21; Th.17; Wt.31.05g.			
Patina/Corrosion	Green patina/corrosion.			
Manufacture/Use	Raw material.			
Damage	This fragment has broken on all sides from a large object. There are no associated marks but small casting flaws are visible in the photo. As the object has not been properly cleaned, it is difficult to			
	determine further indicators.			

PAS-F022 Paul I

Grid Ref.	SW 46	26	Altitude (m)		-
Dryland		Wetland		Uncertain	
Find circumstances	A gold rod fragment was found while metal-detecting in 2006 ab 5 inches below the surface.			tecting in 2006 about	
Reference(s)	Knight et al. 2015, 36, No.62; PAS CORN-B6B241, 2006 T550; Treasure Annual Report 2005-6, 17, No.4.			3241, 2006 T550;	

Object Type and Description	Gold ornament. This is a short, three-flanged rod of gold with a triangular section. It is loosely twisted and bent into a rough circle, with one surviving circular-section, expanded terminal.				
Location	RCM 2008.32.2 Period Middle Bronze Age				
Completeness	0-25% Details Twisted, bent fragment.				
Dimensions (mm)	L.59; Th.3.5; Wt.4.75g.				
Patina/Corrosion	Gold.				
Manufacture/Use	Difficult to tell. The PAS record suggests the terminal is unfinished.				
Damage	This fragment has been broken from a larger object in antiquity. It is possible the original object was already twisted, but the rod has been bent into a distorted shape suggesting this act was deliberate.				

PAS-F023 Paul II

Grid Ref.	SW 46	25	Altitude (m)		-
Dryland		Wetland		Uncertain	
Find circumstances	A chise cultiva	A chisel was found while metal-detectin cultivated land.		ing in 20	06 on the surface of
Reference(s)	Knight et al. 2015, 36, No.63; PAS CORN-4E8A63.			BA63.	

Object Type and Description	Socketed tool. This is an incomplete socketed tool, with a narrow straight-sided			
	rectangular in section.	It is possibly a cl	nisel.	
Location	Finder	Period	Taunton-Penard	
Completeness	26-50%	Details	Broken unevenly across the	
			object, through the socket.	
Dimensions (mm)	L.56; W.24.6; Th.13.6; Wt.35.75g.			
Patina/Corrosion	Brown corrosion across the object causing surface delamination.			
Manufacture/Use	Difficult to tell due to corrosion, but the casting seams of the object			
	appear to have been prepared. The cutting-edge is slightly bevelled, and rounded and worn, suggesting this object was used.			

Damage	This chisel has broken unevenly across the middle of the object,
_	through the socket in antiquity, with breakage extending further
	down one face than the other. There are no associated marks or
	casting flaws, but corrosion obscures much of the detail.

PAS-F024 Penzance I

Grid Ref.	SW 45	29	Altitude (m)		62
\checkmark					
Dryland		Wetland		Wetland Uncertain	
Find circumstances	An ing below	An ingot was found while metal-detecting below the surface on cultivated land.			15 about 3 inches
Reference(s)	PAS CORN-A863F7.				
Additional Notes					

Object Type and	Plano-convex ingot.			
Description	This is a roughly circular ingot with a plano-convex section.			
Location	Finder	Period	Late Bronze Age	
Completeness	76-99%	Details	Small fragments missing	
	from edges.			
Dimensions (mm)	L.67; W.54; Th.12; Wt.150.34g.			
Patina/Corrosion	Brown corrosion and patches of light green bronze disease.			
Manufacture/Use	Raw material – casting hollows present in the surface, but not			
	uncommon for ingots.			
Damage	Small sections have broken from the edge of this ingot in antiquity,			
	likely influenced by casting hollows. Otherwise this ingot is largely			
	complete.			

PAS-F025 Penzance II

Grid Ref.	SW 46	31	Altitude (m)		59
$\overline{\mathbf{A}}$		Γ			
Dryland		Wetland		Uncertain	
Find circumstances	An ingot piece was found while metal-detecting in 2 inches below the surface in clay on a building site w foundations had been dug to 6 feet already.			g in 2008 about 2 site where	
Reference(s)	PAS CORN-F4B411.				

Object Type and	Plano-convex ingot.			
Description	This is a fragment of an irregularly-shaped copper alloy lump, with a			
	rhomboidal section, in	dicating a plano-	convex form.	
Location	Finder	Period	Late Bronze Age	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.72; W.45; Th.36; Wt.415.85g.			
Patina/Corrosion	Mottled dark green and brown patina, with patches of light green			
	bronze disease.			
Manufacture/Use	Raw material – relatively well-cast but with large casting hollows			
	visible in the breaks.			
Damage	This ingot fragment ha	as broken uneven	ly on all sides in antiquity.	
_	There are no associated marks, but significant casting hollows.			

PAS-F026 Perranzabuloe II

Grid Ref.	SW 78	55	Altitude (m)		72
\square					
Dryland		Wetland		Uncertain	
Find circumstances	An ingot was found while metal-detecting in 2016 ab			16 about 6 inches	
	below the surface in a ploughed field.				
Reference(s)	PAS CORN-0931DE.				

Object Type and	Plano-convex ingot.				
Description	This is a fragment of an irregularly-shaped copper alloy lump, with a				
_	rhomboidal section, in	dicating a plano-	convex form.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	0-25% Details Fragment.			
Dimensions (mm)	L.73; W.54; Th.31; Wt.369.25g.				
Patina/Corrosion	Mottled dark green and brown patina, patches of light green bronze				
	disease.				
Manufacture/Use	Raw material – lots of large casting hollows visible in the breaks and				
	in the surfaces.				
Damage	This ingot fragment ha	This ingot fragment has broken unevenly on all sides in antiquity.			
	There are no associated marks, but significant casting hollows.				

PAS-F027 Polperro

Grid Ref.	SX 20 51		Altitude (m)		85
\checkmark		[
Dryland		Wetland		Uncertain	
Find circumstances	A sword fragment was found while metal-detecting in 2015 about 3				
Tind circuitstances	inches below the surface in ploughed soil.				
Reference(s)	PAS C	PAS CORN-FE2E0D.			

Object Type and	Sword – poss. Ewart Park.				
Description	This is a blade fragment with a lozenge-section and a raised, but				
	flattened, midrib. There is a small semi-circular notch in one end,				
	which could be the rer	nains of a rivet ho	bles, which may indicate this		
	blade fragment was re	worked/reused.	-		
Location	Finder	Period	Ewart Park		
Completeness	0-25%	Details	Mid-blade fragment.		
Dimensions (mm)	L.76; W.34.3; Th.8.7; Wt.72.15g.				
Patina/Corrosion	Green patina with pate	ches of light greer	n corrosion.		
Manufacture/Use	Prepared and used. This blade fragment appears to have been				
	worked and prepared for use, though details of use-wear are difficult				
	to determine due to the abraded cutting-edges. A notch in one end				
	is suggestive that the blade fragment was reworked after breakage,				
	perhaps as a razor or knife.				
Damage	This sword has broken at both ends in antiquity, though no				
	associated marks can	be identified. A p	hoto of one end possibly		
	shows some small cas	sting hollows, whi	ch may have influenced the		
	breakage.	-	-		

PAS-F028 Riviere Farm, Hayle

Grid Ref.	SW 56	6 38 Altitude (m)			-
Dryland		Wet	tland		Uncertain
Find circumstances	A socketed axe fragment was found while metal-detecting in 2007 about five inches below the surface in ploughed soil.			al-detecting in 2007 ed soil.	
Reference(s)	Knight	et al. 2015, 36,	No.67; PAS CO	RN-C50	C0B5.
Object Type and	Type Welby socketed axe (Southern English)				
Description	This is a rim fragment of a socketed axe with a biconical mouth moulding, below which the tops of at least four vertical ribs can be seen. It is likely this axe once had six or seven ribs. The PAS record regards this as a "South Welsh/Stogursey" type axe, but this is an inaccurate assessment.				
Location	Finder	Period Ewart Park			Park
Completeness	0-25%		Details	Rim fr	agment.
Dimensions (mm)	L.23; W.19.3; Th.7.3; Wt.9.99g.				

Patina/Corrosion	Mottled green/brown corrosion.
Manufacture/Use	Difficult to tell due to incompleteness, but the socket mouth appears
	to have been worked.
Damage	This is a fragment of the mouth of a socketed axe, broken on three
	sides in antiquity. There are no associated marks or casting flaws.

PAS-F029 Sennen

Grid Ref.	SW 37	[′] 26	Altitude (m)		102
$\overline{\mathbf{A}}$		[
Dryland		Wet	land		Uncertain
Find circumstances	Three while r was fo were fo separa surface seems	bbjects were found separately within the same ploughed f netal-detecting at different times. A socketed axe fragmen and in 2011 about 5 inches down, while two ingot fragmer bund in roughly the same location as each other, but on te occasions in 2013. Both were about 10 inches below th be. The relationship between these objects is unclear, but if the two ingots may have been associated at least			 same ploughed field same ploughed field seted axe fragment two ingot fragments ch other, but on 10 inches below the ts is unclear, but it red at least.
Reference(s)	Knight CORN	et al. 2015, 36, -131C45; CORI	38, Nos.72, 73, N-CDBF61.	97; PAS	3 CORN-214B63;

PAS-F029a

Object Type and Description	Socketed axe – type uncertain. This is a mouth and collar fragment of a socketed axe with a deep rounded collar and a horizontal rib set below this. The upper stump of a side-loop also survives. The fragment probably belonged to a Type Welby or south-eastern axe.				
Location	Finder Period Late Bronze Age				
Completeness	0-25% Details Socket mouth fragment.				
Dimensions (mm)	L.36; W.34.6; Th.6; Wt.39.86g.				
Patina/Corrosion	Brown patina and patches of light green corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness, but the remains of casting				
	seams are visible suggesting this was not fully prepared for use.				
Damage	A fragment of the socket mouth and collar has broken away from the				
	side of a socketed axe	in antiquity. The	re are no associated marks		
	or casting flaws.				

PAS-F029b

Object Type and	Plano-convex ingot.				
Description	This is an irregularly-shaped copper/copper alloy ingot fragment with				
	a flat underside and a	curved upper sur	rface.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25% Details Fragment.				
Dimensions (mm)	L.60; W.54; Th.25.4; Wt.289.7g.				
Patina/Corrosion	Mottled green corrosion.				
Manufacture/Use	Raw material – lots of casting hollows, but not uncommon for ingots.				
Damage	This ingot piece has broken on all sides in antiquity. No associated				
_	marks are visible on the photos, but large casting hollows are				
	visible, as is common.				

PAS-F029c

Object Type and	Plano-convex ingot.				
Description	This is an irregularly-shaped copper/copper alloy ingot fragment with				
	a flat underside and a curved upper surface.				
Location	Finder Period Late Bronze Age				
Completeness	0-25% Details Fragment.				
Dimensions (mm)	L.37; W.23; Th.30; Wt.96.65g.				
Patina/Corrosion	Dark green patina in places, but largely green corrosion.				

Manufacture/Use	Raw material – lots of casting hollows, but not uncommon for ingots.					
Damage	This ingot piece has broken on all sides in antiquity, from near the					
	centre of the original object. No associated marks are visible on the					
	photos, but large casting hollows are visible, as is common.					

PAS-F030 St. Agnes II

Grid Ref.	SW 73 51		Altitude (m)		100	
$\overline{\mathbf{A}}$						
Dryland		Wetland		Uncertain		
Find circumstances An a		An axe fragment was found while metal-detecting in 2015 about 4				
Find circumstances	inches below the surface in a ploughed field.					
Reference(s)	PAS CORN-6C605C.					

Object Type and	Flat axe – Class 3 or 4.				
Description	This is a slender rounded butt fragment of a flat axe.				
Location	Finder	Period	MA IV-MA V Willerby		
Completeness	0-25% Details Butt fragment.				
Dimensions (mm)	L.50; Th.9; B.W.27; Wt.61.12g.				
Patina/Corrosion	Pale green corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness and corrosion.				
Damage	The butt of a flat axe has broken away in antiquity, straight across				
	the septum. There are no associated marks or casting flaws.				
	Breakage: W.31; Th.9.				

PAS-F031 St. Clement

Grid Ref.	SW 84 45		Altitude (m)		-
Dryland		Wetland		Uncertain	
Find circumstances	A socketed tool was found while metal-detecting in 2012 about inches below the surface in woodland near a tree, c.2 feet from an undated possible midden.			ng in 2012 about 3 ree, c.2 feet from a sible midden.	
Reference(s)	Knight	Knight et al. 2015, 30, No.11, Pl.30; PAS CORN-42EF37.			N-42EF37.

Object Type and Description	Square-socketed tool. This is an incomplete, straight-sided slender blade with a square- socket, thinning to a curved edge. The cutting-edge slightly expands.					
Location	Finder	Period	Taunton-Penard			
Completeness	76-99%	Details	Broken at the socket			
			mouth.			
Dimensions (mm)	L.85.6; Bl.W.16; Th.13.6; Wt.68.39g.					
Patina/Corrosion	Mottled brown and green corrosion.					
Manufacture/Use	Prepared and possibly used. The casting seams have been					
	removed and the cutting-edge has been hammered out. It is now					
	asymmetrical, which may be due to ancient wear, but could also be					
	attributable to corrosion damage.					
Damage	The socket mouth of this chisel has broken away in antiquity, though					
	there are no associate	d marks or castir	ng flaws.			

PAS-F032 St. Columb Major

Grid Ref.	SW 90 63		Altitude (m)		70
\square					
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe fragment was found while metal-detecting in 2004 on cultivated land in the same field as two Medieval silver hammered coins.				al-detecting in 2004 dieval silver

Reference(s)	Knight et al. 2015, 30, No.12, Pl.24; PAS CORN-6CB647.

Object Type and	Socketed axe - type u	ncertain.			
Description	This is the lower blade	of a socketed ax	e, with a slightly flaring		
-	curved cutting-edge ar	nd the remains of	a sub-rectangular socket.		
Location	RCM 2004.8	Period	Late Bronze Age		
Completeness	0-25%	Details	Cutting-edge.		
Dimensions (mm)	L.42.1; BI.W.49.6; Wt.8	84g.			
Patina/Corrosion	Olive green patina; pale green corrosion causing surface				
	delamination around the edges.				
Manufacture/Use	Difficult to tell due to incompleteness, but the casting seams appear				
	to have been worked and prepared. The cutting-edge is worn and				
	slightly asymmetrical, but it is difficult to attribute this to use rather				
	than post-depositional processes.				
Damage	The socketed axe has broken across the blade, just above the				
	socket aperture in antiquity, leaving only the cutting-edge and lower				
	blade. There are no associated marks or casting flaws.				
	Breakage: Th.11.9.				

PAS-F033 St. Enoder

Grid Ref.	SW 90 56		Altitude (m)		86
Dryland		Wetland		Uncertain	
Find circumstances	A face	A faceted axe was found while metal-detecting in 2010 about 3			
	inches below the surface on cultivated land in loamy soil.			loamy soil.	
Reference(s)	Knight et al. 2015, 31, No.19, PI.23; PAS CORN-60E6C4.				

Object Type and	Type Meldreth sockete	Type Meldreth socketed axe.			
Description	This is a six-faceted socketed axe, with the remains of a raised				
	collar and a side-loop	set below it. The	blade is broad with a curved		
	cutting-edge and the s	urviving socket is	sub-rectangular.		
Location	Finder	Period	Ewart Park		
Completeness	76-99%	Details	Socket mouth broken.		
Dimensions (mm)	L.101; Bl.W.53; Wt.175.69g.				
Patina/Corrosion	Dark brown patina.				
Manufacture/Use	Prepared and used. The casting seams have been filed down on				
	both sides and the cutting-edge has been hammered out. Hammer				
	marks are still visible on both faces, and the cutting-edge is slightly				
	asymmetrical. Abrasion to the edge makes it difficult to identify				
	specific signs of wear.				
Damage	The socket mouth has fragmented away from this axe in antiquity				
_	and the side-loop has broken, leaving only stumps. There are no				
	associated marks or c	asting flaws.			

PAS-F034 St. Erth II

Grid Ref.	SW 54 33		Altitude (m)		26
Dryland		Wetland		Uncertain	
Find circumstances	An axe	e fragment was i	found while meta	al-detect	ting in 2015 about 7
Find circumstances	inches below the surface in a ploughed field.				
Reference(s)	PAS CORN-7E0A41.				

Object Type and Description	Flat axe. This is a corroded, sub-rectangular flat axe butt with diverging straight sides.				
Location	Finder	Period	Early Bronze Age		
Completeness	0-25% Details Butt fragment.				
Dimensions (mm)	L.50; W.32; Th.8; Wt.57.22g.				

Patina/Corrosion	Thick green corrosion.
Manufacture/Use	Difficult to tell due to corrosion.
Damage	This is a butt fragment of a flat axe that has broken away in
	antiquity. There are no visible associated marks or casting flaws.

PAS-F035 St. Keverne

Grid Ref.	SW 78	3 22	Altitude (m)		-
Ø		[
Dryland		We	tland		Uncertain
Find circumstances	An axe	e mould was fou	ind while field wa	alking in	2008.
Reference(s)	Knight	et al. 2015, 33,	No.33, Fig.1; P/	AS COR	N-031000; Treasure
	Annua	11(0)01(2000, (51, 10.51.		
Object Type and Description	Socketed axe mould. This is the lower half of one valve of a bivalve greisen stone mould for casting a ribbed socketed axe. The negative shows the tips of four ribs, indicating this was used to cast Type Welby axes. The mould is semi-circular in section, with a flat base and the remains of what looks like a loop. Just below the edge of the blade there is a small circular depression with a fragment of copper alloy still embedded in the stone mould. Furthermore, Peter Northover has				
	asymmetric; perhaps a worn axe had been used as a pattern".				
Location	Finder		Period	Ewart	Park
Completeness	26-50%	6	Details	Half o	f one mould.
Dimensions (mm)	L.96; W.99; Th.68; Wt.1000g.				
Patina/Corrosion	n/a				
Manufacture/Use	Prepared and used. This mould has been carefully prepared and				
	used to cast socketed axes.				
Damage	This ha	alf of the bivalve ty. There are no	e mould has brok associated mar	en in ha ks or ca	If, presumably in sting flaws.

PAS-F036 St. Levan

Grid Ref.	SW 36	23	Altitude (m)		83
Ø		[
Dryland		Wet	land		Uncertain
Find circumstances	A hoard of 53 metal objects was found while metal-detecting in 2015 about 12 inches below the surface in a put that was about 12 inches in diameter in a previously ploughed field. Two fragments of ingots were found either side of the pit at about a distance of 15 yards each. An excavation of the area took place in early 2016 by Cornwal Archaeological Unit. The size of the pit and compacted nature of the hoard indicates it may have been deposited in a container. This might be supported by a possible piece of leather found in a cavity of one of the ingots.				
Reference(s)	PAS C	PAS CORN-E8DF11, 2016T20; Ratcliffe-Warren et al. 2016.			en et al. 2016.
Additional Notes	Images of some of the unconserved objects are available on the PAS website and I am grateful to Neil Wilkin and Anna Tyacke for supplying the treasure report and details of this otherwise unpublished hoard.				

PAS-F036a

Object Type and	Socketed axe – type uncertain
object Type and	
Description	This is an incomplete socketed axe with a sub-rectangular socket
	and an expanding curved cutting-edge. The socket mouth is missing,
	and only one side-loop stump survives. There is the lower half of two
	different ribbed decorations on both faces. On one face there are

	two slightly converging	g lateral ribs, whic	h do not meet; on the other
	race, there are two curved lateral ribs which do converge and form a		
	narrow snield snape. This latter decoration is off-centre and at a		
	slight angle so the shield pattern is not symmetrical. This motif is		
	design on the mould fr	it has no company	sons, except pernaps the
Leastion		Om Tremougn.	Event Derle
Location	BIVI	Period	Ewart Park
Completeness	51-75%	Details	Body and edge surviving.
Dimensions (mm)	L.88; Bl.W.51.5; Wt.23	36.41g.	
Patina/Corrosion	Brown patina, patches	of pale green co	rrosion.
Manufacture/Use	Difficult to tell. The case	sting seams appe	ar to have been worked and
	the cutting-edge may have been prepared for use. It is possibly		
	asymmetrical from wear, though this could be the result of post-		
	depositional processes. The poorly formed decoration is indicative		
	that this may have been a failed casting or a practice piece.		
Damage	The upper blade and socket mouth of this axe is absent and the		
_	metal surrounding this break is out-turned and cracked. It is unclear		
	at present whether this represents a failed casting or deliberate		
	damage. However, the worked casting seams might indicate this		
	was deliberately inflict	ed. perhaps throu	ugh the insertion of something
	into the socket.	, p p	

PAS-F036b

Object Type and	Socketed axe - type u	incertain.		
Description	This is the upper body	of a square-sock	keted axe with a flat mouth	
	and lipped collar that tapers into the body. Three ribs start below the			
	collar, in line with the start of the side-loop and slightly converge.			
	The PAS records five	ribs, but only thre	e can be seen on the photo	
	and Ratcliffe-Warren e	et al. only note thr	ee. The PAS record also	
	note it as a 'Stogursey	/' variant, but whil	e it possesses the typical	
	lack of collar, it lacks the diagnostic features of converging ribs			
	starting high on the ax	e and the side-lo	op originating from the collar.	
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Socket mouth and upper	
			body.	
Dimensions (mm)	L.36; Sock.Diam.Ext.3	L.36; Sock.Diam.Ext.36x34; Wt.59.49g.		
Patina/Corrosion	Green-brownish patina	a, patches of corr	osion.	
Manufacture/Use	Uncertain. The casting material has been partially worked, though			
	not completely removed; the socket mouth appears to be worked.			
Damage	The axe has broken unevenly through the upper blade, leaving the			
	socket mouth and side	e-loop intact, but	causing cracking around the	
	sides. There are no as	ssociated marks o	or casting flaws.	
	Breakage: W.28; Th.2	21.		

PAS-F036c

Object Type and Description	Ribbed socketed axe – type uncertain. This is a mid-body fragment of a socketed axe with the remains of			
	three, possibly five, rib	three, possibly five, ribs.		
Location	BM Period Ewart Park			
Completeness	0-25% Details Mid-body fragment.			
Dimensions (mm)	L.30; W.21; Th.3.5; Wt.7.32g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This is a mid-body fragment of one face of a socketed axe broken			
_	on all sides. There are no associated marks or casting flaws, but it			
	appears distorted.			

PAS-F036d

Object Type and Description	Socketed tool – type uncertain. This is a fragment of a socketed tool with no diagnostic features.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Mid-body fragment.			
Dimensions (mm)	L.30; W.21.5; Th.5; Wt.15.58g.			
Patina/Corrosion	Green patina and corrosion; one face more corroded than the other.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This is a mid-body fragment of one face of a socketed axe broken on			
	all sides. There are no	associated mark	s or casting flaws.	

PAS-F036e

Object Type and	End-winged axe.	End-winged axe.		
Description	This is an incomplete mid-section of a winged axe, with a side-loop			
	surviving intact and the	e remains of two	wings seemingly folded over.	
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Mid-body fragment.	
Dimensions (mm)	L.46; W.29; Wt.79.63g].		
Patina/Corrosion	Green patina/corrosion	n.		
Manufacture/Use	Difficult to tell due to ir	ncompleteness.		
Damage	This is a fragment of a winged axe, broken at both ends through the wings, so the butt and blade are missing. The side-loop is intact			
	however, and three of the four wings largely survive. There are no associated marks or casting flaws.			
	Butt breakage: Th.6.			
	Blade breakage: Th.4	l.		

PAS-F036f

Object Type and Description	Sword – poss. Ewart Park. This is a mid-blade fragment of a sword blade with bevelled edges and a thick, biconvex section. The PAS record suggests that this and F035g might have once been part of the same sword, but they are considered two separate objects by Ratcliffe-Warren et al.			
	fragment of this size.	as 154.59g, wh	ich seems very heavy for a	
Location	BM Period Ewart Park			
Completeness	0-25%	Details	Mid-blade fragment.	
Dimensions (mm)	L.45; W.35; Th.9; Wt.1	154.59g.		
Patina/Corrosion	Brown patina.			
Manufacture/Use	Prepared and possibly used. The edges of this blade have been hammered and bevelled and look like they have been sharpened. There is some edge damage on one edge in particular, but it is difficult to tell if this is ancient or post-depositional.			
Damage	This fragment has broken at both ends in antiquity, and the overall object has suffered transverse bending, particularly towards one of the breaks. A photo of the break associated with the bending also shows one small casting hollow, though no other casting flaws			

PAS-F036g

Object Type and Description	Blade – poss. hog-bac This is a semi-rectang flattened midrib. The c The PAS record sugge part of the same sword belonged to a hog-bac	ck knife. Jular fragment wit Object has a bicor ests that this and d, but Ratcliffe-W ck knife.	h a rounded end and a nvex section. F035f might have once been arren et al. suggest this
Location	BM Period Ewart Park		
Completeness	0-25%	Details	Tip fragment.
Dimensions (mm)	L.40; W.45; Th.8; Wt.35.5g.		

Patina/Corrosion	Green/brown patina/corrosion.		
Manufacture/Use	Difficult to tell due to incompleteness though the rounded tip		
	appears to be deliberately shaped.		
Damage	This is the tip of a blade broken straight across the blade in		
	antiquity. There are no associated marks or casting flaws.		
	Breakage: W.45.		

PAS-F036h

Object Type and Description	Knife – poss. hog-back. This is an incomplete sub-rectangular razor with at least one, if not two, cutting-edges and the remains of a rivet/peg hole at one end. It is biconvex in section.			
Location	BM Period Ewart Park			
Completeness	26-50%	Details	Mid-blade piece.	
Dimensions (mm)	L.49; W.41.45; Th.5.5; Wt.60.17g.			
Patina/Corrosion	Brown patina with corrosive lumps.			
Manufacture/Use	Difficult to tell, but the cutting-edge appears to have been worked			
	and sharpened.			
Damage	This piece has broken across the rivet hole at one end and across			
	the blade at the other, leaving a large mid-section of the razor.			
	There are no associate	ed marks or casti	ng flaws.	

PAS-F036i

Object Type and Description	Razor – poss. hog back knife. This is an incomplete trapezoidal razor with a single cutting-edge along the longest side and half a circular perforation on the shorter parallel side.		
Location	BM	Period	Ewart Park
Completeness	76-99%	Details	Upper edge and one side broken.
Dimensions (mm)	L.51; W.33; Th.7; Wt.4	13.82g.	
Patina/Corrosion	Brown/green patina.		
Manufacture/Use	Difficult to tell, but the cutting-edge appears to have been worked and sharpened.		
Damage	This razor has broken through the perforation away straight down the are no associated man	This razor has broken unevenly across the upper edge in antiquity through the perforation. One side of the razor has across broken away straight down the length of the razor, again in antiquity. There are no associated marks or casting flaws	

PAS-F036j

Object Type and Description	Casting jet. This is a conical casting jet with the remains of two converging central sprue stumps.			
Location	BM Period Ewart Park			
Completeness	n/a Details Casting waste.			
Dimensions (mm)	W.46; Wt.117.19g.			
Patina/Corrosion	Brown patina, corrosive lumps.			
Manufacture/Use	Waste from casting process.			
Damage	This was broken from	an object after ca	asting.	

PAS-F036k

Object Type and	Casting jet.			
Description	This is an oval conical casting jet with roughly central sprue.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Casting waste.			
Dimensions (mm)	W.29.5; Wt.45.69g.			
Patina/Corrosion	Green/brown patina.			
Manufacture/Use	Waste from casting process.			

Damage

This was broken from an object after casting.

PAS-F036I

Object Type and Description	Casting jet. This is an ovoid casting jet or 'plug' with a large central cylindrical sprue, which is stepped.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Casting waste.			
Dimensions (mm)	L.50; W.25; Wt.116.80g.			
Patina/Corrosion	Brown patina, green corrosive lumps.			
Manufacture/Use	Waste from casting process.			
Damage	This was broken from	an object after ca	isting.	

PAS-F036m

Object Type and Description	Ingot. Incomplete copper alloy ingot fragment, which seems to have been formed out of two flat pieces. The smaller thinner piece is irregularly- shaped and has been fused to the bottom of a larger, thicker semi- rectangular piece.				
Location	BM Period Ewart Park				
Completeness	Uncertain Details "Incomplete".				
Dimensions (mm)	L.74; W.60; Th.43; Wt.706g.				
Patina/Corrosion	Dark green patina in places, but largely green corrosion.				
Manufacture/Use	Raw material – lots of casting hollows, cracks and pits noted.				
Damage	Uncertain. The piece is described as potentially being two pieces				
	fused together, though details of damage and/or completeness are not noted.				

PAS-F036n

Object Type and Description	Plano-convex ingot. Irregularly-shaped copper alloy ingot fragment with a sub-triangular profile and a curved original edge.			
Location	BM Period Ewart Park			
Completeness	26-50% Details Edge piece.			
Dimensions (mm)	L.94; W.49.5; Th.51.5; Wt.594g.			
Patina/Corrosion	Dark green patina in places, but largely green corrosion.			
Manufacture/Use	Raw material – lots of casting hollows, but not uncommon for ingots.			
Damage	This ingot piece has broken from the edge of an ingot, though no			
	further details are give	n.		

PAS-F0360

Object Type and	Plano-convex ingot.			
Description	Irregularly-shaped copper alloy ingot fragment; trapezoidal section.			
Location	BM	BM Period Ewart Park		
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.39; W.31.5; Th.35; Wt.204.64g.			
Patina/Corrosion	Green-brown patina.			
Manufacture/Use	Raw material – smooth surface, but casting hollows in the breaks.			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036p

Object Type and Description	Plano-convex ingot.		
	rectangular section and a curved original edge.		
Location	BM Period Ewart Park		
Completeness	0-25% Details Edge fragment.		
Dimensions (mm)	L.59; W.57; Th.26; Wt.313g.		

Patina/Corrosion	Green-brown patina.
Manufacture/Use	Raw material – lots of casting hollows and pits, but not uncommon
	for ingots.
Damage	This ingot fragment has broken from the edge of an ingot in
	antiquity, though no further details are given.

PAS-F036q

Object Type and	Plano-convex ingot.			
Description	Irregularly-shaped copper alloy ingot fragment with a flat bottom and			
	signity sloping upper	suitace.	1	
Location	BM	Period	Ewart Park	
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.72; W.39; Th.28; Wt.315g.			
Patina/Corrosion	Green-brown patina.			
Manufacture/Use	Raw material – lots of casting hollows and pits, but not uncommon			
	for ingots. Ratcliffe-Warren et al. note: "One edge has a smooth,			
	slightly rounded recess maybe left by an object melted into the			
	ingot."			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036r

Object Type and	Plano-convex ingot.			
Description	Irregularly-shaped copper alloy ingot fragment with a plano-convex			
	section and a curved	original edge.		
Location	BM	Period	Ewart Park	
Completeness	0-25% Details Edge fragment.			
Dimensions (mm)	L.64; W.56.5; Th.25.			
Patina/Corrosion	Green-brown patina.			
Manufacture/Use	Raw material – some casting hollows and pits. Ratcliffe-Warren et			
	al. comment: "The surfaces of the edges are rough and pitted with			
	cavities and recesses. Two of these recesses seem relatively			
	smooth and may have been left by an object melted into the ingot."			
Damage	This ingot fragment ha	as broken on all b	out one side in antiquity.	

PAS-F036s

Object Type and Description	Plano-convex ingot. Irregularly-shaped copper alloy ingot fragment with an original edge and plano-convex section.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Edge fragment.			
Dimensions (mm)	L.64; W.52; Th.25.5; Wt.246.85g.			
Patina/Corrosion	Green-brown patina.			
Manufacture/Use	Raw material – lots of cavities and creases in the surfaces and			
	larger hollows in the breaks.			
Damage	This ingot fragment ha	is broken on all b	ut one side in antiquity.	

PAS-F036t

Object Type and Description	Plano-convex ingot. Irregularly-shaped copper alloy ingot fragment with an original edge and plano-convex section.				
Location	BM	BM Period Ewart Park			
Completeness	0-25% Details Edge fragment.				
Dimensions (mm)	L.50.5; W.42; Th.22; Wt.124.12g.				
Patina/Corrosion	Green-brown patina.				
Manufacture/Use	Raw material – lots of large casting hollows and recesses in the breaks, but not uncommon for ingots. Ratcliffe-Warren et al. note: "near the top of the ingot there are two small circular, saucer-like objects with a cavity or some space around them (both protrude)				

	from the side of the fragment when viewed from above, though one further than the other). These may be two rivet-like objects that have not melted into the ingot".
Damage	This ingot fragment has broken on all but one side in antiquity.

PAS-F036u

Object Type and Description	Plano-convex ingot. Irregularly-shaped copper alloy ingot fragment with an original edge and triangular section.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Edge fragment.			
Dimensions (mm)	L.36.5; W.33.5; Th.17.5; Wt.52.8g.			
Patina/Corrosion	Dark brown patina.			
Manufacture/Use	Raw material.			
Damage	This ingot fragment ha	s broken on all b	ut one side in antiquity.	

PAS-F036v

Object Type and	Plano-convex ingot.			
Description	Sub-triangular copper	Sub-triangular copper alloy ingot fragment; plano-convex section.		
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.38; W.25.5; Th.19; Wt.55.94g.			
Patina/Corrosion	Dark brown patina, patches of green corrosion.			
Manufacture/Use	Raw material – small casting hollows.			
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036w

Object Type and	Plano-convex ingot.			
Description	Sub-rectangular copper alloy ingot fragment; rectangular section.			
Location	BM	BM Period Ewart Park		
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.27.5; W.24.5; Th.21; Wt.70.93g.			
Patina/Corrosion	Dark green patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – several casting hollows.			
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036x

Object Type and Description	Ingot – poss. plano-convex. Sub-triangular copper alloy ingot fragment; triangular section.		
Location	BM	Period	Late Bronze Age
Completeness	0-25%	Details	Fragment.
Dimensions (mm)	L.61; W.40; Th.21; Wt	.128.68g.	
Patina/Corrosion	Dark green patina, pat	tches of pale gree	en corrosion.
Manufacture/Use	Raw material – several casting hollows and pits on the surface and larger hollows in the breaks. Ratcliffe-Warren et al. note: "On one edge near the bottom a small, round, dark green rivet-shaped object can be seen with some space around it, which may be an object that has not melted into the ingot property"		
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.

PAS-F036y

Object Type and Description	Ingot – poss. plano-convex. Sub-rectangular copper alloy ingot fragment; sub-triangular section.		
Location	BM Period Ewart Park		
Completeness	0-25% Details Fragment.		
Dimensions (mm)	L.43; W.35; Th.17.5; Wt.89.72g.		

Patina/Corrosion	Dark green-brown patina, patches of green-brown corrosion.
Manufacture/Use	Raw material – large casting hollows in the surface.
Damage	This ingot fragment has broken on all sides in antiquity.

PAS-F036z

Object Type and	Ingot – poss. plano-convex.			
Description	Sub-rectangular coppe	er alloy ingot frag	ment; sub-triangular section.	
Location	BM	Period	Ewart Park	
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.35; W.25; Th.19; Wt.71.26g.			
Patina/Corrosion	Green patina, patches of green corrosion.			
Manufacture/Use	Raw material – rough and pitted with large air bubble and cavities.			
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.	

PAS-F036aa

Object Type and	Ingot.				
Description	Sub-triangular copper alloy ingot fragment; sub-rectangular section.				
Location	BM	BM Period Ewart Park			
Completeness	0-25% Details Fragment.				
Dimensions (mm)	L.36; W.29.5; Th.17; Wt.48.90g.				
Patina/Corrosion	Dark green patina.				
Manufacture/Use	Raw material – rough and pitted with large air bubble and cavities.				
Damage	This ingot fragment ha	as broken on all s	This ingot fragment has broken on all sides in antiquity.		

PAS-F036bb

Object Type and Description	Ingot – poss. plano-convex. Irregularly-shaped copper alloy ingot fragment; triangular section.			
Location	BM	BM Period Ewart Park		
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.40; W.28.5; Th.23; Wt.64.32g.			
Patina/Corrosion	Green patina, patches of pale green and brown corrosion.			
Manufacture/Use	Raw material.			
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036cc

Object Type and Description	Ingot. Irregularly-shaped cop	per alloy ingot fr	agment; rectangular section.		
Location	BM	BM Period Ewart Park			
Completeness	0-25%	0-25% Details Fragment.			
Dimensions (mm)	L.38.5; W.29.5; Th.14; Wt.67.02g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Raw material – a few casting hollows and pits in the surface.				
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.		

PAS-F036dd

Object Type and Description	Ingot. Irregularly-shaped copper alloy ingot fragment with three straight		
	edges and one more r	ounded one and	a sub-rectangular section.
Location	BM Period Ewart Park		
Completeness	0-25%	Details	Fragment.
Dimensions (mm)	L.37; W.36; Th.11; Wt.46.99g.		
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.		
Manufacture/Use	Raw material – rough and pitted surface with numerous cracks and		
	air bubbles.		
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.

PAS-F036ee

Object Type and Description	Ingot. Irregularly-shaped copper alloy ingot fragment.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.29.5; W.27; Th.27.5; Wt.34.73g.			
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – possibly protrusions representing objects that have			
	no fully melted into the ingot.			
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036ff

Object Type and Description	Ingot – poss. plano-convex. Sub-square copper alloy ingot fragment; sub-triangular section.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.27; W.31; Th.17; Wt.38.86g.			
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – one prominent casting hollow and various air			
	bubbles.			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036gg

Object Type and Description	Ingot. This is a small irregularly-shaped "pellet" of a copper alloy ingot fragment.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.27.5; W.14; Th.11.5; Wt.15.71g.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Raw material.			
Damage	Uncertain.			

PAS-F036hh

Object Type and Description	Ingot. Sub-triangular copper alloy ingot fragment.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.23.5; W.20; Th.20; Wt.22.18g.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Raw material – cracked.			
Damage	This ingot fragment has broken on all sides in antiquity.			

PAS-F036ii

Object Type and	Ingot.		
Description	Small, elongated and rough fragment of a copper alloy ingot, with		
	one relatively flat surface.		
Location	BM Period Ewart Park		
Completeness	0-25%	Details	Fragment.
Dimensions (mm)	L.39; W.22; Th.17; Wt.38.64g.		
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.		
Manufacture/Use	Raw material – large elongated cavity on one side.		
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.

PAS-F036jj

Object Type and	Ingot.				
Description	Irregularly-shaped copper alloy ingot fragment with one smooth and				
-	flat face.				
Location	BM Period Ewart Park				
Completeness	0-25%	Details	Fragment.		
Dimensions (mm)	L.38; W.18; Th.21; Wt.41.07g.				
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.				
Manufacture/Use	Raw material – various casting hollows and pits visible on the				
	surface.				
Damage	This ingot fragment ha	s broken on all s	This ingot fragment has broken on all sides in antiquity.		

PAS-F036kk

Object Type and Description	Ingot – poss. plano-convex. Sub-triangular copper alloy ingot fragment; triangular section.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.35.5; W.27; Th.17; Wt.41g.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Raw material – various casting hollows, cracks and pits.			
Damage	This ingot fragment ha	This ingot fragment has broken on all sides in antiquity.		

PAS-F036II

Object Type and Description	Ingot. Sub-rectangular copper alloy ingot fragment with two relatively flat surfaces.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.29; W.22; Th.17; Wt.45.56g.			
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – various casting hollows, cracks and pits.			
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036mm

Object Type and Description	Ingot. Irregularly-shaped copper alloy ingot fragment.			
Location	BM	BM Period Ewart Park		
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.40; W.28.5; Th.9; Wt.26.92g.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Raw material – one elongated cavity and several smaller casting			
	pits.			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036nn

Object Type and	Ingot.			
Description	Small, irregularly-shaped copper alloy ingot fragment.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.32; W.29; Th.14; Wt.39.22g.			
Patina/Corrosion	Dark green-brown patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – various casting hollows, cracks and pits.			
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.	

PAS-F03600

Object Type and Description	Ingot. Small irregularly-shaped pellet fragment of a copper alloy ingot.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.24; W.24; Th.16; Wt.20.88g.			
Patina/Corrosion	Dark green patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – various pits and cracks.			
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036pp

Object Type and	Ingot.			
Description	Small irregularly-shaped pellet fragment of a copper alloy ingot.			
Location	BM	BM Period Ewart Park		
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.21; W.18.5; Th.13; Wt.21.82g.			
Patina/Corrosion	Dark green patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – various small casting hollows.			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036qq

Object Type and Description	Ingot – poss. plano-convex. Small irregularly-shaped copper alloy ingot fragment; sub-triangular section.			
Location	BM Period Ewart Park			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.27; W.26; Th.14; Wt.33.74g.			
Patina/Corrosion	Dark green patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – various casting hollows and pits in all surfaces.			
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.	

PAS-F036rr

Object Type and	Ingot.		
Description	Small sub-triangular copper alloy ingot fragment with one relatively		
	flat surface.		
Location	BM Period Ewart Park		
Completeness	0-25%	Details	Fragment.
Dimensions (mm)	L.31; W.21; Th.14; Wt.28.68g.		
Patina/Corrosion	Dark green patina, patches of pale green corrosion.		
Manufacture/Use	Raw material – surfaces are rough and pitted.		
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.

PAS-F036ss

Object Type and Description	Ingot – poss. plano-convex. Flat fragment of an irregularly-shaped copper alloy ingot; plano-			
	convex section.			
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.46.5; W.38; Th.18.5; Wt.149.57g.			
Patina/Corrosion	Dark green patina, pat	tches of pale gree	en corrosion.	
Manufacture/Use	Raw material – the upper surface is very smooth and flat, which might be part of a flat metal object that has not totally melted. The opposite surface is rough and pitted.			
Damage	This ingot fragment ha an edge that bends do the breakage.	as broken on all s own the side sligh	ides in antiquity, but there is tly, which could be linked to	

PAS-F036tt

Object Type and	Ingot – poss. plano-convex.			
Description	irregularly-snaped cop	oper alloy ingot fra	agment.	
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.35; W.29; Th.15; Wt	.68.71g.		
Patina/Corrosion	Dark green patina, pat	tches of pale gree	en corrosion.	
Manufacture/Use	Raw material – rough note: "The fragment has trapezoidal in shape, w has not completely me edges to this flat 'shee of them being particula	and pitted surfac as a very flat, sm which may be par elted into the ingc et', where the obje arly sharp."	es. Ratcliffe-Warren et al. ooth upper surface that is t of a flat metal object that t. There are three clear ect was fragmented, with two	
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036uu

Object Type and	Ingot.			
Description	Large irregularly-shaped flat fragment of a copper alloy ingot			
_	fragment; rectangular	section.		
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.55; W.53; Th.27; Wt.362g.			
Patina/Corrosion	Dark green patina, pat	tches of pale gree	en corrosion.	
Manufacture/Use	Raw material – various casting hollows and pits. Ratcliffe-Warren et al. note: "There are four clear edges to this flat 'sheet' which seems to lie on top of the rest of the ingot. Though attached to it, this flat sheet seems to be part of a flat metal object that has not completely melted into the ingot."			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036vv

Object Type and Description	Ingot – poss. plano-convex. Relatively flat, irregularly-shaped fragment of a copper alloy ingot; sub-triangular or plano-convex section.				
Location	BM Period Ewart Park				
Completeness	0-25% Details Fragment.				
Dimensions (mm)	L.39; W.31.5; Th.11; Wt.59.46g.				
Patina/Corrosion	Dark green-brown patina.				
Manufacture/Use	Raw material – rough and pitted surfaces.				
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.		

PAS-F036ww

Object Type and	Ingot.			
Description	Small, relatively flat, irregularly-shaped copper alloy ingot fragment;			
-	sub-rectangular sectio	n.		
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.34.5; W.22; Th.9; W	t.24.91g.		
Patina/Corrosion	Dark brown-green pat	ina, patches of pa	ale green corrosion.	
Manufacture/Use	Raw material – various casting hollows and pits. Ratcliffe-Warren et			
	al. note: "One edge is smoother and on one side it almost seems			
	sheet-like, with a rugged edge slightly folded down over a large			
	cavity. This could very tentatively be part of a flat, folded metal			
	object that has not cor	npletely melted in	nto the ingot."	
Damage	This ingot fragment ha	s broken on all s	ides in antiquity.	

PAS-F036xx

Object Type and	Plano-convex ingot.			
Description	Sub-rectangular coppe	er alloy ingot frag	ment; plano-convex section.	
Location	BM	Period	Ewart Park	
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.44; W.25; Th.17.5; Wt.73.29g.			
Patina/Corrosion	Dark green patina, patches of pale green corrosion.			
Manufacture/Use	Raw material – rough and pitted surfaces. Ratcliffe-Warren et al.			
	notes some flat areas and protrusions, which may represent objects			
	that have not fully melted into the ingot.			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036yy

Object Type and	Ingot.				
Description	Flat irregularly-shaped	I copper alloy ing	ot fragment; sub-rectangular		
	section and a flat uppe	er surface.			
Location	BM	Period	Ewart Park		
Completeness	0-25% Details Fragment.				
Dimensions (mm)	L.28; W.22.5; Th.10; Wt.30.34g.				
Patina/Corrosion	Dark green patina, patches of pale green corrosion.				
Manufacture/Use	Raw material – rough, pitted and cracked surfaces. The flat surface				
	may represent an object that has not completely melted into the				
	ingot.				
Damage	This ingot fragment ha	is broken on all s	ides in antiquity.		

PAS-F036zz

Object Type and	Ingot.			
Description	Irregularly-shaped copper alloy ingot fragment with one relatively flat			
	surface, two straight e	dges and one rou	unded edge. One side of this	
	ingot is covered in a m	nineralised organ	ic material.	
Location	BM	Period	Ewart Park	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.41; W.33; Th.27; Wt	.96.73g.		
Patina/Corrosion	Dark green-brown pat	ina, patches of a	darker green/brown	
	corrosion.			
Manufacture/Use	Raw material – rough surfaces with various casting flaws			
	Regarding the flat surface, Ratcliffe-Warren et al. note: "it is clearly			
	part of flat object that has not completely melted into the object, as it			
	seems to lie on top of the rest of the ingot, with one of the straight			
	edges and the rounded edge clearly visible."			
Damage	This ingot fragment ha	as broken on all s	ides in antiquity.	

PAS-F036a3

Object Type and Description	Ingot. Flat oval, disc-shaped copper alloy ingot.				
Location	BM Period Ewart Park				
Completeness	Uncertain Details Complete?				
Dimensions (mm)	L.53.5; W.45; Th.6.5; Wt.70.96g.				
Patina/Corrosion	Dark grey/black patina on one surface and green-brown patina on the opposite face. Some brown-red corrosion lumps.				
Manufacture/Use	Raw material – rough surfaces, with minor pitting.				
Damage	Uncertain.				

PAS-F037 St. Minver Lowlands I

Grid Ref.	SW 94	75 A	ltitude (m)	25	
Ø					

Dryland	Wetland Uncertain		Uncertain
Find circumstances	A sock	eted axe fragment was found while metal-detecting in 201 inches below the surface in ploughed soil.	
Reference(s)	PAS C	ORN-52EF32.	

Object Type and	Socketed axe – type uncertain.			
Description	This is the narrow blac	de of a socketed a	axe with a rectangular socket	
	section and a rounded	I, blunt cutting-ed	ge.	
Location	Finder	Period	Late Bronze Age	
Completeness	0-25%	Details	Cutting-edge fragment.	
Dimensions (mm)	L.36; W.30; Wt.31.97c	J.		
Patina/Corrosion	Pale brown corrosion causing surface delamination.			
Manufacture/Use	Difficult to tell due to incompleteness and corrosion. The casting seams appear to have been filed down and prepared and the worn cutting-edge may be the result of ancient use or could be post-depositional.			
Damage	This is the lower blade and cutting-edge of a socketed axe broken unevenly above the socket aperture in antiquity. There are no associated marks or casting flaws.			

PAS-F038 St. Minver Lowlands II

Grid Ref.	SW 93	77	Altitude (m)		18
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	An ingot fragment was found while metal-detecting in 2015 about 6-				
Find circumstances	8 inches below the surface on cultivated land.				
Reference(s)	PAS CORN-CFAF67.				

Object Type and	Plano-convex ingot.				
Description	This is a triangular lump of copper alloy with a plano-convex section.				
Location	Finder Period Late Bronze Age				
Completeness	0-25% Details Edge fragment.				
Dimensions (mm)	L.68.3; W.57.7; Th.30.3; Wt.302.7g.				
Patina/Corrosion	Mottled green corrosion.				
Manufacture/Use	Raw material – lots of casting hollows particularly in the breaks.				
Damage	This ingot has broken along two edges in antiquity. There are no				
	associated marks but there are lots of casting hollows in the breaks,				
	which likely assisted the breakage.				

PAS-F039 St. Teath

Grid Ref.	SX 06	S 80 Altitude (m)			-	
Dryland		Wet	tland	Uncertain		
Find circumstances	A blade fragment was found while clearing topsoil in a garden					
Reference(s)	Knight	et al. 2015, 37,	No.75, Pl.26; P	AS COR	RN-55C363.	
Object Type and	Blade – type uncertain.					
Description	This is the tip fragment of a blade with a triangular-section, created by a central ridge along one face of the blade. The PAS note this as a dagger, but the abraded nature of the object means it is better considered simply as a blade.					
Location	Finder	Period		Middle-Late Bronze Age		
Completeness	0-25%		Details	Tip fra	agment.	
Dimensions (mm)	L.45; W.27.4; Th.8; Wt.29.55g.					
Patina/Corrosion	Brown/grey corrosion.					

Manufacture/Use	Difficult to tell due to corrosion damage but the edges appear to be bevelled.
Damage	This is a tip fragment of a blade broken straight across the lower blade in antiquity. There are no associated marks, but the break reveals several casting hollows.

PAS-F040 St. Winnow

Grid Ref.	SX 11 57		Altitude (m)		-
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A sword fragment was found while metal-detecting in 2003 about 9-				
Find circumstances	10 inches below the surface in ploughed soil.				
Reference(s)	Knight et al. 2015, 38, No.86, Pl.26; PAS CORN-AAAAB3.				

Object Type and	Sword – poss. Ewart Park.				
Description	This is a mid-blade section of a sword with a lozenge section and				
_	bevelled edges.				
Location	Finder Period Ewart Park				
Completeness	0-25%	Details	Mid-blade fragment.		
Dimensions (mm)	L.24.1; W.32.8; Th.6.8	s; Wt.19.52g.			
Patina/Corrosion	Brown patina.				
Manufacture/Use	Prepared and used. The edges of the blade have been hammered and bevelled and presumably sharpened. There is edge damage along both edges, but it is uncertain from the photos whether this is related to use or post-depositional processes.				
Damage	This is a fragment of sword that has broken at both ends in antiquity. There are no obvious associated marks, but there are possible hammer marks on both faces and minor casting flaws are visible in the breaks.				

PAS-F041 Treen, St. Levan

Grid Ref.	SW 39	22	Altitude (m)		-	
Dryland		Wetland Uncertain			Uncertain	
Find eireumetenee	An ing	An ingot fragment was found while metal-detecting near Treen in				
Find circumstances	2016.	t was found abo	out 15cm down ir	n plougł	hed soil.	
Reference(s)	PAS C	ORN-3B4CCE.				
Additional Notes	This fir	ndspot is close t	o the coast.			
Object Type and	Plano-	convex ingot.				
Description	This is	an edge piece o	of a large ingot w	vith a fla	t underside and a	
	domed	upper surface	creating a roughl	y wedg	e-shaped profile. It	
	has be	en broken on th	ree sides to crea	ite a rou	ughly square piece.	
Location	Finder		Period	Late Bronze Age		
Completeness	Uncert	ain	Details	Edge piece.		
Dimensions (mm)	L.99.1; W.93.8; Th.33.9; Wt.1755g.					
Patina/Corrosion	Mottled green patina.					
Manufacture/Use	Lots of casting hollows in the ingot, but this is common for this object					
	type. There is a large, roughly oval, bubble on one face, which could					
	potentially represent a socket that has been melted into the ingot.					
	The XRF data indicates this ingot is largely copper, which would add					
	some doubt to the possibility of this ingot having been melted from					
	other objects.					
Damage	The ingot appears to have been broken on three sides to separate it					
	from a larger piece in antiquity. All breaks contain casting hollows					
	and are consistently patinated. There are no associated marks.					
	Breakage: Max.Th.32.7.					
PAS-F042 Tregoney I

Grid Ref.	SW 92	44	Altitude (m)		35
\checkmark		[
Dryland		Wet	tland		Uncertain
Find circumstances	A swor cultiva	A sword fragment was found while metal-detecting in 2003 in a cultivated field.			cting in 2003 in a
Reference(s)	Knight	et al. 2015, 37,	No.77; PAS CO	RN-312	2AA6.
Object Type and	Sword – poss. Ewart Park.				
Description	This is	the lower blade	of a sword tape	ring tow	ards a rounded tip
	with a l	ozenge section			
Location	Finder		Period	Late E	Bronze Age
Completeness	0-25%		Details	Tip fra	agment.
Dimensions (mm)	L.62.7;	W.21.2; Th.8.6	; Wt.38.77g.		
Patina/Corrosion	Brown patina and patches of light green corrosion.				
Manufacture/Use	Difficult to tell due to corrosion.				
Damage	This is a sword fragment that has broken across the lower blade in				
	antiquity. There are no associated marks, but the break reveals				
	severa	l small casting f	laws.		

PAS-F043 Tregoney II

Grid Ref.	SW 92	44	Altitude (m)		-
${\bf \bigtriangledown}$		Γ			
Dryland		Wetland		Uncertain	
Find circumstances	An ing control up to 9	ingot was found while metal-detecti trolled investigation of the site. The to 90cm in silty clay topsoil.			005 during a as found at a depth of
Reference(s)	Knight et al. 2015, 37, No.76; PAS CORN-CCB7D1.				37D1.

Object Type and	Plano-convex ingot.					
Description	Irregularly-shaped copper alloy lump; trapezoidal section.					
Location	HER, Cornwall.	HER, Cornwall. Period Late Bronze Age				
Completeness	0-25% Details Fragment.					
Dimensions (mm)	L.42; W.36; Th.17; Wt.64.61g.					
Patina/Corrosion	Green/brown corrosion.					
Manufacture/Use	Raw material – numerous casting hollows visible in the breaks.					
Damage	This fragment has broken on all sides from a larger piece. There are					
	no associated marks but numerous casting flaws in the breaks.					

PAS-F044 Tywardreath and Par

Grid Ref.	SX 08	55	Altitude (m)		-	
		[
Dryland		Wet	land		Uncertain	
Find circumstances	A palst inches	stave blade was found while metal-detecting in 2011 about 10 s below the surface in ploughed soil.			ting in 2011 about 10	
Reference(s)	Knight	et al. 2015, 37,	No.80, Pl.14; P/	AS COR	RN-4FF3A0.	
Object Type and	Palstave – Gr.III or South-western.					
Description	This is a broad triangular blade of palstave with a curved cutting-			h a curved cutting-		
	edge. A conver	edge. At the breakage across the blade there is the remains of a converging V-rib decoration.				
Location	Finder	Period		Taunt	on-Penard	
Completeness	26-50%	6 Details		Lower blade.		
Dimensions (mm)	L.60.5; Bl.W.52.5; Th.15; Wt.189.95g.					
Patina/Corrosion	Mottled green corrosion.					

Manufacture/Use	Difficult to tell but the casting seams appear to have been prepared and the blade has possibly been worked. It is difficult to tell if the asymmetry of the cutting-edge is due to extensive use or post- depositional abrasion.
Damage	This palstave has broken across the blade below the stop in antiquity. There are no associated marks or casting flaws.

B.3 DEVON

PAS-F045 Awliscombe I

Grid Ref.	ST 13	01	Altitude (m)		102
Dryland		Wetland		Uncertain	
Find circumstances	Three sword fragments were found while metal-detecting in 2014.				
Reference(s)	PAS DEV-F0ED0B.				
Additional Notes	Full details of this hoard are not available at present, but I have briefly examined the hoard and Mr Tom Cadbury has very kindly provided photos. Dimensions of the fragments are not known at present.				esent, but I have Iry has very kindly are not known at

PAS-F045a

Object Type and	Sword – poss. Ewart Park.				
Description	This is a mid-blade fragment of sword, with a biconvex section and				
	tapering towards one e	end, indicating the	e tip of a sword. It does not		
	refit with the other frag	ments, but likely	belongs to the same sword.		
Location	Finder	Period	Ewart Park		
Completeness	0-25%	Details	Lower blade fragment.		
Dimensions (mm)	L.53.7; W.33.9; Th.7.3.				
Patina/Corrosion	Green patina, but corrosive delamination around the edges.				
Manufacture/Use	Difficult to tell, but likely prepared and used. There is no evidence of				
	hammering or bevelling on this fragment, but the other two				
	fragments show signs of preparation.				
Damage	This fragment has broken at both ends in antiquity. There are no				
_	associated marks or c	asting flaws.			

PAS-F045b

Object Type and	Sword – poss. Ewart F	Sword – poss. Ewart Park.				
Description	This is a mid-blade fra	gment of sword w	vith a biconvex section. It			
	refits with F045c, and	is likely from the	same sword as F045a.			
Location	Finder	Period	Ewart Park			
Completeness	0-25% Details Mid-blade fragment.					
Dimensions (mm)	L.55; W.30.7; Th.6.7.					
Patina/Corrosion	Green patina, but corrosive delamination around the edges.					
Manufacture/Use	Prepared and possibly used. The surviving edges show signs of					
	bevelling and the blade seems to have been hammered.					
Damage	This fragment has broken at both ends in antiquity. There are no					
	associated marks or c	asting flaws.				

PAS-F045c

Object Type and	Sword – poss. Ewart Park.				
Description	This is a mid-blade fragment of sword with a biconvex section. It				
_	refits with F045b, and is likely from the same sword as F045a.				
Location	Finder Period Ewart Park				
Completeness	0-25% Details Mid-blade fragment.				
Dimensions (mm)	L.54.2; W.27; Th.5.7.				

Patina/Corrosion	Green patina, but corrosive delamination around the edges.
Manufacture/Use	Prepared and possibly used. The surviving edges show signs of
	bevelling and the blade seems to have been hammered.
Damage	This fragment has broken at both ends in antiquity. There are no
	associated marks or casting flaws.

PAS-F046 Awliscombe II

Grid Ref.	ST 13	01	Altitude (m)		116
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A sock	A socketed axe was found while metal-detecting.			
Reference(s)	PAS SOM-77666B.				

Object Type and Description	Socketed axe – type uncertain. This is a cutting-edge fragment of a socketed axe with a narrow, slender blade and no visible decoration. The cutting-edge is straight and unexpanded, with the remnants of a sub-rectangular socket.				
Location	Finder Period Late Bronze Age				
Completeness	0-25% Details Cutting-edge fragment.				
Dimensions (mm)	L.59.11; BI.W.59.11; Wt.84.08g.				
Patina/Corrosion	Brown patina.				
Manufacture/Use	Difficult to tell, but the casting seams appear to have been worked.				
	The cutting-edge is rounded but shows no signs of use.				
Damage	This is fragment has broken just above the socket aperture in				
	antiquity. There are no	o associated marl	ks or casting flaws.		

PAS-F047 Aylesbeare

Grid Ref.	SY 04	91	Altitude (m)	-	
\checkmark		C			
Dryland		Wetland		Uncertain	
Find circumstances	A palst	A palstave was found while metal-detecting in 2008.			
Reference(s)	Knight	Knight et al. 2015, 39, No.104; PAS DEV-105E82.			

Object Type and	Gr.III palstave.				
Description	This is a narrow palstave with the remains of low flanges and a side-				
	loop in line with a sub-	rectangular stop.	The blade is triangular and		
	there is a faint midrib e	extending down h	alf of the blade.		
Location	Finder	Period	Taunton-Penard		
Completeness	76-99%	Details	Flanges fragmentary; blade		
			tip broken away.		
Dimensions (mm)	L.129.				
Patina/Corrosion	Mottled brown and green corrosion.				
Manufacture/Use	Difficult to tell but the casting seams appear to have been prepared.				
Damage	One blade corner, the side-loop and portions of the flanges have all				
_	fragmented away either in antiquity or as a result of corrosion. It is				
	difficult to make any further assessment from the photo.				

PAS-F048 Berry Pomeroy

Grid Ref.	SX 83	61	Altitude (m)	-	
				\checkmark	
Dryland		Wetland		Uncertai	in
Find circumstances	A spearhead was found while metal-detecting in 2008.				
Reference(s)	Knight et al. 2015, 45, No.167; PAS DEV-1BDABS.				
Additional Notes	This is incorrectly recorded in Knight et al. as coming from Stoke Gabriel. The findspot lies on the parish boundary.			ı Stoke	

Object Type and	Plain pegged spearhead (Type 11)			
Dependent spe and	Than begged speaneau (Type T)			
Description	I his is the lower blade	and socket of a	pegged spearnead with a	
	circular socket. Too litt	le survives of the	blade wings survive to	
	accurately determine v	whether the blade	was flame or leaf-shaped.	
Location	Finder	Period	Late Bronze Age	
Completeness	26-50%	Details	Lower blade and socket.	
Dimensions (mm)	L.49; Bl.W.28; Sock.Diam.Ext.20; Wt.19.52g.			
Patina/Corrosion	Mottled green and brown patina.			
Manufacture/Use	Prepared and possibly used. The casting material has been			
	removed and the spearhead appears to have been polished. It is			
	difficult to identify signs of use though.			
Damage	This spearhead has broken unevenly across the lower blade and			
	through the circular midrib in antiquity. There are no associated			
	marks or casting flaws			

PAS-F049 Bigbury

Grid Ref.	SX 66	46 Altitude (m)			-
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A socketed gouge was found while metal-detecting in 2010 about			cting in 2010 about 5	
Tind chedinstances	inches below the surface in ploughed soil.				
Reference(s)	Knight et al. 2015, 39, No.110, PI.30; PAS CORN-319C01.				

Object Type and	Class I or II socketed gouge.				
Description	This is a small incomplete socketed gouge with a circular socket				
	with a simple mouth m	oulding, and a na	arrow, asymmetrical cutting-		
	edge.	-			
Location	Finder	Period	Ewart Park		
Completeness	76-99% Details Broken unevenly dow				
	socket mouth on one side.				
Dimensions (mm)	L.61; Bl.W.20; Wt.31.49g.				
Patina/Corrosion	Mottled brown and green corrosion.				
Manufacture/Use	Prepared and possibly used. The casting seams appear to have				
	been worked and the cutting-edge is worn and asymmetrical, which				
	could be linked to extensive use.				
Damage	The socketed gouge has broken at the socket mouth and down one				
	side, in antiquity, though it is difficult to identify details accurately				
	from the photos. This break has occurred unevenly, causing a				
	greater material loss on one side than the other. There are no				
	associated marks or c	asting flaws.			

PAS-F050 Bovey Tracey

Grid Ref.	SX 83	73 Altitude (n)	-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A chisel was found while metal-detecting in 2010.			010.
Reference(s)	Knight et al. 2015, 40, No.115, PI.30; PAS DEV-6FF9E5.			

Object Type and Description	Bar chisel. This is a square-section bar that tapers and flattens to a chisel blade at one end.			
Location	Finder Period Early-Middle Bronze Age			
Completeness	100% Details Complete.			
Dimensions (mm)	L.51.3; Bl.W.9.6; Th.8.8; Wt.24.31g.			
Patina/Corrosion	Mottled green/brown patina/corrosion.			
Manufacture/Use	Difficult to tell due to poor photo.			
Damage	None.			

PAS-F051 Braunton

Grid Ref.	SS 49	36	Altitude (m)	-	
				\checkmark	
Dryland		Wetland		Uncertain	
Find circumstances	A flanged axe was found while metal-detecting in 2012 about 75cm below the ploughsoil.				
Reference(s)	Knight	et al. 2015, 40,	, No.116, Pl.21; F	PAS DEV-07F6B5.	
Object Type and	Later s	hort-flanged ax	e.		
Description	This is	an unlooped as	ke with high lozer	nge-shaped flanges that rise	
	from be	elow the butt ar	d extend slightly	onto the upper blade. There	
	is a lov	v u-shaped stop	o/transverse ridge	e, which sits lower than the	
	flanges	. The flanges h	ave been hamm	ered over at the stop and the	
	blade e	expands to a fla	red crescentic cu	itting-edge.	
Location	Finder		Period	Acton Park	
Completeness	100%		Details	Complete.	
Dimensions (mm)	L.141.				
Patina/Corrosion	Mottled green/brown corrosion.				
Manufacture/Use	Prepared and possibly used. The casting material appears to have				
	been worked and the flanges have been hammered, suggesting				
	preparation for hafting. It is difficult to identify signs of use from the				
	photo but the cutting-edge has probably been hammered and				
	worked	l	-		
Damage	None.				

PAS-F052 Bridford

Grid Ref.	SX 80	86	Altitude (m)		278
Dryland		Wetland			Uncertain
Find circumstances	A flat axe was found while metal-detecting in 2013.			2013.	
Reference(s)	Knight et al. 2015, 40, No.118, PI.21; PAS DEV-987893.				

Object Type and	Flat axe – Class 3/4?				
Description	This is the lower blade of an axe with a broad, crescentic cutting- edge with flared tips. There is no evidence of decoration, flanges or median basel on the surviving piece				
Location	Finder Period Early Bronze Age MA III-MA V?				
Completeness	26-50%	Details	Lower blade and cutting- edge.		
Dimensions (mm)	L.52; BI.W.50.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Difficult to tell but the cutting-edge appears to have been hammered and worked.				
Damage	This axe has broken across the middle of the blade in antiquity, though there are no associated marks or visible casting flaws. The PAS notes that the break is worn, suggesting the axe continued in circulation after the break. Breakage: W 26: Th 8				

PAS-F053 Buckland-Tout-Saints I

Grid Ref.	SX 76	46 Altitude (m)	123	
\checkmark				
Dryland		Wetland	Uncertain	
Find circumstances	A spea	A spearhead was found while metal-detecting in 2015.		
Reference(s)	PAS D	DEV-C93172.		

Object Type and	Side-looped spearhea	d (Gr.6).			
Description	This is a flame-shaped spearhead with a long conical socket, with side-loops set about balfway along. The blade has a prominent				
	midrib creating a lozer	nge section, and t	here appears to be a small		
	amount of wood remai	ining inside the so	ocket.		
Location	Finder Period Taunton-Penard				
Completeness	76-99%	Details	Tip missing.		
Dimensions (mm)	L.117.4.				
Patina/Corrosion	Green corrosion.				
Manufacture/Use	Prepared and possibly used. The casting material has been				
	removed and the spearhead was likely worked, though corrosion				
	obscures any details of this. The wood surviving in the socket				
	indicates the spearhead was set on a shaft, even if it was not used.				
Damage	The tip of this spearhead has broken in antiquity. There are no				
	associated marks or casting flaws.				

PAS-F054 Buckland-Tout-Saints II

Grid Ref.	SX 75 45		Altitude (m)		65
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A sock	A socketed axe fragment was found while metal-detecting in 2015			al-detecting in 2015.
Reference(s)	PAS D	EV-C9D5FD.			

Object Type and	Socketed axe – type uncertain.				
Description	This is the lower blade of a narrow socketed axe with a sub-				
_	rectangular socket and	d a straight, unex	panded cutting-edge.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Lower blade and cutting-		
-	edge.				
Dimensions (mm)	L.42; BI.W.38.				
Patina/Corrosion	Brown patina, with some surface delamination.				
Manufacture/Use	Difficult to tell due to incompleteness. The core has become				
	misaligned during casting, causing the socket walls to be unevenly				
	thick.				
Damage	The cutting-edge of the axe has broken unevenly in antiquity above				
_	the socket aperture. There are no associated marks, but the				
	misaligned core likely caused a weakness in the structure of the				
	axe.				
	Breakage: Th.15.5.				

PAS-F055 Cadeleigh

Grid Ref.	SS 90	09	Altitude (m)		-	
					\mathbf{N}	
Dryland		Wet	tland		Uncertain	
Find circumstances	A palstave was found while metal-detecting in 2012 on cultivated land.			2012 on cultivated		
Reference(s)	PAS D	EV-339832.				
Object Type and	South-western palstave.					
Description	This is a looped palstave with a broad triangular blade and a slightly curved cutting-edge. High angular flanges rise from the butt and descend sharply to the stop, which is sub-rectangular. A side-loop is set above it. A midrib extends about halfway down the blade on both faces and the blade sides are slightly raised.					
Location	Finder	Finder Period Taunton-Penard				
Completeness	100%		Details	Comp	lete.	
Dimensions (mm)	L.139.5	5; BI.W.54.				

Patina/Corrosion	Brown patina.
Manufacture/Use	Prepared and possibly used. The casting material has been largely removed and worked and the cutting-edge shows evidence of hammering, bevelling and possibly sharpening. The cutting-edge is chipped and nicked, which could be related to use.
Damage	None.

PAS-F056 Chagford II

Grid Ref.	SX 70	88	Altitude (m)		-	
		[\square	
Dryland		Wetland Uncertain			Uncertain	
Find circumstances	A socketed axe was found in 2004 during a landscaping project at a hotel. The soil in which the axe was found had been brought from Chagford.					
Reference(s)	Bough PAS D	ton 2015, 49, N EV-8101B6.	o.204; Knight et	al. 2015	5, 40, No.120, Pl.22;	
Object Type and	Sompt	ing socketed ax	e (Kingston varia	ant).		
Description	moulding and a thin horizontal rib moulding set below this, from					
	which t	the side-loop or	iginates. Four se	ts of two	o vertical ribs adorn	
	each fa	ace. The cutting	-edge is splayed	and cre	escentic. Boughton	
	states that "all four pairs [of ribs] terminate in a pellet surrounded by a circlet", but it is difficult to see this level of detail on the PAS photo.					
Location	Finder		Period	Llyn F	awr	
Completeness	100%		Details	Comp	lete.	
Dimensions (mm)	L.127; Wt.466g.					
Patina/Corrosion	Brown patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been					
	removed and prepared. It is difficult to identify further signs of use					
	but the	cutting-edge a	opears to have b	een han	nmered out.	
Damage	None.					

PAS-F057 Chardstock

Grid Ref.	ST 27	06 Altitude (m)			244
Dryland		Wetland			Uncertain
Find circumstances	A spea	A spearhead was found while metal-detecting.			
Reference(s)	PAS S	PAS SOM-54C26E.			

Object Type and	Side-looped spearbead (Gr 6)				
Object Type and	Side-looped spearnead (Gi.o)				
Description	I his is a possibly leaf-	snaped spearnea	ad with a circular conical		
	socket and narrow sid	e-loops set close	to the socket mouth. The		
	blade has a prominent	t midrib creating a	a lozenge section.		
Location	Finder	Period	Taunton		
Completeness	76-99%	Details	Tip and side-loop broken;		
	one blade wing damaged				
Dimensions (mm)	L.105.16; BI.W.18.87; Sock.Diam.Ext.17.63; Wt.47.62g.				
Patina/Corrosion	Mottled green patina/corrosion.				
Manufacture/Use	Difficult to tell. The PAS record notes that casting "ribs" (presumably				
	seams) are visible along the sides of the spearhead, which might				
	indicate this is has been left as-cast, though it is more likely that the				
	ribs have been ground, but not removed.				
Damage	The tip of this spearhead and part of one blade wing have				
-	fragmented in antiquity, as has one of the side-loops. The blade				
	edges have abraded a	and are fragmente	ed which is likely a result of		
	post-depositional proc	esses though the	PAS record comments that		
		esses, inough th			

these are older breakages. There are no associated marks or
casting flaws, but these might be obscured by corrosion.

PAS-F058 Colyton

Grid Ref.	SY 22	SY 22 92 Altitude (m)			142
${\bf \boxtimes}$					
Dryland		Wetland			Uncertain
Find circumstances	A palst land.	A palstave was found while metal-dete land.		ecting in	2014 on cultivated
Reference(s)	PAS D	EV-669688.			

Object Type and Description	Transitional palstave. This is a heavily worn narrow-bladed blade, with fragmentary low flanges that rise from below the butt to the stop. The stop is sub- rectangular and there is no side-loop or adornment on the blade. The blade appears to be quick thick				
Location	Finder	Period	Penard		
Completeness	76-99%	Details	Fragmentary butt and flanges.		
Dimensions (mm)	L.93.				
Patina/Corrosion	Green patina and surface delamination.				
Manufacture/Use	Difficult to tell. It appears any casting material has been removed, but the overall palstave is quite thick and rounded, with the blade seemingly unworked. It is difficult to say anything further from the photo.				
Damage	There is some material loss around the butt and the flanges of this palstave and one corner of the blade has broken away. It is uncertain when these breaks occurred, but it seems that at least some of the damage occurred in antiquity. There are no visible associated marks or casting flaws.				

PAS-F059 Culmstock

Grid Ref.	ST 10	13	Altitude (m)		113
Dryland		Wetland		Uncertain	
Find circumstances	A flat axe was found while metal-detecting in 2015 on cultivated land.				2015 on cultivated
Reference(s)	PAS SOM-05539E.				
Reference(S)	FAS S	OM-05559E.			

Object Type and	Flat axe – type uncerta	Flat axe – type uncertain.			
Description	This is a small trapezoidal flat axe with a thin, rounded cutting-edge, thickening towards the middle and thinning again towards the butt. It				
	reworked from a broke	ature of this axe i en fragment.	indicates it have been		
Location	Finder	Period	Early Bronze Age		
Completeness	76-99% Details Butt damaged.				
Dimensions (mm)	L.49.37; BI.W.38.14; B	I.Th.5.72; Wt.43.	21g.		
Patina/Corrosion	Mottled brown-green p	oatina.			
Manufacture/Use	Prepared and possibly used. The cutting-edge and butt seem to				
	have been thinned, presumably by hammering and for the intention				
	of use. The cutting-edge is asymmetrically worn, but there is no				
	evidence of further use-damage visible from the photo however.				
Damage	The butt of this axe has suffered some uneven material loss in				
	antiquity. There are no	associated mark	ks or casting flaws.		

PAS-F060 Denbury Down, Denbury and Torbryan

Grid Ref.	SX 82 68	Altitude (m)	-
		10	

\checkmark				
Dryland	Wetland Uncertain			
Find aircumstances A sock		keted axe was found while metal-detecting in 2008 on		
Find circumstances	cultivated land.			
Reference(s)	PAS DEV-698151.			

Object Type and	Socketed axe – type uncertain.					
Description	This is a broad, crescentic cutting-edge fragment of a socketed axe.					
Location	Finder	Finder Period Late Bronze Age				
Completeness	0-25%	Details	Cutting-edge fragment.			
Dimensions (mm)	L.62.1; BI.W.26.7.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Prepared and possibly used. The cutting-edge appears to have been worked and prepared for use and there is some edge damage in the form of nicks, which could be the result of use or post- depositional damage.					
Damage	The cutting-edge has broken from a socketed axe at the socket aperture in antiquity. There are no associated marks or casting flaws. Breakage: Th.13.7.					

PAS-F061 Denbury and Torbryan

Grid Ref.	SX 82	68	Altitude (m)		83
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A socketed gouge was found while metal-detecting in 2013.				
Reference(s)	Knight	Knight et al. 2015, 46, No.178, Pl.30; PAS DEV-6434DF.			

Object Type and	Class III socketed gouge. This is a socketed gouge with a plain flat-topped circular socket and				
Description	a flaring cutting-edge.				
Location	Finder	Period	Ewart Park		
Completeness	100% Details Complete.				
Dimensions (mm)	L.90; BI.W.35.				
Patina/Corrosion	Mottled green-brown patina.				
Manufacture/Use	Prepared and possibly used. The casting material has been				
	removed and prepared. It is difficult to identify further signs of use				
	but the cutting-edge appears to be slightly abraded, which could be				
	the result of use or post-depositional processes.				
Damage	None.				

PAS-F062 Exeter II

Grid Ref.	SX 96	94	Altitude (m)		44
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A casting jet was found while metal-detecting in 2005.			n 2005.	
Reference(s)	Knight et al. 2015, 41, No.133; PAS DEV-E6A317.			317.	

Object Type and Description	Casting jet. This is a roughly conical casting jet with two sprue stumps.				
Location	Finder Period Bronze Age				
Completeness	n/a Details Casting waste.				
Dimensions (mm)	L.20.46; W.20.93; Wt.13.15g.				
Patina/Corrosion	Pale green patina.				
Manufacture/Use	Casting waste.				
Damage	Broken during the cas	ting process.			

PAS-F063 Exmouth

Grid Ref.	SY 02	84	Altitude (m)		134
		[\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A flanged axe fragment was found while metal-detecting in 2014.			-detecting in 2014.	
Reference(s)	PAS D	EV-86EA3A.			

Object Type and	Flanged axe or palstave.			
Description	This is a narrow butt fr	agment of a flanc	ed axe or palstave. Flanges	
-	rise gently from the bu	tt end, but the fra	ament is too small to	
	determine if they are fu	ull palstave flange	es, or whether they remain	
	low and form part of a flanged axe such as an Arreton axe.			
Location	Finder	Period	Early-Middle Bronze Age	
Completeness	0-25%	Details	Butt fragment.	
Dimensions (mm)	L.48; W.25; Th.14; Wt.	.23.77g.		
Patina/Corrosion	Mottled brown corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	The butt has broken av	way from a flange	ed axe in antiquity, though the	
	corrosion obscures evi	idence of associa	ted marks or casting flaws.	

PAS-F064 Holne

Grid Ref.	SX 70	69	Altitude (m)		-
${\bf \bigtriangledown}$					
Dryland		Wetland		Uncertain	
Find circumstances	A sword fragment was found while metal-detecting in 2012 on cultivated land.			cting in 2012 on	
Reference(s)	Knight et al. 2015, 41, No.136, PI.26; PAS DEV-A6FA73.				

Object Type and	Sword – poss. Ewart Park.			
Description	Slightly tapering, mid-blade sword fragment with a lozenge section.			
Location	Finder	Period	Late Bronze Age	
Completeness	0-25%	Details	Mid-blade fragment.	
Dimensions (mm)	L.33; W.19; Th.4.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Difficult to tell due to incompleteness. The photo possibly shows			
	some edge damage, but it is unclear.			
Damage	This is a mid-blade fragment of a sword broken at both ends in			
_	antiquity. There are no associated marks or casting flaws visible on			
	the PAS photo.			

PAS-F065 Ivybridge

Grid Ref.	SX 63	56 Altitude (n	n) -	
Dryland		Wetland	Uncertain	
Find circumstances	A palst	stave was found while metal-detecting in 2011.		
Reference(s)	PAS D	DEV-265F11.		

Object Type and	Gr.III palstave.	Gr.III palstave.				
Description	This is an unlooped, broad-bladed palstave with short, low flanges					
	rising from the septum	to the stop. The	stop is sub-rectangular and			
	there is no decoration on the blade.					
Location	Finder	Period	Taunton-Penard			
Completeness	76-99% Details Flanges fragmentary.					
Dimensions (mm)	Not known.					
Patina/Corrosion	Dark brown patina, pale brown corrosion causing surface					
	delamination.					

Manufacture/Use	Difficult to tell but the casting material appears to have been removed and prepared, and the rounded cutting-edge is slightly asymmetrical and seemingly worn.
Damage	The flanges of this palstave seem to be slightly fragmentary, but this could be linked to post-depositional processes.

PAS-F066 Lewtrenchard Valley I, Lewtrenchard

Grid Ref.	SX 46	86	Altitude (m)		-
				\square	
Dryland		Wetland		Uncertain	
Find circumstances	A palstave was found while metal-detecting in 2001 near the Rive Lew.				2001 near the River
Reference(s)	Knight et al. 2015, 41, No.140; PAS DEV-670D23.				
Additional Notes	A seco in 2004	A second palstave was found about 600m to the east along the river in 2004 (PAS-F067).			ne east along the river

Object Type and	Gr.I palstave.				
Description	This is an unlooped palstave with high flanges and a u-shaped stop.				
	The blade is undecora	ted and flares to	a crescentic cutting-edge.		
Location	Finder	Period	Acton Park		
Completeness	76-99%	Details	Minor material loss at the		
			cutting-edge.		
Dimensions (mm)	L.253; BI.W.52; B.W.20.				
Patina/Corrosion	Dark reddish brown patina with some surface delamination.				
Manufacture/Use	Difficult to tell, but the casting material has been removed and it				
	seems the cutting-edge was probably worked.				
Damage	One blade tip and part of the cutting-edge has fragmented away,				
	though it is unclear wh	though it is unclear whether this is antiquated or the result of post-			
	depositional processes	S.	- •		

PAS-F067 Lewtrenchard Valley II, Lewtrenchard

Grid Ref.	SX 47	86 Altitude (m)		-	
Dryland		Wetland		Uncertain	
Find circumstances	A pals Lew.	A palstave was found while metal-detecting in 2004 near the River Lew.			2004 near the River
Reference(s)	Knight et al. 2015, 41, No.141, Pl.19; PAS DEV-6624A1.				
Additional Notes	Anothe F066).	Another palstave was found about 600m to the west in 2001 (PAS-F066).			west in 2001 (PAS-

Object Type and	Gr III palstave				
Description	I his is an unicoped pa	aistave with a broa	ad, triangular blade and a		
	curved cutting-edge. F	rom the available	e photo, it is unclear whether		
	the flanges are high or	low, but it seems	s they are most likely low and		
	rise to a u-shaped stor	A midrih extend	is from below the stop about		
	a third of the way down	o the blade and is			
	a third of the way down	n the blade and is	s set over a shallow		
	depression in the blade	e.			
Location	Finder	Period	Taunton		
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.113; BI.W.41; B.W.1	5; Wt.202g.			
Patina/Corrosion	Mottled green and brow	wn patina.			
Manufacture/Use	Difficult to tell, but the	casting material h	has been removed and		
	presumably prepared. It seems the cutting-edge was probably				
	prepared and there are numerous chins visible in the edge but				
	these sould be post do	numerous emps	visible in the edge, but		
	these could be post-de	epositional.			
Damage	None.				

PAS-F068 Littlehempston I

Grid Ref.	SX 80	62	Altitude (m)	25	
		[\checkmark	
Dryland		We	tland	Uncertain	
Find circumstances	A sock on cult	eted axe fragm ivated land.	ent was found wl	nile metal-detecting in 2000	
Reference(s)	PAS D	EV-17C701.			
Additional Notes	The field overlooks the River Dart. This fragment was found in the same field as a blade fragment (PAS-F069) and a rapier hilt was subsequently found in another area of the field in 2011 (PAS-F070).				
Object Type and	Socket	ted axe – type u	incertain.		
Description	This is	a curved cutting	g-edge fragment	of a socketed axe.	
Location	Finder		Period	Late Bronze Age	
Completeness	0-25%		Details	Cutting-edge fragment.	
Dimensions (mm)	Not kn	own.			
Patina/Corrosion	Green	patina.			
Manufacture/Use	Difficult to tell due to poor photo.				
Damage	This is the cutting-edge of a socketed axe seemingly broken below				
	the socket aperture, as the PAS classes this as a possible palstave				
	fragme	ent, indicating th	at a socket could	I not be identified. There are	
	no visi	ble associated r	marks or casting	flaws.	

PAS-F069 Littlehempston II

Grid Ref.	SX 80	62	Altitude (m)	30
				$\mathbf{\nabla}$
Dryland		Wet	land	Uncertain
Find circumstances	A blad cultiva	e fragment was ted land.	found while meta	al-detecting in 2000 on
Reference(s)	PAS D	EV-17DF94.		
	The fie	eld overlooks the	e River Dart. This	fragment was found in the
Additional Notes	same	field as an axe f	ragment (PAS-F0	068) and a rapier hilt was
	subsec	quently found in	another area of t	he field in 2011 (PAS-F070).
Object Type and	Blade	– poss. sword.		
Description	This is a tapering mid-blade fragment of a double-edged blade with a			
	pronounced midrib. It could belong to a sword or a dagger. The			
	photo provided by the PAS is too poor for an accurate identification.			
Location	Finder		Period	Late Bronze Age
Completeness	0-25%		Details	Mid-blade fragment.
Dimensions (mm)	Not known.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Difficult to tell due to poor photo.			
Damage	This is	a mid-blade fra	gment of a blade	d implement. It is difficult to
	identify	/ any associated	d marks or casting	g flaws from the photo.

PAS-F070 Littlehempston III

Grid Ref.	SX 80	62 Altitude (m)			32
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	A rapier fragment was found while metal-detecting in 2011 on cultivated land.			ting in 2011 on	
Reference(s)	PAS D	PAS DEV-17E6C0.			
Additional Notes	The field	The field overlooks the River Dart. This fragment was found in the same field as an axe fragment (PAS-F068) and a sword fragme			ent was found in the d a sword fragment

(PAS-F069), which has been found in different areas within the field
in 2000.

Object Type and	Rapier – poss. Gr.IV?	Rapier – poss. Gr.IV?				
Description	This is a hilt and upper blade fragment of a rapier with a slight					
-	projecting tang at the	outt and the rema	ins of at least one notch. The			
	hilt is too fragmentary	to accurately ide	ntify the type of rapier, but it			
	was likely trapezoidal.					
Location	Finder	Period	Middle Bronze Age			
Completeness	0-25% Details Hilt fragment.					
Dimensions (mm)	Not known.					
Patina/Corrosion	Mottled green corrosion.					
Manufacture/Use	Difficult to tell due to poor photo.					
Damage	The rapier has broken across the upper blade in antiquity and the					
_	surviving hilt has suffered abrasion and fragmentation, possibly					
	antiguated, but more likely to have occurred post-deposition. The					
	photo does not allow clear identification of the nature of the breaks.					
	but it appears the upper blade is slightly bent, which may be					
	associated with the da	mage.	,,			

PAS-F071 Loddiswell I

Grid Ref.	SX 71	47	Altitude (m)	59	
Dryland		Wetland		Uncertain	
Find circumstances	A sock	A socketed hammer was found while metal-detecting in 2015.			
Reference(s)	PAS D	PAS DEV-A7DFBD.			

Object Type and Description	Type 1 socketed hammer. This is an unlooped socketed hammer with a thick, circular socket mouth and straight parallel sides terminating in a rounded hammer end. Through the corrosion the remains of a raised double V rib decoration can be seen below the socket moulding, with one V set below the other.				
Location	Finder	Period	Late Bronze Age		
Completeness	100% Details Complete.				
Dimensions (mm)	L.60; W.26; Wt.162g.				
Patina/Corrosion	Extensive green corrosion.				
Manufacture/Use	Difficult to tell due to corrosion.				
Damage	None.				

PAS-F072 Loddiswell II

Grid Ref.	SX 71 49		Altitude (m)		95
$\overline{\mathbf{A}}$					
Dryland		Wetland			Uncertain
Find circumstances	A blad	A blade fragment was found while metal-detecting in 2015 on			
This circuitstances	cultivated land.				
Reference(s)	PAS DEV-CA1D09.				

Object Type and	Blade – uncertain.				
Description	This is a long narrow piece of metalwork, with a raised, rounded midrib present on both sides.				
	The PAS records this a	as a speamead	but it is very thin and lacks a		
	socket. It is more likely it belonged to a blade, but from the photo it is				
	difficult to determine exactly what object this once belonged to.				
Location	Finder	Period	Late Bronze Age		
Completeness	0-25% Details Blade fragment.				
Dimensions (mm)	L.65.3; W.15.18; Th.5.52.				
Patina/Corrosion	Dark green patina.				

Manufacture/Use	Difficult to tell due to poor photo.			
Damage	This fragment has broken from a larger object in antiquity. The			
	edges are quite fragmentary and seems to be bowed slightly in			
	places. It is unclear to what extent these represent the original			
	edges. The overall object shows no signs of bending however and it			
	is difficult to pick out any other associated marks or casting flaws.			

PAS-F073 Lower Frittiscombe, Stokenham

Grid Ref.	SX 80	94 A	ltitude (m)	-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	Two gold rings were found while metal-detecting in 1999.			
Reference(s)	Treasu	Treasure Annual Report 1998-9, 13-14, No.10, Fig.10.		

PAS-F073a

Object Type and Description	Gold penannular ring money. This is a solid gold penannular ring with flat terminals.				
Location	PCMAG Period Late Bronze Age				
Completeness	100% Details Complete.				
Dimensions (mm)	W.4; Ext.Diam.15; Wt.9g.				
Patina/Corrosion	Unknown.				
Manufacture/Use	Prepared. Further details unknown.				
Damage	None.	None.			

PAS-F073b

Object Type and Description	Gold penannular ring money. This is a solid gold penannular ring with flat terminals.				
Location	PCMAG Period Late Bronze Age				
Completeness	100% Details Complete.				
Dimensions (mm)	W.3; Ext.Diam.14; Wt.4.16g.				
Patina/Corrosion	Unknown.				
Manufacture/Use	Prepared. Further details unknown.				
Damage	None.	None.			

PAS-F074 Newton Abbot I

Grid Ref.	SX 83	68	Altitude (m)		-
		[
Dryland		Wet	lland		Uncertain
Find circumstances	A hoar 2007. Althou other r	ard of 6 ingots was found while metal-detecting across a field in A seventh was found slightly north of the other ingots. ugh not found within a single deposit, their similarity to each means they have been considered a hoard.			ecting across a field in e other ingots. ir similarity to each ard.
Reference(s)	PAS DEV-AE5C01, 2008 T307.				
Additional Notes	The ingots are recorded as documented in the PAS record. Individual photos are not available for the hoard and thus it is difficute to determine specific details or correlate specific ingot with specific details.			PAS record. d and thus it is difficult fic ingot with specific	

PAS-F074a

Object Type and Description	Bun-shaped ingot. This is a large piece of a copper/copper alloy bun-shaped ingot.				
Location	RAMM Period Late Bronze Age				
Completeness	26-50% Details Broken on all sides.				
Dimensions (mm)	L.83; W.60; Th.26; Wt.583g.				
Patina/Corrosion	Light green patina with red-brown corrosion.				

Manufacture/Use	Raw material with casting hollows.			
Damage	This piece has broken on all sides in antiquity.			

PAS-F074b

Object Type and Description	Bun-shaped ingot. This is a large piece of a copper/copper alloy hun-shaped ingot				
Location	RAMM Period Late Bronze Age				
Completeness	26-50% Details Broken on all sides.				
Dimensions (mm)	L.80; W.54; Th.20; Wt.542g.				
Patina/Corrosion	Light green patina with red-brown corrosion.				
Manufacture/Use	Raw material with casting hollows.				
Damage	This is a fragment brok	This is a fragment broken on all sides in antiquity.			

PAS-F074c

Object Type and Description	Bun-shaped ingot. This is a large piece of a copper/copper alloy bun-shaped ingot.					
Location	RAMM	RAMM Period Late Bronze Age				
Completeness	26-50% Details Broken on all sides.					
Dimensions (mm)	L.78; W.44; Th.20; Wt.460g.					
Patina/Corrosion	Light green patina with red-brown corrosion.					
Manufacture/Use	Raw material with casting hollows.					
Damage	This is a fragment brok	ken on all sides ir	n antiquity.			

PAS-F074d

Object Type and Description	Bun-shaped ingot. This is a large piece of a copper/copper alloy bun-shaped ingot.					
Location	RAMM	RAMM Period Late Bronze Age				
Completeness	26-50% Details Broken on all sides.					
Dimensions (mm)	L.104; W.74; Th.30; Wt.869g.					
Patina/Corrosion	Light green patina with red-brown corrosion.					
Manufacture/Use	Raw material with casting hollows.					
Damage	This is a fragment brol	ken on all sides ir	antiquity.			

PAS-F074e

Object Type and Description	Bun-shaped ingot. This is a fragment of a copper/copper alloy bun-shaped ingot.			
Location	RAMM	Period	Late Bronze Age	
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.58; W.50; Th.18; Wt.308g.			
Patina/Corrosion	Light green patina with red-brown corrosion.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken on all sides ir	antiquity.	

PAS-F074f

Object Type and Description	Bun-shaped ingot. This is a fragment of a copper/copper alloy bun-shaped ingot.			
Location	RAMM	RAMM Period Late Bronze Age		
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.59; W.41; Th.19; Wt.280g.			
Patina/Corrosion	Light green patina with red-brown corrosion.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken on all sides ir	n antiquity.	

PAS-F074g

Object Type and	Bun-shaped ingot.				
Description	This is a large piece of a copper/copper alloy bun-shaped ingot.				
Location	RAMM	Period	Late Bronze Age		
Completeness	26-50% Details Broken on all sides.				
Dimensions (mm)	L.61; W.73; Th.27; Wt.718g.				
Patina/Corrosion	Light green patina with red-brown corrosion.				
Manufacture/Use	Raw material with casting hollows.				
Damage	This is a fragment brok	ken on all sides ir	antiquity.		

PAS-F075 Newton Abbot II

Grid Ref.	SX 84	71	Altitude (m)		54
Dryland		Wetland			Uncertain
Find circumstances	A socketed axe fragment was found whon cultivated land.		hile met	al-detecting in 2013	
Reference(s)	PAS DEV-D63087.				

Object Type and	Socketed axe – uncertain.				
Description	This is the lower body and cutting-edge of a socketed axe. The				
_	cutting-edge is slightly	expanded and c	urved.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Lower body fragment.		
Dimensions (mm)	L.57; W.39.				
Patina/Corrosion	Pale green corrosion.				
Manufacture/Use	Difficult to tell but it seems the casting material has been removed				
	and the cutting-edge may have been worked.				
Damage	The axe has broken unevenly across the lower body in antiquity with				
	extensive material loss down one face, but leaving the cutting-edge				
	intact. There appear to be no associated marks or casting flaws, but				
	some of the protruding metal sections are slightly bowed. This could				
	have occurred post-deposition though.				

PAS-F076 Otterton I

Grid Ref.	SY 08	3 84 Altitude (m)			54	
\checkmark						
Dryland		We	tland		Uncertain	
Find circumstances	Seven land w therefo	even ingots were found while metal-detecting in 2013 on cultivated nd within 20m of each other at a depth of about 15cm. They erefore likely constitute a dispersed hoard.			in 2013 on cultivated out 15cm. They	
Reference(s)	PAS D	PAS DEV-ED41D1, 2013 T196; Wootton 2013a.			a.	
Additional Notes	A seco hoard The in Individ to dete details for this	second hoard of ingots was found less than 200m west of this ard (PAS-F077). It is unclear how they relate to each other. e ingots are recorded as documented in the PAS record. dividual photos are not available for the hoard and thus it is difficu determine specific details or correlate a specific ingot with specifi tails. I am grateful to Neil Wilkin for supplying the treasure report this otherwise unpublicated board			200m west of this e to each other. PAS record. d and thus it is difficult cific ingot with specific g the treasure report	

PAS-F076a

Object Type and Description	Plano-convex ingot. Piece of copper/copper alloy ingot with a plano-convex section.				
Location	Uncertain Period Late Bronze Age				
Completeness	26-50% Details Broken on all sides.				
Dimensions (mm)	L.78; W.60; Th.28; Wt.550g.				
Patina/Corrosion	Mottled green patina.				

Manufacture/Use	Raw material with casting hollows.
Damage	This piece has broken on all sides in antiquity.

PAS-F076b

Object Type and Description	Plano-convex ingot. Roughly triangular piece of copper/copper alloy ingot with a plano- convex section.				
Location	Uncertain	Uncertain Period Late Bronze Age			
Completeness	26-50% Details Broken on all sides.				
Dimensions (mm)	L.94; W.77; Th.34; Wt.750g.				
Patina/Corrosion	Mottled green patina.				
Manufacture/Use	Raw material with casting hollows.				
Damage	This piece has broken	on all sides in an	tiquity.		

PAS-F076c

Object Type and Description	Ingot. Roughly sub-circular fragment of ingot with a rectangular section					
Location	Uncertain	Uncertain Period Late Bronze Age				
Completeness	0-25% Details Fragment.					
Dimensions (mm)	L.58; W.52.5; Th.25.5; Wt.450g.					
Patina/Corrosion	Mottled green patina.					
Manufacture/Use	Raw material with casting hollows.					
Damage	This is a fragment brok	ken on all sides ir	n antiquity.			

PAS-F076d

Object Type and Description	Plano-convex ingot. Roughly triangular ingot fragment with a plano-convex section.			
Location	Uncertain	Uncertain Period Late Bronze Age		
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.55; W.43; Th.25; Wt.300g.			
Patina/Corrosion	Mottled green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken on all sides ir	n antiquity.	

PAS-F076e

Object Type and	Ingot.			
Description	Roughly rectangular ingot fragment with a rectangular section.			
Location	Uncertain	Uncertain Period Late Bronze Age		
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.33.5; W.32.5; Th.13; Wt.c.125g.			
Patina/Corrosion	Mottled green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken on all sides ir	n antiquity.	

PAS-F076f

Object Type and	Plano-convex ingot.			
Description	Roughly semi-circular ingot fragment with a plano-convex section.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.51; W.32.5; Th.17.5; Wt.c.125g.			
Patina/Corrosion	Mottled green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken on all sides ir	n antiquity.	

PAS-F076g

Object Type and	Ingot.			
Description	Roughly triangular ingot fragment with a rectangular section.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	0-25%	Details	Fragment.	
Dimensions (mm)	L.39.5; W.33; Th.15; Wt.c.100g.			
Patina/Corrosion	Mottled green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken on all sides ir	antiquity.	

PAS-F077 Otterton II

Grid Ref.	SY 08	84	Altitude (m)		56	
		[
Dryland		We	tland		Uncertain	
Find circumstances	A hoar a stubl while t were fe	rd of twelve ingots was found while metal-detecting in 2013 ble field. The largest fragment was found at a depth of c.55c the others were discovered at a depth of c.25cm. All fragment ound within 2m of each other.		I-detecting in 2013 in d at a depth of c.55cm, c.25cm. All fragments		
Reference(s)	PAS D	DEV-7B8877, 2013 T643; Wootton 2013b.				
Additional Notes	Anothe (PAS-I other. this otl	er hoard of ingots was found less than 200m east of this hoa F076) earlier in 2013. It is unclear how they relate to each I am grateful to Neil Wilkin for supplying the treasure report therwise unpublished hoard.		Another hoard of ingots was found less than 200m east of this PAS-F076) earlier in 2013. It is unclear how they relate to ea other. I am grateful to Neil Wilkin for supplying the treasure re his otherwise unpublished hoard.		00m east of this hoard ney relate to each the treasure report for

PAS-F077a

Object Type and	Plano-convex ingot.			
Description	Roughly triangular ingot fragment with a plano-convex section and			
	one original curved edge.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	Uncertain	Details	Edge fragment.	
Dimensions (mm)	L.103; W.60; Th.28; Wt.550g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along two sid	es in antiquity.	

PAS-F077b

Object Type and Description	Plano-convex ingot. Roughly triangular ingot fragment with a plano-convex section and one original curved edge.			
Location	Uncertain Period Late Bronze Age			
Completeness	Uncertain	Details	Edge fragment.	
Dimensions (mm)	L.54; W.36; Th.17; Wt.151g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along two sid	es in antiquity.	

PAS-F077c

Object Type and	Plano-convex ingot.			
Description	Roughly triangular ingot fragment with a plano-convex section and			
	one original curved edge.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	Uncertain	Details	Edge fragment.	
Dimensions (mm)	L.71; W.49; Th.23; Wt.263g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along two sid	es in antiquity.	

PAS-F077d

Object Type and Description	Plano-convex ingot. Roughly square ingot fragment with a plano-convex section and one original curved edge.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	Uncertain	Details	Edge fragment.	
Dimensions (mm)	L.61; W.56; Th.22; Wt.363g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along two sid	es in antiquity.	

PAS-F077e

Object Type and Description	Plano-convex ingot. Roughly triangular ingot fragment with a plano-convex section.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	Uncertain	Details	Fragment.	
Dimensions (mm)	L.36; W.31; Th.14; Wt.64g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along all side	s in antiquity.	

PAS-F077f

Object Type and Description	Plano-convex ingot. Roughly triangular ingot fragment with a plano-convex section.			
Location	Uncertain	Uncertain Period Late Bronze Age		
Completeness	Uncertain Details Fragment.			
Dimensions (mm)	L.34; W.31; Th.15; Wt.57g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along all side	s in antiquity.	

PAS-F077g

Object Type and	Plano-convex ingot.			
Description	Roughly square ingot i	fragment with a p	lano-convex section.	
Location	Uncertain	Period	Late Bronze Age	
Completeness	Uncertain	Details	Fragment.	
Dimensions (mm)	L.27; W.20; Th.10; Wt.25g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Raw material with casting hollows.			
Damage	This is a fragment brok	ken along all side	s in antiquity.	

PAS-F077h

Object Type and Description	Plano-convex ingot. Roughly square ingot fragment with a plano-convex section and a protrusion at one corner.				
Location	Uncertain Period Late Bronze Age				
Completeness	Uncertain Details Fragment.				
Dimensions (mm)	L.38; W.26; Th.14; Wt.53g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Raw material with casting hollows.				
Damage	This is a fragment brok	ken along all side	s in antiquity.		

PAS-F077i

Object Type and Description	Plano-convex ingot. Roughly square ingot fragment with a plano-convex section.					
Location	Uncertain	Uncertain Period Late Bronze Age				
Completeness	Uncertain Details Fragment.					
Dimensions (mm)	L.40; W.30; Th.21; Wt.97g.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Raw material with casting hollows.					
Damage	This is a fragment brok	ken along all side	s in antiquity.			

PAS-F077j

Object Type and	Ingot.						
Description	Small roughly triangular copper alloy lump, with a D-shaped section.						
-	It possibly represents an ingot.						
Location	Uncertain	Uncertain Period Late Bronze Age					
Completeness	Uncertain Details Fragment.						
Dimensions (mm)	L.32; W.34; Th.15; Wt.36g.						
Patina/Corrosion	Green patina.						
Manufacture/Use	Raw material with casting hollows.						
Damage	This is a fragment brol	ken along all side	s in antiquity.				

PAS-F077k

Object Type and Description	Ingot. Small roughly square copper alloy lump, with a plano-convex section. It possibly represents an ingot.					
Location	Uncertain	Uncertain Period Late Bronze Age				
Completeness	Uncertain Details Fragment.					
Dimensions (mm)	L.36; W.32; Th.23; Wt.89g.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Raw material with casting hollows.					
Damage	This is a fragment brok	en along all side	s in antiquity.			

PAS-F077I

Object Type and	Plano-convex ingot.					
Description	Small roughly square copper alloy lump, with a plano-convex					
Location	Uncertain	Uncertain Period Late Bronze Age				
Completeness	Uncertain Details Fragment.					
Dimensions (mm)	L.32; W.28; Th.15; Wt.63g.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Raw material with casting hollows.					
Damage	This is a fragment brok	ken along all side	s in antiquity.			

PAS-F078 Otterton III

Grid Ref.	SY 08	84 Altitude (m)			20
Dryland		Wetland			Uncertain
Find circumstances	An aw	was found while metal-detection		g in 201	6 on cultivated land.
Reference(s)	PAS P	UBLIC-D2660E			

Object Type and Description	Single-pointed awl. Square-section copper alloy bar tapering to a circular point.					
Location	Finder	Period	Middle-Late Bronze Age			
Completeness	100% Details Complete.					
Dimensions (mm)	L.82; W.6; Th.6; Wt.94g.					

Patina/Corrosion	Dark green patina.
Manufacture/Use	Prepared and possibly used. The awl is slightly bowed along its length, which could be use-related, or the result of post-depositional processes.
Damage	None.

PAS-F079 Ottery St. Mary II

Grid Ref.	SY 08	98	Altitude (m)		-
$\overline{\mathbf{A}}$					
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe and a piece of slag were found separately in the same area of the same field while metal-detecting in 2007 on cultivated land.				l separately in the ting in 2007 on
Reference(s)	Knight et al. 2015, 42, Nos.151, 152; PAS DEV-6D4737; DEV- 580D37.			/-6D4737; DEV-	
Additional Notes	The sla due to	lag is not definitely Bronze Age but has been included here			

PAS-F079a

Object Type and	South Welsh socketed	axe.				
Description	This is a narrow socketed axe with a thick single mouth moulding					
	and three converging	vertical ribs origin	ating from this moulding.			
	Similarly, the side-loop	is situated at the	e mouth moulding. The blade			
	expands slightly to a fl	ared curved cutti	ng-edge. Although the			
	slender nature is not ty	pical, the other for	eatures of this axe indicate it			
	belongs to the South V	Velsh tradition, th	ough probably an early			
	incarnation. There is n	o description or p	hoto of the socket, but one			
	would anticipate it to b	e square or sub-r	ectangular.			
Location	Finder	Period	Penard-Wilburton			
Completeness	76-99%	76-99% Details Broken side-loop and				
			damage to socket mouth.			
Dimensions (mm)	L.94.56; Bl.W.38.41.					
Patina/Corrosion	Brown patina.					
Manufacture/Use	Difficult to tell from the photo. It seems that some of the casting					
	material has been removed, though some might remain.					
Damage	The side-loop has brol	ken, leaving two s	stumps, and the axe has			
_	suffered material loss	to one side of the	socket mouth. Further			
	details cannot be obse	erved on the photo	Э.			

PAS-F079b

Object Type and Description	Metallurgical waste. Small lump of casting waste or slag. It is not definitely Bronze Age.					
Location	Finder	Finder Period Uncertain				
Completeness	n/a Details Casting waste.					
Dimensions (mm)	L.33.3; W.21.13; Th.17.56; Wt.31.24g.					
Patina/Corrosion	Mottled green patina.					
Manufacture/Use	Metallurgical waste.					
Damage	Metallurgical waste.					

PAS-F080 Ottery St. Mary III

Grid Ref.	SY 08	98	Altitude (m)		71
Dryland		Wetland		Uncertain	
Find circumstances	An ing	An ingot fragment was found while metal-detecting in 2013 about 8			
T ind circuitstances	inches below the surface in a stoney soil level in pasture.				in pasture.
Reference(s)	Knight et al. 2015, 42, No.153; PAS CORN-BBA3C1.			3A3C1.	

Object Type and	Plano-convex ingot.			
Description	Large trapezoidal fragment of copper ingot; plano-convex section.			
Location	Finder	Period	Late Bronze Age	
Completeness	0-25%	Details	Edge fragment.	
Dimensions (mm)	L.70; W.48; Th.21; Wt.243.15g.			
Patina/Corrosion	Dark green patina and patches of coppery red corrosion.			
Manufacture/Use	Raw material – numerous casting hollows in the surface and breaks.			
Damage	This ingot has broken along two edges in antiquity. There are no			
	associated marks, but several large casting hollows that would have			
	influenced the break.			

PAS-F081 Sticklepath

Grid Ref.	SX 64	94	Altitude (m)		206	
						$\mathbf{\nabla}$
Dryland		Wetland			Uncertain	
Find circumstances	A pals	A palstave was found while metal-detecting in 2016.			2016.	
Reference(s)	PAS S	OM-B6F9F7.				

Object Type and Description	South-western palstave. This is a looped, broad-bladed palstave with high, angular flanges, a triangular blade and a straight cutting-edge. The narrow side-loop overlaps a u-shaped stop and there is a prominent tapering midrib extending from below the stop ridge and ending about halfway down the blade towards the cutting-edge.			
Location	Finder	Period	Taunton-Penard	
Completeness	76-99%	Details	One blade tip broken.	
Dimensions (mm)	L.144.7; Bl.W.54.43; B	.W.17.86; Fl.Br.3	4.07; Wt.339g.	
Patina/Corrosion	Dark brown patina in p	atches; pale brow	vn surface delamination.	
Manufacture/Use	Prepared and possibly used. The casting material has been			
	removed and prepared, and there is a shrinkage hollow in the			
	septum on one face. Other signs of use are difficult to identify.			
Damage	One blade tip has broken off in antiquity and the cutting-edge is			
	fragmentary, though th indicating this probably	ere are no assoc / the result of pos	iated marks or casting flaws t-depositional processes.	

PAS-F082 Stoke Gabriel I

Grid Ref.	SX 89	57	Altitude (m)		37
Dryland		Wetland			Uncertain
Find circumstances	Two in detecti	o ingot fragments were found about 1. tecting in 2011 about 10cm below the		1.5m ap e surface	e.
Reference(s)	Knight et al. 2015, 40, No.123; PAS DEV-D9F1E2, 2011 T4		night et al. 2015, 40, No.123; PAS DEV-D9F1E2, 2011 T441.		E2, 2011 T441.
Additional Notes	Findsp	ot is incorrectly	recorded as Chi	urston Fe	errers in Knight et al.

PAS-F082a

Object Type and Description	Plano-convex ingot. This is a semi-circular fragment of ingot with a plano-convex section.			
Location	Torquay Museum	Period	Late Bronze Age	
Completeness	0-25%	Details	Edge fragment.	
Dimensions (mm)	L.74.5; W.62.5; Th.c.3	1.		
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Raw material – casting hollows visible in the break.			
Damage	This ingot has broken along two edges in antiquity. There are no associated marks, but several large casting hollows that would have influenced the break.			

PAS-F082b

Object Type and Description	Plano-convex ingot. This is a roughly oval fragment of ingot with a plano-convex section.			
Location	Torquay Museum	Period	Late Bronze Age	
Completeness	0-25%	Details	Edge fragment.	
Dimensions (mm)	L.92.5; W.90; Th.c.32.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Raw material – casting hollows visible in the break.			
Damage	This ingot has broken along two edges in antiquity. There are no associated marks, but several large casting hollows that would have influenced the break.			

PAS-F083 Stoke Gabriel II

Grid Ref.	SX 85	57	Altitude (m)		11
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe fragment was found while metal-detecting in 2016.			al-detecting in 2016.	
Reference(s)	PAS DEV-FC253B.				
Additional Notes	The findspot is at the confluence of a tributary of the River Dart.				

Object Type and	Socketed axe – type uncertain.			
Description	This is a slightly flared, curved cutting-edge fragment of a socketed			
	axe, though there are	no further diagno	stic features.	
Location	Finder	Period	Late Bronze Age	
Completeness	0-25%	Details	Cutting-edge fragment.	
Dimensions (mm)	L.32.31; BI.W.39.98; W	Vt.30.9g.		
Patina/Corrosion	Dark brown and green patina.			
Manufacture/Use	Prepared and possibly used. The casting material has been removed and prepared and some of the wear on the cutting-edge might be attributable to ancient use, rather than post-depositional abrasion.			
Damage	The cutting-edge has broken away unevenly at the socket aperture in antiquity, leaving a protruding section of metal up one side of the axe. There are no associated marks or casting flaws. Breakage : Th.9.78.			

PAS-F084 Talaton III

Grid Ref.	SY 06	98	Altitude (m)		-
Dryland		Wet	land		Uncertain
Find circumstances	A palst land.	ave was found	while metal-dete	cting in	2005 on cultivated
Reference(s)	Knight	et al. 2015, 45,	No.169, Pl.16; F	PAS SO	MDOR-BA5606.
Object Type and	Gr.III p	alstave.			
Description	This is	a looped, broad	I-bladed palstave	e, with th	ne remains of low
	flanges	rising from the	butt to the stop.	The bla	de is triangular and
	the cut	ing-edge is cur	ved. The side-loo	op is bro	oken and sits above
	the sub	-rectangular sto	op; there appears		a snallow v-snaped
	depres	sion below the s	stop on at least o	ne or th	le laces.
Location	Finder		Period	Taunt	on-Penard
Completeness	76-99%	, D	Details	Side-I	oop broken; cutting-
				edge	damaged;
		fragmentary flanges.			
Dimensions (mm)	L.132; BI.W.42.1; B.W.19; St.W.27.8; Wt.230.16g.				
Patina/Corrosion	Dark gi	een patina hea	vily pitted with lig	ght gree	n corrosion.

Manufacture/Use	Prepared and possibly used. The casting material has been largely worked, though the seams are still visible. The cutting-edge has
	probably been hammered out and prepared for use, though this is difficult to tell from the photo. Some of the cutting-edge damage might be linked to ancient use.
Damage	This palstave has suffered a series of damages to the flanges, cutting-edge and side-loop. These damages appear to be a combination of ancient and post-depositional processes. There are no visible associated marks or casting flaws.

PAS-F085 Tawstock

Grid Ref.	SS 58	24	Altitude (m)		-		
							\checkmark
Dryland		Wetland		Wetland Un		Uncertain	
Find circumstances	A pals cultiva	tave fragment was found while nated land.		netal-de	tecting in 2012 on		
Reference(s)	PAS DEV-618BF7.						

Object Type and	Palstave – type uncertain.				
Description	This is a but fragment of a palstave with the beginnings of flanges				
-	rising from the butt end	d. There are no fu	irther diagnostic features.		
Location	Finder	Period	Middle Bronze Age		
Completeness	0-25% Details Butt fragment.				
Dimensions (mm)	L.145; W.12.5.				
Patina/Corrosion	Mottled green/black patina and corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness, but the casting material has				
	been removed from the surviving fragment.				
Damage	The butt has broken away from the palstave in antiquity. There are				
	no associated marks or casting flaws.				

PAS-F086 Tower Hill, Barnstaple

Grid Ref.	SS 57	32	Altitude (m)		-
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances A spearhead was found while metal-detecting in 2004 on cultiv			in 2004 on cultivated		
	land.				
Reference(s)	Knight et al. 2015, 39, No.106; PAS DEV-D908B5.				

Object Type and	Plain pegged spearbe	ad (Type 11)	
Description	This is the size let each of a control hady of a spearboad with yery		
Description			ouy of a spearneau, with very
	little surviving of the bl	ade wings.	
Location	Finder	Period	Late Bronze Age
Completeness	51-75%	Details	Blade wings missing;
			socket damaged.
Dimensions (mm)	L.100; Sock.Diam.Ext.17x12; Wt.40.16g.		
Patina/Corrosion	Dark green patina.		
Manufacture/Use	Difficult to tell due to incompleteness, but seemingly prepared. There		
	is a small casting hole in one face of the spearhead.		
Damage	The blade wings of this spearhead have fragmented away, partly as		
	a result of post-depositional process. Additionally, the socket mouth		
	has suffered material loss extending up one face of the spearhead.		
	There are no associated marks or casting flaws, though there is a		
	notch in one face.		

PAS-F087 Thurlestone Beach II, Thurlestone

Grid Ref.	SX 66 42	Altitude (m)	-

			Ø
Dryland Wetland		Uncertain	
Find circumstances	A spearhead was found by chance while walking on Thurlestone Beach in 2007.		
Reference(s)	Davis 2015, 159, No.1135, Pl.103; Knight et al. 2015, 45, No.173, Pl.31, Fig.6; PAS DEV-2B4697.		
Additional Notes	Several other spearheads have been found on Thurlestone Beach (PCMAG-F005) and a hoard of material is currently going through the treasure process (PAS-F088). It is possible this material represents a series of deposits or a dispersed hoard		ound on Thurlestone Beach al is currently going through possible this material spersed hoard.

Object Type and Description	Hollow-bladed spearhead (Type 12A). This is the lower half of a large flame-shaped spearhead with small projecting barbs at the base of the lozenge-section blade. The circular socket is pegged with holes close to the base of the barbs.		
Location	Finder	Period	Wilburton-Blackmoor
Completeness	51-75%	Details	Lower half only.
Dimensions (mm)	Not known.		
Patina/Corrosion	Brown patina and green corrosion.		
Manufacture/Use	Difficult to tell, but possibly prepared for use. There is no casting material surviving around the socket, but there are numerous large casting holes in one of the blade faces.		
Damage	This spearhead has broken straight across the middle of the blade in antiquity leaving the lower blade and socket largely intact. The blade edges have abraded, which is likely the result of post-depositional processes. There are no associated marks or casting flaws near the break.		

PAS-F088 Thurlestone

Grid Ref.	SX 67	42	Altitude (m)		-
		C]		\checkmark
Dryland		Wet	land		Uncertain
Find circumstances	Severa consis metal- curren curren	everal pieces (at least 9) of Bronze Age metalwork, largely onsisting of spearheads, have been find either by chance or by netal-detecting at Thurlestone over several years. This material is urrently going through the treasure process and full details are urrently unavailable.			
Reference(s)	Knight FFEE4	Knight et al. 2015, 45, No.172, PI.31; PAS DEV-9CAEBA; DEV- FFEE44; DEV-2D0387.			
Additional Notes	Finds the final state of the fin	TEE44, DEV-200307. Tinds that were previously considered as single finds are now being incorporated into this entry, causing some confusion. It is possible that the material recorded as part of PCMAG-F005 and PAS-F088 night at some point also be considered part of this assemblage. I had the opportunity to view some, if not all, of the material considered within this entry, but full details are not available so only be brief description of each piece is included here			

PAS-F088a

Object Type and	Barbed spearhead (Ty	pe 15A)	
Description	This is the tip and upper blade of a large lozenge-section spearhead with wide blade edges with a stepped bevel. This is Knight et al.'s No.172b and was found about 30m away from PAS-F088b. There is some speculation that the two pieces come from the same spearhead, but the pieces do not refit.		
Location	Uncertain	Period	Late Bronze Age
Completeness	26-50%	Details	Tip and upper body piece.
Dimensions (mm)	L.170; W.44.		
Patina/Corrosion	Mottled green patina.		
Manufacture/Use	Difficult to tell due to incompleteness.		

Damage	The spearhead has broken unevenly across the upper body and
	through the socket hollow in antiquity. The overall piece is
	transversely bent and twisted and there is a semi-circular material
	loss at the break on one face, which could be linked to the breakage
	of the spearhead. However, the post-depositional effects of the sea,
	for instance, cannot be discounted.

PAS-F088b

Object Type and	Barbed spearhead (Ty	rpe 15A)	
Description	This is the lower blade and socket of a large lozenge-section spearhead with wide blade edges with a stepped bevel.		
	PAS-F088a. There is s	some speculation	that the two pieces come
	from the same spearhe	ead, but the piece	es do not refit.
Location	Uncertain	Period	Late Bronze Age
Completeness	26-50%	Details	Lower blade and socket.
Dimensions (mm)	L.160; W.64; Th.25.		
Patina/Corrosion	Mottled green patina and corrosion.		
Manufacture/Use	Difficult to tell but casting material appears to have been removed and prepared.		
Damage	The spearhead has broken unevenly across the middle of the body and through the socket hollow in antiquity. Additionally, the blade wings have suffered some fragmentation and the socket mouth is fragmented and partially crushed. It is possible some of this damage is deliberate, though the post-depositional effects of the sea cannot be discounted.		

PAS-F088c

Object Type and	Barbed spearhead (Ty	Barbed spearhead (Type 15A)		
Description	This is the tip and upper blade of a large lozenge-section spearhead			
-	with wide blade edges with a stepped bevel.			
Location	Uncertain	Uncertain Period Late Bronze Age		
Completeness	26-50%	Details	Tip and upper body.	
Dimensions (mm)	Not known.			
Patina/Corrosion	Mottled green patina and corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	The spearhead has broken straight across the upper body and through the socket hollow in antiquity. There are no associated marks or casting flaws.			

PAS-F088d

Object Type and Description	Barbed or Plain pegged spearhead (Type 11 or 15A) This is a mid-blade piece of a large lozenge-section spearhead with wide blade edges with a stepped bevel. There are the remains of clay coring still embedded in the body.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	26-50%	Details	Upper body, tip missing.	
Dimensions (mm)	Not known.			
Patina/Corrosion	Mottled green patina and corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	The spearhead has broken unevenly across the middle of the body and across the upper blade so the tip is missing. These breakages occurred in antiquity and there are no associated marks or casting flaws.			

PAS-F088e

Object Type and	Barbed or Plain pegged spearhead (Type 11 or 15A)
Description	Fragmentary mid-blade piece of a large lozenge-section spearhead.

Location	Uncertain	Period	Late Bronze Age		
Completeness	26-50%	Details	Body, tip missing.		
Dimensions (mm)	Not known.				
Patina/Corrosion	Mottled green patina a	nd corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This spearhead has broken across the lower body and the upper blade towards the tip in antiquity. These breaks have occurred unevenly, leaving protruding sections of metal and there are several cracks across the body. Additionally, the blade edges are absent and abraded. These damages are potentially deliberate, or possibly				
	linked to post-deposition	onal processes.			

PAS-F088f

Object Type and Description	Barbed or Plain pegged spearhead (Type 11 or 15A) This is the majority of a blade of a large lozenge-section spearhead.			
Location	Uncertain	Period	Late Bronze Age	
Completeness	26-50%	Details	Body, tip missing.	
Dimensions (mm)	Not known.			
Patina/Corrosion	Mottled green patina and corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This spearhead has broken unevenly across the lower body and straight across the upper blade towards the tip in antiquity. Additionally, the blade edges are absent and abraded. These damages are potentially deliberate, or possibly linked to post- depositional processes.			

PAS-F088g

Object Type and Description	Spearhead – type uncertain. This is the tip of a lozenge-section spearhead.				
Location	Uncertain	Period	Late Bronze Age		
Completeness	26-50%	Details	Tip only.		
Dimensions (mm)	Not known.				
Patina/Corrosion	Mottled green patina and corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This spearhead tip has broken straight across the upper blade in				
	antiquity, through the hollow body. The blade edges have either				
	abraded or been removed. These damages are potentially				
	deliberate, or possibly linked to post-depositional processes.				

PAS-F088h

Object Type and	South Welsh socketed	South Welsh socketed axe.			
Description	This is a short, incomplete socketed axe with three converging				
	are the remains of a th	ick, flat-topped si	ngle mouth moulding.		
Location	Uncertain	Period	Ewart Park		
Completeness	51-75%	Details	One blade face absent.		
Dimensions (mm)	Not known.				
Patina/Corrosion	Mottled green corrosion.				
Manufacture/Use	Difficult to tell due to corrosion.				
Damage	The axe has split vertically in antiquity with one face having been				
	completely removed and the side-loop has broken. There are no				
	associated marks or ca	asting flaws.			

PAS-F088i

Object Type and	Blade – type uncertain.
Description	This is a mid-blade fragment of an uncertain object, but likely
	originates from a sword blade due to the biconvex section.

Location	Uncertain Period		Late Bronze Age	
Completeness	0-25%	25% Details Mid-blade f		
Dimensions (mm)	Not known.			
Patina/Corrosion	Mottled green corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This blade fragment has broken at both ends in antiquity. There are			
	no associated marks or casting flaws.			

PAS-F089 Wembury

Grid Ref.	SX 53	49	Altitude (m)		-
					\checkmark
Dryland		Wet	land		Uncertain
Find circumstances	A gold land.	old ingot was found while metal-detecting in 2005 on cultivated			n 2005 on cultivated
Reference(s)	Knight et al. 2015, 46, No.181; PAS DEV-5B7171, 2005 T123; Treasure Annual Report 2005-6, 24, 34.				
Additional Notes	Althou compa PAS re of Glar sugges 48; Ne	Ithough not definitely Bronze Age, the composition of this piece is ompatible with the period and possible parallels are noted on the AS record. A similar 'finger' ingot is known from Ystradowen, Vale i Glamorgan, with a very similar weight (28.5g) and has been uggested as a blank for a Class B1 bracelet (Gwilt et al. 2005, 47- 8: Needham 1990b, 149).			sition of this piece is els are noted on the om Ystradowen, Vale g) and has been Gwilt et al. 2005, 47-

Object Type and	Gold ingot.				
Description	This is a narrow, ovoid piece of gold with a roughly D-shaped				
	section.				
Location	PCMAG	Period	Bronze Age		
Completeness	100% Details Complete.				
Dimensions (mm)	L.50; W.8; Th.7; Wt.26	L.50; W.8; Th.7; Wt.26.22g.			
Patina/Corrosion	Dull gold.				
Manufacture/Use	Raw material.				
Damage	The overall piece is dented and the surfaces are irregular, which is				
_	likely to be a combination of the original casting and post-				
	depositional damage.				

PAS-F090 Yarcombe

Grid Ref.	ST 23	10	Altitude (m)		238
Dryland		Wetland			Uncertain
Find circumstances	A palstave was found while metal-detecting in 2015 on cultivated land. A large piece of flint or chert was found partially covering the axe.			2015 on cultivated partially covering the	
Reference(s)	PAS D	EV-37645F.			

Object Type and Description	Gr.I? palstave. This is an unlooped palstave with high, leaf-shaped flanges that rise from the butt to the height of the stop. There is a shallow depression below the rectangular stop on each face, and the blade is broad with				
	a flared crescentic cutting-edge.				
Location	Finder	Period	Acton Park		
Completeness	100%	Details	Complete.		
Dimensions (mm)	Not known.				
Patina/Corrosion	Murky green patina.				
Manufacture/Use	Difficult to tell due to the poor photo, but the casting material appears to have been removed and prepared, and the cutting-edge was likely hammered out and worked.				
Damage	None.				

PAS-F091 Devon III

Grid Ref.	-	Altitude (m)		236
				$\mathbf{\nabla}$
Dryland		Wetland	Uncertain	
Find circumstances	A decorated gold sheet fragment was found while metal-detecting in 2015 on cultivated land.			hile metal-detecting in
Reference(s)	PAS DEV-46BB26.			
Additional Notes	The exact findspot of this fragment is known, but is considered broadly as "Devon".			out is considered

Object Type and Description	This is a crumpled fragment of roughly rectangular decorated gold sheet. The top and bottom margins of this piece appear to have been the original edges, while the left and right edges are torn, suggesting this was part of a longer narrow band. The decoration is embossed and consists three sets of three horizontal ribs, with two rows of circular bosses in between, some of which had dimples pressed into their centres. The following description has been taken from the PAS record as this level of detail could not be observed from the photo: Close to one of the margins there "are two perforations either side of a jagged tear, through which gold wires have been threaded; these seem to be of flattish and not rounded section. A third perforation, also threaded with gold wire, can be seen near to the torn edge of the piece and at a similar distance from the true edge." The overall piece lacks parallels at present and is only tentatively dated to the Bronze Age as the composition is comparable. It is suggested that the decoration is more akin to that from the Continent			
Location	BM	Period	Uncertain	
Completeness	0-25%	Details	Torn and crumpled sheet.	
Dimensions (mm)	L.50.6; W.46.4; Th.0.4	2; Wt.17.18g.	·	
Patina/Corrosion	Dull gold.			
Manufacture/Use	Prepared and possibly used. This was clearly once part of a finely prepared object, with the sheet having been hammered out and embossed. The perforations with gold wires might be indicative of use or possibly repair. However, any evidence of use is now obscured.			
Damage	This sheet has been to bowed and deformed. deliberate in antiquity combination of both.	orn at both ends f It is difficult to tel or post-depositior	rom a larger object and I how much of this is nal. It is probably a	

B.4 DORSET

PAS-F092 Askerwell

Grid Ref.	SY 52	93	Altitude (m)		-
					\checkmark
Dryland		Wet	land		Uncertain
Find circumstances	A flang	ged axe was fou	nd while metal-o	detecting	in 2008 on cultivated
Find circumstances	land.	land.			
Reference(s)	PAS DOR-422514.				
Object Type and	Low-flanged axe (Class 4A?)				
Description	This is an axe with low hammered flanges starting from the butt and				
	extending towards the cutting-edge. The butt is narrow and rounded				
	with div	with diverging sides that flare out to a broad, curved cutting-edge,			

	which is bevelled on both faces. The axe is thin at the butt and cutting-edge, thickening at the centre with a faint transverse bevel.			
Location	Finder Period MA IV Aylesford-MA V Willerby			
Completeness	76-99%	Details	Damage to cutting-edge and sides.	
Dimensions (mm)	L.121.27; Bl.W.60.47; Th.11.32; Wt.256g.			
Patina/Corrosion	Dark green patina with patches of light green corrosion.			
Manufacture/Use	Prepared and possibly used. The axe looks like it has been well- prepared and polished, with the cutting-edge having been bevelled. However, damage to the edge means further signs of use-wear cannot be identified.			
Damage	The axe has suffered i sides. This is related to	material loss to th c corrosion and p	e cutting-edge and along the ost-depositional processes.	

PAS-F093 Bere Regis I

Grid Ref.	SY 82 96 Altitude		Altitude (m)		56
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A spea	A spearhead was found while metal-detecting in 2017.			in 2017.
Reference(s)	PAS D	S DOR-1F4D7C.			

Object Type and	Side-looped spearhead	d (Gr.6)		
Description	This is a spearhead with a circular conical socket tapering to a			
_	narrow, flame-shaped	blade. Two narro	w, asymmetrical loops are	
	positioned about halfw	ay along the socl	ket, and the blade has a	
	prominent midrib creat	ing a lozenge see	ction.	
Location	Finder	Period	Taunton-Penard	
Completeness	76-99%	Details	Damaged blade edge.	
Dimensions (mm)	L.104.02; Sock.W.Ext.	14; Sock.W.Int.12	2.5; Wt.42.89g.	
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Prepared and possibly used. The casting material has been			
	removed and prepared, but it is difficult to identify any signs of use.			
	The side-loops are asymmetrically cast and one hole is almost			
	closed up from filling with metal.			
Damage	A portion of one blade wing on the upper blade is missing. The break			
	appears to be consistently patinated, but there are no associated			
	marks or casting flaws			

PAS-F094 Bere Regis II

Grid Ref.	SY 82	96	Altitude (m)		66
		[
Dryland		Wetland			Uncertain
Find circumstances	A knife	A knife was found while metal-detecting in 2016 on cultivated land.			
Reference(s)	PAS D	OR-761B1C.			

Object Type and Description	This is an incomplete tanged and riveted, double-edged knife blade. The tang is sub-rectangular and gently expands in a continuous line to the shoulders of the blade before tapering inwards towards the tip. A central circular rivet hole is positioned above the shoulders. There is a notch in one edge just below the rivet hole – it is unclear whether this constitutes damage or was a functional element. The blade has a biconvex cross-section			
Location	Finder	Period	Middle-Late Bronze Age	
Completeness	51-75% Details Lower blade missing.			
Dimensions (mm)	L.83.47; W.20.11; Th.2.95; Wt.20.54g.			
Patina/Corrosion	Green patina intermitte	ed with pale gree	n delamination and corrosion.	

wanufacture/Use	Prepared and possibly used. Any casting material has been				
	removed and prepared, and the blade edges appear to be slightly				
	removed and prepared, and the blade edges appear to be slightly				
	worked and bevelled. There is various damage along the blade				
	edges, some of which is clearly post-depositional, but some notches				
	might be use-related.				
Damage	The lower blade and tip of this knife have broken off, presumably in				
	antiquity, though there is no photo of the break to confirm this. There				
	are no associated marks on the faces of the blade, but it is unknown				
	whether there were any casting flaws in the break.				

PAS-F095 Bournemouth

Grid Ref.	SZ 14	91	Altitude (m)		-
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	A hoar on cult	A hoard of seven palstaves was found while metal-detecting in 2011 on cultivated land.			etal-detecting in 2011
Reference(s)	Knight et al. 2015, 47-48, No.206; PAS LVPL-2588F5, LVPL-2599D7, LVPL-25A796, LVPL-25BFD5, LVPL-25CEB5, LVPL-25B355, LVPL-2574F4, 2011 T589.			2588F5, LVPL- 25CEB5, LVPL-	
Additional Notes	The pa	alstaves are reco	orded under indi	vidual P	AS numbers.

PAS-F095a

Object Type and	Gr.III palstave (Werrar	variant).		
Description	This is an unlooped palstave with leaf-shape flanges rising above			
_	the height of the stop b	pefore gently slop	ing down to the blade. The	
	blade is broad and crir	oline with a sligh	tly curved cutting-edge. The	
	flanges form a deep u-	shaped stop ridg	e. However, there is no	
	further decoration on t	he blade.	·	
	Although the flanges ri	se above the hei	ght of the stop they are not	
	particularly high, with a breadth of approximately 30mm (judging			
	from the photo). This type closely aligns with Rowlands' Werrar type.			
	This is LVPL-25CEB5.			
Location	Finder	Period	Taunton-Penard	
Completeness	100%	Details	Complete.	
Dimensions (mm)	L.170.06; Bl.W.53.52;	Wt.423.4g.		
Patina/Corrosion	Green patina.			
Manufacture/Use	Prepared and possibly used. The casting material has been			
	removed and prepared, but it is difficult to identify signs of use-wear			
	from the photo.			
Damage	None.			

PAS-F095b

Object Type and Description	Gr.III palstave. This is a looped palstave with low flanges rising up from the butt to the height of the stop before descending steeply onto the blade. The blade is broad and triangular, with a curved cutting-edge. A side-loop overlaps the rectangular stop ridge and there is a midrib extending down about half of the blade. This is LVPL-25BFD5.			
Location	Finder Period Taunton-Penard			
Completeness	76-99% Details Material loss from cutting- edge and butt.			
Dimensions (mm)	L.162.62; Bl.W.61.32; Wt.425.5g.			
Patina/Corrosion	Reddish-brown patina with green corrosion.			
Manufacture/Use	Prepared and possibly used. The casting material has been removed and prepared, but it is difficult to identify signs of use-wear from the photo.			

Damage	The palstave is largely complete apart from two small fragments that
Damage	The palstave is largely complete apart norm two small magnetics that
	have broken away: one from the cutting-edge and one from the butt.
	These appear to have occurred in antiquity.

PAS-F095c

Object Type and Description	Norman-type palstave. This is an unlooped palstave with low flanges rising up from the butt to the height of the stop before descending steeply onto the blade. The blade is broad and crinoline, with a curved cutting-edge. The stop ridge is u-shaped and there are four short ribs extending down the blade. This palstave has Norman affinities.				
Location	Finder	Period	Taunton-Penard		
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.149.42; Bl.W.47.92;	Wt.374.4g.			
Patina/Corrosion	Brown patina with green encrustations and corrosion.				
Manufacture/Use	Prepared and possibly used. The casting material has been largely prepared, though not totally removed, particularly towards the butt end. It is difficult to identify signs of use-wear from the photo.				
Damage	None.				

PAS-F095d

Object Type and	South-western palstav	e.		
Description	This is a looped palstave with high angular flanges rising up from the butt above the height of the stop before descending steeply to the stop. The blade is broad and triangular, with a flaring curved cutting-edge. A side-loop sits above the sub-rectangular stop ridge and there is a midrib extending down most of the blade.			
Location	Finder	Period	Taunton-Penard	
Completeness	100%	Details	Complete.	
Dimensions (mm)	L.137.42; Bl.W.53.06;	Wt.305.7g.		
Patina/Corrosion	Green patina with exte	nsive patches of	corrosion.	
Manufacture/Use	Prepared and possibly used. The casting material has largely been removed and prepared, and the cutting-edge appears to have been hammered out and probably worked. However, it is difficult to identify signs of use-wear from the photo.			
Damage	None.			

PAS-F095e

Object Type and Description	Gr.III palstave. This is an unlooped palstave with low oval flanges rising up from the butt to the height of the stop. The blade is broad and crinoline, with a slightly curved cutting-edge. The stop is sub-rectangular and there is a faint midrib extending down the blade. This is LVPL-2599D7.					
Location	Finder	Period	Taunton-Penard			
Completeness	100%	100% Details Complete.				
Dimensions (mm)	L.139.86; Bl.W.50.5; W	/t.209.5g.				
Patina/Corrosion	Brown patina with green encrustations/corrosion.					
Manufacture/Use	Some preparation – unfinished? The casting seams have largely					
	been prepared, but not totally removed and it appears that the blade is thick and totally unworked.					
Damage	None.					

PAS-F095f

Object Type and	Gr.III or South-western palstave.
Description	

	This is a broad, flared triangular blade of a palstave with the remains of shallow midrib. The overall blade is asymmetrical and possibly ascast. This is LVPL-2588F5.					
Location	Finder	Period	Taunton-Penard			
Completeness	26-50%	26-50% Details Blade only.				
Dimensions (mm)	L.63.19; BI.W.54.99; W	Vt.141.6g.				
Patina/Corrosion	Brown patina with gree	en encrustations.				
Manufacture/Use	As-cast. This axe appears to have had no post-casting preparation undertaken and may represent a mis-cast. The blade shape is uneven and asymmetrical and the casting seams survive along the sides. The breakage may thus be related to the casting process.					
Damage	This palstave has broken across the thickest part of the blade below the stop in antiquity. There are no associated marks but the casting appears to be poor in the break. Breakage : Th.14.15.					

PAS-F095g

Object Type and Description	Gr.I or Gr.III palstave. This is a fragment of a palstave with the remains of a u-shaped stop ridge and a shallow curved shield depression in the surviving upper blade, indicative of an early form of palstave. There are two side- loop stumps on one side. It is difficult to identify a palstave type from the fragment. It could conceivably belong to a Gr.I palstave, based on the decoration, though the PAS records draws comparisons with Rowlands' Type Birchington (Gr.III in the present thesis). This is LVPL-2574F4.				
Location	Finder	Period	Taunton-Penard		
Completeness	0-25%	Details	Upper blade fragment.		
Dimensions (mm)	L.33.28; W.20.69; Th.2	20.18; Wt.76.6g.			
Patina/Corrosion	Very well preserved with original dark brown patina and some green incrustations.				
Manufacture/Use	Difficult to tell due to incompleteness, but the surviving sides indicate worked casting seams.				
Damage	worked casting seams. This palstave has broken across the upper blade and across the stop ridge in antiquity. Additionally, the side-loop has broken. There are no associated marks, but the stop ridge break is heavily encrusted with small stones and green corrosion. It is possible some of this might be original casting flaws				

PAS-F096 Bradford Peverell

Grid Ref.	SY 63	93	Altitude (m)	-	
				\checkmark	
Dryland		We	tland	Uncertain	
Find circumstances	A socketed axe piece was found while metal-detecting in 2012 on cultivated land.				
Reference(s)	PAS D	OR-36BA57.			
Object Type and	Socke	ed axe.			
Description	This is	an incomplete	socketed axe wit	h a narrow sub-rectangular	
	body, e	expanding to a	slightly curved cu	utting-edge.	
Location	Finder		Period	Late Bronze Age	
Completeness	26-50%	6	Details	Lower body piece.	
Dimensions (mm)	L.55.7	9; BI.W.41.11; V	Vt.84.14g.		
Patina/Corrosion	Mottled brown/green corrosion.				
Manufacture/Use	Prepared and possibly used. The casting material has been				
	removed and prepared, and the cutting-edge appears to have been				
	hammered thin. Signs of use are difficult to identify though, due to corrosion.				

Damage	This axe has broken across the middle of the body in antiquity,
	through the socket hollow. There are no associated marks or casting
	flaws.

PAS-F097 Bryanston II

Grid Ref.	ST 87	05	Altitude (m)		-	
☑		[
Dryland		Wetland			Uncertain	
Find circumstances	A knife	A knife was found while metal-detecting in 2012 less than 25cm				
rinu circuitistances	below	below the surface on cultivated land.				
Reference(s)	Knight	et al. 2015, 48,	No.209, Pl.26; P	AS DO	R-FAC625.	
Object Type and	Tange	d knife.				
Description	This is	an incomplete t	anged and rivete	ed, doub	ble-edged knife blade.	
	The ta	ng is sub-rectan	gular and gently	expand	s to angular shoulders	
	of the	blade before tap	ering inwards alo	ong the	blade towards the tip.	
	An off-	centre circular r	ivet hole is positi	oned ab	ove the shoulders.	
	The bl	ade has a bicon	vex cross-section	n.		
	Dr. Do	t Boughton has	commented that	this ma	y be a reworked	
	dagge	r or dirk.	Destad			
Location	Finder	,	Period	Middle	e-Late Bronze Age	
Completeness	51-75%	6	Details	Lower	r blade missing and	
	1 70 0	damage to tang.				
Dimensions (mm)	L./3.38; W.18.83; Th.4.01; Wt.18.66g.					
Patina/Corrosion	Dark grey/black patina with patches of green corrosion.					
Manufacture/Use	Prepai	ed and possibly	used. Any casti	ng mate	rial has been	
	remov	ed and prepared	d, and the blade e	edges a	ppear to be slightly	
	worked and bevelled. There is various damage along the blade					
	edges, some of which is clearly post-depositional, but some notches					
	might be use-related.					
Damage	The lo	wer blade and ti	p of this knife ha	ve broke	en off, presumably in	
	antiqui	ty, though there	is no photo of th	e break	to confirm this. There	
	are no	associated mar	KS ON THE FACES O		ade, but it is unknown	
	whethe	er mere were an	iy casting flaws if	i the bre	eak. Additionally, part	
	of the	ang nas tragme	ented away.			

PAS-F098 Buckland Newton I

Grid Ref.	ST 67	06	Altitude (m)		-	
		[\checkmark	
Dryland		Wetland		Uncertain		
Find circumstances	A sock	A socketed tool was found while metal-detecting in 2013.				
Reference(s)	Knight	et al. 2015, 48,	No.210; PAS DC	DR-EE8	574.	
Object Type and	Socke	ted axe/chisel.				
Description	This is	a slender squa	re-socketed tool,	taperin	g to a narrow curved	
	cutting	-edge. Below th	e socket rim ther	re is a c	urvilinear decoration	
	on eac	h of the faces a	nd sides. Three o	concent	ric curved lines adorn	
	the two	o faces, while th	ere are only two	concen	tric curved lines on the	
	sides.		-			
Location	Finder		Period	Middl	e Bronze Age	
Completeness	100%		Details	Comp	olete.	
Dimensions (mm)	L.98.3	6; Sock.Diam.E	xt.26.40x24.67; S	Sock.Dia	am.Int.16.65x16.59;	
	Wt.135	5.72g.				
Patina/Corrosion	Dark brown patina, though extensive patches of green corrosion and					
	surface delamination.					
Manufacture/Use	Prepar	Prepared and possibly used. The casting material has been				
	comple	etely removed a	nd prepared, and	I the cu	tting-edge has	
	probab	oly been hamme	red and worked.	Howev	er, corrosion obscures	

	any signs of use-wear, though the rounded nature of the edge suggests it was well-worn.
Damage	None other than corrosion delamination.

PAS-F099 Buckland Newton II

Grid Ref.	ST 69	05*	Altitude (m)	-
				$\overline{\mathbf{v}}$
Dryland		Wetland		Uncertain
Find circumstances	An axe/chisel was found while metal-detecting in 2002.			
Reference(s)	Knight et al. 2015, 48, No.211, Pl.21; PAS SOMDOR-7B3C43.			
Additional Notos	The exact findspot is not known, so the grid reference provided is for			
Auditional Notes	the parish only.			

Object Type and	Flanged axe/chisel.				
Description	This is an incomplete small tool with low, straight flanges and a low				
-	stop that slopes up on	to a slightly expar	nded blade with a crescentic		
	cutting-edge. The natu	ire of the flanges	is indicative of a palstave,		
	but parallels for the ov	erall form are und	certain.		
Location	Finder	Period	Middle Bronze Age		
Completeness	76-99%	Details	Butt broken.		
Dimensions (mm)	L.51.82; W.22.54; Th.9	9.03.			
Patina/Corrosion	Patches of dark brown patina, but largely brown corrosion causing				
	delamination.				
Manufacture/Use	Difficult to tell, but there is no visible casting material and the cutting-				
	edge appears to be asymmetrical and worn.				
Damage	The butt has broken off, presumably in antiquity, though this could				
	be the result of corrosion damage. There are no visible associated				
	marks, and no picture	of the break to id	entify casting flaws.		

PAS-F100 Buckland Newton III

Grid Ref.	ST 69	05*	Altitude (m)	-
		Γ		$\overline{\mathbf{N}}$
Dryland		Wetland		Uncertain
Find circumstances	A socketed axe fragment was found while metal-detecting in 2009.			
Reference(s)	Knight et al. 2015, 48, No.212; PAS DOR-AC80C0.			

Object Type and Description	South Welsh socketed axe. This is a rim fragment from the face of a three-ribbed socketed axe with a single collar moulding from which three parallel vertical ribs descend. The proximity of the ribs to the socket mouth indicate this belonged to a South Welsh socketed axe. A photo is not provided on		
	the socket mouth, but this would help confirm this.		
Location	Finder	Period	Ewart Park
Completeness	0-25%	Details	Rim and upper body
-			fragment.
Dimensions (mm)	L.35.83; W.22.11; Th.5.57; Wt.12.86g.		
Patina/Corrosion	Dark brown patina.		
Manufacture/Use	Difficult to tell due to incompleteness.		
Damage	This is a fragment of the socket collar and part of one face of a socketed axe, broken along two sides in antiquity. There are no associated marks or casting flaws.		

PAS-F101 Burton

Grid Ref.	SZ 18 95	Altitude (m)	-
Dryland		Wetland	Uncertain

Find circumstances	A flat axe was found b	y chance in 2004	on cultivated land.	
Reference(s)	PAS SOMDOR-C7162	PAS SOMDOR-C71623.		
Object Type and	Broad Migdale flat axe	(Class 3)		
Description	This is a large thin-but	This is a large thin-butted flat axe with a broad blade and crescentic		
	cutting-edge. The butt is wide and rounded and there is a slight			
	transverse bevel towards the middle of the axe.			
Location	Finder Period MA III Migdale			
Completeness	100%	Details	Complete.	
Dimensions (mm)	L.158; Bl.W.87.39; Th.	13.15; Wt.502g.		
Patina/Corrosion	Olive green patina, with light green corrosion delamination.			
Manufacture/Use	Prepared and used. The cutting-edge has been hammered and			
	bevelled on both faces and is heavily asymmetrical suggesting			
	extensive wear and resharpening.			
Damage	None.			

PAS-F102 Cann

Grid Ref.	ST 86	21 Altitude (m)	148	
\checkmark				
Dryland		Wetland	Uncertain	
Find circumstances	A pals	A palstave was found while metal-detecting in 2016.		
Reference(s)	PASW	PAS WILT-46374E.		

Object Type and	Gr.III palstave.			
Description	This is an unlooped palstave with low flanges rising from the butt to			
	a plateau at the height	of the u-shaped	stop. There is a shallow U-	
	shaped depression be	low the stop ridge	and the blade is relatively	
	narrow, but flares to a	cutting-edge. The	ere are three short lateral	
	parallel ribs on the sep	otum just above th	ne stop ridge.	
Location	Finder Period Taunton-Penard			
Completeness	76-99%	Details	Minor material loss at the	
			cutting-edge.	
Dimensions (mm)	L.128.35; Bl.W.41.60; Bl.Th.22.86; B.W.23.10; Wt.263g.			
Patina/Corrosion	Green patina/corrosion.			
Manufacture/Use	Prepared and possibly used. The casting material has been			
	removed and prepared, but further signs of use-wear are difficult to			
	identify. It is possible the damage to the cutting-edge is use-related.			
Damage	A fragment of the cutting-edge has broken away, possibly in			
	antiquity or post-deposition. This could be use-related or linked to			
	corrosion. There are no associated marks or casting flaws.			

PAS-F103 Cerne Abbas I

Grid Ref.	ST 66	00	Altitude (m)	-
Dryland		Wetland		Uncertain
Find circumstances	Three fragments of metalwork were found while metal-detecting in 2009 in a cultivated field. The objects were all recovered from a depth less than 25cm, but the relationship between them in unclear. They have been disclaimed as 'Treasure' and are grouped here as a potential scatter.			
Reference(s)	Knight et al. 2015, 48-49, No.217; PAS DOR-360023; DOR- 35EBE4; DOR-360553.			

PAS-F103a

Object Type and	Ribbed socketed axe – Type Welby?					
Description	This is a rim fragment of a socketed axe with a rounded collar					
	moulding and second moulding below this, from which three parallel					
	vertical ribs descend. Part of the corner survives indicating the					
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	socket was sub-rectangular or possibly sub-square. It is likely this					
	axe belongs to the sou	thern ribbed trad	ition (Type Welby).			
Location	Finder	Finder Period Ewart Park				
Completeness	0-25% Details Rim fragment.					
Dimensions (mm)	L.36.92; W.24.79; Th.8.07.					
Patina/Corrosion	Dark green patina; patches of green corrosion.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This is a corner fragment of the socket of a socketed axe, broken					
	away along two edges in antiquity There are no associated marks or					
	casting flaws.					

PAS-F103b

Object Type and	Palstave – type uncert	Palstave – type uncertain.				
Description	This is a rounded butt fragment of a palstave with the beginnings of					
	the flanges.					
Location	Finder	Finder Period Middle Bronze Age				
Completeness	0-25% Details Butt fragment.					
Dimensions (mm)	L.19.08; W.23.27; Th.7.03.					
Patina/Corrosion	Dark grey/black patina.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This fragment has broken away across the septum of a palstave in					
	antiquity There are no	antiquity There are no associated marks or casting flaws.				

PAS-F103c

Axe?				
This is a quadrangular fragment of copper alloy with a rectangular section and a tapering edge. It possibly belonged to the cutting-edge of an axe, though further diagnostic features are lacking.				
Finder Period Middle-Late Bronze Age				
0-25% Details Fragment.				
L.11.63 W.13.83; Th.5.52;				
Green patina.				
Difficult to tell due to incompleteness.				
This is a fragment of possibly a cutting-edge broken away in antiquity. There are no associated marks or visible casting flaws				
	This is a quadrangular section and a tapering of an axe, though furth Finder 0-25% L.11.63 W.13.83; Th.5 Green patina. Difficult to tell due to in This is a fragment of p antiquity. There are no	This is a quadrangular fragment of coppsection and a tapering edge. It possiblyof an axe, though further diagnostic featFinderPeriod0-25%DetailsL.11.63 W.13.83; Th.5.52;Green patina.Difficult to tell due to incompleteness.This is a fragment of possibly a cutting-antiquity. There are no associated mark		

PAS-F104 Cerne Abbas II

1	_			
We	Wetland		ertain	
A spearhead was found while metal-detecting in 2002 on cultivated				
land.				
Knight et al. 2015, 49, No.218; PAS SOMDOR-BC0AA2.				
h	We earhead was four nt et al. 2015, 49,	Wetland earhead was found while metal-de nt et al. 2015, 49, No.218; PAS SC	Wetland Unc earhead was found while metal-detecting in 2002 nt et al. 2015, 49, No.218; PAS SOMDOR-BC0A	

Object Type and	Spearhead – probably pegged (Type 11).					
Description	This is the lower blade and socket of spearhead though with no					
	indicators of side-loops	s or peg holes. Th	ne socket is circular, and the			
	base of the blade indic	ates it was origin	ally leaf-shaped. It seems			
	likely this was originall	y a plain pegged	variety.			
Location	Finder Period Middle-Late Bronze Age					
Completeness	26-50%	Details	Lower blade and upper			
	socket.					
Dimensions (mm)	L.30.65; W.18.79; Th.12.62; Wt.13.02g.					
Patina/Corrosion	Dark green patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been					
	removed and prepared, though further indicators of use are not					
	discernible.	-				

Damage	The spearhead has broken straight across the lower blade and
	across the socket in antiquity. There are no associated marks or
	casting flaws.

PAS-F105 Cerne Abbas III

Grid Ref.	SY 67	99	Altitude (m)	-
		[$\mathbf{\nabla}$
Dryland		We	tland	Uncertain
Find circumstances	A sock	eted axe fragm	ent was found w	hile metal-detecting in 2008
Find circumstances	on cult	ivated land.		
Reference(s)	Knight	et al. 2015, 49,	No.219; PAS S	OM-6E7416.
Object Type and	Socketed axe – type uncertain.			
Description	This is an angular fragment from the blade of a socketed axe. There			
	are no further diagnostic features.			
Location	Finder		Period	Late Bronze Age
Completeness	0-25%		Details	Body fragment.
Dimensions (mm)	L.35.4	W.22.2; Th.9.5	5; Wt.27.4g.	
Patina/Corrosion	Mottled green and yellow corrosion.			
Manufacture/Use	Uncertain due to incompleteness.			
Damage	This is a fragment of socketed axe, broken away from the			
	body/blade in antiquity. There are no associated marks or casting			
	flaws.			

PAS-F106 Charminster II

Grid Ref.	SY 68	94*	Altitude (m)		-
☑		[
Dryland		Wetland Uncertain			Uncertain
Find aircumstances	circumstances A gold strip was found while metal-detecting in 200				2004 a few inches
rind circuitistances	below				
Reference(s)	Knight	et al. 2015, 49,	No.221; PAS DO	DR-1732	265, 2006 T380;
Kelelelice(3)	Treasu	re Annual Repo	ort 2005-6, 24, N	0.35.	
Object Type and	Gold o	rnament – pend	ant?		
Description	This is	a cigar-shaped	strip of gold she	et with s	sub-square terminals
	and a d	circular perforati	on through one	end. The	e two long edges are
	asymmetrical, with one being more bowed than the other. Despite				
	current	ly lacking any p	arallels, the form	n and co	mposition is
	consist	ent with a Bron	ze Age date.		
Location	BM		Period	Bronz	e Age
Completeness	100%		Details	Comp	olete.
Dimensions (mm)	L.73.7; W.12.1; Th.0.5; Wt.4g.				
Patina/Corrosion	Dull go	ld.			
Manufacture/Use	Prepared and used. The gold sheet has been hammered and				
	shaped, with striations evidencing prehistoric working. The				
	perforation was created by pushing through the sheet, possibly with				
	a rotary action. It is considered to have been a well-used object.				
Damage	None.	There is no evic	lence this strip h	ad been	rolled or bent, though
_	it has s	uffered some m	ninor distortion to	the sur	face, probably
	throug	n a combination	of ancient use a	ind post-	-depositional
	proces	ses (e.g. soil wa	arping).		

PAS-F107 Cheselbourne

Grid Ref.	ST 75 00	Altitude (m)	-
Dryland		Wetland	Uncertain

Find circumstances	A spearhead was found while metal-detecting in 2013.				
Reference(s)	Knight et al. 2015, 49,	No.222, Pl.27; P	AS DOR-30E216.		
Object Type and	End-looped spearhead	d (Type 2B).			
Description	This is a small flame-s	shaped spearhead	d with side-loops situated		
-	close to the socket mo	outh. The socket i	s oval and tapers inwards		
	towards the blade, whi	ich has an oval se	ection and narrow wings.		
Location	Finder Period MA VI Arreton				
Completeness	76-99%	Details	Both side-loops broken;		
			socket mouth damage.		
Dimensions (mm)	L.67.87; W.22.05; Th.14.59; Wt.25.98g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Prepared and possibly used. The casting material has been				
	removed and prepared, though further signs of use are difficult to				
	identify. The broken side-loops could be related.				
Damage	Both side-loops have broken in antiquity, leaving only stumps and				
_	the socket mouth is uneven and fragmented, which also appears to				
	be antiquated. The socket mouth damage is likely to have been				
	accentuated by post-d	epositional proce	sses. There are no		
	associated marks or c	asting flaws.			

PAS-F108 Chettle

Grid Ref.	ST 94 centred	13 (village d)	Altitude (m)		75
Ø		Γ			
Dryland		Wetland			Uncertain
Find circumstances	A chisel was found while metal-detecting in 2009 on cultivated land.				
Reference(s)	Knight	et al. 2015, 49,	No.223; PAS DO	DR-C36	7E2.

Object Type and	Tanged chisel.	Tanged chisel.			
Description	This is a small, flat trapezoidal chisel blade with a thin, narrow				
• • • •	tapering tang. The cut	ting-edge is broad	d and curved and rises in a		
	crinoline fashion to the	blade-tang junct	ion. The tang has a		
	rectangular cross-sect	ion and tapers to	a point.		
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	100%	100% Details Complete.			
Dimensions (mm)	L.44.43; W.17.92; Th.2.81; Wt.6.44g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Prepared and used. The object appears to have been worked and				
	was likely used in antiquity. It is slightly bowed and the cutting-edge				
	is worn and slightly asymmetrical, which are all features like to be				
	the result of use.				
Damage	None other than a slight bowing/transverse bending of the overall				
	object, which could be relate to use or post-depositional warping.				

PAS-F109 Chickerell I

Grid Ref.	SY 64	81*	Altitude (m)		-
		[
Dryland		Wet	tland		Uncertain
Find circumstances	Two gold neckrings were found while metal-detecting in 1999 in a ploughed field. The rings were "interlinked but not 'nested', 18-20 inches below ground surface, in clay" (Woodward 2000, 145).				tecting in 1999 in a not 'nested', 18-20 ard 2000, 145).
Reference(s)	Knight et al. 2015, 49, No.224; Treasure Annual Report 1998-9, 12- 13, No.7, Fig.7; P.J. Woodward 2000; 2002.				
Additional Notes	The fir grid re Other also be	ndspot lay in a v ference is not do material from th een recovered fi	dspot lay in a valley, above the spring line, though the erence is not described in any of the references. naterial from the Neolithic to the Romano-British period		ne, though the exact erences. no-British period has nics, pottery and

Romano-British metalwork and coins. Further investigation of the
site through aerial survey, magnetometry and test-pitting revealed a
possible hut and terrace, dated to the Late Bronze Age/Early Iron
Age via pottery. Later excavations identified a triple ring monument constructed in the Late Neolithic/Early Bronze Age, which was
incorporated into the later Bronze Age hut and terrace. It is possible
the neckrings were deposited as part of the occupation.

PAS-F109a

Object Type and	Gold neck ring.			
Description	This is a gold penannular ring with a thick, crescentic section and			
	trumpet-shaped termin	als with circular f	flat ends.	
Location	DCM	Period	Late Bronze Age	
Completeness	100% Details Complete.			
Dimensions (mm)	Ext.Diam.192; W.26; Wt.716.34g.			
Patina/Corrosion	Gold.			
Manufacture/Use	Prepared – possibly unfinished. The neckring appears to be largely finished, but they are hammer marks on the inside and casting flaws			
	on the outside, indicating this may be unfinished.			
Damage	None.			

PAS-F109b

Object Type and	Gold neck ring.				
Description	This is a gold penannular ring with a concave D-shaped section and				
_	trumpet-shaped termin	als with circular f	lat ends.		
Location	DCM	Period	Late Bronze Age		
Completeness	100%	Details	Complete.		
Dimensions (mm)	Ext.Diam.172; W.14; Wt.399.91g.				
Patina/Corrosion	Gold.				
Manufacture/Use	Prepared – possibly unfinished.				
Damage	The neckring is slightly distorted, which is likely the result of plough				
	damage.				

PAS-F110 Chickerell II

Grid Ref.	SY 65	85	Altitude (m)		54
Dryland		Wetland			Uncertain
Find circumstances	Three fragments of three different socketed axes were found while metal-detecting in 2014 on cultivated land. Their exact relationship to each other is uncertain (e.g. a closed deposit or a scatter).			es were found while eir exact relationship it or a scatter).	
Reference(s)	PAS DOR-A0720E; 2014 T960.				
Additional Notes	It seen spearh submit	ns these pieces nead pieces fron tted as two sepa	were found in th n Chickerell (PA arate treasure ca	e same S-F111) ses.	field or nearby the , but these were

PAS-F110a

Object Type and	Socketed axe - type u	Socketed axe – type uncertain.				
Description	This is a mouth fragment of a socketed axe with a single collar					
Location	Finder	Finder Period Late Bronze Age				
Completeness	0-25% Details Rim fragment.					
Dimensions (mm)	L.22.66; W.14.9; Th.4.1; Wt.5.3g.					
Patina/Corrosion	Green/brown patina.					
Manufacture/Use	Difficult to tell due to incompleteness, but the remains of a casting					
	seam is visible.					
Damage	This is a fragment of the socket mouth of a socketed axe, broken in					
	antiquity; no associate	antiquity; no associated marks or casting flaws.				

PAS-F110b

Object Type and	Socketed axe - type u	Socketed axe – type uncertain.			
Description	This is a fragment of the mouth and plain upper body of a socketed				
	axe with a double colla	ar moulding; the u	pper moulding is thicker.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	25% Details Rim and upper body			
			fragment.		
Dimensions (mm)	L.39.39; W.26.41; Th.6.46; Wt.24.77g.				
Patina/Corrosion	Pale green patina.				
Manufacture/Use	Difficult to tell due to incompleteness, but the remains of a casting				
	seam is visible.				
Damage	This is a fragment of the socket mouth and upper body of a socketed				
	axe, broken in antiquit	axe, broken in antiquity; no associated marks or casting flaws.			

PAS-F110c

Object Type and Description	Socketed axe – type uncertain. This is a mouth fragment of a socketed axe with a double collar moulding.				
Location	Finder	Finder Period Late Bronze Age			
Completeness	0-25% Details Rim fragment.				
Dimensions (mm)	L.26.72; W.15.09; Th.4.75; Wt.7.24g.				
Patina/Corrosion	Brown patina.				
Manufacture/Use	Difficult to tell due to incompleteness, but the remains of a casting seam is visible.				
Damage	This is a fragment of the socket mouth of a socketed axe, broken in antiquity; no associated marks or casting flaws.				

PAS-F111 Chickerell III

Grid Ref.	SY 65	85	Altitude (m)		54
${\bf \triangleleft}$					
Dryland		Wetland			Uncertain
Find circumstances	Two pi detecti the two	vieces of spearhead were found associated while metal- ting 2014 on cultivated land. The exact relationship between to pieces is unclear.			ed while metal- Plationship between
Reference(s)	PAS DOR-A094DD; 2014 T961.				
Additional Notes	It seems these pieces were found in the same field or nearby the socketed axe fragments from Chickerell (PAS-F110), but these were submitted as two separate treasure cases.				

PAS-F111a

Object Type and	Basal-looped spearhea	ad (Type 8?)		
Description	This is the lower blade and socket of a basal-looped spearhead with narrow basal loops. Although incomplete, the blade was probably leaf-shaped. The socket is circular and tapers up to the base of the blade. The PAS records notes that this spearhead is in two pieces, but the two separate pieces cannot be observed on the photo.			
Location	Finder	Period	Taunton-Penard	
Completeness	0-25%	Details	Lower blade and socket,	
			possibly in two pieces.	
Dimensions (mm)	L.96.39; Wt.61.84g.			
Patina/Corrosion	Brown patina, patches of corrosion.			
Manufacture/Use	Prepared and possibly used. The casting material has been			
	removed and prepared, though signs of use and preparation of the			
	blade are difficult to identify.			
Damage	This spearhead has br antiquity. There are no	oken unevenly a associated mark	cross the lower blade in (s or visible casting flaws.	

Part of the socket has fractured and partially cracked. The cause of
this is unclear.

PAS-F111b

Object Type and	Spearhead – type uncertain.			
Description	This is a tip fragment of a spearhead with a broad midrib and wide			
	blade wings. Further d	iagnostic features	s are not present.	
Location	Finder	Period	Middle-Late Bronze Age	
Completeness	0-25% Details Tip fragment.			
Dimensions (mm)	L.25.98; W.17.21; Th.6.45; Wt.5.13g.			
Patina/Corrosion	Green patina.			
Manufacture/Use	Difficult to tell due to incompleteness, though the tip seems to be			
	sharp.			
Damage	This is a tip fragment broken unevenly from the upper blade of a			
	spearhead in antiquity. There are no associated marks or visible			
	casting flaws.			

PAS-F112 Compton Abbas II

Grid Ref.	ST 86	18	Altitude (m)		-
		[\checkmark
Dryland		Wet	land		Uncertain
Find airoumstances	A spea	rhead fragment	was found while	e metal-	detecting in 2006 on
Find circumstances	cultiva	ted land.			-
Poforonco(s)	Davis 2012, 107, No.673, Pl.37; Knight et al. 2015, 50, No.238; PAS				015, 50, No.238; PAS
Reference(S)	SOMD	OR-33F9A1.			
Object Type and	Side-lo	oped spearhea	d (Gr.6)		
Description	This is	an incomplete f	ragment of a sid	e-loope	d spearhead with the
	remains of the blade-socket junction and the upper stumps of the				
	side-loops. The surviving socket is circular and tapers towards the				
	base o	f the blade, thou	ugh there are no	further	diagnostic features. It
	is indic	ative of a group	6 spearhead.		
Location	Finder		Period	Taunt	ton-Penard
Completeness	0-25%		Details	Uppe	r socket fragment.
Dimensions (mm)	L.41.7	; W.14.94; Th.13	3.51; Wt.12.61g.		
Patina/Corrosion	Dark g	reen patina.			
Manufacture/Use	Difficu	t to tell due to ir	completeness, b	out the c	casting material
	appea	rs to have been	removed and pre	epared.	
Damage	This spearhead has broken unevenly at the blade-socket junction				
	and across the socket through the side-loops in antiquity. While the				
	break	across the blade	e is relatively stra	aight, the	e break through the
	socket	is stepped and	there are protruc	ding sec	tions of metal. There
	are no	associated mar	ks or casting flav	NS.	

PAS-F113 Compton Abbas III

Grid Ref.	ST 86	18	Altitude (m)		-
		[\checkmark	
Dryland		Wetland		Uncertain	
Find circumstances	A sock	ocketed axe fragment was found while metal-detecting in 2006			
T ind circumstances	on cult	on cultivated land.			
Reference(s)	Knight	inight et al. 2015, 50, No.239, Pl.24; PAS SOMDOR-F9B3B8.			MDOR-F9B3B8.
Object Type and	Socketed axe – type uncertain.				
Description	This is	This is a lower blade fragment of a socketed axe with a flared			ke with a flared
_	cresce	crescentic cutting-edge. There are no further diagnostic features.			
Location	Finder		Period	Late E	Bronze Age
Completeness	0-25%		Details	Cutting-edge fragment.	

Dimensions (mm)	L.32.63; W.59.23; Wt.89.96g.
Patina/Corrosion	Dark green patina.
Manufacture/Use	Prepared and possibly used. The cutting-edge appears to have been hammered and worked and the cutting-edge is slightly uneven with small dents and chips, which could be related to use.
Damage	This cutting-edge has broken unevenly across the socket aperture in antiquity. There are no associated marks or casting flaws.

PAS-F114 Compton Abbas IV

Grid Ref.	ST 86	18	Altitude (m)		
\checkmark					
Dryland		Wet	tland		Uncertain
Find circumstances	A chis	el was found wh	ile metal-detecti	ng in 20	04 on cultivated land.
Reference(s)	Knight	et al. 2015, 50,	No.240, Pl.30; F	PAS SO	MDOR-C4C660.
Object Type and	Bar ch	isel.			
Description	This is	a narrow, slend	ler copper alloy	bar with	a rectangular profile
	that ta	pers to a flat, sli	ghtly curved edg	je at one	e end. On the flat sides
	a groo	ve runs along th	e object, which	is centra	l on one side, but
	offset	to one side on th	ne other, creating	g a triang	gular profile. It is
	similar	in form to some	e Bronze Age ch	isels fror	m Norfolk, though
	precise	e parallels are u	ncertain.	-	
Location	Finder		Period	Bronz	ze Age
Completeness	100%		Details	Comp	olete.
Dimensions (mm)	L.53.52; W.6.02; Th.4.4; Wt.7.66g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Prepared and possibly used. This object appears to have been				
	worke	d for use and the	e chisel end see	ms worn	, indicating use.
Damage	None.				

PAS-F115 Compton Abbas V

Grid Ref.	ST 86	18 Altitude (m)			-
Dryland		Wetland			Uncertain
Find circumstances	A chise	el was found wh	ile metal-detecti	ng in 20	08 on cultivated land.
Reference(s)	PAS D	OR-BFD933.			

Object Type and	Tanged chisel.			
Description	This is a chisel with a slender rectangular-section tang that expands			
	with concave sides to a broad triangular blade with a damaged			
	cutting-edge. There is	no collar or stop	present.	
Location	Finder	Period	Late Bronze Age	
Completeness	76-99%	Details	Damaged cutting-edge.	
Dimensions (mm)	L.64.35; W.20.38; Th.1	1.01; Wt.10.11g.		
Patina/Corrosion	Mottled green/grey cor	rosion.		
Manufacture/Use	Difficult to tell, but possibly used.			
Damage	The cutting-edge of this chisel has suffered uneven material loss,			
	possibly in antiquity. There are no associated marks or visible			
	casting flaws so it is difficult to know how to attribute this damage.			
	The PAS record notes	this object is "cu	rved", which could be use-	
	related or the result of	post-depositiona	l processes.	

PAS-F116 Fontmell Magna

Grid Ref. ST 86 18 centred)		8 (village	Altitude (m)	-
		E]	\checkmark

Dryland Wetland		Uncertain		
Find circumstances	A gold strip was found while metal-detecting in 2002.			
Reference(s)	Knight et al. 2015, 50, No.244; PAS 2003 T30; Treasure Annu Report 2003, 16, No.1, Fig.1.			

Object Type and	Gold ornament.				
Description	This is a small fragment of a narrow gold strip with multiple				
-	embossed longitudina	I ribs running alor	ng the strip. One original		
	squared-off terminal su	urvives. Compara	able examples are known		
	north-west Europe.	·	•		
Location	DCM	Period	Bronze Age		
Completeness	0-25%	Details	Strip fragment.		
Dimensions (mm)	L.39; W.10.2; Th.0.2; Wt.1.7g.				
Patina/Corrosion	Gold.				
Manufacture/Use	Prepared and possibly used. The object has clearly been finely				
	made.				
Damage	One end of the strip has been torn or broken from the rest of the				
_	object and has suffere	d some thinning,	possibly from hammering.		
	This has caused some	e deformation in t	he form of the strip.		

PAS-F117 Frampton I

Grid Ref.	SY 63	96 Altitude (m)			117
Dryland		Wet	tland		Uncertain
Find circumstances	A sock on cult	ocketed axe fragment was found while metal-detecting in 2016 cultivated land.			al-detecting in 2016
Reference(s)	PAS WILT-004CC7.				
Additional Notes	Between 2015 and 2016, six objects (PAS-F117-122) have been recovered from across two fields separated by a road with the furthest two finds being 500m apart. All objects date broadly to the Middle-Late Bronze Age. It is possible they constitute a scatter or a dispersed assemblage.				17-122) have been a road with the s date broadly to the nstitute a scatter or a

Object Type and Description	Socketed axe – type uncertain. This is a lower blade fragment of a socketed axe with a broad.				
	crescentic cutting-edge	e. There are no fu	urther diagnostic features.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25% Details Cutting-edge fragment.				
Dimensions (mm)	L.14.4; W.45.95; Wt.18	5.4g.			
Patina/Corrosion	Dark green patina.				
Manufacture/Use	Prepared and possibly used. The cutting-edge appears to have been				
	hammered and worked and the cutting-edge is slightly uneven with				
	small dents and chips, which could be related to use.				
Damage	This cutting-edge has broken unevenly across the socket aperture in				
	antiquity. There are no associated marks or casting flaws.				
	Breakage: W.43.1; Th	.6.25.	-		

PAS-F118 Frampton II

Grid Ref.	SY 63	96	Altitude (m)		108
Dryland		Wetland		Uncertain	
Find circumstances	A copper alloy arrowhead was found while metal on cultivated land.				tal-detecting in 2016
Reference(s)	PAS WILT-8171F0.				
Additional Notes	See PAS-F117.				

Object Type and	Barbed and tanged arrowhead.			
Description	This is a copper alloy barbed and tanged arrowhead, with a very low			
-	midrib, creating a low	ozenge-section.		
Location	Finder	Period	Penard	
Completeness	76-99%	Details	Damage to tang.	
Dimensions (mm)	L.26.85; W.19.2; Th.2; Wt.2.54g.			
Patina/Corrosion	Grey/green patina.			
Manufacture/Use	Prepared and possibly used. The casting material has been removed and the damage to the tang may have occurred through use.			
Damage	There is some minor material loss to the tang of this arrowhead, which appears to have occurred in antiquity. There are no associated marks or casting flaws.			

PAS-F119 Frampton III

Grid Ref.	SY 63	96	Altitude (m)	11	11
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A socketed gouge was found while metal-detecting in 2016 on cultivated land.			ng in 2016 on	
Reference(s)	PAS WILT-FF82BC.				
Additional Notes	See PAS-F117.				

Object Type and	Class I socketed gouge.				
Description	This is a socketed gouge with a circular, flat-topped socket. The				
	sides are straight and	slightly tapering to	owards a straight cutting-		
	edge with a kidney-shaped section.				
Location	Finder	Finder Period Ewart Park			
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.47.91; Bl.W.9; Sock.Diam.Ext.13.4; Wt.19.58g.				
Patina/Corrosion	Mottled green patina.				
Manufacture/Use	Prepared and possibly used. The casting material has been removed and prepared and the cutting-edge is slightly abraded, which could be linked to use.				
Damage	None.				

PAS-F120 Frampton IV

Grid Ref.	SY 63	96	Altitude (m)		94
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A socketed axe fragment was found while metal-detecting in 2015 on cultivated land.				
Reference(s)	PAS WILT-6416A6.				
Additional Notes	See PAS-F117.				

Object Type and	Ribbed socketed axe – type uncertain.			
Description	This is a mouth fragment of the corner of a socketed axe with a thick single collar mould that steps onto the body. There is the remains of			
	a single vertical rib visible, which was likely one of three. The corner			
	indicates this was a sub-rectangular socket.			
Location	Finder	Period	Late Bronze Age	
Completeness	0-25%	Details	Socket fragment.	
Dimensions (mm)	L.24.4; W.33.77; Th.5.53; Wt.13.54g.			
Patina/Corrosion	Pale grey/green patina.			
Manufacture/Use	Difficult to tell due to incompleteness, but the socket mouth seems to			
	have been prepared and a casting seam is visible, but seems to			
	have been filed down.	Ū		

-	
Damage	I his is a socket and rim fragment broken down two edges in
5	antiquity. There are no consisted marks or conting flows
	antiquity. There are no associated marks or casting haws.

PAS-F121 Frampton V

Grid Ref.	SY 63	96	Altitude (m)		110
\square					
Dryland		Wetland		Uncertain	
Find circumstances	A palstave piece was found while metal-detecting in 2015 on cultivated land.				
Reference(s)	PAS WILT-B88605.				
Additional Notes	See PAS-F117.				

Object Type and	Paletava type upgortain					
Object Type and	Paistave – type uncertain.					
Description	This is a narrow, undecorated blade of a palstave, with a slightly					
	expanded were and re	unded outting od	a lt is possible this			
	expanded worn and ro	unded culling-ed	ge. It is possible this			
	belonged to a later for	m of palstave, po	ssibly a Transitional type.			
Location	Finder	Period	Middle Bronze Age			
Completeness	26-50%	Details	Lower blade.			
Dimensions (mm)	L.43.68; BI.W.26.58; W	L.43.68; Bl.W.26.58; Wt.37.31g.				
Patina/Corrosion	Pale green patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been					
	removed and prepared, and the cutting-edge is asymmetrical and					
	worn which could be use-related					
Damaga	This paletave has broken across the upper blade below the stop					
Damaye	This paistave has broken across the upper blade below the stop					
	ridge in antiquity. There are no associated marks or visible casting					
	flaws.					
	Breakage: W.18.9: Th.8.75.					

PAS-F122 Frampton VI

Grid Ref.	SY 63	96	Altitude (m)	94	
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	A chisel fragment was found while metal-detecting in 2015 on cultivated land.				
Reference(s)	PAS WILT-BCBB58.				
Additional Notes	See PAS-F117.				

Object Type and	Chisel – type uncertain.				
Description	This is a chisel blade fragment, roughly trapezoidal in plan and with				
	a broadly oval cross-se	ection. Part of the	straight cutting-edge		
	survives, but none of the probable tang.				
Location	Finder	Finder Period Middle-Late Bronze Ag			
Completeness	0-25%	Details	Blade fragment.		
Dimensions (mm)	L.33.35; W.45.6; Th.4.9; Wt.26.15g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Difficult to tell due to incompleteness, but the cutting-edge seems to				
	have been hammered thin.				
Damage	The upper blade and one blade tip have broken away, presumably in				
	antiquity. There are no	associated mark	s or casting flaws.		

PAS-F123 Gussage All Saints II

Grid Ref.	SU 00	10 Altitude	(m)	69
\checkmark				
Dryland		Wetland		Uncertain
Find circumstances	A gold cultiva	sheet fragment was found while metal-detecting in 2013 on ted land.		detecting in 2013 on

Reference(s)	PAS DOR-AC5494, 2013 T428.

Object Type and Description	Gold sheet. This is a roughly ogival fragment of gold sheet or ribbon with the seemingly original long sides tapering to a rounded terminal. This object has no definite parallels, but the composition and form is				
	broadly conducive with	n a Bronze Age da	ate.		
Location	BM	Period	Bronze Age		
Completeness	0-25%	Details	Ribbon fragment.		
Dimensions (mm)	L.35; W.11; Th.0.5; Wt.1.82g.				
Patina/Corrosion	Gold.				
Manufacture/Use	Difficult to tell but hammered out and roughly prepared.				
Damage	This strip has broken from a larger object, possibly in antiquity. The				
	overall strip is creased and distorted, which may indicate prehistoric damage, or the effect of post-depositional processes.				

PAS-F124 Iwerne Courtney (or Shroton)

Grid Ref.	ST 85	13 Altitude (m)			69
$\overline{\mathbf{A}}$					
Dryland		Wet	land		Uncertain
Find circumstances	A shor	t-flanged axe wa	ecting in 2013 on		
Find circumstances	cultiva	ted land.			
Reference(s)	PAS D	DOR-5D7F46.			
Additional Notes	This fir and the all lie v finds c	ndspot lies close e five objects re vith an adjacent an be broadly d	e to the parish bo corded from the field and are all ated to the Midd	oundary latter pa within 7 le Bronz	with Iwerne Minster Irish (PAS-F125-129) 00m of each other. All re Age.

Object Type and	Early short-flanged axe.				
Description	This is an axe with leaf-shaped flanges extending past a low sloping				
_	stop ridge and onto the	e upper blade. Th	ere is a side knob on each		
	side of the stop. The c	utting-edge is flar	ed and crescentic.		
Location	Finder	Period	Acton Park		
Completeness	76-99%	Details	Minor butt damage.		
Dimensions (mm)	L.129.12; Bl.W.53.11; Wt.295g.				
Patina/Corrosion	Reddish-brown patina.				
Manufacture/Use	Prepared and possibly used. The casting material has been				
	removed and prepared and the cutting-edge seems to have been				
	worked and bevelled. There are small chips along the edge which				
	appear to be indicators of use-damage.				
Damage	This palstave is complete apart from some minor material loss at the				
-	butt, which could be use-related or the result of post-depositional				
	effects.				

PAS-F125 Iwerne Minster I

Grid Ref.	ST 85	13	Altitude (m)		62
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A pals	tave was found while metal-detecting in 2013.			
Reference(s)	Knight	ight et al. 2015, 54, No.265, Pl.18; PAS DOR-8D4C40.			
Additional Notes	Five ol 2013 a close t 700m	jects have been found within the sa nd 2017 (PAS-F125-129), as well as the parish border (PAS-F124). All stretch and broadly date to the Midd		e same ell as fin . All of th /liddle B	field area between d in Iwerne Courtney nese finds fall within a ronze Age.

Object Type and	Transitional palstave.
Description	This is a narrow-bladed, looped palstave with low flanges rising from
	the septum below the butt to the height of the stop. The stop is sub-

	rectangular and steeply descends to the upper blade, which is adorned by a single midrib, which extends about halfway down. The blade is triangular and expands to a straight cutting-edge. A side- loop sits above the stop.				
Location	Finder	Period	Penard		
Completeness	100% Details Complete.				
Dimensions (mm)	L.175.88; Bl.W.48.88; Bl.Th.17.85; Wt.537g.				
Patina/Corrosion	Dark green patina.				
Manufacture/Use	Prepared. The casting material has been removed and prepared.				
	There are no signs of use.				
Damage	None.				

PAS-F126 Iwerne Minster II

Grid Ref.	ST 85	14	Altitude (m)		62
₹ I					
Dryland		Wetland		Uncertain	
Find circumstances	A pals below	palstave was found while metal-dete elow the surface on cultivated land.		ecting in	2012 less than 25cm
Reference(s)	PAS DOR-727748.				
Additional Notes	See P	AS-F125.			

Object Type and	Gr.I palstave.				
Description	This is an unlooped palstave with low, leaf-shaped flanges that				
	extend past a low stop	ridge to form a L	J-rib on the upper blade,		
	which then extends as	a low midrib. The	e blade is broad and flares to		
	a crescentic cutting-ec	ge.			
Location	Finder	Period	Acton Park		
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.151.22; Bl.W.65.06; Wt.420g.				
Patina/Corrosion	Brown patina.				
Manufacture/Use	Prepared and used. The casting material has been prepared and				
	largely removed. Hammer marks are visible on the cutting-edge,				
	creating a bevel on both faces and the cutting-edge is asymmetrical				
	suggesting wear and resharpening.				
Damage	None.				

PAS-F127 Iwerne Minster III

Grid Ref.	ST 85	14	Altitude (m)		63
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	Two sp	Two spearhead pieces were found whi		ile meta	-detecting in 2017.
Reference(s)	PAS DOR-029EBA.				
Additional Notes	See P	AS-F125.			

Object Type and	Side-looped spearhead (Type 6D)					
Description	This is two refitting pieces of an ogival-bladed spearhead with a					
-	side-looped socket. Th	ne blade has a pro	ominent midrib creating a			
	lozenge-section and th	ne socket is circul	ar. The side-loops are small			
	and narrow. There app	pears to be some	wood surviving in the socket.			
Location	Finder	Period	Taunton-Penard			
Completeness	76-99%	Details	Mostly complete in two			
		refitting pieces.				
Dimensions (mm)	L.149.7; Bl.W.26.2; Th.12.1; Wt.42.86g.					
Patina/Corrosion	Olive green patina with patches of green corrosive build-up.					
Manufacture/Use	Prepared and used. The casting material has been removed and					
	prepared and the blade edges have been hammered and bevelled.					
	There are a series of notches and chips in the blades edges, which					
	are likely a combination of use-damage and post-depositional					

	processes. The break reveals that the spear was well-cast, and the wood still in the socket shows it was hafted.
Damage	The spearhead has broken into two refitting pieces in antiquity across the blade-socket junction, which is the narrowest part of the spearhead. The socket mouth has also suffered uneven fragmentation. There are no associated marks or casting flaws, but the thin nature of the broken elements suggests this may have been accidental.

PAS-F128 Iwerne Minster IV

Grid Ref.	ST 85	5 14 Altitude (m)			62
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	Two sp	Two spearhead pieces were found while			-detecting in 2017.
Reference(s)	PAS DOR-DC23F5.				
Additional Notes	See P	AS-F125.			

Object Type and	Side-looped spearhead (Type 6B or 6C)				
Description	This is two refitting pieces of a flame-bladed spearhead with a side-				
• • •	looped socket. The bla	de has a circular	midrib and socket. The side-		
	loops are quite large.				
Location	Finder	Period	Taunton-Penard		
Completeness	76-99%	Details	Mostly complete in two refitting pieces.		
Dimensions (mm)	L.167.9; BI.W.27.52; T	h.11.43; Wt.69.0	7g.		
Patina/Corrosion	Dark brown patina.				
Manufacture/Use	Prepared and used. The casting material has been removed and prepared. There are a series of notches and chips in the blades edges, which are likely a combination of use-damage and post- depositional processes. The break reveals that the spear was well- cast.				
Damage	The spearhead has broken into two refitting pieces in antiquity just below the blade-socket junction, which is the narrowest part of the spearhead. One side-loop has also broken and is missing because of this break. There are no associated marks or casting flaws, but the thin nature of the broken element suggests this may have been accidental				

PAS-F129 Iwerne Minster V

Grid Ref.	ST 85	14	Altitude (m)	62	
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	A spearhead tip was found while metal-detecting in 2013 on				
This circuitstances	cultivated land.				
Reference(s)	PAS DOR-F3B877.				
Additional Notes	See PAS-F125.				

Object Type and Description	Spearhead – probably This is the tip and uppo original blade was prob ogival, and it was likely other two spearheads a prominent midrib, cre	side-looped (Typ er blade of a narr bably originally fla / socketed and si found nearby (PA eating a lozenge s	e 6) ow spearhead blade. The ame-shaped or possibly de-looped, similarly to the S-F128-129). The blade has section and flat blade wings.			
Location	Finder	Period	Taunton-Penard			
Completeness	0-25% Details Tip fragment.					
Dimensions (mm)	L.59.09; Wt.14.49g.					
Patina/Corrosion	Dark brown patina.					

Manufacture/Use	Difficult to tell due to incompleteness, but the blade edges have suffered some material loss, which could be use-related.
Damage	This is the tip of a spearhead broken across the upper blade in antiquity. There are no associated marks or casting flaws. Breakage : W.18.7; Th.9.04.

PAS-F130 Little Bredy

Grid Ref.	SY 59	988Altitude (m)		-	
				$\mathbf{\nabla}$	
Dryland		Wetland		Uncertain	
Find circumstances	Two palstaves were found while metal-detecting in 2009 on cultivated land.				
Reference(s)	Knight et al. 2015, 55, No.270, Pl.10; PAS DOR-FD23F7, DOR-FD33F3, 2009 T567.				

PAS-F130a

Object Type and Description	Gr.II palstave. This is an incomplete looped palstave with low, leaf-shaped flanges that extend past the rectangular stop and down the blade edges. The blade is triangular and expands to a slightly curved cutting- edge. A side-loop overlaps the stop ridge, and a midrib extends				
	down half the blade.				
Location	Finder	Period	Acton Park-Taunton		
Completeness	76-99%	Details	One blade tip missing.		
Dimensions (mm)	L.132.09; BI.W.47.23.				
Patina/Corrosion	Dark grey patina with patches of light green corrosion.				
Manufacture/Use	As-cast. The casting material is still prominent and this axe has been largely left unworked.				
Damage	One blade tip has brok	ken off either in a	ntiquity or post-deposition. It		
_	is now covered by cor	rosion.	· · ·		

PAS-F130b

Object Type and Description	Gr.III or South-western palstave. This is two refitting pieces of a looped, broad-bladed palstave. The flanges are too fragmentary to define their original shape, but the blade is broad and triangular with a midrib, indicating the palstave is a Gr.III or South-western type. Stumps of a side-loop sit above the sub-rectangular stop.				
Location	Finder	Period	Taunton-Penard		
Completeness	76-99%	Details	Two refitting pieces broken		
			across the flanges.		
Dimensions (mm)	L.139.69; BI.W.48.91.				
Patina/Corrosion	Dark grey patina with I	arge patches of li	ight green corrosion.		
Manufacture/Use	Prepared. The casting seams have been prepared but not completely removed. The palstave is too damaged to identify any signs of use. The break reveals that the palstave was poorly cast.				
Damage	The palstave has broken into two refitting pieces in antiquity across the flanges and the septum above the stop. The flanges have largely fragmented away and the cutting-edge and butt have suffered some material loss. It is likely the refitting break is the result of poor casting, while the other damages might be linked to post- depositional processes				

PAS-F131 Lyme Regis

Grid Ref.	SY 34 93	Altitude (m)		98
				\checkmark
Dryland		Wetland		Uncertain

Find circumstances	A flat axe piece was found while metal-detecting in 2013 on cultivated land.					
Reference(s)	Knight et al. 2015, 55,	No.273, Pl.14; P.	AS DEV-892904.			
Object Type and	Flat axe (Class 4)					
Description	This is the lower blade	of a broad flat a	ke, with diverging sides and a			
	curved cutting-edge.	curved cutting-edge.				
Location	Finder	Period	MA IV Aylesford			
Completeness	26-50%	Lower blade and cutting-				
-	edge.					
Dimensions (mm)	Uncertain.					
Patina/Corrosion	Green patina, pitted with corrosion.					
Manufacture/Use	Difficult to tell, but probably prepared for use.					
Damage	This axe has broken straight across the middle of the axe in					
	antiquity. There are no	associated mark	s, but the casting appears to			
	be uneven.					

PAS-F132 Maiden Newton

Grid Ref.	SY 59	97	Altitude (m)		-
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A sock	A socketed axe fragment was found while metal-detecting in 2007.			
Reference(s)	Knight	(night et al. 2015, 55, No.274; PAS SOM-6D7E72.			

Object Type and	Socketed axe – type uncertain.				
Description	This is the lower blade of a thin socketed axe with straight expanding				
-	sides and a straight cu	utting-edge. It is p	ossible this belongs to a		
	Type Portland axe. Th would support this.	e patina appears	to be slightly silvery, which		
Location	Finder	Period	Late Bronze Age-Early Iron		
			Age		
Completeness	0-25%	Details	Cutting-edge fragment.		
Dimensions (mm)	L.32.3; Bl.W.32.9; Wt.12.8g.				
Patina/Corrosion	Murky green, possibly silvery patina.				
Manufacture/Use	Difficult to tell, but the axe appears to be unprepared, with the				
	remains of casting seams still visible down the sides.				
Damage	This axe has broken unevenly across the lower body, above the				
_	socket aperture, in antiquity. There are no associated marks or				
	casting flaws.				
	Breakage: Th.8.6.				

PAS-F133 Milborne St. Andrew II

Grid Ref.	SY 79	96	Altitude (m)	104	
Dryland		Wet	land	Uncertain	
Find circumstances	A gold ring was found while metal-detecting in 2015 on cultivated land.				
Reference(s)	PAS D	OR-0A6139, 20	15 T809.		
Object Type and	Gold ring-money.				
Description	This is a small gold penannular ring with striped banding. It has a circular section and the terminal ends are flat.				
Location	Finder		Period	Late Bronze Age	
Completeness	100%	Details Complete.			
Dimensions (mm)	Diam.Ext.15.69x14.96; Th.5.36; Wt.10.3g.				
Patina/Corrosion	n/a				
Manufacture/Use	Prepared and possibly used.				
Damage	None.				

PAS-F134 Minterne Magna

Grid Ref.	ST 65	04	Altitude (m	ו)	161	
\square						
Dryland		Wetland			Uncertain	
Find circumstances	A dirk fragment was found while metal-detecting in 2003 on cultivated land.					
Reference(s)	Knight et al. 2015, 56, No.279, PI.26; PAS SOMDOR1737.					
Additional Notes	This object is only drawn – there is no photo.					

Object Type and	Dirk?	Dirk?				
Description	This is an upper blade piece of a narrow blade with a notched hilt					
-	tang. It is considered a dirk on the PAS record.					
Location	Finder	Finder Period Middle Bronze Age				
Completeness	26-50%	Details	Upper blade.			
Dimensions (mm)	L.42.77; W.17.81; Th.3.05; Wt.8.61g.					
Patina/Corrosion	Unknown.					
Manufacture/Use	Difficult to tell.					
Damage	This blade has broken across the upper blade, possibly in antiquity.					
_	The drawing does not	depict any assoc	iated marks or casting flaws.			

PAS-F135 Nether Compton

Grid Ref.	ST 60	16 Altitude (m)			48
${\bf \overline{\Delta}}$					
Dryland		Wetland			Uncertain
Find circumstances	A razo	razor was found while metal-detecting in 2006 on cultivated land.			6 on cultivated land.
Reference(s)	Knight et al. 2015, 56, No.281, Pl.29; PAS SOMDOR-123F91.				

Object Type and Description	Ha C razor. This is a crescent shaped single-edged blade with a thicker back edge, tapering to a thinner cutting-edge. There is a hole in each corner of this back edge. This razor is typically of Hallstatt C and can be considered to straddle the Late Bronze Age-Farly Iron Age period			
Location	Finder	Period	Late Bronze Age-Early Iron	
Completeness	100%	Details	Complete.	
Dimensions (mm)	L.21.95; W.61.86; Th.2	2.95; Wt.14.31g.		
Patina/Corrosion	Dark brown patina, pitted with corrosion.			
Manufacture/Use	Prepared and used. The blade has been sharpened and is abraded,			
	partly by corrosion, but some of the damage could be use-related.			
Damage	None.			

PAS-F136 Near Poole, Lytchett Minster and Upton

Grid Ref.	SY 96	94	Altitude (m)		24
					\square
Dryland		Wetland		Uncertain	
Find circumstances	A palstave was found while metal-detecting in 2013 on cultivated land.				
Reference(s)	Knight et al. 2015, 61, No.338, Pl.18; PAS DOR-27AD88.				

Object Type and	Gr.I palstave.
Description	This is an unlooped palstave with high flanges that rise from the butt
	above the height of the stop and descend to the blade. There is a
	shallow depression below a sub-rectangular stop. The blade is broad

	and very crescentic, leading Dr. Dot Boughton to suggest it may have Continental affinities. It appears to be an earlier form.					
Location	Finder Period Middle Bronze Age					
Completeness	100% Details Complete.					
Dimensions (mm)	L.126.09; Bl.W.54.29; Wt.537g.					
Patina/Corrosion	Mottled green patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been					
	removed and prepared.					
Damage	None.					

PAS-F137 Near Sherborne, Castleton

Grid Ref.	ST 64	16	Altitude (m)		-
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A torc fragment was found while metal-detecting in 2011 on cultivated land.				
Reference(s)	Burnett 2013, 194; Knight et al. 2015, 57, No.291, Pl.26; PAS SOM- 5E0AB6.				

Object Type and Description	Ribbon twisted torc. This is a fragment of a copper alloy twisted ribbon, bent into a					
-	crescent forming part of a neck ring or bracelet.					
Location	Finder	Finder Period Taunton				
Completeness	0-25% Details Fragment.					
Dimensions (mm)	L.64.8; W.8; Th.2; Wt.8.28g.					
Patina/Corrosion	Dark brown patina.					
Manufacture/Use	Prepared and possibly used. This ribbon has been twisted and bent					
	into shape, presumably for use.					
Damage	This fragment has broken at both ends across the ribbon twists in					
	antiquity. There are no	associated mark	s or casting flaws.			

PAS-F138 Okeford Fitzpaine

Grid Ref.	ST 80	13 Altitude (m)			-
				\checkmark	
Dryland		Wetland		Uncertain	
Find circumstances	A sword fragment was found while metal-detecting in 2006 on cultivated land.				
Reference(s)	Knight et al. 2015, 56, No.282; PAS SOMDOR-E38574.				

Object Type and	Sword – poss. Ewart F	Sword – poss. Ewart Park.				
Description	This is a mid-blade fragment of a sword, with a biconvex section,					
	though no evidence of	bevelled edges.				
Location	Finder	Finder Period Late Bronze Age				
Completeness	0-25%	Details	Mid-blade fragment.			
Dimensions (mm)	L.44.9; W.26.9; Th.5.9; Wt.32.3g.					
Patina/Corrosion	Mid-dark green patina in patches, with corrosion causing surface					
	delamination.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This sword has broken at both ends in antiquity, with consistent					
_	patination, and the over	erall piece is trans	sversely bowed slightly.			

PAS-F139 Osmington

Grid Ref.	SY 72 8	83	Altitude (m)	53
		Γ		
Dryland		Wetland		Uncertain

	A gold ring was found	while metal-deter	cting in 2015 on cultivated		
Find circumstances		while metal detec			
	land.				
Reference(s)	PAS DOR-18E227, 2013 T383.				
Object Type and	Gold ring-money.				
Description	This is a small gold penannular ring with striped banding. It has a				
-	circular section and the terminal ends are flat.				
Location	Finder	Finder Period Late Bronze Age			
Completeness	100%	Details	Complete.		
Dimensions (mm)	Diam.Ext.19.02x17.08; Th.6.45; Wt.9.6g.				
Patina/Corrosion	n/a				
Manufacture/Use	Prepared and possibly	used.			
Damage	None.				

PAS-F140 Overcompton

Grid Ref.	ST 59	16	Altitude (m)		-
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	Two socketed axe fragments were found nearby while metal- detecting in 2007. It is suggested that although they do not refit, to may have been part of the same axehead.			by while metal- they do not refit, they	
Reference(s)	Knight et al. 2015, 56, No.283; PAS SOM-6D0A27.			A27.	

PAS-F140a

Object Type and	Socketed axe – type uncertain.				
Description	This is a socket mouth and corner fragment of a socketed axe with a double moulded collar, with a thicker upper moulding. There is no				
	evidence for any ribs.				
Location	Finder Period Late Bronze Age				
Completeness	0-25%	Details	Socket fragment.		
Dimensions (mm)	L.42.3; W.28.5; Th.5.4; Wt.27.7g.				
Patina/Corrosion	Olive green patina.				
Manufacture/Use	Difficult to tell due to incompleteness, though the socket mouth				
	appears to have been prepared.				
Damage	This is a socket and rim fragment broken down two edges in				
	antiquity. There are no	associated mark	s or casting flaws.		

PAS-F140b

Object Type and Description	Socketed axe – type uncertain. This is a body fragment of a socketed axe, with a single rib visible. It has a similar thickness, patina and condition, which leads Ben			
	Roberts to suggest it w	vas one part of th	e same axe as PAS-F140a.	
Location	Finder Period Late Bronze Age			
Completeness	0-25% Details Body fragment.			
Dimensions (mm)	L.21.1; W.20.1; Th.4.1; Wt.5.7g.			
Patina/Corrosion	Olive green patina.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This is a body fragment of one face of a socketed axe, broken on all edges in antiguity. There are no associated marks or casting flaws.			

PAS-F141 Owermoigne

Grid Ref.	SY 76	85	Altitude (m)		66				
\checkmark									
Dryland		Wetland			Uncertain				
Find circumstances	A dago	dagger was found while metal-detecting in 2016.			016.				
Reference(s)	PAS D	DOR-E5B0C6.							

Camerton-Snowshill dagger (Series 5D)			
This is an incomplete dagger with a curved heel and a row of four			
rivet holes following the heel curve with two either side of the centre.			
Three of the four holes	are intact and th	e two central holes contain	
rivets in situ. There is a	an omega-shape	d hilt mark and three parallel	
lateral grooves extend	down the blade e	either side of a pointillé	
decorated midrib.		·	
Finder	Period	MA VI Arreton	
51-75%	Details	Lower blade missing and	
damage to the heel.			
L.100.05; H.W.50.9; Wt.97.95g.			
Olive green patina, with extensive green corrosion build-up.			
Prepared and used. The dagger was carefully decorated and			
presumably prepared for use, with the rivets and hilt mark indicating			
it was either deposited with a handle or the handle was removed			
before deposition.			
This dagger has broken across the middle of the blade in antiquity			
so the lower blade and tip are absent. Also, one corner of the heel			
has fragmented away. There are no associated marks visible, but			
the extensive corrosion down one side likely affected the			
fragmentation of the he	eel. Without viewi	ng the blade breakage, it is	
unclear what was the e	effect of this.		
	Camerton-Snowshill d This is an incomplete of rivet holes following th Three of the four holes rivets <i>in situ</i> . There is a lateral grooves extend decorated midrib. Finder 51-75% L.100.05; H.W.50.9; W Olive green patina, wit Prepared and used. Th presumably prepared a it was either deposited before deposition. This dagger has broke so the lower blade and has fragmented away. the extensive corrosion fragmentation of the he unclear what was the	Camerton-Snowshill dagger (Series 5DThis is an incomplete dagger with a current rivet holes following the heel curve with Three of the four holes are intact and the rivets <i>in situ</i> . There is an omega-shaped lateral grooves extend down the blade of decorated midrib.FinderPeriod51-75%DetailsL.100.05; H.W.50.9; Wt.97.95g.Olive green patina, with extensive green Prepared and used. The dagger was car presumably prepared for use, with the rit was either deposited with a handle or before deposition.This dagger has broken across the mide so the lower blade and tip are absent. A has fragmented away. There are no asset the extensive corrosion down one side I fragmentation of the heel. Without viewi unclear what was the effect of this.	

PAS-F142 Piddletrenthide

Grid Ref.	ST 73	4 00	Altitude (m)		142
Ø					
Dryland		Wetland			Uncertain
Find circumstances	A knife cultiva	fragment was found while metal-detectin ed land.		ing in 2005 on	
Reference(s)	Knight et al. 2015, 56, No.285, Pl.30; PAS SOMDOR-FFE225,				

Object Type and Description	Hog-back knife. This is a roughly triangular tip fragment of a triangular, perforated			
Description	knife (commonly called a hog-back knife). The remains of a central perforation are present in the form of a notch.			
Location	Finder	Period	Ewart Park	
Completeness	0-25%	Details	Tip fragment.	
Dimensions (mm)	L.31.31; Th.6.47; Wt.15.99g.			
Patina/Corrosion	Dark green patina with	green corrosion	build-up.	
Manufacture/Use	Prepared and possibly used. The edges are bevelled and were likely worked. There is little evidence of use-damage, but the knife was probably used and may have broken through usage.			
Damage	This is a fragment of one of the three tips of a hog-back knife, broken through the central perforation and two of the edges in antiquity. There are no associated marks or casting flaws.			

PAS-F143 Portesham I

Grid Ref.	SY 61	86	Altitude (m)		-
		[\checkmark
Dryland		Wet	land		Uncertain
Find circumstances	An aw	I was found while metal-detecting in 2003.			3.
Reference(s)	Knight	et al. 2015, 56,	No.287, Pl.29; P	AS SOI	M-B251B3.
Object Type and	Single-pointed awl.				
Description	This is	This is a rectangular section copper alloy bar, which tapers to a flat			which tapers to a flat
	tang a	g at one end and a conical point at the other.			
Location	Finder		Period	Middle	e-Late Bronze Age

Completeness	100%	Details Complete.			
Dimensions (mm)	L.51.2; W.6.2; Th.4.9; Wt.5.1g.				
Patina/Corrosion	Brown patina/corrosion.				
Manufacture/Use	Prepared and possibly used. The point is very worn and rounded,				
	indicating extensive use.				
Damage	None.				

PAS-F144 Portesham II

Grid Ref.	SY 63	86	Altitude (m)	172		
		[
Dryland		Wet	land	Uncertain		
	Two re	fitting pieces of	spearhead were	found at different t	imes while	
Find circumstances	metal-	detecting in 201	6 on cultivated la	nd. One piece has	been	
	treated	by the finder a	nd thus the patina	is different.		
Reference(s)	PAS D	OR-9A6EE6.				
Object Type and	Side-lo	oped spearhea	d (Type 6)			
Description	This is	an incomplete s	spearhead in two	refitting pieces, wi	th a	
	circula	r conical socket	, tapering to a lea	f or flame-shaped	blade.	
	Narrov	v lozenge-plate	side-loops are sit	lated about halfwa	ay along	
	the socket.					
Location	Finder		Period	Taunton-Penard		
Completeness	76-99%	6	Details	In two refitting pie	eces;	
				damage to blade	wings and	
		socket.				
Dimensions (mm)	L.139.68; W.22.04; Wt.85.67g.					
Patina/Corrosion	Dark green patina on the socket piece, while pale brown patina on					
Manual and an Alban	the upper piece, with patches of light green corrosion.					
Manufacture/Use	Prepared and possibly used. The casting material has been					
	removed and prepared, and it is possible that some of the damage					
	the socket which could be a casting flaw though see below					
Damage	The spearhead has broken into two refitting nieces in antiquity					
Damage	across the blade-socket junction, which is the narrowest part of the					
	spearhead. There are no associated marks in close proximity to the					
	break, and there is no photo of the break to assess casting flaws.					
	The socket mouth has also suffered uneven fragmentation, and the					
	blade edges are heavily deteriorated. The socket also has a hole in					
	one fa	ce, which could	be a casting flaw	but there is also a	a crack	
	extend	ing around the	socket, suggestin	g this may have be	en	
	damag	damage inflicted later.				

PAS-F145 Powerstock

Grid Ref.	SY 73	84 Altitude (m)	108	
\square				
Dryland		Wetland	Uncertain	
Find circumstances	A torc	c fragment was found while metal-detecting in 2014.		
Reference(s)	PAS D	PAS DOR-FACB19, 2014 T494.		

Object Type and Description	Flange-twisted torc. This is a small mid-section fragment of a gold, flange-twisted torc or bracelet, with three or four flanges.				
Location	Finder Period Taunton-Penard				
Completeness	0-25% Details Cut at both ends.				
Dimensions (mm)	L.26.26; W.9.78; Th.8.71; Wt.6.34g.				
Patina/Corrosion	Gold.				
Manufacture/Use	Prepared and possibly	used.			

Damage This is a mid-section piece	of torc, which has been deliberately cut at
both ends. One end in par chisel mark.	ticular is compressed shows a possible

PAS-F146 Poxwell

Grid Ref.	SY 73	84	Altitude (m)	108	
₹ I		Γ			
Dryland		Wet	land	Uncertain	
Find circumstances	A gold land.	A gold ring was found while metal-detecting in 2015 on cultivated land.			
Reference(s)	PAS D	OR-F80E39.			
Object Type and	Gold ring-money.				
Description	This is a small gold penannular ring with three broad bands of paler silver rich gold on the inner edge. It has a circular section and the terminal ends are flat.				
Location	Finder		Period	Late Bronze Age	
Completeness	100%		Complete.		
Dimensions (mm)	Diam.Ext.19.1x17.91; Th.6.06; Wt.8.8g.				
Patina/Corrosion	n/a				
Manufacture/Use	Prepared and possibly used.				
Damage	None.	None.			

PAS-F147 Rampisham

Grid Ref.	ST 55	02	Altitude (m)		144
\square		Γ			
Dryland		Wet	land		Uncertain
Find circumstances	A flang	jed axe was fou	nd while metal-c	letecting	j in 2016.
Reference(s)	PAS D	OR-28154A.			
Object Type and	Arretor	n axe (Class 5C	?)		
Description	This is a flanged axe with a long hafting end and straight diverging			nd straight diverging	
	sides. The butt is rounded with low flanges extending to the			ending to the	
	expans	sion of the blade	e to a broad cres	centic c	utting-edge.
Location	Finder		Period	MA V	I Arreton
Completeness	100%		Details	Comp	olete but worn.
Dimensions (mm)	L.96.19; Bl.W.43.64; Th.11.4; B.W.22; Wt.131.04g.				
Patina/Corrosion	Green patina, some surface pitting.				
Manufacture/Use	Prepared and used. The casting material has been removed and				
	prepared, and the cutting-edge is asymmetrical, indicating it has				
	been resharpened and reworked. There is no further evidence of use				
	howev	er.			
Damage	None.				

PAS-F148 Shillingstone

Grid Ref.	ST 84 09		Altitude (m)		132
				\checkmark	
Dryland		Wetland		Uncertain	
Find circumstances	Two rapiers were found at the same farm prior to 2003, though the finder is now deceased and exact details are not known.			to 2003, though the ot known.	
Reference(s)	PAS WILT-8CBFA4.				

PAS-F148a

Object Type and	Gr.III rapier.
Description	

	This is a fragmentary rapier in six refitting pieces, with a long slender					
	lozenge-section blade and an incomplete trapezoidal hilt with the					
	remains of two notches.					
	The fragments are labelled F148a.1-6, starting with the hilt fragment					
	and ending with the tip fragment.					
Location	Finder	Period	Taunton-Penard			
Completeness	76-99%	Details	Mostly complete but in six			
			refitting fragments.			
Dimensions (mm)	F148a.1: Sh.W.63.47 -	 further details n 	ot given.			
	F148a.2: L.129.16; W.	20.77; Th.7.37.				
	F148a.3: L.77.64; W.1	6.92; Th.6.51.				
	F148a.4: L.41; W.13.0	7; Th.5.43.				
	F148a.5: L.15.28; W.1	1.05; Th.5.15.				
	F148a.6: L.46.45; W.1	1.67; Th.5.19.				
Patina/Corrosion	Smooth dark green pa	tina on one face a	and heavily pitted rough Dark			
	green patina on oppos	ite face.				
Manufacture/Use	Prepared and possibly	used. The prese	nce of rivets indicates the			
	rapier was hafted, whil	e the surviving bl	ade edges appear to show			
	signs of hammering ar	nd bevelling. Altho	ough there is extensive			
	abrasion along the rap	ier edges, there a	appears to be several			
	notches and chips that	t could be use-rel	ated.			
Damage	This rapier has broken into six refitting fragments, which is a					
	combination of post-de	epositional proces	sses and intent causing			
	fragmentation. Only two breakages are noted as "old", but it is not					
	qualified what this means exactly. Here it is considered this refers to					
	ancient breaks.					
	Additionally, the blade edges have been damaged, probably as a					
	result of post-deposition	onal processes, a	nd the tip is deformed. Only			
	the damage that is not	the result of corr	osion is noted here.			
	Deformed tip: The tip	of the rapier has	a slightly longitudinal bend			
	(c.5 degrees) and the	edges are very u	nevenly, as though serrated.			
	The exact details are u	inclear, as is the	cause, but it could be the			
	result of burning or def	formation during u	use or breakage.			
	F148.2-3 Breakage: T	he rapier has bro	ken across the upper blade			
	in antiquity, which is po	ossibly deliberate	. Fragment F148.2 is			
	transversely curved alo	ong its length, wh	ich is likely linked to the			
	breakage.					
	F148.5-6 Breakage: V	v.11.67; Th.5.19.	I his is a break across the			
	lower blade, separating	g the tip from the	rest of the rapier. There are			
	no apparent associate	a marks, but it is	described as being an "old			
	break".					

PAS-F148b

Object Type and Description	Gr.III rapier. This is a fragmentary lower blade and tip of rapier in three refitting pieces, with a long slender blade. The blade has a prominent midrib with two flanking ribs, and a broadly lozenge-shaped section. The fragments are labelled F148b.1-3, starting with the mid-blade fragment and ending with the tip fragment					
Location	Finder	Period	Taunton-Penard			
Completeness	26-50%	Details	Lower blade in three refitting fragments.			
Dimensions (mm)	F148b.1: L.131.72; W.23.34; Th.7.29. F148b.2: L.135.66; W.21.17; Th.7.11. F148b.3: L.156.65; W.23.36: Th.11.86.					
Patina/Corrosion	Smooth dark green patina on one face and heavily pitted rough Dark green patina on opposite face.					
Manufacture/Use	Prepared and possibly rapier was hafted, thou be taken with this asse	used. The prese ugh the lack of a l essment. The sur	nce of rivets indicates the nilt indicates caution should viving blade edges appear to			

	show signs of hammering and bevelling, and there appears to be several notches and chips that could be use-related.
Damage	The rapier has broken into a minimum of four fragments, three of which surviving and are refitting. A photo of the uppermost breaks shows it is consistently patinated indicating it occurred in antiquity, though there are no associated marks or casting flaws. Only one of the breaks (F148b.2-3) is described as deliberate, while the other seems to be attributed to post-depositional or post-recovery processes. F148b.2-3 Breakage : The rapier has broken across the lower blade, separating the tip from the blade. The PAS records notes that the blade has "bent out of shape and snapped" at this point, indicating possible intent.

PAS-F148c

Object Type and Description	6 rivets. Six rivets survive loose with the rapiers, though it is unclear to which rapier they originally belonged. The rivet are cylindrical plug rivets, with hammered ends.				
Location	Finder	Period	Taunton-Penard		
Completeness	76-99%	Details	One broken, five complete.		
Dimensions (mm)	Max L.21.44; Max.Diam.19.21.				
Patina/Corrosion	Dark green and brown patina.				
Manufacture/Use	Prepared and used. These rivets were presumably used for securing				
	hafts onto the rapiers.				
Damage	One small rivet has an further details are prov	uneven ancient l	break at its terminal, but no his is use-related.		

PAS-F149 Sixpenny Handley

Grid Ref.	ST 96	14	Altitude (m)		-	
		[\checkmark	
Dryland		Wet	land		Uncertain	
Find circumstances	A gold sheet fragment was found by chance in 2006 on cultivated land.					
Reference(s)	Knight	et al. 2015, 57,	No.292; PAS SC	OMDOR	-635644, 2006 T514.	
Object Type and Description	Gold ornament. This is a small fragment of gold sheet, shaped into a tongue-shaped terminal at one end and torn at the other. Towards the end of the terminal, an off-centre perforation has been made, pushed through from one side. It might have originally been part of a pendant of clothing adornment. Although exact parallels are difficult to identify, the composition and overall form is conducive with a Bronze Age date					
Location	DCM 2	2009.137	Period	Bronz	e Age	
Completeness	0-25%	0-25% Details Heavily deformed and torn at one end.				
Dimensions (mm)	L.38.4	; W.10.5; Th.0.5	; Wt.1.63g.			
Patina/Corrosion	Dull gold.					
Manufacture/Use	Difficult to tell due to poor condition, but the perforation indicates it was prepared and used.					
Damage	This is torn at also m much o plough	a fragment of a one end and th aterial loss and of this damage v damage), but it	larger sheet gol e overall piece is deformation to th vas caused post- is possible som	d ornam crumple ne long s -deposit e was de	nent, which has been ed and bent. There is sides. It is likely that ion (e.g. soil warping, eliberate in antiquity.	

PAS-F150 Stinsford I

Grid Ref.	SY 70	93	Altitude (m)		-
		C			\checkmark
Dryland		Wet	land		Uncertain
Find circumstances	A sock	teted axe was fo	und while metal-	-detectir	ng in 2012.
Reference(s)	Knight	et al. 2015, 58,	No.303, Pl.23; F	PAS DO	R-A1DEC8.
Object Type and	Туре Е	Blandford axe.			
Description	This is	a faceted socke	eted axe with eig	ht facet	s and a circular
-	socket	. Around the soc	ket mouth is a d	ouble c	ollar moulding, with a
	thicker	upper moulding	and thinner low	er moul	ding, from which a
	side-lo	op originates. T	here is a faint mi	drib ext	ending down about
	three quarters of the axe, and a flanking rib on either side following				
	the lines of the facets. The axe gently expands to a straight cutting-				
	edge.				
Location	Finder		Period	Llyn F	Fawr
Completeness	100%	0% Details Complete, but damage on			
		one face.			
Dimensions (mm)	L.108.	L.108.03; BI.53.1; Wt.146.83g.			
Patina/Corrosion	Dark green patina.				
Manufacture/Use	As-cast. The axe shows no signs of worked and there are two sprue				
	stumps surviving on the socket.				
Damage	The ax	e is complete a	nd largely undan	naged a	part from a circular
	cracke	d depression on	one face toward	ds the c	utting-edge. This is
	almost	certainly post-d	epositional or re	covery	damage.

PAS-F151 Stinsford II

Grid Ref.	SY 72	93	Altitude (m)		-		
							\checkmark
Dryland		Wetland			Uncertain		
Find circumstances	A spea	pearhead was found while metal-detecting in 2012.					
Reference(s)	PAS D	PAS DOR-A21C97.					

Object Type and	Plain pegged spearhead (Type 11A)				
Description	This is a flame-shaped spearhead with a pegged circular socket.				
	The midrib of the spea	rhead is circular.			
Location	Finder Period Late Bronze Age				
Completeness	76-99%	Details	Minor socket damage.		
Dimensions (mm)	L.128.55; Bl.W.30.10;	Wt.77.18g.			
Patina/Corrosion	Dark green patina.				
Manufacture/Use	Prepared and possibly used. The casting material has been removed and prepared and the blade wings have possibly been hammered and worked. There are at least three nicks or chips in the blade wings (two on one side, one on the other), which potentially indicate use. The PAS record also notes a dent at the base of the wings, which is difficult to observe on the photos. This could also be use-related or possibly post-depositional damage				
Damage	This spearhead is largely undamaged apart from some minor material loss at the socket. There are no associated marks or casting flaws.				

PAS-F152 Sturminster Marshall I

Grid Ref.	SY 93	99	Altitude (m)	-
				\square
Dryland		Wetland		Uncertain
Find circumstances	An axe fragment was found while metal-detecting in 2010 on cultivated land.			
Reference(s)	Knight	Knight et al. 2015, 58, No.304; PAS HAMP-3D44F6.		

Object Type and	Axe – poss. palstave.	Axe – poss. palstave.		
Description	This is a corroded roughly rectangular copper alloy fragment, with			
	the possible beginning	s of flanges at the	e sides, suggesting this might	
	be a palstave butt frag	ment.		
Location	Finder Period Middle Bronze Age			
Completeness	0-25% Details Fragment.			
Dimensions (mm)	L.26.5; W.20; Th.6.55;	Wt.13.92g.		
Patina/Corrosion	Light green corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This fragment has broken from a larger object in antiquity. There are			
	no associated marks o	or casting flaws.	-	

PAS-F153 Sturminster Marshall II

Grid Ref.	SY 93	99 Altitude (m)			-
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe fragment was found while metal-detecting in 2010 on cultivated land.				al-detecting in 2010
Reference(s)	Knight et al. 2015, 58, No.305, Pl.24; PAS HAMP-3CA7C5.				

Object Type and	Socketed axe – poss. South-eastern or Type Welby.				
Description	This is the lower blade of a socketed axe, with a crescentic cutting-				
	type.				
Location	Finder	Period	Ewart Park		
Completeness	0-25% Details Cutting-edge fragment.				
Dimensions (mm)	L.59.7; Bl.W.28.9; Wt.64.41g.				
Patina/Corrosion	Brown patina.				
Manufacture/Use	Difficult to tell due to incompleteness, but the cutting-edge seems to have been worked and there are small chips in the edge, which could be use-related.				
Damage	This is the lower blade of a socketed axe, broken at the socket aperture in antiquity. There are no associated marks or casting flaws. Breakage: Th.14.4.				

PAS-F154 Sturminster Newton

Grid Ref.	ST 76	15	Altitude (m)		-
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A blade fragment was found while metal-detecting in 2016 on cultivated land.				ting in 2016 on
Reference(s)	PAS SOM-6BBF8D.				

Object Type and	Blade – type uncertain.			
Description	This is a narrow double-edged mid-blade fragment, tapering to one			
	end, indicating it is fror	m the lower blade	of an implement, towards	
	the tip. The blade has	a biconvex cross	-section. It seems most likely	
	to be from a sword blade or possibly a rapier.			
Location	Finder Period Middle-Late Bronze Age			
Completeness	0-25% Details Mid-blade fragment.			
Dimensions (mm)	L.31; W.13.8; Th.3.3; Wt.5.51g.			
Patina/Corrosion	Mottled brown patina, pitted with green corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness.			
Damage	This is a mid-blade fragment broken at both ends in antiquity. There			
	are no associated mar	ks or casting flaw	/S.	

PAS-F155 Tarrant Hinton I

Grid Ref.	SY 72	83	Altitude (m)	53			
\checkmark		Γ					
Dryland		Wet	land	Uncertain			
Find circumstances	A gold ring was found while metal-detecting in 2015 on cultivated land.						
Reference(s)	Knight T229.	et al. 2015, 57-	58, No.302, Pl.2	6; PAS DOR-D914C7, 2013			
Object Type and	Gold ri	ng-money.					
Description	This is	a small gold pe	nannular ring wit	th striped banding or gold and			
	silver-r flat.	ich gold. It has a	a circular section	and the terminal ends are			
Location	DCM 2	2013.46	Period	Late Bronze Age			
Completeness	100%	100% Details Complete.					
Dimensions (mm)	Diam.Ext.16.53x17.23; Th.5.99; Wt.8g.						
Patina/Corrosion	Dull gold.						
Manufacture/Use	Prepared and possibly used.						
Damage	None.			None.			

PAS-F156 Tarrant Hinton II

Grid Ref.	ST 93	11*	Altitude (m)		-	
						\checkmark
Dryland		Wetland			Uncertain	
Find circumstances	A blade	lade fragment was found while metal-detecting in 2009.				
Reference(s)	Knight	Knight et al. 2015, 58, No.306, PI.26; PAS DOR-3B9600.				

Object Type and Description	Blade – type uncertain. This is an irregular quadrangular fragment of a blade, with a pronounced angular edge, which might be the shoulder of a hilt. Below this potential shoulder is a bevelled edge. The opposite edge			
	is fragmented. It is pos	sible this is part of	of a trapezoidal hilt of a dirk.	
Location	Finder Period Middle-Late Bronze Age			
Completeness	0-25%	Details	Blade fragment.	
Dimensions (mm)	L.42.81; W.22.40; Th.2	2.06; Wt.6.98g.		
Patina/Corrosion	Dark grey/black patina	with patches of I	ight green corrosion.	
Manufacture/Use	Difficult to tell due to incompleteness, though there appears to have			
	been deliberate working of the blade.			
Damage	This is a blade fragment, broken at both ends and along one long			
	edge. Along the long e small notch below this,	dge is an area of , which could be r	deliberate flattening, with a related to the breakage.	

PAS-F157 Tarrant Hinton III

Grid Ref.	ST 93	10	Altitude (m)	-	
				\square	
Dryland		Wetland		Uncertain	
Find circumstances	An awl/punch was found while metal-detecting in 201			letecting in 2012-2013 less	
Find circumstances	than 25cm below the surface on cultivated land.				
Reference(s)	Knight et al. 2015, 58, No.307, Pl.30; PAS HAMP-19D7F2.				

Object Type and Description	Awl/punch. This is a conical point probably represents ar from South West Engla Bronze Age.	with an inset circu n awl or punch. T and at present, bu	ular tang at its base; it he object lacks analogues ut probably dates to the Late
Location	Finder	Period	Late Bronze Age?

Completeness	76-99%	Details	Tang broken.	
Dimensions (mm)	L.43.77; W.8.12; Th.6.	62; Wt.8.02g.		
Patina/Corrosion	Green patina.			
Manufacture/Use	Prepared and used. The point is quite rounded and worn, suggesting			
	extensive use.			
Damage	The tang has broken o	ff in antiquity, lea	ving only a short stump at	
	the base of the point. There are no associated marks or casting			
	flaws.			

PAS-F158 Tarrant Hinton IV

Grid Ref.	ST 91	11	Altitude (m)		-
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	Two refitting pieces of a palstave were found while m			vhile metal-detecting	
Find circuitistances	in 2007 on cultivated land.				
Reference(s)	Knight et al. 2015, 58, Nos.308, 309; PAS DOR-96BD97.				

Transitional palstave.			
This is a narrow-bladed, looped palstave in two refitting pieces, with			
the remains of low flan	ges rising to the	stop. The blade expands to a	
curved cutting-edge ar	d there is no add	proment on either face. The	
remains of a side-loop	overlap a sub-re	ctangular stop.	
Finder	Period	Penard	
51-75%	Details	Broken above the stop in	
		two refitting pieces;	
		damage to blade and butt.	
L.139; Bl.W.32; Wt.298g.			
Mottled green and grey corrosion.			
Difficult to tell due to incompleteness, but it seems the casting			
material has been prepared.			
This palstave has broken into two refitting pieces in antiquity through			
the flanges, septum and side-loop, above the stop. Furthermore, the			
flanges have largely fragmented away and the palstave has suffered			
material loss at the butt and the lower blade. The refitting break is			
described as "worn and abraded", suggesting it is antiquated and the			
other damages appear to be consistently corroded and likely			
represent a combination of ancient damage exaggerated by post-			
depositional processes. There are no associated marks or visible			
casting flaws.			
	Transitional paistave. This is a narrow-bladed the remains of low flan curved cutting-edge ar remains of a side-loop Finder 51-75% L.139; BI.W.32; Wt.298 Mottled green and grey Difficult to tell due to in material has been prep This palstave has brok the flanges, septum an flanges have largely fra material loss at the but described as "worn and other damages appear represent a combinatio depositional processes casting flaws.	Transitional paistave. This is a narrow-bladed, looped palstave the remains of low flanges rising to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge and there is no added to the curved cutting-edge appear to be consistent represent a combination of ancient dam depositional processes. There are no accasting flaws.	

PAS-F159 Tarrant Hinton V

Grid Ref.	ST 93	11* Altitude (m)	-
			$\overline{\mathbf{N}}$
Dryland		Wetland	Uncertain
Find circumstances	A copper alloy bar was found while metal-detecting in 2009.		
Reference(s)	PAS D	OR-35BD00.	

Object Type and	Bar chisel.			
Description	This is a narrow copper alloy bar with a sub-square section, tapering and flattening to one end, forming a chisel-like form.			
Location	Finder	Finder Period Middle-Late Bronze Age		
Completeness	100% Details Complete.			
Dimensions (mm)	L.37.17; W.4.86; Th.4.16; Wt.3.67g.			
Patina/Corrosion	Mottled green and brown patina.			
Manufacture/Use	Prepared and possibly used. The chisel end appears worn.			
Damage	None.			

PAS-F160 Tarrant Hinton VI

Grid Ref.	ST 93	10 Altitude (m)	72
Ø			
Dryland		Wetland	Uncertain
Find circumstances	An axe cultiva	fragment was found while met ted land.	al-detecting in 2014 on
Reference(s)	PAS B	H-834EB6.	

Object Type and	Flanged axe or palstave.				
Description	This is a rounded butt fragment of a flanged axe or palstave. The				
	beginnings of flanges rise gently from the butt end, but the fragment is too small to determine if they rise to full flanges like those seem on palstave, or whether they remain low and form part of a flanged axe such as an Arreton axe.				
Location	Finder	Period	Middle Bronze Age		
Completeness	0-25% Details Butt fragment.				
Dimensions (mm)	L.24; W.27.2; Th.8.8; Wt.16.82g.				
Patina/Corrosion	Mottled green patina.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	The butt has broken av corrosion obscures evi	way from a flange idence of associa	ed axe in antiquity, though the ted marks or casting flaws.		

PAS-F161 Tarrant Monkton II

Grid Ref.	ST 93	08* Altitude (m)	-
			\checkmark
Dryland		Wetland	Uncertain
Find circumstances	A chisel was found while metal-detecting in 2007.		
Reference(s)	PAS D	OR-C0AF45.	

Object Type and	Tanged and collared c	Tanged and collared chisel.			
Description	This is an incomplete chisel with the remains of triangular blade, set				
	below a biconical mou	lding; the upper r	noulding is thicker and forms		
	a collar. Above this is a	a thick, rectangul	ar section tapering tang.		
Location	Finder	Period	Late Bronze Age		
Completeness	76-99%	Details	Damage to tang and		
			cutting-edge.		
Dimensions (mm)	L.35.99; W.11.55; Th.7.36; Wt.5.48g.				
Patina/Corrosion	Green corrosion.				
Manufacture/Use	Difficult to tell due to corrosion and incompleteness.				
Damage	The blade has broken at an angle, removing the cutting-edge in				
_	antiquity. The end of the tang has also broken away. There are no				
	associated marks or ca	asting flaws.	-		

PAS-F162 Tarrant Rawston

Grid Ref.	ST 91	06 Altitude	(m)	101
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	An awl was found while metal-detecting in 2013 on cultivated land.			
Reference(s)	Knight	et al. 2015, 58, No.314, F	PI.30; PAS DO	R-6DF7F6.

Object Type and Description	Single-pointed awl. This is a rectangular-sepoint at one end and a wide groove on the fac suggests indicates the	ection copper allo flattened tang at es of the tang, w potential use of t	by bar, tapering to a circular the other. There is a short, hich the PAS record his object as a gouge.
Location	Finder	Period	Middle-Late Bronze Age

Completeness	100%	Details	Complete.		
Dimensions (mm)	L.84.49; W.5.7; Th.4.45; Wt.11.25g.				
Patina/Corrosion	Dark green patina pitted with light green corrosion.				
Manufacture/Use	Prepared and possibly used. The point still looks sharp.				
Damage	None.				

PAS-F163 Tarrant Rushton

Grid Ref.	ST 93	04 Altitude (m)			-
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A sock	cketed gouge was found while me		tal-dete	cting in 2007 less than
This circuitstances	25cm	n below the surface on cultivated land.			
Reference(s)	Knight	et al. 2015, 58,	No.316, Pl.30; F	PAS DOI	R-1AEA74.

Object Type and Description	Socketed gouge, poss. Thorney Down. This is a socketed gouge with a circular socket tapering to a narrow curved end, with a shallow groove up one face.			
Location	Finder Period Late Bronze Age-Early Iron			
Completeness	76-99% Details Minor socket damage.			
Dimensions (mm)	L.52.75; Sock.Diam.Ext.13.16x12.88; Wt,16.7g.			
Patina/Corrosion	Grey/silver patina, with mottled green corrosion.			
Manufacture/Use	Difficult to tell but worked casting seams are visible along each side.			
Damage	There is minor materia of this are unclear.	I loss at the sock	et mouth, but further details	

PAS-F164 "Tarrant Valley"

Grid Ref.	-	Altitude (m)	-	
Dryland	Wetland Uncertain			
Find circumstances	A large detecti believe exact o	e lunula piece and a smaller frag ing in 2014 on cultivated land. A ed to belong to the same lunula circumstances are not given.	ment were found while metal- nother terminal fragment, was found in 2015, though	
Reference(s)	Knight T257,	et al. 2015, 58-59, No.317, Fig. 2015 T870.	8; PAS DOR-2198F8, 2014	
Additional Notes	The gr	id reference and parish are prot	ected for this findspot.	
Object Type and Description	Provin This is accord F164.1 includi F164.2 F164.3 A desc F164.1 midrib, body a shape the sun includi descrip F164.2 which visible	 cial lunula. a gold Provincial-type lunula in lingly: Large piece, comprising about ng one terminal; Small crumpled fragment. Terminal fragment. ription of each is provided below. The terminal is a sub-square, set at a right angle to the lunula are adorned with three parallel in of the crescentic. The main bod rviving terminal is a series of inc ng cross-hatching, transverse lir ption is available on the PAS rect: A small fragment was found drappears to join with F164.1. The on the outer edge. 	three pieces, labelled three quarters of the lunula, w: with a pronounced wide a. The edges of the crescent cised grooves, following the y is otherwise plain. Towards ised bands of decoration, hes and triangles. A full cord. uring fieldwork on the findspot, e triple groove decoration is	

	F164.3: This is a terminal fragment and upper crescent of the same				
	style as that seen on F164.1. This fragment is heavily damaged				
	however, making an e	xact comparison	difficult. It does not refit.		
Location	DCM	Period	Early Bronze Age		
Completeness	76-99%	Details	Roughly complete in three		
			pieces, two of which refit.		
Dimensions (mm)	F164.1: L.142; Ext.W.	180; Band W.46.2	27; Th.0.3; Terminal L.17.7;		
	Terminal W.18.1; Tern	ninal Th.1; Wt.71.	.63g.		
	F164.2: L.43.4; W.38.7	14; Th.0.52; Wt.9	.61g.		
	F164.3: L.66.65; W.19	.26; Th.0.57; Wt.	9.56g.		
Patina/Corrosion	n/a				
Manufacture/Use	Prepared. This lunula has been carefully decorated and prepared. It				
	was presumably used, but signs of use are not observable.				
Damage	This lunula has broken into three pieces, two of which refit. Piece				
	F164.1 is torn and bent at the break. Fragment F164.2 is torn and				
	folded at both ends and along the inner edge, while Fragment				
	F164.3 is twisted twice	e, torn and distort	ed. It is difficult to accurately		
	assess whether the da	mage inflicted is	the result of post-		
	depositional processes (e.g. ploughing) or deliberate damage in the				
	past. It is possible that it is a combination of both. It is difficult to				
	envisage how F164.3 might become twisted twice through industrial				
	processes, nor how F1	64.2 might be fo	lded. However, without		
	further examination, th	is damage must	be categorised cautiously.		

PAS-F165 Warmwell

Grid Ref.	SY 75	85	Altitude (m)		47
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A blad	de fragment was found while metal-detecting in 2000.			
Reference(s)	Knight	nt et al. 2015, 60, No.324, Pl.26; PAS SOMDOR1124.			MDOR1124.

Object Type and	Blade – type uncertain	Blade – type uncertain.			
Description	This is a narrow double-edged mid-blade fragment, tapering towards				
	a broken tip at one end	d. The blade has a	a biconvex section, though		
	the midrib is flat. It is p	robably from a sv	vord or possibly a rapier.		
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	0-25% Details Lower blade fragment.				
Dimensions (mm)	L.55.42; W.20.2; Th.3.	5.			
Patina/Corrosion	Unknown.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This is a lower blade fragment broken at both ends, presumably in				
	antiquity. The record describes that the fragment is slightly bent				
	though this is not depic	cted on the drawin	ng.		

PAS-F166 West Knighton

Grid Ref.	SY 74	89 Altitude (n)	64
\square				
Dryland		Wetland		Uncertain
Find circumstances	A swo	ord fragment was found while metal-detecting in 2013.		
Reference(s)	Knight	et al. 2015, 60, No.325, Pl.2	6; PAS DO	R-B4D511.

Object Type and	Carp's Tongue sword.				
Description	This is a mid-blade frag	gment of a double	e-edged blade with a		
-	rounded midrib, flanked by a pair of lateral grooves.				
Location	Finder	Period	Ewart Park		
Completeness	0-25% Details Mid-blade fragment.				
Dimensions (mm)	L.52.06; W.33.81; Th.8.6; Wt.43.78g.				
Patina/Corrosion	Pale green patina.				

Manufacture/Use	Difficult to tell, but the edges may have been prepared.
Damage	This is a mid-blade fragment, broken at both end in antiquity. There
	are no associated marks, but in at least one of the breaks, a high
	degree of porosity can be observed.

PAS-F167 Weymouth III

Grid Ref.	SY 71	83 Altitude (m)	-
			$\overline{\mathbf{A}}$
Dryland		Wetland	Uncertain
Find circumstances	A gold ring was found while metal-detecting in 2012.		
Reference(s)	PAS DOR-D93B80, 2012 T684.		
Additional Notes	The findspot is close to the south coast.		

Object Type and Description	Composite ring money. This is a gold-plated penannular ring with a copper alloy core. It has an oval cross-section and narrows slightly towards the flat-ended terminals, of which only one survives undamaged.			
Location	Finder Period Late Bronze Age			
Completeness	76-99% Details One terminal damaged.			
Dimensions (mm)	Diam.Ext.14.4x14.11; Th.4.27; Wt.3.63g.			
Patina/Corrosion	Dull gold.			
Manufacture/Use	Prepared and possibly used.			
Damage	The gold plating at one could easily be linked	The gold plating at one terminal is compressed and slightly torn. This could easily be linked to post-depositional damage.		

PAS-F168 Weymouth IV

Grid Ref.	SY 66	84	Altitude (m)		23
Ø		[
Dryland		Wet	land		Uncertain
Find circumstances	A spearhead fragment was found while metal-detecting in 1999 on cultivated land.				
Reference(s)	Knight	et al. 2015, 60,	PI.26; PAS SOM	IDOR19	97.
Object Type and	Spearhead – type uncertain.				
Description	This is the tip of a spearhead, with a prominent central ridge, creating a lozenge-section. The narrow nature of the tip indicates this may have come from a flame-shaped blade. There are no further diagnostic features.				
Location	Finder	Period		Middl	e-Late Bronze Age
Completeness	0-25%	Details		Is Tip fragment.	
Dimensions (mm)	L.33.41; W.15.43; Th.7.22; Wt.8.21g.				

Patina/Corrosion	Unknown.
Manufacture/Use	Difficult to tell due to incompleteness.
Damage	The tip of a spearhead has broken off, presumably in antiquity.
	There are no associated marks or casting flaws depicted on the
	drawing.

PAS-F169 Wimborne St. Giles

Grid Ref.	SU 01	18	Altitude (m)	114
\checkmark				
Dryland		Wetland		Uncertain
Find circumstances	A chape was found while metal-detecting in 2014 on cultivated			ing in 2014 on cultivated land.
Reference(s)	PAS D	PAS DOR-6844E1.		

Object Type and	Chape.
Description	

	This is a tongue-shaped chape, tapering from a wide biconvex opening, to an oval knob at the base. The knob has a central perforation at the bottom and there is a peg hole through both faces of the chape, which retains a rivet. The rivet is not photographed but apparently retains tinning on the terminals				
Location	Finder Period Late Bronze Age				
Completeness	100% Details Complete.				
Dimensions (mm)	L.34.45; W.20.22; Wt.9.35g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Prepared and used. The casting material has been removed and				
	prepared, and the presence of a rivet indicates it was used.				
Damage	None.				

PAS-F170 Winfrith Newburgh I

Grid Ref.	SY 80	85	Altitude (m)	32	
		[$\mathbf{\nabla}$	
Dryland		Wet	land	Uncertain	
Find circumstances	A spea	arhead fragment	was found while	e metal-detecting in 2016 on	
	cultiva	ted land.			
Reference(s)	PAS D	OR-A09E8A.			
Object Type and	Spearhead – type uncertain.				
Description	This is	the tip of a spea	arhead, with a pr	ominent central ridge,	
	creatin	g a lozenge-sec	tion. The narrow	nature of the tip indicates	
	this may have come from a flame-shaped blade. There are no				
	further	diagnostic featu	ires.		
Location	Finder		Period	Middle-Late Bronze Age	
Completeness	0-25%		Details	Tip fragment.	
Dimensions (mm)	L.24.1; W.11.4; Th.7.1; Wt.4.11g.				
Patina/Corrosion	Dark black patina and corrosion pitting.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	The tip	of a spearhead	has broken off	in antiquity. There are no	
	associ	ated marks or ca	asting flaws.		

PAS-F171 Winfrith Newburgh II

Grid Ref.	SY 80	85 Altitude (m)	-
			$\mathbf{\nabla}$
Dryland		Wetland	Uncertain
Find circumstances	A chisel was found while metal-detecting in 2012 on cultivated land		
Reference(s)	PAS D	OR-F18347.	

Object Type and	Tanged and collared chisel.				
Description	This is a chisel with a s	square-section ta	ng, tapering to a rounded		
	end, and an oval conic	al collar. The bla	de is roughly triangular.		
Location	Finder	Period	Late Bronze Age		
Completeness	76-99% Details Damage to cutting-edge.				
Dimensions (mm)	L.99.12; W.24.56; Wt.35.32g.				
Patina/Corrosion	Brown patina with patches of green corrosion.				
Manufacture/Use	Prepared and possibly used.				
Damage	The cutting-edge has fragmented, possibly in antiquity, leaving an				
	uneven edge. This might be attributable to use-damage or post-				
	depositional deteriorat	ion. There are no	associated marks or casting		
	flaws.				

PAS-F172 Winterbourne Steepleton II

Grid Ref.	SY 61 89*	Altitude (m)	-

				\checkmark	
Dryland	\		land	Uncertain	
Find circumstances	A razo	r was found whi	le metal-detectin	g in 2008 on cultivated land.	
Reference(s)	Knight	et al. 2015, 60,	No.332; PAS DO	DR-7FBCE8.	
Object Type and	Racloi	r triangulaire.			
Description	This is	an incomplete "	razor", which wa	is probably originally	
-	triangu	lar. The comple	te surviving edge	e is bevelled and thinned, as	
	are the	e remains of the	other two edges	. There also appears to be an	
	aperture just above the blade. O'Connor (2008 in DOR-7FBCE8)				
	comments that the edges are still too thick to be considered a razor				
	and thus places it as a racloir triangulaire.				
Location	DCM 2	2008.48	Period	Late Bronze Age	
Completeness	26-50%	6	Details	Lower piece.	
Dimensions (mm)	L.53.6	5; W.25.33; Th.9	9.97; Wt.17.75g.		
Patina/Corrosion	Olive green patina.				
Manufacture/Use	Prepared. The edges have been hammered and worked to produce				
	a bevel.				
Damage	This is	the lower half o	f a triangular raz	or, broken across the middle	
	in antio	quity. There are	no associated m	arks or casting flaws.	

PAS-F173 Winterbourne Steepleton III

Grid Ref.	SY 61	90	Altitude (m)		-
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe fragment was found while metal-detecting in 2003 on cultivated land.				
Reference(s)	PAS SOMDOR-9A65F5.				
Additional Notes	This fragment and a socketed axe (PAS-F174) were recovered separately from the same field in close proximity. It is uncertain how they relate to each other.				were recovered ty. It is uncertain how

Object Type and	Socketed axe – type uncertain.				
Description	This is the cutting-edge and lower blade of a socketed axe. The				
	cutting-edge is slightly	flaring and curve	ed, and there are the remains		
	of a sub-rectangular se	ocket.			
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Cutting-edge.		
Dimensions (mm)	L.27.91; BI.W.40.01; V	Vt.31.08g.			
Patina/Corrosion	Dark green patina.				
Manufacture/Use	Difficult to tell due to incompleteness, but the casting seams appear				
	to have been worked and prepared. The cutting-edge is worn and				
	slightly asymmetrical, but it is difficult to attribute this to use rather				
	than post-depositional processes.				
Damage	The socketed axe has broken across the blade, just above the				
	socket aperture in anti	quity, leaving onl	y the cutting-edge and lower		
	blade. There are no as	ssociated marks	or casting flaws.		

PAS-F174 Winterbourne Steepleton IV

Grid Ref.	SY 61	90	Altitude (m)	-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A socketed axe was found while metal-detecting in 2003 on cultivated land.			
Reference(s)	PAS SOMDOR-9AC505.			
Additional Notes	See PAS-F173.			

Object Type and	Socketed axe – type uncertain.				
Description	This is a narrow, incon	nplete socketed a	exe, with a rectangular		
	section and a slightly	flaring curved cut	ting-edge There is the lower		
	holf of a raised V rib a	n the our wine our	ang edger mere is the letter		
		in the surviving up	pper body, presumably		
	extending from the soc	cket moulding.			
Location	Finder	Period	Late Bronze Age		
Completeness	51-75%	Details	Lower body, broken across		
			the upper body.		
Dimensions (mm)	L.71.04; W.35.51; Wt.97.34g.				
Patina/Corrosion	Mottled brown/grey patina.				
Manufacture/Use	Prepared. The casting material has been prepared and largely				
	removed, but further signs of preparation or use and difficult to				
	identify.				
Damage	This axe has broken across the upper body in antiquity, leaving the				
U U	lower body and cutting-edge. The break is uneven, with a series of				
	lower body and cutting cuge. The bleak is uneven, with a series of				
	large step fractures visible, but there are no associated marks or				
	visible casting flaws.				

PAS-F175 Woodlands

Grid Ref.	SU 02	10 Altitude	(m)	-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A tanged knife was found while metal-detecting in 2009 on culti			
Find circuitistances	land.			
Reference(s)	PAS SUR-608AC8.			

Object Type and	Tanged knife.					
Description	This is an incomplete double-edged blade that tapers in to a straight,					
-	sub-rectangular tang.	sub-rectangular tang. The overall object is quite thin.				
Location	Finder	Finder Period Late Bronze Age				
Completeness	51-75% Details Upper blade and tang.					
Dimensions (mm)	L.101.9; W.21.9; Th.2.53; Tang Th.1.24; Wt.24.92g.					
Patina/Corrosion	Bronze patina.					
Manufacture/Use	Prepared. There are no signs of use.					
Damage	This knife has broken across the middle of the blade, presumably in					
_	antiquity. The break has a slightly transverse bend associated, but					
	no other marks.					

PAS-F176 East Dorset I

Grid Ref.	-	Altitude (m)		-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A gold band was found while metal-detecting in 2014 on cultivated land. It was found about 6 inches down in the topsoil. The gold band was found folded/rolled up in the ground and was unrolled upon discovery and then rolled up again before it was presented to the ELO			n 2014 on cultivated opsoil. The gold band vas unrolled upon is presented to the
Reference(s)	PAS DOR-52C762, 2014 T256.			
Additional Notes	The ex	act findspot and parish is know	n, but is	protected.

Object Type and	Gold band.				
Description	This is an incomplete plain gold band with a tapering unperforated				
-	terminal at one end. The band has been folded over itself four times.				
Location	Finder Period Bronze Age				
Completeness	Uncertain Details Broken across one end.				
Dimensions (mm)	L.61; W.5.5; Th.0.25; Terminal W.3; Wt.3g.				
Patina/Corrosion	Gold.				
Manufacture/Use	Difficult to tell.				

Damage	This band has broken at one end in antiquity, possibly deliberately,
	and rolled prior to deposition.

PAS-F177 East Dorset II

Grid Ref.	-	- Altitude (m) -		
			${\bf \boxtimes}$	
Dryland		Wetland	Uncertain	
Find circumstances	A tang cultiva	A tanged blade was found while metal-detecting in 2016 on cultivated land.		
Reference(s)	PAS DOR-FCCD7E.			
Additional Notes	The exact findspot and parish is known, but is protected.			
Object Type and	Tange	d knife/dagger.		

	rangea kime/aagger.				
Description	This is a copper thin, complete triangular blade, tapering to a point at one end, but expanding to rounded shoulders at the other, which taper in to a slender tang with a rounded terminal. The blade has a rectangular cross-section and there is curved hilt mark near the tang.				
Location	Finder Period MA I/II				
Completeness	100% Details Complete.				
Dimensions (mm)	L.93.02; W.21.09; Th.1.37; Wt.8.93g.				
Patina/Corrosion	Pale green corrosion.				
Manufacture/Use	Prepared. The hilt mark indicates this object was handled and				
	possibly used in antiquity.				
Damage	None.				

PAS-F178 North Dorset

Grid Ref.	-	Altitude (m) -			•	
					N	
Dryland		Wet	land	Uncertain		
Find circumstances	A pin v	vas found while	metal-detecting i	n 2006	on cultivated land.	
Reference(s)	Knight	et al. 2015, 59,	No.318, Pl.26; P.	AS SOI	MDOR-839ED2.	
Additional Notes	The ex	act findspot and	l parish is known	, but is	protected.	
Object Type and	Quoit-l	neaded pin.	nucit booded pip	with a	oiroular agotion	
Description	tanorin	an incomplete t	uoil-neaded pin,	with a	Neither the shaft	
	nor the	ring are comple	te The following	i decora	ation is recorded on	
	the nin			Juccon		
	"The p	roximal end of th	ne shaft and the r	emaini	ng parts of the head	
	are de	corated with late	eral incised lines f	front an	d back and also	
	around	I the exterior poi	inted face of the h	nead. T	he lines are longer on	
	the sha	aft and where th	e shaft and head	and he	ere are range in two	
	lines (one on each side) angled inwards to form a chevron pointing					
	away from the head (the design is repeated front and back). On the					
	head the lines are short and cut across the points of the lozenge					
	shaped cross section."					
Location	Finder		Period	Taunt	on	
Completeness	51-75%	6	Details	Ring a	and shaft broken.	
Dimensions (mm)	L.149.	76; W.29.57; Wt	25.34g.			
Patina/Corrosion	Dark green patina.					
Manufacture/Use	Prepared and possibly used. The pin has been neatly decorated and					
	was probably used.					
Damage	About two thirds of the ring head has broken away in antiquity, as					
	has the lower shaft and point. There are no associated marks or					
	visible casting flaws with the ring breakage, but the shaft is bent at					
	the po	nt of breakage,	indicating this wa	as linked	d.	
	Ring E	Breakage: W.3.3	37; Th.4.45.			
	Shaft	Shaft Breakage: W.4.5.				

PAS-F179 West Dorset (Bradford Peverell)

Grid Ref.	-		Altitude (m)		-	
		Γ			\checkmark	
Dryland		Wet	land		Uncertain	
Find circumstances	A torc	fragment was fo	ound while metal-	detectir	ng in 2003.	
Poforonco(s)	Knight	et al. 2015, 48,	No.208; PAS DC)R-324	B57, 2003 T19;	
Reference(S)	Treasu	ure Annual Repo	ort 2003, 17, No.3	8, Fig.3.		
Additional Notes	The fir	ndspot is known	as "West Dorset"	', thoug	h the findspot has	
Additional Notes	also be	een published as	s "Bradford Peve	rell".		
Object Type and	Yeovil	-type torc.				
Description	This is	a fragment of a	four-flange twist	ed gold	bar, broken across	
	the middle of the torc at one end, and across the plain terminal at the					
	other.					
Location	Finder		Period	Taunt	on-Penard	
Completeness	0-25%		Details	Broke	en and folded.	
Dimensions (mm)	L.24; T	L.24; Th.8; Terminal Th.5; Wt.12.95g.				
Patina/Corrosion	n/a					
Manufacture/Use	Prepared and possibly used.					
Damage	This fragment has been broken from a larger torc in antiquity and the					
	surviving terminal has also broken off. The surviving fragment has					
	been f	olded over so th	e broken ends m	eet. Th	ere are no associated	
	marks	or casting flaws	•			

PAS-F180 Dorset VI

Grid Ref.	- Altitude (m) -			
			\square	
Dryland		Wetland	Uncertain	
Find circumstances	A socketed gouge was found while metal-detecting in 2016 on cultivated land.			
Reference(s)	PAS DOR-98A038.			
Additional Notes	The exact findspot and parish is known, but is protected.			

Object Type and Description	Thorney Down socketed gouge. This is a socketed gouge with a circular socket tapering to a narrow			
	curved end, with a shallow groove up one lace.			
Location	Finder	Period	Llyn Fawr	
Completeness	100%	Details	Complete.	
Dimensions (mm)	L.45.6; Sock.Diam.Ext.12.2x10.7; Wt.16.44g.			
Patina/Corrosion	Dark grey/green patina with pale green corrosion.			
Manufacture/Use	Uncertain? Possibly as-cast.			
Damage	None.			

PAS-F181 Dorset VII

Grid Ref.	-	Altitude (m)	-	
			\checkmark	
Dryland		Wetland	Uncertain	
Find circumstances	A chape was found while metal-detecting in 2016 on cultivated land.			
Reference(s)	PAS DOR-BD9AED.			
Additional Notes	The exact findspot and parish is known, but is protected.			
Object Type and Description	Bag-shaped chape. This is a bag-shaped chape with an oval opening, concave sides			

scription	This is a bag-shaped chape with an oval opening, concave sides				
	and rounded base. There is a perforation through each face, each of				
	which still retains a small rivet. The perforations are decorated with ten concentric circles.				
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Location	Finder	Period	Ewart Park		
Completeness	100% Details Complete.				
Dimensions (mm)	L.36.16; W.16.94; Th.12.5; Wt.15.97g.				
Patina/Corrosion	Grey patina.				
Manufacture/Use	Prepared and used. The casting material has been removed and prepared, and the piece has been carefully decorated. The rivets <i>in situ</i> indicate it was used.				
Damage	None.				

PAS-F182 Dorset VIII

Grid Ref.	-	Altitude (m)		-
				\checkmark
Dryland		Wetland Uncertain		Uncertain
Find circumstances	An anvil was found while metal-detecting in 2015 deeper than 25cl below the surface on cultivated land.			15 deeper than 25cm
Reference(s)	PAS PUBLIC-B21001.			
Additional Notes	The exact findspot and parish is known, but is protected.			

Object Type and Description	Complex anvil. This is a complete anvil with "a working face, punching hole, a beak and a lengthy swage".					
Location	Finder	Period	Middle-Late Bronze Age			
Completeness	100%	100% Details Complete.				
Dimensions (mm)	Not known.					
Patina/Corrosion	Olive green patina.					
Manufacture/Use	Prepared and possibly used.					
Damage	None.					

PAS-F183 Dorset IX

Grid Ref.	-	Altitude (m)	-	
			\checkmark	
Dryland		Wetland	Uncertain	
Find circumstances	An aw no finc is prov	l was found in 2009, presumably l circumstances are given and n ided.	while metal-detecting o further findspot info	g, though rmation
Reference(s)	PAS D	OR-A9EBD3.		

Object Type and	Awl.			
Description	This is a copper alloy bar with a conical point at one end, with at			
	least two or three long	itudinal grooves o	or notches incised into the	
	base of the cone. Belo	w the cone is an	inset tang, which has a slight	
	collar before tapering a	and flattening to a	rounded end. Two faces of	
	the tang have been flat	ttened, creating fa	acets.	
Location	Finder	Period	Middle-Late Bronze Age	
Completeness	100%	Details	Complete.	
Dimensions (mm)	L.37.78; W.4.71; Th.4.51; Wt.2.18g.			
Patina/Corrosion	Pale green patina.			
Manufacture/Use	Prepared and possibly	used. The point	is rounded and worn.	
Damage	None.			

PAS-F184 Dorset X

Grid Ref.	-	Altitude (m)	-
			\checkmark
Dryland		Wetland	Uncertain

	A palstave was found	in 2008, presuma	bly while metal-detecting,		
Find circumstances	though no find circums	stances are given	and no further findspot		
	information is provided	ł.			
Reference(s)	Knight et al. 2015, 59,	No.322, Pl.21; P.	AS DOR-C5DF32.		
Object Type and	Palstave – poss. Gr.I?				
Description	This is a small unloope	ed palstave with h	high, oval flanges that rise		
_	from the septum below	v the butt and plat	eau at the height of the stop.		
	The stop is sub-rectan	gular and the bla	de is short and thick, with a		
	flared crescentic cuttin	g-edge. There is	no adornment on either face.		
	The form of the palstav	ve is unusual, lar	gely because the blade is		
	much shorter and thick	ker than would no	rmally be expected; it is		
	possible it has been reworked. The overall style is indicative of an				
	early date in the palstave tradition (e.g. Acton Park or Early				
	Taunton).		,		
Location	Finder	Period	Acton Park-Taunton		
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.86.13; BI.W.35.56; F	I.Br.25.09; Wt.15	9.75g.		
Patina/Corrosion	Black patina, with brown corrosion pitting.				
Manufacture/Use	Prepared and possibly used. The casting material has been largely				
	removed and prepared, while the cutting-edge seems to have been				
	hammered out and probably worked. The edge is slightly				
	asymmetrical, which co	ould indicate wea	r and resharpening, while the		
	PAS records notes that	at the flanges on c	one face appear more worn.		
Damage	None.				

PAS-F185 Dorset XI

Grid Ref.	-		Altitude (m)		-	
]			
Dryland		Wetland Uncertain			Uncertain	
	A knife	was found in 20	001, presumably	while m	netal-detecting,	
Find circumstances	though	no find circums	tances are giver	n. The fi	nder could not	
	remen	ber the findspot	when asked.			
Reference(s)	Knight	et al. 2015, 61,	No.344, Pl.29; F	PAS SOI	MDOR-A082F6.	
Object Type and	Tange	d knife.				
Description	This is	a thin double-ec	dged blade that	tapers d	own from a sub-	
	rectan	rectangular tang. The blade appears to have a narrow flat midrib				
	along	ooth faces, and r	narrows to a rou	nded en	nd.	
Location	Finder		Period	Middle	e-Late Bronze Age	
Completeness	100%		Details	Comp	olete.	
Dimensions (mm)	L.141.15; W.21.87; Th.3.9; Tang L.22.5; Tang W.14.22; Wt.49.87g.					
Patina/Corrosion	Dark brown/black patina with green corrosion patches.					
Manufacture/Use	Prepared and possibly used. The blade edges have likely been					
	hammered and prepared, though it is difficult to observe this in the					
	photos. The edges have several nicks and notches along the blade,					
	some of which might be use-related.					
Damage	The kr	ife is complete, l	but transversely	bowed	along its length. This	
	could I	be the result of s	oil warping due	to the th	in nature of the blade.	

PAS-F186 Dorset XII

Grid Ref.	-	Altitude (m)		-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A spearhead tip was found in 2006, presumably while metal- detecting, though no find circumstances are given and no further findspot information is provided.			ly while metal- ven and no further
Reference(s)	Knight et al. 2015, 61, No.343; PAS SOMDOR-CA5753.			

Object Type and	Spearhead – Type uncertain					
Description	This is the tip of a spea	arhead blade with	a rounded midrib. The			
	original blade was prol	bably once leaf or	flame-shaped, and the			
	speameau was likely s	ockeleu anu peg	yeu,			
Location	Finder	Finder Period Middle-Late Bronze Age				
Completeness	0-25% Details Tip fragment.					
Dimensions (mm)	L.29.8; Wt.9.09g.					
Patina/Corrosion	Olive green patina with some green corrosion surface delamination.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This is the tip of a spearhead broken across the upper blade in					
	antiquity. There are no associated marks or casting flaws.					
	Breakage: W.20.69; T	h.6.67.				

B.5 SOMERSET

PAS-F187 Ashill

Grid Ref.	ST 31	16	Altitude (m)	-	
				\checkmark	
Dryland		Wet	land	Uncertain	
Find circumstances	An axe	e fragment was f and/heathland.	ound while metal	-detecting in 2009 on	
Reference(s)	Knight	et al. 2015, 62,	No.354; PAS SO	M-CA4312.	
Object Type and	Socke	ted axe – type u	ncertain. e and lower blade	e of a socketed ave. The	
Description	cutting-edge is slightly curved.				
Location	Finder		Period	Late Bronze Age	
Completeness	0-25%	1	Details	Cutting-edge fragment.	
Dimensions (mm)	L.37.33; Bl.W.34.34; Wt.66.71g.				
Patina/Corrosion	Patche	Patches of green patina, but largely delaminated.			
Manufacture/Use	Difficult to tell due to incompleteness and surface delamination, but				
	the casting seams appear to have been prepared. The cutting-edge				
	is worn and there is some minor material loss, but it is difficult to				
	attribute this to use rather than post-depositional processes.				
Damage	The socketed axe has broken across the blade, at the socket				
	aperture in antiquity, leaving only the cutting-edge and lower blade.				
	There	are no associate	ed marks or casti	ng flaws.	
	Break	age: Th.13.34.			

PAS-F188 Axbridge

Grid Ref.	ST 43	54 Altitude (m)	68
			$\mathbf{\nabla}$
Dryland		Wetland	Uncertain
Find circumstances	A ring	was found while metal-detecting	in 2016 on grass/heathland.
Reference(s)	PAS S	OM-36B525.	

Object Type and Description	Double-coiled finger ring. This is a copper alloy bar with an oval cross-section that has been coiled twice into a ring. The bar tapers slightly to plain sub- rectangular terminals.					
Location	Finder	Finder Period Taunton-Penard				
Completeness	100% Details Complete.					
Dimensions (mm)	Ext.Diam.28.48; Int.Diam.19.25; Th.4.27; Wt.23.74g.					
Patina/Corrosion	Dark green patina with occasional pitting.					
Manufacture/Use	Prepared and possibly used.					
Damage	None.					

PAS-F189 Backwell I

Grid Ref.	ST 49	69	Altitude (m)		-		
		[\checkmark		
Dryland		Wetland Uncertain			Uncertain		
	A sick	A sickle was found while metal-detecting in 2011 on cultivated land.					
Find circumstances	The si	ckle is in two ref	itting pieces, but	it is not	noted whether the		
	sickle	was in two piece	es when found.				
Reference(s)	Knight	et al. 2015, 71,	No.443, Pl.30; F	PAS GLO	O-32DD84.		
Object Type and	Sickle.						
Description	This is	an incomplete	curved sickle bla	de in tw	o refitting pieces with		
	a thick	dorsal ridge an	d a thin cutting-e	edge. Th	e blade tapers to a flat		
	end, th	ough it is uncle	ar whether this is	s deliber	ate or if the tip has		
	broker	off. The back o	f the sickle is fla	t, creati	ng a roughly wedge-		
	shape	d section. The ri	dge continues or	nto the h	nafting end of the		
	SICKIE	with no sign of a	tang or hafting	knobs.			
Location	Finder	-	Period	Taun	ton		
Completeness	51-75%	6	Details	Blade	e in two refitting		
				piece	s; material loss at the		
				cuttin	g-edge.		
Dimensions (mm)	L.116;	W.26.					
Patina/Corrosion	Grey patina with patches of green corrosion.						
Manufacture/Use	Difficult to tell due to incompleteness and poor photo.						
Damage	This sickle has broken into two refitting pieces, possibly in antiquity,						
	and there is a large semi-circular notch of material loss at the break.						
	It is als	so possible that	the tip has broke	en off. T	here are no visible		
	associ	ated marks or c	asting flaws, but	it is diffi	cult to accurately tell		
	from th	ne photos.					

PAS-F190 Backwell II

Grid Ref.	ST 49	70 Altitude (m)	-
			\square
Dryland		Wetland	Uncertain
Find circumstances	A knife	e was found while metal-detectir	ng in 2009 on cultivated land.
Reference(s)	PAS G	iLO-C54785.	

Object Type and	Tanged knife.				
Description	This is a leaf-shaped blade, with narrow angular shoulders and a				
	tang with two side note	ches. The tang ta	pers slightly to a rounded		
	butt. The blade appear	rs to have a bicor	vex or low lozenge-section		
	and narrows to a round	ded tip.			
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	76-99%	Details	Damage to blade edges.		
Dimensions (mm)	L.134; W.28; Th.4.3; W	/t.48.95g.			
Patina/Corrosion	Brown patina with patches of green corrosion.				
Manufacture/Use	Difficult to tell but possibly prepared and used. The damage to the				
	blade edges might in part be related to this, but see below. It has				
	possibly been reworked from an earlier object, such as a dirk or				
	rapier.				
Damage	The knife has suffered post-depositional erosion of the blade edges,				
	and is transversely bent about halfway down the blade (c.5-10				
	degrees). The bending	could also be th	e result of post-depositional		
	processes or could be	linked to use.	· ·		

PAS-F191 Backwell III

Grid Ref.	ST 49 70	Altitude (m)	17		
110					

		C]	\checkmark		
Dryland		Wet	land	Uncertain		
Find circumstances	A pals land.	A palstave was found while metal-detecting in 2012 on cultivated land.				
Reference(s)	PAS G	GLO-1E0845.				
Object Type and	Gr.III p	alstave.				
Description	This is	an unlooped pa	Istave with low l	ozenge-shaped flanges, rising		
	to a he	eight slightly abo	ve the stop ridge	e before descending to the		
	stop. T	he stop ridge is	sub-rectangular	and there is a shallow early		
	shield depression in the upper blade. The blade expands to a broad					
	cresce	ntic cutting-edge	e. It is difficult to	accurately place this		
	palstav	ve, as the decora	ation suggests a	n early date (e.g. a Gr.I		
	palstav	ve), though the r	nature of the flan	ges is indicative of Gr.III		
	palstav	ves. It likely date	s to the early Ta	unton period.		
Location	Finder		Period	Acton Park-Taunton		
Completeness	100%		Details	Complete.		
Dimensions (mm)	L.143;	BI.W.56; Wt.338	5.5g.			
Patina/Corrosion	Brown	patina.				
Manufacture/Use	Prepared and possibly used. The casting material has been					
	removed and prepared and the lower blade has been heavily					
	bevelle	ed. The cutting-e	edge is chipped i	n place, which could be use-		
	related	ł. –		-		
Damage	None.					

PAS-F192 Brewham I

Grid Ref.	ST 74	36	Altitude (m)		-
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A flanged axe was found by chance near Brewham Lodge.				
Reference(s)	Knight et al. 2015, 63, No.363, Pl.21; PAS SOM-77FCF6.				
Additional Notes	The grid reference is approximate and the details on the PAS are recorded from the photograph only.				

Object Type and	Arreton flanged axe (Class 5)				
Description	This is an incomplete axe with low flanges that extend along the				
_	sides and onto the blac	de as it expands	to a crescentic cutting-edge.		
Location	Finder	Period	MA VI Arreton		
Completeness	76-99%	Details	Butt broken.		
Dimensions (mm)	L.c.69; W.c.40.				
Patina/Corrosion	Dark brown patina, with pale brown surface delamination and				
	patches of pale green corrosion.				
Manufacture/Use	Prepared and used. It is difficult to tell from the photograph, but the				
	cutting-edge seems heavily worn and asymmetrical indicating				
	extensive use.				
Damage	The butt has broken, possibly in antiquity. There are no associated				
	marks.				

PAS-F193 Brewham II

Grid Ref.	ST 73	32	Altitude (m)		-
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	A pals grass/	A palstave was found while metal-detecting in 2012 on grass/heathland.			
Reference(s)	Knight	ight et al. 2015, 63, No.364, Pl.19; PAS SOM-EC8867.			
Additional Notes	Three fields (Three palstaves were found while metal-detecting across several ields (PAS-F193, PAS-F199 and PAS-F200). Although they do no			

constitute a hoard, they have been flagged up on the PAS record as
potentially part of a depositional landscape.

	1				
Object Type and	Gr.III palstave				
Description	This is a looped palstave with the remains of low flanges and a				
-	broad triangular blade	with a curved cut	tting-edge. The side-loop		
	overlaps a u-shaped s	top and the PAS	record notes a midrib on both		
	faces, though this is di	fficult to see in th	e photos.		
Location	Finder	Period	Taunton-Penard		
Completeness	76-99%	Details	Cutting-edge and butt		
			damage; side-loop broken.		
Dimensions (mm)	L.136.4; Bl.W.47.8; Wt.284g.				
Patina/Corrosion	Green patina pitted wit	th corrosion.			
Manufacture/Use	Prepared and possibly used. There is a shrinkage hollow in the				
	septum on at least one side and the PAS records other casting				
	hollows. The casting material has been worked and largely removed				
	and the blade has pos	sibly been hamm	ered out and bevelled. It is		
	difficult to ascertain, bu	ut some of the ed	ge damage might be use-		
	related.				
Damage	The cutting-edge is uneven and has suffered some material loss,				
_	which may be the resu	It of use or post-o	depositional processes. The		
	butt and side-loop hav	e broken in antiqu	uity.		

PAS-F194 Brewham III

Grid Ref.	ST 71	35	Altitude (m)		-
নি			7		
Dryland			_ tland		
Dryland	Acros		uanu ad while motal da	tooting	in 2011 on oultivated
Find circumstances	land.	amead was tour	id while metal-de	electing	In 2011 on cultivated
Reference(s)	Knight	et al. 2015, 63,	No.365, Pl.26; F	PAS SO	M-A2D9D1.
Object Type and	Side-lo	oped spearhea	d (Gr.6)		
Description	This is	an incomplete	spearhead with t	he rema	ains of two side-loops
_	about halfway along an oval socket. The surviving blade is narrow				ving blade is narrow
	and was originally quite small, though the original form is uncertain.				inal form is uncertain.
	The bl	ade has a prom	inent midrib crea	iting a lo	ozenge section.
Location	Finder		Period	Taun	ton-Penard
Completeness	51-75%	6	Details	Tip a	nd side-loops broken,
				socke	et damaged.
Dimensions (mm)	L.55.5; W.12.7; Th.13.2; Wt.12.56g.				
Patina/Corrosion	Dark brown patina with patches of green corrosion and delamination.				
Manufacture/Use	Difficult to tell due to extensive erosion of the object through post-				
	depositional processes, but presumably prepared and used.				
Damage	The tip of this spearhead has broken off and the lower socket has				
_	fragmented unevenly. Additionally, the side-loops have broken on				
	both si	des, leaving on	ly stumps. There	are no	associated marks or
	casting	g flaws, and the	damage has bee	en overa	all attributed to plough
	damag	je. This is suppo	orted by the lack	of cons	istent patination.

PAS-F195 Bristol (Eastville)

Grid Ref.	ST 61	75 Altitude (m)			-
\square					
Dryland		Wetland			Uncertain
Find circumstances	A sock	teted axe was found while metal-		-detectir	ng in 2010 on
Reference(s)	PAS G	PAS GLO-DCE180.			

Object Type and Description	Socketed axe – poss. south-eastern. This is a thin socketed axe with an oval socket mouth and a double collar moulding, with a side-loop originating from the lower moulding. The blade is plain and gently expands to a straight cutting-edge. The				
	axe is complete but se	emingly mis-cast	, making it difficult to identify.		
	It most closely aligns v	vith the south-eas	tern type.		
Location	Finder	Period	Ewart Park		
Completeness	100% Details Complete, mis-cast.				
Dimensions (mm)	L.98; W.39; Sock.Diam.Ext.25x20; Wt.113.04g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	As-cast. This axe has not been worked and has two large casting				
	hollows in one side. The casting flash down each side is also quite pronounced and the blade has not been expanded.				
Damage	None.				

PAS-F196 Carhampton

Grid Ref.	ST 00	Altitude (m)		-	
					\square
Dryland		Wetland		Und	certain
Find circumstances	An axe cultiva	xe fragment was found while metal-detecting in 2010 on vated land.			2010 on
Reference(s)	Knight et al. 2015, 63, No.369; PAS SOM-163940.				
Additional Notes	This findspot is near the north coast.				

Object Type and Description	Flanged axe or palstave. This is the lower blade of an axe with the remains of low flanges down the sides near the break. The blade is quite broad, indicative of a palstave, though there is no indicator of a stop. The piece is quite abraded, but the cutting-edge appears to have been crescentic					
Location	Finder	Period	Middle Bronze Age			
Completeness	0-25% Details Lower blade.					
Dimensions (mm)	L.33.62; W.35.43; Th.8	3.5; Wt.30.1g.				
Patina/Corrosion	Brown corrosion.					
Manufacture/Use	Difficult to tell due to incompleteness and corrosion.					
Damage	This axe has broken across the blade in antiquity, through potentially the thickest part of the axe. Corrosion obscures any potentially associated marks.					

PAS-F197 Charlcombe

Grid Ref.	ST 74 68		Altitude (m)		227
\checkmark					
Dryland		Wetland		Uncertain	
Find sizes A sock		socketed axe was found while metal-detecting in 2010 on			
Find circumstances	cultiva	cultivated land.			
Reference(s)	PAS GLO-E7DB52.				

Object Type and	Socketed axe – type uncertain.
Description	This is a short, almost bag-shaped, socketed axe with a sub- rectangular socket mouth and a single thick collar moulding. The side-loop is positioned just below the socket mouth on the moulding, and two widely-spaced vertical parallel ribs extend from below the moulding on both faces; there is no evidence of a third rib. The blade quickly flares to a crescentic cutting-edge, which has been heavily bevelled. It is difficult to find parallels for this axe. In many ways it is similar to South Welsh axes, but this axe is much better prepared. It possibly has some affinities with the Yorkshire type, which are comparable in terms of size and widely spaced ribs.

Location	Finder	Period	Ewart Park			
Completeness	100%	Details	Complete.			
Dimensions (mm)	L.61; W.44.					
Patina/Corrosion	Dark green patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been prepared and largely removed and the cutting-edge has been heavily hammered and bevelled. There is possible use-damage to the cutting-edge, but this is difficult to tell from the photos					
Damage	None.					

PAS-F198 Charlton Horethorne

Grid Ref.	ST 68	22 Altitude (m)			109
V					
Dryland		Wetland			Uncertain
Find circumstances	A knife	was found while metal-detecting in 2016.			6.
Reference(s)	PAS S	OM-BCDC68.			

Object Type and	Tanged and riveted knife.				
Description	This is an incomplete tanged and riveted knife with a leaf-shaped				
-	blade, with a biconvex	section, a square	e tang with a roughly circular		
	rivet hole, and rounded	d shoulders.			
Location	Finder	Period	Ewart Park		
Completeness	76-99%	Details	Tip broken.		
Dimensions (mm)	L.91.84; BI.W.18.29; B	I.Th.2.84; Wt.14.	03g.		
Patina/Corrosion	Pale brown patina with	green corrosion	delamination.		
Manufacture/Use	Difficult to tell, but probably prepared and used. The blade edges				
	have suffered extensive erosion, meaning details of use-wear are				
	obscured.				
Damage	The tip has broken and the blade is transversely bent. The blade has				
	suffered transverse bending at the mid-blade (c.8 degrees) and the				
	broken tip is slightly bent and twisted. This could have happened				
	post-deposition due to	the thin nature of	f the blade at this point		
	(0.4mm).		-		

PAS-F199 Charlton Musgrove I

Grid Ref.	ST 73	32	Altitude (m)		-
		6	N		
Dryland		Wet	land		Uncertain
Find circumstances	A pals land.	tave was found	while metal-dete	cting in	2012 on cultivated
Reference(s)	Knight	et al. 2015, 63,	No.372, Pl.18; F	PAS SO	M-F04C95.
Additional Notes	See PAS-F193. Thick iron pan on the palstave suggests it may have been deposited in a wetland situation.				
Object Type and Description	Gr.III palstave. This is a looped palstave with the remains of low flanges and a broad triangular blade with a curved cutting-edge. The side-loop is positioned above a sub-rectangular stop and there appears to be a shallow depression below the stop on the upper blade. The PAS record notes a low midrib, which is difficult to identify on the photos.				
Location	Finder		Period	Taunt	ton-Penard
Completeness	76-999	6	Details	Side-l fragm	loop broken; flanges entary; butt damage.
Dimensions (mm)	L.134.6; Bl.W.50; St.D.27.1; Wt.266g.				
Patina/Corrosion	Mottled green corrosion.				

Manufacture/Use	Prepared and possibly used. The casting material has been largely removed, and there is a faint bevel present on the blade. However, further signs of working and wear is obscured by corrosion.
Damage	The flanges of this palstave are fragmentary and there is minor material loss at the butt, which occurred in antiquity. The side-loop is also broken, but it is difficult to tell when this occurred.

PAS-F200 Charlton Musgrove II

Grid Ref.	ST 73	32	Altitude (m)	-
Dryland		Wetland		Uncertain
Find circumstances	A pals land.	ave was found	while metal-dete	ecting in 2012 on cultivated
Reference(s)	Knight et al. 2015, 63, No.373, Pl.17; PAS SOM-BED917.			
Additional Notes	See PAS-F193.			

Object Type and	Gr.III palstave.				
Description	This is a looped palstave with low flanges rising from the butt to the stop and a broad triangular blade with a curved cutting-edge. The side-loop is positioned above a rectangular stop and there is a shallow depression below the stop on the upper blade on one face.				
Location	Finder Period Taunton-Penard				
Completeness	76-99%	Details	One flange fragmentary		
			and broken side-loop.		
Dimensions (mm)	L.129.4; BI.W.39.2; St.	.D.24.8; Wt.258g.			
Patina/Corrosion	Extensive green corrosion.				
Manufacture/Use	Prepared. The casting material has been prepared and largely removed. It is difficult to identify further signs of use due to corrosion.				
Damage	One flange is fragmen broken.	tary as result of c	orrosion, and the side-loop is		

PAS-F201 Chedzoy II

Grid Ref.	ST 33	37	Altitude (m)		4
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	A sword fragment was found while metal-detecting in 2005 on cultivated land.			ting in 2005 on	
Reference(s)	Knight et al. 2015, 64, No.377, PI.26; PAS SOMDOR-E6A6F1.				
Additional Notes	Chedzoy is a low-lying wetland area, that was probably marshland during the Bronze Age.			probably marshland	

Object Type and	Sword – poss. Ewart F	Sword – poss. Ewart Park.				
Description	This is a mid-blade fra	This is a mid-blade fragment of a sword, with a low lozenge-section				
	and a flattened midrib,	, though no evide	nce of bevelled edges.			
Location	Finder	Finder Period Late Bronze Age				
Completeness	0-25% Details Mid-blade fragment.					
Dimensions (mm)	L.46.16; W.28.34; Th.5.28; Wt.28.96g.					
Patina/Corrosion	Mid-dark green patina.					
Manufacture/Use	Difficult to tell due to incompleteness. The midrib is quite flat and					
	may have been hammered.					
Damage	This sword has broken at both ends in antiquity, with consistent					
	patination, though no a	associated marks	5.			

PAS-F202 Chewton Mendip I

Grid Ref.	ST 60 53	3	Altitude (m)	-
		Γ		$\overline{\mathbf{A}}$

Dryland	Wetland		Uncertain	
Find circumstances	A spea cultiva	arhead tip was found while metal-detecting in 2010 on ted land.		
Reference(s)	Knight et al. 2015, 64, No.379; PAS SOM-DCCED7.			

Object Type and	Spearhead – type unc	Spearhead – type uncertain.				
Description	This is a tip fragment of a spearhead with a slight midrib, creating a					
	lozenge section. The tragment is quite narrow indicating the original blade may have been flame-shaped.					
Location	Finder Period Middle-Late Bronze Age					
Completeness	0-25% Details Tip fragment.					
Dimensions (mm)	L.27.21; W.15.65; Th.2.87; Wt.3.38g.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This is a tip fragment broken unevenly from the upper blade of a					
	spearhead in antiquity and is now very worn, obscuring any potential					
	casting flaws or assoc	iated marks.				

PAS-F203 Chewton Mendip II

Grid Ref.	ST 60	54	Altitude (m)	-		
Dryland		Wetland		Wetland Uncertain		Uncertain
Find circumstances	A mini	miniature socketed axe was found while metal-detecting in 2007				
Find circumstances	on cult	ultivated land.				
Reference(s)	Knight	ight et al. 2015, 64, No.380, Pl.24; PAS GLO-095477.				

Object Type and Description	Miniature socketed axe. This is a small object in a simple form of a socketed axe, with an oval socket and large circular side-loop at the mouth. This object may date between the Late Bronze Age to Romano-British period.					
Location	Finder Period Uncertain					
Completeness	100% Details Complete.					
Dimensions (mm)	L.18; W.13; Th.7; Wt.3.11g.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been worked and largely removed and there is a non-copper alloy substance in the socket, which may be part of a hafting system.					
Damage	None.					

PAS-F204 Chilcompton I

Grid Ref.	ST 63	50	Altitude (m)	199	
\checkmark		[
Dryland		We	tland	Uncertain	
Find circumstances	A spearhead was found while metal-detecting in 2013 on cultivate				
Find circumstances	land.				
Reference(s)	Knight	et al. 2015, 64,	No.381, Pl.28; P	AS GLO-FF6DB7.	
Object Type and	Side-lo	oped spearhea	d (Gr.5?)		
Description	This is	a side-looped s	spearhead with a	leaf-shaped blade and the	
	remair	s of side-loops	close to the sock	et mouth. The socket is	
	circula	r and extends a	s a circular midril	o onto the blade.	
Location	Finder		Period	Middle Bronze Age	
Completeness	76-99%	6	Details	Side-loops and tip broken.	
Dimensions (mm)	L.116; Bl.W.30; Th.19; Wt.58.82g.				
Patina/Corrosion	Green corrosion.				
Manufacture/Use	Prepared and possibly used. The casting material has been worked				
	and la	gely removed, a	and above the sid	le-loop on both sides is a	
	small r	ectangular hole	, which is presum	hably residual from the	

	casting process (e.g. where a pin was inserted to hold the coring in place. Corrosion obscures are features of use-wear.
Damage	The tip has broken off the upper blade, which could be ancient or the result of corrosion. Additionally, both side-loops have broken, leaving only stumps.

PAS-F205 Chilcompton II

Grid Ref.	ST 63 50 Altitude		ltitude (m)		202
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A blade fragment was found while metal-detecting in 2013 or			ting in 2013 on	
	cultiva	ultivated land.			
Reference(s)	Knight	Knight et al. 2015, 64, No.382, Pl.26; PAS GLO-FF53F7.			D-FF53F7.

Object Type and	Blade – probably a sw	Blade – probably a sword.				
Description	This is a mid-blade fragment of a double-edged implement,					
	considered to be a kni	fe on the PAS red	cord. The blade has a			
	rounded midrib, flankir	ng by a groove or	n each side and an overall			
	biconvex section, indicating it is more likely a fragment of sword.					
Location	Finder Period Late Bronze Age					
Completeness	0-25% Details Mid-blade fragment.					
Dimensions (mm)	L.35; W.26; Th.7; Wt.2	24.35g.				
Patina/Corrosion	Olive green patina with patches of pale green corrosion.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This blade has broken at both ends in antiquity, with consistent					
	patination, though no associated marks. There is at least one visible					
	casting flaw in the brea	ak.				

PAS-F206 Churchill

Grid Ref.	ST 46	60	Altitude (m)		-
		[\checkmark
Dryland		Wet	land	Uncertain	
Find circumstances	A pals	tave was found	while metal-dete	cting in	2010 on cultivated
Find circuitstances	land.				
Reference(s)	PAS G	LO-E7BBF5.			
Object Type and	Palsta	ve, probably Gr.	III.		
Description	This is	an unlooped pa	alstave with a bro	ad blad	e that flares to a
	cresce	ntic cutting-edg	e with tips at righ	t angles	s to the blade. The
	stop is	rectangular and	d there appears t	o be sha	allow side knobs on
	either	side. Below the	stop is a shallow	sub-tria	angular depression on
	the up	per blade on on	e face, and a ser	ni-circul	ar depression on the
	opposi	ite face. The flar	nges rise from the	e septur	n below the butt,
	though	h their exact forn	n is unclear from	the pho	tos available. The
	photos	suggest that th	e flanges were lo	w, thou	igh the PAS record
	notes t	them as "high"; i	t should be noted	d that de	etails of this record
	were n	nade from an en	nailed photograp	h.	
Location	Finder		Period	Taunt	ton-Penard
Completeness	100%		Details	Comp	olete.
Dimensions (mm)	L.163;	W.68.			
Patina/Corrosion	Brown patina with small patches of green corrosion.				osion.
Manufacture/Use	Prepar	ed and possibly	used. The casti	ng mate	rial has been worked
	and seemingly removed, and the cutting-edge has probably been				
	hammered out, though signs of this are difficult to tell from the				
	photos. The cutting-edge is very slightly asymmetrical, which could				
	be use	e-related, but oth	erwise the cuttin	ig-edge	looks devoid of nicks
	and ch	ips.			
Damage	None.				

PAS-F207 Clutton, Cameley

Grid Ref.	ST 62	58	Altitude (m)	126	
Ø					
Dryland		Wetla	and	Uncertain	
Find aircumstances	A pals	tave was found w	hile metal-dete	cting in or before 2006 on	
Find circumstances	cultiva	ted land.		-	
Reference(s)	PAS G	LO-F4D481.			
Object Type and	Gr.III p	alstave.			
Description	This is	a looped palstav	e with a broad	triangular blade, with a slightly	
_	curved	cutting-edge. Th	ie flanges rise i	n a convex curve from the	
	septun	n below the butt t	o a slight platea	au at the height of the stop.	
	The sid	de-loop is positio	ned below the s	sub-rectangular stop and there	
	is no e	vidence of decora	ation on the bla	de. The flanges seem to fall	
	within	the 'low' classification	ation, but it is di	fficult judge the exact breadth	
	of the	of the flanges and they could be Gr.IV. The PAS notes the			
	"thickness" of this palstave as 27mm, which likely refers to the				
	thickne	ess of the stop, in	dicating this is	most likely Gr.III.	
Location	Finder		Period	Taunton-Penard	
Completeness	76-99%	6	Details	Flanges fragmentary.	
Dimensions (mm)	L.152;	BI.W.51.			
Patina/Corrosion	Dark green corrosion.				
Manufacture/Use	Difficult to tell due to corrosion, but the casting material has been				
	worked	worked and largely removed.			
Damage	This pa	alstave is mostly	complete, but th	ne flanges are slightly	
	fragme	entary, which is lil	kely a result of a	corrosion.	

PAS-F208 Compton Dando

Grid Ref.	ST 62	67 Altitude (m)			83
Dryland		Wetland			Uncertain
Find circumstances	A knife	e was found while metal-detecting in 2014 on cultivated land.			4 on cultivated land.
Reference(s)	PAS G	LO-71F6AF.			

Object Type and	Plada probable knife			
Object Type and	Blade – probable krille			
Description	This is an incomplete r	narrow double-ed	ged blade in two refitting	
	pieces. It has a biconvex section with bevelled blade edges. One			
	end tapers towards a broken tip, while the opposite end has broken			
	below only possible hilt or tong. It is likely this was part of a knife			
Location	Finder	Period	Late Bronze Age	
Completeness	51-75%	Details	Broken blade in two refitting	
•			pieces.	
Dimensions (mm)	L.110; W.25; Th.4; Wt	.48.2g.		
Patina/Corrosion	Green patina with gree	en corrosion abra	sion around the edges.	
Manufacture/Use	Difficult to tell due to in	completeness, b	ut possibly preparation	
	indicated by the thinne	d edges.		
Damage	This blade has broken	into multiple piec	es, presumably in antiquity.	
-	The tip is absent as is	any indication of	a hilt or tang. The blade has	
	broken into two refitting	a nieces across t	he unner blade. No note is	
		g pieces acioss i		
	made whether any of t	nese damages a	re recent or ancient.	
	However, the blade is transversely curved in both directions,			
	creating a wave-like shape. The tip breakage is associated with a			
	slight bend, while the uppermost break has a prominent transverse			
	band around 20 degraps. The refitting breakings appurred class to			
	benu alounu so degre	es. The renuing b		
	these bends, but does	not appear to be	directly associated so may	
	be post-depositional.			

PAS-F209 Curry Rivel

Grid Ref.	ST 38	24	Altitude (m)		-
				\checkmark	
Dryland		Wetland			Uncertain
Find circumstances	A chis	sel was found while metal-detecting in 2008 on culti			08 on cultivated land.
Reference(s)	Knight	Knight et al. 2015, 64-65, No.385; PAS SOM-256407.			256407.

Object Type and	Bar chical				
Object Type and	Dai chisei.	Bar chisel.			
Description	This is a narrow coppe	er alloy bar with a	sub-rectangular section,		
•	tapering and flattening to one end, forming a chisel-like form.				
Location	Finder	Period	Bronze Age		
Completeness	76-99%	Details	Broken at bar end.		
Dimensions (mm)	L.52.8; W.6.5; Th.4.3;	Wt.6.5g.			
Patina/Corrosion	Mottled green and brown corrosion.				
Manufacture/Use	Prepared and possibly used. The chisel end appears worn and the				
	chisel is bowed along its length, which could be use-related.				
Damage	The chisel has broken	at one end, prob	ably in antiquity.		

PAS-F210 Doulting

Grid Ref.	ST 64	45	Altitude (m)	278	
Dryland		Wetland		Uncertain	
Find circumstances	A pals land.	tave was found	while metal-dete	cting in 2013 on c	ultivated
Reference(s)	Knight et al. 2015, 65, No.387, Pl.19; PAS SOM-0F85D7.				

Object Type and	Flanged axe.		Flanged axe.			
Description	This is a narrow-bladed, unlooped axe, with the remains of very low					
	flanges that merge into	o the stop ridge, t	hough it is difficult to tell the			
	form of the stop from the	he photo. The bla	de expands slightly to a			
	curved cutting-edge ar	nd the overall obje	ect is very thin. Just below			
	the stop is a protrusior	<u>) on each side, kr</u>	own as lugs or 'trunnions'.			
Location	Finder	Period	Middle Bronze Age			
Completeness	100%	Details	Complete.			
Dimensions (mm)	L.123.4; BI.W.26.8; Wt	t.111g.				
Patina/Corrosion	Dark brown patina with mottled green corrosion.					
Manufacture/Use	Difficult to tell, but the cutting-edge is asymmetrical, which could be					
	linked to wear and the	re is no sign of ca	sting material.			
Damage	None.					

PAS-F211 Downhead

Grid Ref.	ST 67	46	Altitude (m)		242
\checkmark					
Dryland		Wetland		Uncertain	
Find aircumatanaga A sock		socketed hammer was found by chance in 2016 on cultivated			
Find circuitistances	land.	land.			
Reference(s)	PAS SOM-B048D1.				

Object Type and	Type 1 socketed hammer.			
Description	This is a slender, square-socketed hammer, with thick socket walls. It is weighted towards the hammer face, which is uneven, rounded and appears well worn.			
Location	Finder	Period	Middle-Late Bronze Age	
Completeness	100% Details Complete.			
Dimensions (mm)	L.86.11; W.27.55; Wt.250g.			
Patina/Corrosion	Mottled green patina/c	orrosion.		

Manufacture/Use	Prepared and used. The casting material has been worked and removed and the hammer end appears to be heavily worn.
Damage	None.

PAS-F212 East Coker

Grid Ref.	ST 54	13	Altitude (m)	52
		[
Dryland		Wet	land	Uncertain
Find aircumstances	A blad	e fragment was	found while met	al-detecting in 2012 on
rind circumstances	cultivated land.			
Reference(s)	Knight	et al. 2015, 65,	No.388; PAS SO	OM-2660B4.
Object Type and	Blade	 type uncertain 	l.	
Description	This is	a mid-blade fra	gment of a doub	le-edged implement with a
	biconv	ex section and a	a broad flattened	midrib. The blade is quite
	slende	r, but the origina	al form is uncerta	ain and the PAS record
	sugges	sts it was once p	part of a knife or	rapier.
Location	Finder		Period	Middle-Late Bronze Age
Completeness	0-25%		Details	Mid-blade fragment.
Dimensions (mm)	L.38.9; W.13.5; Th.3.8; Wt.7.58g.			
Patina/Corrosion	Dark green patina, largely delaminated with pale green corrosion.			
Manufacture/Use	Difficult to tell due to incompleteness, but the blade edges may have			
	been worked.			
Damage	This is	a fragment of a	blade, broken a	t both ends in antiquity. There
	are no	associated mar	ks or casting flav	NS.

PAS-F213 Evercreech

Grid Ref.	ST 65	37 Altitude (m)	-
			\square
Dryland		Wetland	Uncertain
Find circumstances	A spea cultiva	rhead fragment was found while ed land.	e metal-detecting in 1990 on
Reference(s)	PAS S		
	-		

Object Type and	Plain pegged spearhead (Gr.13 Filleted).				
Description	This is the tip and upper blade of a spearhead with a thick, circular				
	midrib, flanked by a ca	ast fillet (alternativ	ely rib) on either side.		
	This is only the second	d filleted spearher	ad known from south west		
	England, with the first	from the Wick Pa	rk hoard.		
Location	Finder	Period	Wilburton-Ewart Park		
Completeness	0-25% Details Tip fragment.				
Dimensions (mm)	L.90.8; W.27.5; Th.11.	5.			
Patina/Corrosion	Dark green patina.				
Manufacture/Use	Difficult to tell from the photo, but the edges are bevelled and may				
	show signs of use.				
Damage	This spearhead has broken across the upper blade in antiquity so				
	only the tip and upper blade survives. There are no associated				
	marks or casting flaws				
	Breakage: W.27.5: Th.11.5.				

PAS-F214 Glastonbury II

Grid Ref.	ST 50	38 Altitude (m)			77
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A flat a	axe was found w	hile metal-deted	ting in 1	999.
Reference(s)	Knight	et al. 2015, 65, No.390, Pl.17; PAŠ HAMP111.			/IP111.

Object Type and	Developed flat axe (Class 4)					
Description	This is an axe with low hammered flanges and a transverse median					
_	bevel. The butt is narro	ow and rounded a	and the sides gently diverge			
	to a broad curved cutti	ng-edge.				
Location	Finder	Period	MA IV Aylesford			
Completeness	100% Details Complete.					
Dimensions (mm)	L.128; Bl.W.68; Wt.282g.					
Patina/Corrosion	Pale green corrosion.					
Manufacture/Use	Prepared and possibly used. It is difficult to tell due to extreme surface delamination, but there appears to be no casting material surviving and the cutting-edge has been hammered and bevelled. There is possibly some slight asymmetry of the blade and one tip appears to be more rounded than the other.					
Damage	None.					

PAS-F215 Hemington

Grid Ref.	ST 76	54 /	Altitude (m)	124		
Ø						
Dryland		Wetla	and	Uncertain		
Find circumstances	An inc	omplete socketed	l axe was found	I while metal-detecting in		
Find circuitistances	2013.					
Reference(s)	Knight	et al. 2015, 65, N	<u>lo.391; PAS WI</u>	LT-71FCB7.		
Object Type and	Socket	ted axe – poss. So	ompting Varian	t Tower Hill.		
Description	This is	a fragment of the	e upper body an	nd side of a socketed axe,		
	with a	small circular side	e-loop surviving	intact. The body is plain and		
	there is	s the remains of a	a deep, plain co	llar moulding. The surviving		
	sectior	n of corner indicate	es a square or	rectangular body, which		
	would	indicate a Somptii	ng type.			
Location	Finder		Period	Llyn Fawr		
Completeness	0-25%		Details	Upper body and side		
				fragment.		
Dimensions (mm)	L.43.9	; W.25.9; Wt.9.77	g.			
Patina/Corrosion	Pale g	reen patina.				
Manufacture/Use	Difficu	t to tell due to inco	ompleteness. A	casting seam is visible down		
	the sid	e, which may hav	ve been worked			
Damage	This so	ocketed axe has b	oroken unevenly	y down one face and around		
	the side in antiquity, through the socket walls, but the side-loop					
	survive	es intact. There ar	re no associate	d marks or visible casting		
	flaws.					
	Break	age: Th.2.7.				

PAS-F216 Holford

Grid Ref.	ST 16	41 Altitude (m)			-
		5	Z		
Dryland		Wet	land		Uncertain
Find circumstances	A sock cultiva	eted axe was found while metal-detecting in 2011 ted land.			ng in 2011 on
Reference(s)	Knight et al. 2015, 65, No.382, Pl.30; PAS SOM-63A847.			M-63A847.	
Additional Notes	The Pa with m agricu Comm	AS records states: "The area this any drainage ditches and stream Itural drainage work, still suffers pents on this object have been pr		s axe ca ns and, o from oco rovided l	me from is very level despite modern casional flooding." by Brendan O'Connor.
Object Type and	Taunto	on-Hademarschen axe, variant.			
Description	This is than th	a slender, unloo e typical square	oped socketed a mouth. The boo	xe with a dy slight	an oval socket, rather ly expands to a

	straight cutting-edge, and the mouth is defined by a shallow rounded moulding. This is a variant of the standard Taunton-Hademarschen axe and dates to the Ewart Park phase. The mouth is covered by iron pan build up, but the axe was x-rayed revealing wood preserved in the socket, suggesting an originally wetland deposit.				
Location	Finder	Period	Ewart Park		
Completeness	76-99%	Details	Blade tips missing.		
Dimensions (mm)	L.104.8; Bl.W.29.4; Sock.Diam.Ext.30.3x24.6; Wt.143g.				
Patina/Corrosion	Mottled green and brown corrosion.				
Manufacture/Use	Difficult to tell due to corrosion, but presumably prepared and used.				
Damage	This axe is largely com	This axe is largely complete, but the tips of the blade have			
	fragmented away as a	result of corrosio	n.		

PAS-F217 Horrington Hill, Wells See WEL-F003.

PAS-F218 IIchester I

Grid Ref.	ST 52	24	Altitude (m)		-	
		C			$\mathbf{\nabla}$	
Dryland		Wetland Uncertain			Uncertain	
Find circumstances	A spearhead fragment was found while metal-detecting in 2011 on cultivated land.					
Reference(s)	Knight	et al. 2015, 65,	No.394; PAS SC	MDOR	-3396D3.	
Additional Notes	Another spearhead fragment (PAS-F219) was found while metal- detecting in the same field. It is possible they were once associated objects that have since been dispersed.					
Object Type and	Spearl	nead – type unce	ertain.			
Description	This is	a mid-blade frag	gment of a socke	eted spe	earhead, tapering to	
	one er	nd, indicating it h	as broken from t	he uppe	er blade. The blade	
	has a	prominent midrik	 creating a thick 	lozeng	je section.	
Location	Finder		Period	Middl	e-Late Bronze Age	
Completeness	0-25%		Details	Mid-b	lade fragment.	
Dimensions (mm)	L.42.2	; Th.7.8; Wt.13.5	58g.			
Patina/Corrosion	Dark brown patina.					
Manufacture/Use	Difficult to tell but seemingly prepared.					
Damage	This fragment has broken at both ends in antiquity across the upper					
_	blade of a spearhead. There are no associated marks or casting					
	flaws.	flaws.				
	Tip br	eakage: W.9.4.				
	Mid-bl	ade breakage:	W.17.2.			

PAS-F219 IIchester II

Grid Ref.	ST 52	24	Altitude (m)	-
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A spea cultiva	pearhead fragment was found while tivated land.		e metal-detecting in 1996 on
Reference(s)	Knight	night et al. 2015, 65-66, No.395; PAS SOMDOR-3396D3.		
Additional Notes	See P	ee PAS-F218.		

Object Type and Description	Spearhead – type uncertain. This is an upper blade fragment of a parrow-bladed spearhead, with				
•	a rounded midrib. There are no further diagnostic features.				
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	0-25% Details Broken across mid-blade				
			and tip missing.		

Dimensions (mm)	L.56.05; Th.9.56; Wt.19.48g.
Patina/Corrosion	Olive green patina.
Manufacture/Use	Difficult to tell due to incompleteness.
Damage	This fragment has broken across the upper blade of a spearhead in antiquity and the very tip has broken away. There are no associated marks or visible casting flaws. Breakage: W.14.26.

PAS-F220 Keynsham

Grid Ref.	ST 64	69 Altitude (m)			-
				\checkmark	
Dryland		Wetland			Uncertain
Find circumstances	A sock 2009 a	eted axe fragment was found whn nd 2010 on cultivated land.		hile met	al-detecting between
Reference(s)	PAS G	S GLO-55A002.			

Object Type and Description	Socketed axe – type uncertain. This is a corner fragment of the cutting-edge of a socketed axe, with possibly faceted sides.					
Location	Finder	Period	Late Bronze Age			
Completeness	0-25%	Details	Corner fragment of cutting- edge.			
Dimensions (mm)	L.25; W.18; Th.11; W	L.25; W.18; Th.11; Wt.12.93g.				
Patina/Corrosion	Green patina.					
Manufacture/Use	Difficult to tell due to incompleteness, but the casting material seems to have been worked.					
Damage	This is a blade tip frag broken just above the antiquity. There are no	ment of the cutti socket aperture associated ma	ng-edge of a socketed axe, and through the blade in rks or casting flaws.			

PAS-F221 Kingsdon I

Grid Ref.	ST 52	25 Altitude (m)			19
					\checkmark
Dryland		Wetland			Uncertain
Find circumstances	A chise	A chisel was found while metal-detecting in 2014 on cultivated land.			14 on cultivated land.
Reference(s)	Knight et al. 2015, 66, No.400, PI.30; PAS SOM-589161.				

Object Type and	Tanged chisel.				
Description	This is a chisel with a slender rectangular-section tang that expands with concave sides to a triangular blade with a slightly damaged cutting-edge. There is no collar or stop present.				
Location	Finder Period Late Bronze Age				
Completeness	76-99%	Details	Damaged cutting-edge.		
Dimensions (mm)	L.58.9; Bl.W.17.5; Th.5.8; Wt.14.16g.				
Patina/Corrosion	Dark brown patina.				
Manufacture/Use	Difficult to tell, but possibly used.				
Damage	The cutting-edge of this chisel has suffered minor material loss,				
	possibly in antiquity or	through post-dep	positional processes.		

PAS-F222 Kingsdon II

Grid Ref.	ST 51	24 Altitude (m)			-
Dryland		Wetland			Uncertain
Find circumstances	An aw	An awl was found while metal-detecting in 2011 on cultivated land.			1 on cultivated land.
Reference(s)	Knight	Knight et al. 2015, 66, No.401, Pl.29; PAS SOM-D995B1.			

Object Type and Description	Single-pointed awl. This is a rectangular-section copper alloy bar that thickens at the centre and tapers to a circular point at one end. The opposite end tapers to a blunt, rectangular-section tang.				
Location	Finder Period Late Bronze Age				
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.44.2; Diam.4.7; Wt.3.51g.				
Patina/Corrosion	Mottled green patina.				
Manufacture/Use	Prepared and possibly used.				
Damage	None.				

PAS-F223 Kingsdon III

Grid Ref.	ST 50	26 Altitude (m)			69
☑					
Dryland		Wetland			Uncertain
Find circumstances	A sock	cketed axe fragment was found while metal-detecting in 2014.			
Reference(s)	PASV	/ILT-997445.			

Object Type and	Socketed axe - type u	Socketed axe – type uncertain.				
Description	This is a mouth and co	ollar fragment of a	a socketed axe with a shallow			
	rounded collar. The re	mains of the corr	er indicate the socket was			
	probably sub-rectangu	ilar. No further dia	agnostic features survive.			
Location	Finder	Period	Late Bronze Age			
Completeness	0-25% Details Socket mouth fragment.					
Dimensions (mm)	L.24.02; W.16.81; Th.	L.24.02; W.16.81; Th.10.71; Wt.8.47g.				
Patina/Corrosion	Green patina.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	A fragment of the socket mouth and collar has broken away from the					
	side of a socketed axe in antiquity. There are no associated marks					
	or casting flaws.	-				

PAS-F224 Langford Budville

Grid Ref.	ST 11	22* Altitude (m)		-					
									\blacksquare
Dryland		Wetland		L	Jncertain				
Find circumstances	A sock	A socketed axe was found while gardening in 2007.							
Reference(s)	Knight	Knight et al. 2015, 66, No.402, PI.24; PAS SOM-C03882.							

Object Type and Description	South-eastern socketed axe. This is an incomplete socketed axe with the remains of a sub- rectangular mouth and collar moulding adorned with four horizontal linear mouldings. The side-loop survives below the break. The axe is otherwise plain and the body slightly expands to a curved cutting- edge.				
Location	Finder	Period	Ewart Park		
Completeness	76-99%	Details	Socket incomplete.		
Dimensions (mm)	L.89.8; Bl.W.50.7; Wt.2	274g.			
Patina/Corrosion	Dark brown patina.				
Manufacture/Use	Prepared and used. The	ne casting materia	al has been worked and		
	largely removed and the cutting-edge appears to be blunt and is				
	heavily asymmetrical suggesting extensive reworking.				
Damage	About two-thirds of the	socket mouth ha	as fragmented in antiquity, but		
	there are no associate	d marks.			

PAS-F225 Langport

Grid Ref. ST 42 26 Altit	ude (m) -
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			${\bf \boxtimes}$
Dryland	Dryland Wetland		Uncertain
Find circumstances	A razor was found while metal-detecting in 2006.		
Reference(s)	Knight	et al. 2015, 66, No.401, Pl.29; F	PAS SOMDOR-00AC13.

Object Type and	Razor.				
Description	This is an incomplete, roughly leaf-shaped blade with fragmentary				
	edges and tip. It is des	cribed as a 'knife	on the PAS record, but is		
	most likely the blade o	f a leaf-shaped ta	anged razor.		
Location	Finder	Period	Late Bronze Age		
Completeness	51-75%	Details	Blade piece, with		
			fragmentary edges.		
Dimensions (mm)	L.83.7; W.25.3; Th.2.3; Wt.15.84g.				
Patina/Corrosion	Mottled green corrosion.				
Manufacture/Use	Difficult to tell due to fragmentary nature.				
Damage	If this blade possessed a tang it has broken off, either in antiquity or				
_	post-deposition. The edges are uneven and fragmentary, which may				
	reflect a combination of antiquated and post-depositional damage.				
	Further details are diff	icult to identify fro	m the photo.		

PAS-F226 Long Ashton

Grid Ref.	ST 55	70	Altitude (m)		-
Dryland		Wetland		Uncertain	
Find circumstances	A sock on cult	ocketed axe fragment was found wh cultivated land.		hile met	al-detecting in 2009
Reference(s)	PAS GLO-B7F8D3.				

Object Type and	Socketed axe – type uncertain.				
Description	I his is a broad, curved	d cutting-edge of	a socketed axe; no photos or		
	descriptions are availa	ible of the shape	of the surviving socket.		
	There are no further d	lagnostic features	S		
Location	Finder Period Late Bronze Age				
Completeness	0-25% Details Cutting-edge fragment.				
Dimensions (mm)	L.19; W.38.				
Patina/Corrosion	Pale brown patina.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This is the cutting-edge of a socketed axe broken above the socket				
	aperture in antiquity. There are no associated marks visible of the				
	photographed face.				

PAS-F227 Martock

Grid Ref.	ST 45	17	Altitude (m)		53-57
		[\checkmark
Dryland		Wet	tland		Uncertain
Find circumstances	Two fragments of a socketed axe and a blade were found in the same field while metal-detecting in 2017 on cultivated land. The finds were found several months apart, but see Additional Notes.				
Reference(s)	PAS SOM-3670EC; SOM-9C5F54.				
Additional Notes	On 3 rd April 2017 (i.e. after the cut-off for this catalogue), the two objects were submitted for consideration as Treasure under the PAS number: SOM-215024. Mr Wil Partridge (pers. comm. 20/04/2017) comments "Once we had created the records and seen how close the two find spots were together it was decided to put them through treasure as a potential board to be safe."			atalogue), the two easure under the PAS comm. 20/04/2017) and seen how close d to put them through	

PAS-F227a

Object Type and	Socketed axe – type uncertain.				
Description	This is a narrow lower	blade and slightly	y curved cutting-edge of a		
_	socketed axe, with the	remains of a sub	p-rectangular socket.		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25% Details Cutting-edge fragment.				
Dimensions (mm)	L.37.4; W.10.4; Wt.30.64g.				
Patina/Corrosion	Pale green corrosion causing surface delamination.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This is the cutting-edge of a socketed axe broken unevenly above				
_	the socket aperture and through the lower body of the axe in				
	antiquity. There are no associated marks, but a photograph of the				
	break shows that the metal is quite porous.				

PAS-F227b

Object Type and Description	Blade – poss. sword. This is a narrow mid-blade fragment of a double-edged implement, with a biconvex section and a flattened midrib. It probably belonged to a sword.				
Location	Finder Period Late Bronze Age				
Completeness	0-25%	Details	Mid-blade fragment.		
Dimensions (mm)	L.12.9; W.14.2; Th.4.1; Wt.2.81g.				
Patina/Corrosion	Green corrosion.				
Manufacture/Use	Difficult to tell due to corrosion and incompleteness.				
Damage	This fragment has bee	n broken at both	ends in antiquity.		

PAS-F228 Milborne Port II

Grid Ref.	ST 67	20	Altitude (m)		-				
									\checkmark
Dryland		Wetland			Uncertain				
Find circumstances	An aw	was found while metal-detecting		g in 200	6 on cultivated land.				
Reference(s)	Knight	t et al. 2015, 66, No.405, Pl.29; PAS SOMDOR-CE2E67.			MDOR-CE2E67.				

Object Type and	Single-pointed awl.				
Description	This is a circular section copper alloy bar, which tapers to a flat tang				
-	at one end and a conid	cal point at the ot	ner.		
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	100% Details Complete.				
Dimensions (mm)	L.56.09; Diam.3.41; Wt.3.2g.				
Patina/Corrosion	Mottled green/brown patina.				
Manufacture/Use	Prepared and possibly used. The awl is transversely bent about 20				
	degrees, at the transitional point from the main body to the tapering				
	tang, which is probably linked to use.				
Damage	Complete, but transverselv bent – see above.				

PAS-F229 Minehead

Grid Ref.	SS 97 46 Alt		Altitude (m)	18	
				$\overline{\mathbf{N}}$	
Dryland		Wetland		Uncertain	
Find circumstances	A palstave fragment was found by chance in 2015.				
Reference(s)	PAS SOM-63A448.				
Object Type and	Palstave – type uncertain.				

Description	This is a fragment of a palstave with the remains of a u-shaped stop
	ridge and no indication of decoration on the upper blade. There is

	the lower stump of a side-loop on one side. It is difficult to accurately identify this type of palstave from the fragment.					
Location	Finder	Finder Period Middle Bronze Age				
Completeness	0-25% Details Upper blade fragmen					
Dimensions (mm)	L.57; W.27.8; Th.20.4; Wt.103.92g.					
Patina/Corrosion	Patches of brown patina; mostly delaminated with pale green					
	corrosion.					
Manufacture/Use	Difficult to tell due to incompleteness, but the surviving sides indicate					
	worked casting seams.					
Damage	This palstave has broken across the upper blade and across the					
	stop ridge in antiquity. Additionally, the side-loop has broken. There					
	are no associated marks.					

PAS-F230 Misterton II

Grid Ref.	ST 44 08		Altitude (m)		86
\checkmark	[
Dryland		Wetland		Uncertain	
Find circumstances	A pin was found while		metal-detecting	in 2015	2016 on cultivated
Find circumstances	land.				
Reference(s)	PAS SOM-1EC49B.				

Object Type and	Quoit-headed pin.			
Description	This is an incomplete p	oin with a circular	ring-head, with flat faces and	
	a circular section shaft	, which tapers to	a break.	
Location	Finder	Period	Taunton	
Completeness	51-75%	Details	Broken across the shaft.	
Dimensions (mm)	L.50.35; Head Diam.Ext.27.93; Head Diam.Int.15.73; Shaft			
	Diam.5.41; Wt.9.77g.			
Patina/Corrosion	Dark green patina.			
Manufacture/Use	Prepared and possibly used.			
Damage	This pin has broken across the shaft in antiquity. There are no			
	associated marks or casting flaws.			
	Breakage: W.2.17.			

PAS-F231 Mudford

Grid Ref.	ST 56	19	Altitude (m)		-	
Dryland		Wet	land		Uncertain	
Find circumstances	A gold cultiva	sheet fragment ted land.	was found while	metal-c	letecting in 2005 on	
Reference(s)	Knight Treasu	et al. 2015, 66, ire Annual Repo	No.407, Pl.26; P ort 2005-6, 20, No	AS SOI 0.13.	MDOR-D3E8B7;	
Object Type and	Gold o	rnament.				
Description	This is	a small piece of	f sheet gold, whic	ch is rou	ughly ogival in plan,	
	taperir	ig to a rounded t	terminal at one er	nd. The	sheet has been	
	perfora	ated through the	terminal end, an	d the lo	ng edges have been	
	flattened. It is possible it was an ear ornament.					
Location	TTNC	VI 111/2006	Period	Middle	e Bronze Age	
Completeness	Uncert	ain	Details	Strip/s	sheet fragment.	
Dimensions (mm)	L.21.2	L.21.2; W.9.5; Th.0.5; Wt.0.86g.				
Patina/Corrosion	n/a					
Manufacture/Use	Difficult to tell, but seemingly prepared for use, having been					
	hammered and pierced.					
Damage	This fr	This fragment is distorted and has been torn across the lower edge.				
_	The ov combin	verall object is sl nation of ancient	ightly warped and pos	d the da st-depo:	amages are probably a sitional processes.	

PAS-F232 Nailsea, Wraxall and Failand

Grid Ref.	ST 48	71	Altitude (m)		-	
		Γ			\checkmark	
Dryland		Wetland Uncertain				
Find circumstances	A flat axe was found while metal-detecting in 2011 on cultivated land.					
Reference(s)	Knight WAW-	et al. 2015, 72, 5E5FB8.	No.459, Pl.14; P	PAS LAN	ICUM-6A0ED6;	
Additional Notes	This ol differe dimens	This object has been recorded twice under two different records with different dates of discovery, but with the same spatial and dimensional data indicating it is the same axe.				
Object Type and Description	Flat axe (Class 3?) This is a small sub-triangular flat axe with a slightly curved cutting- edge. The sides of the axe are straight, rather than concave, and the butt is rounded. The patches of blue corrosion could indicate this axe has a pure or high copper composition					
Location	Finder		Period	Early	Bronze Age	
Completeness	76-99%	/o	Details	Comp two re recov	ete, but broken into ofitting pieces post- ery.	
Dimensions (mm)	L.117.99; Bl.W.55.95; Th.8.08; Wt.182g.					
Patina/Corrosion	Mottled grey/green patina, with patches of blue corrosion.					
Manufacture/Use	Prepared and possibly used. The cutting-edge is slightly					
	asymmetrical, suggesting wear.					
Damage	One bl Additic but it is	ade tip has brok mally, the axe is s difficult to knov	en off post-recov transversely cur how to attribute	very and ved/bov this da	d survives refitting. wed along its length, mage.	

PAS-F233 Near Spaxton, Spaxton

Grid Ref.	ST 22	37 Altitude (m)			-
				\checkmark	
Dryland		Wetland		Uncertain	
Find circumstances	A palstave fragment was found while metal-detecting in 2009 or cultivated land.				tecting in 2009 on
Reference(s)	Knight et al. 2015, 70, No.433; PAS SOM-9810A6.				

Object Type and	Palstave – type uncertain.				
Description	This is a but fragment of a palstave with the beginnings of flanges				
	rising from the butt end	d. There are no fu	Irther diagnostic features.		
Location	Finder	Period	Middle Bronze Age		
Completeness	0-25% Details Butt fragment.				
Dimensions (mm)	L.28.6; W.21.7; Th.10.2; Wt.23.4g.				
Patina/Corrosion	Dark green patina in patches; largely surface delamination.				
Manufacture/Use	Difficult to tell due to incompleteness, but the casting material has				
	been removed from the surviving fragment.				
Damage	The butt has broken away from the palstave in antiquity. There are				
	no associated marks o	r casting flaws.			

PAS-F234 North Petherton II

Grid Ref.	ST 29	29 Altitude (m)			33
Dryland		Wetland			Uncertain
Find circumstances	A spea cultiva	arhead piece was found while metal-detecting in 2014 on ted land.			ecting in 2014 on

Reference(s)	PAS SOM-028812.

Object Type and Description	Spearhead – probably plain pegged (Type 11) or possibly basal- looped (Gr.8).					
	This is the upper blade and tip of a socketed spearhead with a rounded midrib and flat blade wings. The surviving curve of the wings indicate this was probably a flame-shaped blade and the socket was probably circular with either peg holes or basal loops.					
Location	Finder Period Middle-Late Bronze Age					
Completeness	26-50% Details Upper blade and tip piece.					
Dimensions (mm)	L.68.2; W.27.8; Th.12.3; Wt.27.48g.					
Patina/Corrosion	Brown patina with patches of green corrosion.					
Manufacture/Use	Difficult to tell due to incompleteness, but the edges appear to have been bevelled slightly.					
Damage	This spearhead has broken unevenly across the blade and through the socket hollow in antiquity. The break is described as "worn" and there are no associated marks or casting flaws.					

PAS-F235 Norton Malreward

Grid Ref.	ST 60	66 Altitude (m)	-	
			${\bf \boxtimes}$	
Dryland		Wetland	Uncertain	
Find circumstances	A sock	ocketed axe was found by chance in 2006 on cultivated land.		
Reference(s)	Knight	Knight et al. 2015, 67, No.411; PAS GLO-57A477.		

Object Type and	Type Welby socketed	axe.			
Description	This is a ribbed socketed axe with straight sides flaring to a curved				
	cutting-edge and a sub	o-rectangular soc	ket There are three vertical		
	ribe on both force bole	o de en reved			
	hos on both laces beit	w a deep, rounde	ed collar moulding, from		
	which the side-loop or	iginates. It is inco	rrectly classified as a		
	Yorkshire type on the PAS record.				
Location	Finder Period Ewart Park				
Completeness	100% Details Complete.				
Dimensions (mm)	L.90; Bl.W.42; Wt.241.65g.				
Patina/Corrosion	Brown patina, with patches of pale green corrosion causing surface				
	delamination.				
Manufacture/Use	Prepared and used. The casting material has been worked and				
	largely removed, and vertical striations are visible along the cutting-				
	adap indicating upp and reworking				
	euge muicating use an	iu ieworking.			
Damage	None.				

PAS-F236 Norton Sub Hamdon

Grid Ref.	ST 46	15	Altitude (m)		36
		[N
Dryland		Wet	land		Uncertain
Find circumstances	A blad	A blade fragment was found while metal-detecting in 2013 on grassland			
Reference(s)	PAS S	OM-207369.			
Object Type and	Blade – type uncertain.				
Description	This is a tip fragment of a slender double-edged blade with a thin biconvex section. It probably belongs to a sword, but could also be a rapier or knife.				
Location	Finder	Period Middle-Late Bronze Ag			e-Late Bronze Age
Completeness	0-25%	% Details Tip fragment.			agment.
Dimensions (mm)	L.51.8; W.17.55; Th.3.4; Wt.10.34g.				
Patina/Corrosion	Green patina.				

Manufacture/Use	Difficult to tell due to incompleteness, but slightly bevelled at the blade edges.
Damage	The tip of a blade has broken off in antiquity. There are no associated marks or casting flaws. Breakage: W.17.55.

PAS-F237 Otterhampton I

Grid Ref.	ST 25	43 Altitude (m)	-		
		$\overline{\mathbf{A}}$			
Dryland		Wetland	Uncertain		
Find circumstances	A blad	A blade fragment was found while metal-detecting in 2007.			
Reference(s)	Knight	night et al. 2015, 67, No.414; PAS SOM-7F28E7.			

Object Type and	Sword – poss. Ewart Park.					
Description	This is a mid-blade fragment of a sword, with a lozenge-section.					
•	though no evidence of	bevelled edges.	· · · · · · · · · · · · · · · · · · ·			
Location	Finder	Period	Late Bronze Age			
Completeness	0-25% Details Mid-blade fragment.					
Dimensions (mm)	L.18.7; W.29.4; Th.6.4; Wt.12.8g.					
Patina/Corrosion	Olive green patina.					
Manufacture/Use	Difficult to tell due to incompleteness, but no signs of bevelling or					
	working on the edges.					
Damage	This sword has broken at both ends in antiquity, with consistent					
_	patination, though no a	associated marks	patination, though no associated marks or casting flaws.			

PAS-F238 Otterhampton II

Grid Ref.	ST 25	42 Altitude (m)			-
Dryland		Wetland			Uncertain
Find circumstances	An aw	was found while metal-detectin		g in 200	7 on cultivated land.
Reference(s)	Knight	et al. 2015, 67, No.413, Pl.29; PAS SOMDOR-E51C44.			

Object Type and	Single-pointed awl.						
Description	This is a square section copper alloy bar, which tapers to a flat tang						
	at one end and a conic	al point at the otl	ner.				
Location	Finder	Finder Period Bronze Age					
Completeness	76-99% Details Damage to tang.						
Dimensions (mm)	L.60.1; W.4.7; Th.4.6; Wt.5.2g.						
Patina/Corrosion	Mottled green/brown patina.						
Manufacture/Use	Prepared and possibly used. The point is still very sharp.						
Damage	There is some minor material loss at the tang end, which is likely						
	post-depositional.						

PAS-F239 Portbury I

Grid Ref.	ST 49	75 Altitude (m)	-		
			\square		
Dryland		Wetland	Uncertain		
Find circumstances	A pin v	n was found while metal-detecting in 2011 on cultivated land.			
Reference(s)	Burnet	Burnett 2014, 138; PAS GLO-439E61.			

Object Type and	Picardy pin.
Description	This is a complete pin with a hollow, circular head, within which a
	stone would have been set. The area around the head has been
	incised with short, vertical grooves. The shaft tapers in slightly,
	before expanding to a swollen shaft, which is adorned with a
	horizontal rib and groove decoration in a band covering the swelling.

	Below the swelling the shaft tapers in again and there is a small circular side-loop, before the shaft continues to a tapered, circular-section point.					
Location	Finder	Period	Middle Bronze Age			
Completeness	100%	Details Complete, but bent.				
Dimensions (mm)	L.170; Diam.6; Wt.22.11g.					
Patina/Corrosion	Dark green patina.					
Manufacture/Use	Prepared and used. The pin has suffered two bends along the undecorated section of lower shaft, meaning the tip is at approximately a 90-degree bend to the head of the pin. This is possibly use-related.					
Damage	The pin is complete, but bent. It is uncertain whether this is deliberate, use-related (see above), or post-depositional damage.					

PAS-F240 Portbury II

Grid Ref.	ST 49	74	Altitude (m)		25	
		Γ			\checkmark	
Dryland		Wet	land		Uncertain	
Find circumstances	A razo	r was found whi	le metal-detectir	ng in 201	13 on cultivated land.	
Reference(s)	PAS G	LO-3912E5.				
Object Type and	Single-edged razor.					
Description	This is edge a	a roughly triang and a wide, straig	ular blade with a ght tang set abo	a broad, ve it.	crescentic cutting-	
Location	Finder		Period	Late	Bronze Age	
Completeness	100%	Details Complete.				
Dimensions (mm)	L.35; W.41; Th.3; Tang W.9; Wt.13.17g.					
Patina/Corrosion	Brown patina, pitted with corrosion.					
Manufacture/Use	Difficult to tell, but seemingly prepared.					
Damage	None.					

PAS-F241 Portishead

Grid Ref.	ST 46	76 Altitude (m)			-
					\checkmark
Dryland		Wetland		Uncertain	
Find circumstances	A sock woodla	A socketed knife was found while metal-detecting in 1999 in woodland.			ing in 1999 in
Reference(s)	PAS G	S GLO-5E5633.			
Additional Notes	The fir Bronze	findspot is on the north coast and may have been wetland in the ze Age.			

Object Type and	Socketed hooked knife.					
Description	This is a socketed knife, with a roughly circular, pegged socket and an ogival blade that has been intentionally transversely bent over to create a hooked blade.					
Location	Finder Period Ewart Park					
Completeness	100% Details Complete.					
Dimensions (mm)	L.102; Bl.W.27; Bl.Th.4	4; Sock.Diam.Ext	.22x21; Wt.71.98g.			
Patina/Corrosion	Green patina.					
Manufacture/Use	Prepared and used. The casting material has been worked and largely removed and the blade has been deliberately bent over for a functional purpose. Striations have identified on the inside of the blade indicate working or wear.					
Damage	None.					

PAS-F242 Queen Camel

Grid Ref.	ST 58	24 Altitude (m)	-	
Dryland		Wetland	Uncertain	
Find circumstances	A blad	e fragment was found while me	tal-detecting in 2007 on	
Reference(s)	Knight et al. 2015, 68, No.422, Pl.25; PAS SOM-AF89B5.			
Additional Notes	The findspot is close to the River Cam.			

Object Type and	Blade – poss. dirk/rapier.					
Description	This is a slender mid-blade fragment of a double-edged blade that tapers towards one end, indicating it is from the lower blade towards the tip. The blade has a slight biconvex section, and the PAS record suggests this is from a dirk or rapier, probably as result of the narrow blade.					
Location	Finder	Period	Middle-Late Bronze Age			
Completeness	0-25%	Details	Mid-blade fragment.			
Dimensions (mm)	L.21.6; W.11.9; Th.1.8	; Wt.1.9g.				
Patina/Corrosion	Brown patina on one face and dark brown/black patina on the					
	opposite face.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This blade has broken at both ends in antiquity, with consistent					
	patination, though no associated marks or casting flaws. The darker					
	patina on one face ma	y be the result of	burning.			

PAS-F243 Saltford

Grid Ref.	ST 67	67 66 Altitude (m)			67
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	A sock on cult	keted axe fragment was found what what what what what what was been as the second what we have a second what we have a second what we have a second whet w		hile met	al-detecting in 2014
Reference(s)	PAS G	LO-F02B7D.			

Object Type and	Socketed axe – type uncertain.				
Description	This is the lower body of a socketed axe with a broad, curved				
-	cutting-edge fragment, and the remains of a sub-rectangular/oval				
	socket.		Ũ		
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Cutting-edge fragment.		
Dimensions (mm)	L.38; W.52.				
Patina/Corrosion	Brown patina.				
Manufacture/Use	Prepared and possibly	used. The cuttin	g-edge appears to have		
	been worked and prepared for use and there is some minor denting				
	along the edge, which could be the result of use.				
Damage	This is the lower body and cutting-edge of a socketed axe broken				
	unevenly through the body above the socket aperture in antiquity.				
	There are no casting flaws visible in the break, but one face is				
	bowed, indicating a depression that is otherwise not visible on the				
	photographs. This suggests the axe was hammered to breakage.				
	Breakage: Th.15.	5	C		

PAS-F244 Selwood I

Grid Ref.	ST 81	48	Altitude (m)	105	
Dryland		Wetland		Uncertain	
Find circumstances	tave was found	while metal-dete	ecting in 2013 on cultivated		
I ind on our standers land		land.			
Reference(s)	Knight et al. 2015, 67, No.416, Pl.15; PAS WILT-BEF273.				

Object Type and	Gr.III palstave.			
Description	This is an unlooped palstave with low oval flanges rising from the			
•	butt to a sub-rectangu	lar stop ridge. The	ere is a U-rib enclosing a	
	shallow depression on	the upper blade	on both faces, and the blade	
	shape is broad and tria	angular, with a sli	ghtly curved cutting-edge.	
Location	Finder	Period	Taunton-Penard	
Completeness	76-99%	Details	Slight fragmentation at	
_			flanges and cutting-edge.	
Dimensions (mm)	L.142.3; BI.W.61.68; E	3.W.25.08; Fl.Br.3	0.28.	
Patina/Corrosion	Green patina and corrosion across the object and patches of blue			
	discolouration.			
Manufacture/Use	Prepared and possibly used. The casting material has been worked			
	and largely removed, and the cutting-edge is slightly asymmetrical.			
Damage	The palstave is comple	ete, but the flange	es and cutting-edge have	
	suffered minor materia	al loss as a result	of corrosion.	

PAS-F245 Selwood II

Grid Ref.	ST 79	44 Altitude (m)	98
			\square
Dryland		Wetland	Uncertain
Find circumstances	A palstave was found while metal-detecting in 2013 on cultivated land.		
Reference(s)	Knight et al. 2015, 67, No.417, Pl.19; PAS SOM-A636D3.		

Object Type and Description	Gr.III palstave. This is an unlooped palstave with the remains of low flat flanges rising from the butt to a sub-rectangular stop ridge. Although described as "plain" there appears to be the faint remains of a shallow depression below the stop on the face photographed. The blade shape is broad and expands to an incomplete crescentic cutting-edge.				
Location	Finder Period Taunton-Penard				
Completeness	76-99% Details Cutting-edge and flanges damaged.				
Dimensions (mm)	L.147.4; Bl.W.51.4.				
Patina/Corrosion	Brown patina and pate corrosion in places.	ches of surface de	elamination; pale green		
Manufacture/Use	Prepared and possibly used. The casting material has been worked and largely removed and evidence of hammering and a double bevel can be seen towards the surviving cutting-edge.				
Damage	One corner of the cutting-edge has broken post-deposition, probably as a result of corrosion. The break is covered in pale green corrosion, indicating that this is a recent break. Additionally, at least one of the flanges has fragmented and there is some material loss at the butt. These are also likely the result of post-depositional processes.				

PAS-F246 Selwood III

ST 79	44	Altitude (m)		-
	Wet	land		Uncertain
A pals	ave was found	while metal-dete	cting in 2	2012 on grassland.
Knight	ht et al. 2015, 67, No.418, Pl.19; PAS SOM-1DE687.			VI-1DE687.
Transitional/Late palstave.				
This is an incomplete, unlooped narrow-bladed palstave with low			palstave with low	
flanges	es rising from the butt to a sub-rectangular stop. It is unclear			r stop. It is unclear
	A palst Knight Transit This is flanges whethe	ST 79 44 Wet A palstave was found Knight et al. 2015, 67, Transitional/Late palst This is an incomplete, flanges rising from the whether the flanges re	ST 79 44 Altitude (m) Image: Constraint of the state of	ST 79 44 Altitude (m) Image: Constraint of the state of

	the full height. In plan, the sides of the palstave are largely straight from the butt down onto the upper blade and only slightly expands to a curved cutting-edge at the lower blade. There is no adornment on either face. It is unclear if there was originally a side-loop.			
Location	Finder	Period	Penard-Wilburton	
Completeness	76-99% Details Cutting-edge and flanges fragmentary.			
Dimensions (mm)	L.97.3; Bl.W.29.3 (surv.); Wt.146g.			
Patina/Corrosion	Mottled green corrosio	n.		
Manufacture/Use	Prepared and possibly used, but difficult to tell due to corrosion. The casting seams have been worked and largely removed and shrinkage hollows are present in the septum on both faces. The blade is too corroded to identify signs of a bevel or use.			
Damage	One corner of the blade has fragmented away, perhaps in antiquity, but more likely as a result of corrosion. Similarly, the flanges have fragmented and the butt is also damaged, though the record suggests these might be older breakages.			

PAS-F247 Shepton Beauchamp

Grid Ref.	ST 39	17	Altitude (m)	49		
		[$\overline{\checkmark}$		
Dryland		Wet	land	Uncertain		
Find circumstances	An unc	certain object wa	as found while m	etal-detecting in 2016.		
Reference(s)	PAS S	OM-2867B7.				
Object Type and Description	'Moustache'-shaped object. This is an unusual copper alloy object with an unknown use/function at present. The description is taken from the PAS record, as terminology has yet to be established for describing this object: "The object consists of a pair of drooping ovoid elements with pointed outer tips, hence 'moustache' shaped. These ovoids are decorated with multiple grooves running down the body of each ovoid but stopping before the tip In the centre of the two drooping ovoids is a plain band running around the waist of the object, this band is triangular in profile with a flat top and sides narrowing until the ovoids meet at the base. On the underside is a deeply recessed oval hole making this central band hollow."					
Location	Finder		Period	Middle Bronze Age-Iron		
Completeness	100%		Details	Complete.		
Dimensions (mm)	L.32.3	W.10.5: Th.16.	3: Wt.13.79a.			
Patina/Corrosion	Pale q	reen corrosion.	-,			
Manufacture/Use	Uncert	ain due to unkn	own function of t	he object. It appears to have		
	been p	repared for use	and the decorati	on is worn, which may		
	indicat	e a long use life).	-		
Damage	None.					

PAS-F248 South Petherton I

Grid Ref.	ST 44	16	Altitude (m)		-
				${\bf \boxtimes}$	
Dryland		Wetland		Uncertain	
Find circumstances	A flanged axe was found while metal-de			letecting	in 2012 on cultivated
lai		land.			
Reference(s)	Knight et al. 2015, 70, No.429, PI.15; PAS SOM-FBE8E4.				

Object Type and Description	Arreton axe (Class 5). This is a narrow flanged axe with low oval flanges rising from the butt and extending along the length of the axe until the blade expands to a flaring crescentic cutting-edge. There is a possible median bevel.			
Location	Finder Period MA VI Arreton			
Completeness	76-99% Details Cutting-edge abraded.			
Dimensions (mm)	L.78.9; Bl.W.34.5; Bl.T	h.12.9; B.W.18.2	; Fl.H.1.7; Wt.102.37g.	
Patina/Corrosion	Pale green corrosion p	itting; dark green	patina surviving in patches.	
Manufacture/Use	Difficult to tell. There is no evidence of casting material, suggesting this has been prepared, but corrosion to the blade means any signs of use-wear is obscured. The cutting-edge is asymmetrical, but it is difficult to determine if this is use-related or post-depositional erosion.			
Damage	None.			

PAS-F249 South Petherton II

Grid Ref.	ST 43	17	Altitude (m)		-
Ø		Γ			
Dryland		Wet	land		Uncertain
Find circumstances	A spea	arhead piece wa	s found while me	etal-dete	cting in 1999 on
Find circuitstances	cultiva	ted land.			
Reference(s)	Knight	et al. 2015, 70,	No.430; PAS SC	DMDOR1	132.
Additional Notes	Knight and No	et al. have dupl p.470.	icated this spear	head as	both their No.430
Object Type and	Spearl	nead – poss. sid	e-looped (Gr.6).		
Description	This is	the incomplete	blade of a socke	ted spea	arhead. The blade is
	small,	with a prominen	t midrib creating	a lozeng	ge-section along the
	centre	of the blade. Th	e edges are frag	mentary	, but the original
	blade s	shape was eithe	r leaf or flame-sl	naped. T	he form of the blade
	means	it was probably	once part of a s	Ide-loope	ed spearhead.
	N.B. I	ne weight record	ded by the PAS I	s 3.95g,	which is almost
Leastion	Certain	ily a mistake.	Deried	Middle	Dronzo Ago
Completences		1	Period	Diada	e biolize Age
Completeness	26-50%	/o	Details	edges	piece, fragmentary
Dimensions (mm)	L.30.8	; W.12.55; Th.7.	74.	e agee	•
Patina/Corrosion	Unkno	wn.			
Manufacture/Use	Difficu	It to tell from the	drawing.		
Damage	The blade has broken unevenly above the blade-socket junction and				
-	the ed	ges have fragme	ented away. As t	hese obs	servations are based
	on a d	rawing, it is impo	ossible to know v	vhether t	this occurred in
	antiqui	ty or not. No as	sociated marks a	re depic	ted.

PAS-F250 South Petherton III

Grid Ref.	ST 44	14	Altitude (m)		-
		[\checkmark
Dryland		Wet	land		Uncertain
Find circumstances	A swo in 201	rd blade was found in late 2010 1 in the same cultivated field wh		and the ile meta	refitting hilt was found I-detecting.
Reference(s)	Knight	nt et al. 2015, 70, No.431, Pl.25; PAS SOM-FBC596.			M-FBC596.
Object Type and	Ewart Park sword.				
Description	This is steppe has a t straigh	the hilt and upp d, bevelled edg fishtail shaped to t ricasso. There	per blade of a sw es and a rounde erminal and ang is a hilt slot in th	vord in tv d lozeng ular sho ne tang a	vo refitting pieces with ge section. The hilt ulders above a and a rivet hole in

	each shoulder though neither are broken through and are present as				
	depressions, suggesti	ng the sword was	unfinished.		
Location	Finder	Period	Ewart Park		
Completeness	0-25%	Details	Hilt and upper blade in two		
			refitting pieces:		
			F250.1: Hilt piece.		
Dimensions (mm)		 7 7: Sh W 50: Tor	minal W 34 2: BI Th 10 7:		
	Wt 223 07g	<i>1.1</i> , SII.W.50, Tel	IIIIIIal W.34.2, DI.111.10.7,		
	F250 1 1 116 Wt 138	a			
	F250.2: L.155; Wt.185	5.07g.			
Patina/Corrosion	Brown patina; patches	of green corrosio	on delamination.		
Manufacture/Use	Some preparation – u	nfinished. The ca	sting material has been		
	worked and largely rer	moved around the	e hilt, though the hilt slot and		
	rivet holes have not be	en broken throug	h, suggesting preparation is		
	not complete. Howeve	er, there are a ser	les of notches and chips		
	though probably occur	red post-depositi	nierpreted as use-related,		
Damage	This sword has broker	into a minimum	of three pieces though the		
Duniugo	nature of these breaks	s is debatable, and	d the blade piece has		
	suffered some transve	erse bending.	· · · · · · · · · · · · · · · · · · ·		
	Lower breakage: W.2	27.8; Th.7.6. The	lower most breakage has		
	occurred across the m	iddle-lower blade	and is patinated with a pale		
	green/cream corrosion	n, which is incons	stent with the rest of the		
	patina, but this is not t	oo unusual and is	suggestive of an old		
	Bending: There is a s	lo associated mai	hending along the blade		
	piece which may or m	ngring transverse	to the lower breakage. There		
	is a scratch on one bla	ade face breaking	through the patina and		
	revealing the bronze u	inderneath. This o	damage roughly corresponds		
	with the bend and thus	s the bend is mos	t likely to be post-		
	depositional.				
	Refitting breakage: T	he sword has bro	ken straight across the upper		
	blade, above the ricas	so and below the	shoulder. Both breaks are		
	though with slightly les	r pale cream corr	There are no associated		
	marks or casting flaws		1. There are no associated		
	A Note on the Interpr	retation of the B	reakages: Due to consistent		
	corrosion on the surface	ce of the blade fa	ces across the refitting		
	breakage, the PAS rec	cord suggests that	t the pieces have broken		
	post-deposition and w	ere originally dep	osited as a single piece.		
	While this is plausible,	this does not exp	plain how the lower breakage		
	is also patinated simila	arly, unless there	is another piece that has yet		
	to be recovered. What	might be more lil	kely is that the retitting break		
	explain the consistent	corrosion on the	surface and the more limited		
	corrosion in the refittin	a break than the	lower break.		
		y break than the			

PAS-F251 South Petherton IV

Grid Ref.	ST 45	15	Altitude (m)		23	
					$\overline{\mathbf{A}}$	
Dryland		Wetland			Uncertain	
Find circumstances	A casting jet was found while metal-de land.			etecting in	2015 on cultivated	
Reference(s)	PAS SOM-6E3802.					

Object Type and	Casting jet.
Description	This is a trifoliate-shaped object, with a slightly convex upper side
-	and a sprue of metal extending from each foil on the underside.
	Each sprue is triangular in cross-section and one ends in a rounded

	tip, while the other two are broken. It almost certainly represents a casting jet, though for an unknown object, and is consistent with the Bronze Age.				
Location	Finder Period Middle-Late Bronze Age				
Completeness	n/a Details Casting waste.				
Dimensions (mm)	L.24.95; W.23.38; Th.16.32; Wt.15.23g.				
Patina/Corrosion	Mottled green patina.				
Manufacture/Use	Casting waste.				
Damage	Broken during the cast	ting process.			

PAS-F252 Stocklinch

Grid Ref.	ST 37	16	Altitude (m)		-		
		[\checkmark		
Dryland		Wet	land		Uncertain		
Find circumstances	A spea	arhead was four	nd while metal-de	etecting	in 2009 on cultivated		
Reference(s)	Knight	et al. 2015, 70,	No.434, Pl.28; F	PAS SO	M-649A51.		
Object Type and	Basal-	looped spearhe	ad (Gr.8).				
Description	This is	a basal-looped	spearhead in tw	o piece	s, with a flame-shaped		
	blade	with a lozenge-s	ection midrib an	d low bl	ade ribs. The socket is		
	circula	r and the basal	loops have flatte	ned pla	tes. It is not noted		
	whethe	er the two piece	s refit.				
Location	Finder		Period	Taun	ton		
Completeness	76-999	6	Details	Large	ly complete, two		
-				piece	s, possibly refitting.		
		F252.1: Blade;					
			F252.2: Socket.				
Dimensions (mm)	L. c.134; BI.W.45.48; BI.Th.17.66; Sock.Diam.W.22.68; Wt.224.68g.						
	F252.1: L.150.82; Wt.145.34g.						
	F252.2	2: L.83.09; Wt.79	9.34g.				
Patina/Corrosion	Green	Green pating and blue azurite corrosion					

Patina/Corrosion	Green patina and blue azunte conosion.
Manufacture/Use	Prepared and possibly used. The casting material has been largely
	removed and the loop plates have been hammered. The spearhead
	blade is noted as being "worked" and there are "Parallel scratch
	marks that appear to be the result of working in several places".
Damage	The spearhead has broken into two presumably refitting pieces
	(though this is not explicitly stated) across the blade-socket junction
	in antiquity. The breaks are patinated, though there are no
	associated marks or casting flaws.

PAS-F253 Stogursey

Grid Ref.	ST 22	44 Altitude (m)			-
		[\checkmark
Dryland		Wet	tland		Uncertain
Find circumstances	A gold cultiva 1096 3	d ornament was found while metal-detecting in 1999 on ated land. It was found with, or close to, a scattered hoard of 3rd Century AD Roman coins.			
Reference(s)	Knight 23, Fig 8C20F	t et al. 2015, 70, No.435, Pl.26; Needham 2011, Tables 22 a g.44; O'Connor 2004, 208, 211, Fig.18.2; PAS IARCH- F8; Treasure Annual Report 1998-9, 10, No.1.			n 2011, Tables 22 and PAS IARCH- No.1.
Additional Notes	This of update vieweo	bject was observed previously during data collection for the ed corpus of metalwork (Knight et al. 2015), but was not d during the course of this thesis.			

Object Type and Description	Gold basket ornament.

	This is a thin sheet of gold that had been rolled tightly but has now					
	been unrolled and survives in two pieces. The description here is					
	taken from the Treasu	re Annual Report:				
	"A small parcel of tight	ly folded and very	/ thin sheet gold. Unfolding			
	would probably reveal	a plaque of oval s	shape, with a gently tapering			
	tang projecting from or	ne side. Where th	e original edge of the plaque			
	is visible, it is seen to a	carry inset decora	tion comprising three rows of			
	lightly punched dots ar	nd one light groov	e in between the outer two			
	rows. There are traces	of a further very	light groove crossing the			
	centre of the plaque in	line with the tang				
Location	BM 2000.7.1.	Period	Early Bronze Age			
Completeness	76-99%	Details	In two pieces, broken			
			through the basket.			
Dimensions (mm)	L.19.5; W. c.29; Wt.1.0)8g.				
Patina/Corrosion	n/a					
Manufacture/Use	Prepared and possibly used. The object was finely worked and					
	decorated.					
Damage	This object was deposited rolled into five layers in antiquity. It has					
	since been unrolled and survives in two pieces, broken through the					
	basket at two right ang	les, suggesting it	may have been cut, or has			
	broken along creases.	There are numer	ous vertical creases which			
	may suggest it had be	en folded in the p	ast.			

PAS-F254 Ston Easton I

Grid Ref.	ST 61	53 Altitude (m)			-
				\square	
Dryland		Wetland			Uncertain
Find circumstances	A butto	putton was found while metal-detecting in 2009 on cultivated land			
Reference(s)	Knight et al. 2015, 71, No.437, Pl.26; PAS GLO-585315.				

Object Type and Description	Looped button. This is a circular conical button with a concave base in which a loop is attached.					
Location	Finder	Finder Period Late Bronze Age				
Completeness	100% Details Complete.					
Dimensions (mm)	Diam.18; Th.17; Wt.9.12g.					
Patina/Corrosion	Olive green patina.					
Manufacture/Use	Seemingly prepared and possibly used.					
Damage	None.					

PAS-F255 Ston Easton II

Grid Ref.	ST 63	53*	Altitude (m)		-	
		[\checkmark	
Dryland		Wet	land		Uncertain	
Find circumstances	A sock	keted gouge was found while metal-detecting in 2006 on ated land.				
Reference(s)	Knight	et al. 2015, 71,	No.438, Pl.30; F	PAS GLO	D-5856D2.	
Object Type and	Class	Class I or II socketed gouge.				
Description	This is	an incomplete	socketed gouge	with the	remains of a circular	
	socket	and deep, sligh	tly stepped colla	r mould	ing. The cutting-edge	
	is curv	ved and abraded with a kidney bean section.				
Location	Finder		Period	Ewart	: Park	
Completeness	51-75%	5% Details Split down		down the socket.		
Dimensions (mm)	L.56; Bl.W.12; Diam.Ext.15; Wt.18.68g.					
Patina/Corrosion	Mottled green and brown corrosion.					
Manufacture/Use	Prepar	Prepared and possibly used. The casting material has been worked				
	but is s	still quite promin	ent at the seams	s. The c	utting-edge is quite	

	thick and there are limited signs for working, but this might be obscured by corrosion.
Damage	Much of the socket of this gouge has broken away in antiquity and there is material loss down the sides and back face of the gouge, as though it has split. There are no associated marks or casting flaws.

PAS-F256 Stratton-on-the-Fosse

Grid Ref.	ST 65	49	Altitude (m)		187
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	A socketed axe fragment was found while metal-detecting in 2013 on cultivated land.			al-detecting in 2013	
Reference(s)	Knight et al. 2015, 71, No.439; PAS SOM-E3DB14.				

Object Type and Description	Socketed axe – type uncertain. This is the lower body of a socketed axe with a rounded, curved cutting-edge.				
Location	Finder	Period	Late Bronze Age		
Completeness	0-25%	Details	Cutting-edge fragment.		
Dimensions (mm)	L.24.6; Bl.W.43.3; Wt.	42.86g.			
Patina/Corrosion	Pale green corrosion.				
Manufacture/Use	Difficult to tell due to incompleteness and corrosion. The casting seams appear to have been filed down and prepared and the worn cutting-edge may be the result of ancient use or could be post-depositional.				
Damage	This is the lower blade and cutting-edge of a socketed axe broken unevenly at the socket aperture in antiquity. There are no associated marks. Breakage : Th 12.9				

PAS-F257 Tickenham I

Grid Ref.	ST 46	72	Altitude (m)		38
Dryland		Wetland			Uncertain
Find circumstances	A miniature socketed axe was found while metal-detecting in 2013 on cultivated land.			al-detecting in 2013	
Reference(s)	PAS GLO-BBC741.				
Additional Notes	The findspot is just south of the north coast, but this was probably not visible. The area was almost certainly wetland in the Bronze Age.				it this was probably and in the Bronze

Object Type and	Miniature socketed axe	ė			
Description	This is a small object in the form of a socketed axe, with a thick oval socket and large semi-circular side-loop below the collar. The collar is defined by a double-moulding of two grooves extending around the circumference. The lower body flares to a short, wide crinoline blade with a slightly curved cutting-edge. It is larger than many 'miniature' socketed axes, but is still very small compared to typical forms. This object may date between the Late Bronze Age to Romano-British period.				
Location	Finder	Period	Uncertain		
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.44; W.16; Th.33; Wt.	.38.26g.			
Patina/Corrosion	Green corrosion.				
Manufacture/Use	As-cast? Any casting r removed, though the c unworked. Additionally the body of the axe.	naterial appears cutting-edge seen v, several casting	to have been worked and ns to be uneven and hollows are visible across		

None.

PAS-F258 Tickenham II

Grid Ref.	ST 46	72 Altitude (m)			42	
		Ē	N			
Dryland		Wet	land		Uncertain	
Find circumstances	A spearhead fragment was found while metal-detecting in 2014 on cultivated land.				detecting in 2014 on	
Reference(s)	PAS G	LO-C6F5C4.				
Additional Notes	The findspot is just south of the north coast, but this was probably not visible. The area was almost certainly wetland in the Bronze Age.			ut this was probably and in the Bronze		
Object Type and	Spearhead – type uncertain.					
Description	This is and the	a mid-blade fragment of a spearhead with a rounded midrik e remains of leaf or flame-shaped blade wings.			ith a rounded midrib wings.	

	and the remains of leaf or flame-shaped blade wings.				
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	0-25%	Details	Mid-blade fragment.		
Dimensions (mm)	L.34; W.36; Th.8; Wt.1	5.63g.			
Patina/Corrosion	Mottled green patina.				
Manufacture/Use	Difficult to tell due to incompleteness and poor photo.				
Damage	This spearhead fragment has broken unevenly above the blade-				
	socket junction and across the upper blade in antiquity. The breaks				
	are consistently patinated and there do not seem to be any				
	associated marks or casting flaws, though the photos are unclear.				

PAS-F259 Timsbury I

Grid Ref.	ST 66 58		Altitude (m)		135
\checkmark					
Dryland		Wetland			Uncertain
Find circumstances	A blade fragment was found while met			al-detec	ting between 2013-
This circuitstances	2014 on cultivated land.				
Reference(s)	PAS GLO-06D7B5.				

Object Type and Description	Blade – type uncertain. This is a mid-blade fragment of a double-edged implement with a biconvex section. There is no edge bevelling and it is difficult to know whether this was part of a sword, knife or other bladed implement.				
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	0-25% Details Mid-blade fragment.				
Dimensions (mm)	L.16; W.26; Th.4; Wt.6.96g.				
Patina/Corrosion	Green patina, heavily pitted.				
Manufacture/Use	Difficult to tell due to incompleteness. There is no visible evidence				
	for hammering or bevelling of the blade.				
Damage	This blade has broken at both ends in antiquity, with consistent patination, though no associated marks or casting flaws. Breakage: W.26; Th.4.				

PAS-F260 Timsbury II

Grid Ref.	ST 66	58	Altitude (m)		134
\checkmark					
Dryland		Wetland		Uncertain	
Find circumstances	A socketed knife fragment was four			while me	etal-detecting in 2013
Find circumstances	on cultivated land.				
Reference(s)	PAS GLO-B7DA21.				

Object Type and	Thorndon knife.				
Description	This is a fragment consisting of the blade-socket junction of a				
	socketed knife. The su	irviving socket is	oval and the sides slightly		
	taper in, which would h	nave continued to	be concave. The blade-		
	socket junction is mark	ked by a step onto	b the blade. The blade has a		
	roughly lozenge cross-	-section and has a	a broad, raised and flattened		
			t define the edge bevels.		
Location	Finder	Period	Ewart Park		
Completeness	0-25%	Details	Blade-socket fragment.		
Dimensions (mm)	L.42; W.32; Th.10; Wt.	.30.74g.			
Patina/Corrosion	Dark brown patina, del	laminated in patcl	hes.		
Manufacture/Use	Prepared and possibly	used. The castin	g material has been worked		
	and removed and the blade seems to have been worked, though this				
	is difficult to tell due to incompleteness.				
Damage	The knife has broken i	nto at least three	pieces in antiquity, across		
	the upper blade and u	nevenly through t	he socket, below any peg		
	holes. There are no as	sociated marks c	or casting flaws.		

PAS-F261 Tintinhull

Grid Ref.	ST 49	Altitude (m)		-		
					$\overline{\mathbf{V}}$	
Dryland		Wetland			Uncertain	
Find circumstances	A socketed axe was found by chance in about 1970.				1970.	
Reference(s)	Knight	et al. 2015, 71,	No.442, Pl.22; P	AS SO	MDOR-AC9124.	
Additional Notes	The ex	act findspot is ι	incertain.			
Object Type and Description	South Wales socketed axe. This is an incomplete ribbed axe with a sub-rectangular socket mouth and a thick, flat topped collar, consisting of a single moulding that tapers on the upper body. Below the collar are three vertical, parallel ribs on each face and a side-loop is set at the top of the collar. Although distorted now, the cutting-edge would have been slightly expanded from the straight sides of the body, with a curved edge.					
Location	Finder		Period	Ewart	t Park	
Completeness	51-75%	6	Details	Mater the bo longit	rial loss to one side of ody; slightly udinal bending.	
Dimensions (mm)	L.100.85; Bl.W.50.39; Wt.236g.					
Patina/Corrosion	Dark green patina, patches of pale green corrosion.					
Manufacture/Use	As-cast. Prominent casting seams are still present along the surviving side and the four sprue stumps on the socket mouth have not been removed.					
Damage	This socketed axe has suffered significant material loss to one side, extending as an uneven fracture and cracking onto one face, and as a large semi-circular breakage on the other face. The cracking extends across one face and the lower body and cutting-edge is slightly bent longitudinally (c.10 degrees) out of line with the rest of the axe. The damage appears to be consistently patinated, but it is difficult to determine this from the photo. Without handling the object or further knowledge of the find context, it is impossible to tell whether this damage is intentional or post-depositional.					

PAS-F262 Trudoxhill

Grid Ref.	ST 77 42	Altitude (m)	89
Dryland		Wetland	Uncertain

	A spearhead was found while metal-detecting in 2015 on cultivated						
Find circumstances	land.						
Reference(s)	PAS SOM-DB1205.						
Object Type and	Side-looped spearhea	d (Gr.6).					
Description	This is a narrow flame-shaped spearhead with a circular, conical						
	socket, with narrow, flattened side-loops set about halfway along.						
	The blade has a prominent rounded midrib creating a rounded						
	lozenge section.						
Location	Finder Period Taunton-Penard						
Completeness	100%	Details	Complete, but blade edges				
			chipped.				
Dimensions (mm)	L.122.35; Bl.W.24.42; Bl.Th.13.32; Wt.69.77g.						
Patina/Corrosion	Mottled dark brown patina with patches of green corrosion.						
Manufacture/Use	Prepared and possibly used. The casting material has been worked,						
	but the seams are still visible along the socket. The blade has						
	suffered a series of chips and dents, which could be use-related, but						
	the inconsistent corrosion would suggest they are the result of post-						
	depositional erosion.						
Damage	See above.						

PAS-F263 West Crewkerne

Grid Ref.	ST 42	11	Altitude (m)		82	
\checkmark						
Dryland		Wetland		Uncertain		
Find circumstances	A palstave was found while metal-detecting in 2016 on cultivated land.					
Reference(s)	PAS SOM-61850E.					
Additional Notes	The object has been recorded on the PAS through photos only and thus no dimensions are available.					

Object Type and	Gr.III or Gr.IV palstave.					
Description	This is a looped palstave with leaf-shaped flanges that rise from the					
-	butt and plateau at the	height of the sto	p. These flanges appear to			
	be quite high and thus	would fall within	the Gr.IV category, but this			
	cannot be accurately c	letermined from t	he photo. The side-loop			
	overlaps a sub-rectangular stop. There is a narrow, shallow					
	triangular depression of	on the upper blad	e on at least one face. The			
	blade is broad and triangular with a slightly curved cutting-edge.					
Location	Finder	Period	Taunton-Penard			
Completeness	100%	Details	Complete.			
Dimensions (mm)	Unknown.					
Patina/Corrosion	Pale green patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been worked					
	and largely removed and the blade shows signs of having been					
	hammered and bevelled. Signs of use are difficult to identify from the					
	photo, though the cutting-edge may be asymmetrical and seems to					
	have suffered a series of nicks and chips, which might be use-					
	related.					
Damage	None.					

PAS-F264 Weston-in-Gordano

Grid Ref.	ST 44 74		Altitude (m)		86	
		[
Dryland		Wetland		Uncertain		
Find circumstances	A spearhead was found while metal-detecting between 2013-2014					
Tind circumstances	on cultivated land.					
Reference(s)	PAS GLO-F69302.					
Additional Notes	The findspot is close to the north coast and may have been wetland in the Bronze Age.					
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Object Type and	Side-looped spearhea	d (Gr.6).				
Description	This is a leaf-shaped s	pearhead with a	long circular, conical socket,			
	with side-loops set abo	out halfway along	. The blade has a prominent			
	midrib creating a lozer	nge section.				
Location	Finder	Period	Taunton-Penard			
Completeness	100%	Details	Complete.			
Dimensions (mm)	L.104; BI.W.25; BI.Th.	19; Sock.Diam.16	6; Wt.47.45g.			
Patina/Corrosion	Mottled brown patina.					
Manufacture/Use	Prepared and possibly used. The casting material has been worked					
	and removed and the blade has possibly been prepared for use. The					
	PAS record notes that the midrib has been flattened and filed					
	towards the tip to the form the point. The blade edges are slightly					
	nicked and abraded, but this is likely due to post-depositional					
	processes, rather than	use.				
Damage	None.					

PAS-F265 Westbury-sub-Mendip

Grid Ref.	ST 50	50	Altitude (m)	-	
		[
Dryland		Wet	tland	Uncertain	
Find circumstances	A sock on cult	eted axe fragm ivated land.	ent was found wh	nile metal-detecting in 2004	
Reference(s)	Knight	et al. 2015, 71,	No.445; PAS SC	DMDOR-04B2B7.	
Object Type and	Socke	ted axe – type ι	incertain.		
Description	This is	a broad, cresce	entic cutting-edge	e fragment of a socketed axe	
	with th	e remains of a s	sub-rectangular s	ocket.	
Location	Finder		Period	Late Bronze Age	
Completeness	0-25%		Details	Cutting-edge fragment.	
Dimensions (mm)	BI.W.5	0.15; Wt.51.11g	j.		
Patina/Corrosion	Mottled green and brown patina.				
Manufacture/Use	Prepared and possibly used. The cutting-edge appears to have				
	been worked and prepared for use and there is some edge damage				
	in the form of nicks, which could be the result of use or post-				
	depositional damage. The cutting-edge is slightly asymmetrical.				
Damage	The cutting-edge has broken unevenly from a socketed axe just				
	above the socket aperture in antiquity. There are no associated				
	marks	or casting flaws	S.		
	Break	age: Th.13.54.			

PAS-F266 Whitelackington

Grid Ref.	ST 35	16	Altitude (m)		27
		[
Dryland		Wet	land		Uncertain
Find circumstances	A palstave was found while metal-detecting in 2012 on cultivated land. In 2015 a socketed hammer was about 25 feet from where th palstave had been found. Due to ploughing in the field, it is considered that these objects might represent a dispersed deposit associated or hoarded items.			2012 on cultivated 5 feet from where the the field, it is a dispersed deposit of	
Reference(s)	Knight et al. 2015, 72, No.449, Pl.16; PAS SOM-1F7EE4, SOM- 9AAFF3, 2014 T637.				
Additional Notes	This fir to the the Bro	ndspot lies in the north. It is uncer onze Age.	e valley of the Ri tain whether this	ver Isle, s was ar	overlooking the river a area of wetland in

PAS-F266a

Object Type and Description	Gr.III palstave. This is a looped palstave with oval flanges that rise from the butt to above the height of the stop and slope back down towards the stop; the breadth of the flanges does not qualify it as a south-western type, however. The side-loop sits just above a u-shaped stop and there is a midrib that extends down the blade. flanked by shallow				
	triangular depressions. The blade is broad with a flared crescentic cutting-edge.				
Location	Finder Period Acton Park-Penard				
Completeness	76-99%	Details	Minor butt damage.		
Dimensions (mm)	L.115.9; BI.W.45.8; FI.	Br.30.4; Wt.278g			
Patina/Corrosion	Mottled green corrosio	n.			
Manufacture/Use	Prepared and possibly used. The casting material has been worked and largely removed and the edge appears to have been hammered and bevelled though corrosion obscures much of the detail. Casting hollows and air bubbles are visible in the septum and stop on both faces.				
Damage	The butt has suffered of post-deposition. The The cutting-edge is ab	minor uneven ma ere are no associ raded and slightly	terial loss either in antiquity ated marks or casting flaws. / fragmentary from corrosion.		

PAS-F266b

Object Type and	Type 1 socketed hamr	ner.			
Description	This is a short, square-socketed hammer with a deep, flat collar that				
	steps on the body. The	e body tapers slig	htly towards a broad, convex		
	hammer end.				
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	100%	Details	Complete.		
Dimensions (mm)	L.60.7; Bl.W.24.2; Bl.Th.17.5; Sock.Diam.Ext.26.1x24.9;				
	Sock.Diam.Int.17.8x16.5; Wt.145g.				
Patina/Corrosion	Grey green patina with pale green corrosion in patches.				
Manufacture/Use	Prepared and possibly used. There is no surviving casting material				
	present, suggesting preparation, but it is difficult to tell due to				
	corrosion. Surviving patina shows striations along the length of the				
	hammer, further indicating preparation and the hammer was				
	probably used.				
Damage	None.				

PAS-F267 Whitestaunton I

Grid Ref.	ST 26	11 Altitude (m)	157		
\checkmark					
Dryland		Wetland	Uncertain		
Find circumstances	A palstave was found while metal-detecting in 2014 on cultivated				
Reference(s)	PAS SOM-2B70A5.				
Additional Notes	The findspot is in the River Yarty valley.				

Object Type and Description	Transitional or Late palstave. This is an incomplete narrow-bladed palstave, with the remains of a u-shaped stop and a slightly expanding blade.				
Location	Finder	Finder Period Penard-Wilburton			
Completeness	26-50% Details Blade broken across the stop ridge.				
Dimensions (mm)	L.83.7; Bl.W.24.1; St.D.17.5; St.W.17.8; Wt.71.17g.				
Patina/Corrosion	Extensive brown corrosion.				
Manufacture/Use	Difficult to tell due to c	orrosion.			

Damage	This palstave has broken just above the stop ridge, through the flanges in antiquity. The flanges have completely fragmented away and the corrosion has severely damaged much of the surviving
	piece, removing most the cutting-edge. There are no visible associated marks.

PAS-F268 Whitestaunton II

Grid Ref.	ST 26	10	Altitude (m)		143
Dryland		Wetland			Uncertain
Find circumstances	A pals cultiva	Istave piece was found while meta vated land.			ing in 2015 on
Reference(s)	PAS SUR-7E53A6.				

Object Type and	Transitional or Late pa	Transitional or Late palstave.			
Description	This is an incomplete narrow-bladed palstave, with the remains of a u-shaped stop and a slightly expanding blade with a curved cutting-				
	edge. However, furthe	r diagnostic detai	Is cannot be identified due to		
	incompleteness and co	prrosion.			
Location	Finder Period Penard-Wilburton				
Completeness	26-50%	Details	Blade, broken at stop ridge.		
Dimensions (mm)	L.69.78; BI.W.25.78.				
Patina/Corrosion	Brown corrosion.				
Manufacture/Use	Difficult to tell due to corrosion.				
Damage	This palstave has broken across and through the stop ridge in				
_	antiquity. This is related to a large shrinkage hollow present in the				
	stop and upper blade.	-			

PAS-F269 Wigborough, South Petherton

Grid Ref.	ST 44	15 Altitude (m)		31
				\checkmark
Dryland		Wetland		Uncertain
Find circumstances	A sock	eted gouge was founc ed land.	l while meta	I-detecting in 2015 on
Reference(s)	PAS SOM-DA3D7B.			

Object Type and	Class I or IIa socketed gouge.				
Description	This is an incomplete, narrow socketed gouge with slightly tapering				
-	sides and a slightly cu	rved cuttina-edae	Although it no longer		
	survives the socket w	as likely circular	i i i i i i i i i i i i i i i i i i i		
Location	Finder	Period	Ewart Park		
Completeness	26-50%	-50% Details Lower blade.			
Dimensions (mm)	L.39.13; Bl.W.10.44; Wt.23.12g.				
Patina/Corrosion	Dark green-brown patina with patches of pale green corrosion				
	causing surface delamination.				
Manufacture/Use	Prepared and possibly used. The casting material has been worked				
	and removed and the cutting-edge is slightly worn.				
Damage	The gouge has broken across the body above the socket aperture in				
_	antiquity. There are no associated marks or casting flaws, though				
	the metal appears to be slightly porous.				
	Breakage: W.15.14.				

PAS-F270 Winford

Grid Ref.	ST 54 6	1 Altitude (m)	86
\checkmark			
Dryland		Wetland	Uncertain

Find circumstances	A dirk was found while metal-detecting in 2016 on cultivated land.				
Reference(s)	PAS GLO-7EFE1A.				
Object Type and Description	Gr.II dirk. This is a slender ogival blade with a trapezoidal hilt with a rounded heel and two rivet holes with rivets <i>in situ</i> . There are two side notches above slightly protruding shoulders, which taper onto the blade. The blade has a low biconvex section.				
Location	Finder	Period	MA VI Arreton-Taunton		
Completeness	76-99%	Details	Post-depositional damage to blade edges.		
Dimensions (mm)	L.197; W.41; Wt.89.71 Rivet: L.16; Diam.9.	g.			
Patina/Corrosion	Light green patina.				
Manufacture/Use	Prepared and possibly used. The dirk was fitted with a handle and seemingly prepared. Much of the damage to the blade edges is attributable to post-depositional processes (see below), but some of the nicks or chips might be use-related				
Damage	 the nicks or chips might be use-related. The blade edges have suffered extensive material loss on both edges in the form of nicks and chips and the overall blade is transversely bent about 20-30 degrees. Blade edge damage: The most severe chips and nicks on the blade edges are inconsistently corroded, indicating they have occurred post-deposition, though whether this is the result of plough damage or corrosion is unclear. Transverse bending: The blade has transversely bent from the upper blade down towards the tip in a gradual curve. The cause of this bend is uncertain. There is no break in the patina or other damage that might indicate the blade was bent post-deposition, though whether this object bent pre-deposition, though whether this was an accident, use-related or intentional is 				

PAS-F271 Witham Friary I

Grid Ref.	ST 74	41	Altitude (m)		-
				\checkmark	
Dryland		Wetland		Uncertain	
Find circumstances	A rapie cultivat	rapier fragment was found while met Itivated land.			ting in 2007 on
Reference(s)	Knight	ight et al. 2015, 72, No.453; PAS WILT-117235.			235.

Object Type and Description	Gr.IV rapier. This is a mid-blade fragment of a very narrow rapier with a flat					
	midrib, indicating it bel	ongs to the Gr.IV	class.			
Location	Finder Period Taunton-Penard					
Completeness	0-25% Details Mid-blade fragment.					
Dimensions (mm)	L.22.3; W.16.2; Th.3.8; Wt.7.2g.					
Patina/Corrosion	Green patina.					
Manufacture/Use	Difficult to tell due to incompleteness.					
Damage	This is a mid-blade fragment that has been broken at both ends in					
	antiquity. There are no	associated mark	s or casting flaws.			

PAS-F272 Witham Friary II

Grid Ref.	ST 74	41 Altitude (m)	128
\checkmark			
Dryland		Wetland	Uncertain
Find circumstances	A spea cultiva	rhead fragment was found while ted land.	e metal-detecting in 2009 on

Reference(s)	Knight et al. 2015, 72, No.454; PAS WILT-8E0680.

Ohiot Turne and					
Object Type and	Spearnead – type uncertain.				
Description	This is a mid-blade fra	gment of a socke	ted spearhead, tapering to		
•	one end indicating it h	as broken from t	he unner blade. The blade		
	has a rounded midrib,	creating a thick c	ircular section.		
Location	Finder	Period	Middle-Late Bronze Age		
Completeness	0-25% Details Mid-blade fragment.				
Dimensions (mm)	L.31.34; Wt.20.3g.				
Patina/Corrosion	Brown patina.				
Manufacture/Use	Difficult to tell but seemingly prepared.				
Damage	This fragment has broken at both ends in antiquity across the upper				
_	blade of a spearhead. There are no associated marks or casting				
	flaws, but the lower breakage appears to have occurred at the				
	socket aperture				
	socket aperture.				
	Mid-blade breakage:	<u>W.30.18; Th.9.07</u>			

PAS-F273 Witham Friary III

Grid Ref.	ST 74	39	Altitude (m)	109	
\checkmark		Γ			
Dryland		Wet	land	Uncertain	
Find circumstances	A sock	eted axe fragme	ent was found w	hile metal-detecting in 2014	
T ind circumstances	on cult	ivated land.			
Reference(s)	PAS V	/ILT-DEDFC6.			
Object Type and	Socketed axe – type uncertain.				
Description	This is a corner fragment of a socket mouth of socketed axe. There				
	are the remains of a rounded collar, but no other diagnostic features				
Location	Finder		Period	Late Bronze Age	
Completeness	0-25%		Details	Socket fragment.	
Dimensions (mm)	L.20.05; W.21.4; Wt.15.56g.				
Patina/Corrosion	Green patina.				
Manufacture/Use	Difficult to tell due to incompleteness.				
Damage	This fr	agment has brol	ken away from th	ne socket mouth in antiquity.	
	There	are no associate	ed marks or cast	ing flaws.	

PAS-F274 Wiveliscombe I

Grid Ref.	ST 07	28	Altitude (m)		-
		[\checkmark
Dryland		Wet	lland		Uncertain
Find circumstances	A flang	ed axe was fou	nd while metal-d	etecting	in 2011.
Reference(s)	Knight	et al. 2015, 72,	No.456, Pl.21; P	AS SO	M-5F6BB5.
Object Type and	Later s	hort-flanged ax	e.		
Description	This is	an unlooped ax	e with the remain	ns of lov	v oval flanges that rise
	from the butt and extend above a low u-shaped ridge and				d ridge and
	depression, representing an early form of stop. The blade is broad				The blade is broad
	and flares to a crescentic cutting-edge.				
Location	Finder		Period	Acton	Park
Completeness	76-99%	6	Details	Flang	es fragmentary.
Dimensions (mm)	L.136;	BI.W.56.8; B.W	.24.8; Fl.Br.24.8;	Wt.329	g.
Patina/Corrosion	Pale green patina, patches of brown corrosion.				
Manufacture/Use	Prepared and possibly used. The casting material has been worked				
	and largely removed and the blade has seemingly been hammered				
	out and	d probably work	ed. It is difficult to	o identify	y signs of use from
	the pho	otos.			

Damage	Three of the flanges have fragmented and are absent and the
_	cutting-edge has suffered some material loss. All of this is
	attributable to post-depositional processes.

PAS-F275 Wiveliscombe II

Grid Ref.	ST 09	26	Altitude (m)	-		
				$\overline{\mathbf{A}}$		
Dryland		Wet	land	Uncertain		
Find airoumstances	A flang	ed axe was fou	nd while metal-c	letecting in 2007 on cultivated		
Find circumstances	land.			-		
Reference(s)	Knight	et al. 2015, 72,	No.457, Pl.18; F	PAS SOM-1E8616.		
Object Type and	Later s	hort-flanged axe	э.			
Description	This a	n unlooped axe	with flanges risir	ng from the butt to a high		
	angle,	before descend	ing onto the blac	de, over a low u-shaped stop		
	ridge. The blade is broad and flares out to a crescentic cutting-edge.					
	There	is a rounded sid	e knob on each	side of the palstave, just		
	below	the stop.				
Location	Finder		Period	Acton Park		
Completeness	100%		Details	Complete.		
Dimensions (mm)	L.155; BI.W.66.2; Wt.426g.					
Patina/Corrosion	Dark o	live green patina	а.			
Manufacture/Use	Prepared and possibly used. The casting material has been worked					
	and largely removed and the blade has seemingly been hammered					
	out and probably worked. There is a shrinkage hollow visible in the					
	septum. The cutting-edge is asymmetrical with a series of dents					
	visible	visible. It is uncertain whether these dents relate to use or post-				
	deposi	tional actions.				
Damage	None.					

PAS-F276 Wraxall and Failand

Grid Ref.	ST 50	70 Altitude (m)			22
Dryland		Wetland		Uncertain	
Find circumstances	An incomplete socketed axe was found while metal-detecting in				
Find circumstances	2013 on cultivated land.				
Reference(s)	PAS G	S GLO-BC1BC7.			
Additional Notes The findspot is near natural springs in a low-lying rive			ng river valley and		
Additional Notes	may have been wetland in the Bronze Age.				

Object Type and	Socketed axe - type u	incertain.								
Description	This is an incomplete s	socketed axe with	n a plain, straight body and							
_	straight cutting-edge a	nd the remains o	f a sub-rectangular socket.							
Location	Finder	Period	Late Bronze Age							
Completeness	26-50%	Details	Lower body and cutting-							
_			edge.							
Dimensions (mm)	L.88; BI.W.37; Wt.115	L.88; Bl.W.37; Wt.115.33g.								
Patina/Corrosion	Brown patina.									
Manufacture/Use	Uncertain. There is no	prominent castin	g material suggesting it may							
	have been worked, bu	t there are no fur	ther signs of preparation of							
	the blade or cutting-ed	lge. It is possible	this is uncast.							
Damage	This socketed axe has	broken unevenly	through the body in							
-	antiquity. The breakag	e has removed m	nuch of the upper body at a							
	sharp angle and the su	urviving side has	bowed longitudinally as a							
	result of the breakage.	. There are no as	sociated marks or casting							
	flaws.		Ç							

PAS-F277 Wrington I

Grid Ref.	ST 46	62	Altitude (m)		-				
		[
Dryland		Wet	land	Uncertain					
Find circumstances	A hoar metal-	d of three objec detecting in 201	ts was found on 1 on pasture lan	the side d.	of a ditch while				
Reference(s)	Knight	Knight et al. 2015, 72, No.460, Pl.13, Fig.12; PAS PAS-9B2032.							

PAS-F277a

Object Type and	Gr.IV palstave.										
Description	This is a looped palsta plateauing at the heigh rectangular stop ridge the stop on the upper b The blade expands to	This is a looped paistave with high hanges hsing from the butt andplateauing at the height of the stop. The side-loop sits below therectangular stop ridge and there are three ribs extending from belowthe stop on the upper blade and converging to form a trident shape.The blade expands to a flared, curved cutting-edge.WESTM 2013.6PeriodTaunton-Penard									
Location	WESTM 2013.6	WESTM 2013.6 Period Taunton-Penard									
Completeness	100%	Details	Complete.								
Dimensions (mm)	L.163.54; Bl.W.60.43;	Wt.520.6g.									
Patina/Corrosion	Pale brown patina.										
Manufacture/Use	Prepared – no signs of and largely removed a	f use. The casting nd the blade has	g material has been worked been hammered out.								
Damage	None.										

PAS-F277b

Object Type and Description	Gr.IV palstave. This is a looped palsta plateauing at the heigh sub-rectangular stop ri extending from below two shallow depression cutting-edge.	Gr.IV paistave. This is a looped palstave with high flanges rising from the butt and plateauing at the height of the stop. The side-loop sits below the sub-rectangular stop ridge and there is the faint remains of a midrib extending from below the stop on the upper blade and flanked by two shallow depressions. The blade expands to a flared, curved cutting-edge. WESTM 2013.6 Period										
Location	WESTM 2013.6	WESTM 2013.6 Period Taunton-Penard										
Completeness	76-99%	Details	Minor damage to the cutting-edge.									
Dimensions (mm)	L.162.6; Bl.W.61.48; V	Vt.492.8g.										
Patina/Corrosion	Pale brown patina.											
Manufacture/Use	Prepared – no signs of and largely removed a	f use. The casting nd the blade has	g material has been worked been hammered out.									
Damage	There is minor chippin post-depositional action	g on the cutting-e	edge, which is likely linked to									

PAS-F277c

Object Type and	Socketed hammer.	· · · · · · · · · · · · · · · · · · ·							
Description	rounded collar moulding that steps down onto the upper body. Below the collar at two V-shaped ribs, one set inside the other, and the body tapers outwards very slightly to a broad, slightly convex, heavy hammer end. There is a protruding spike on one side of the hammer. It is difficult to classify this hammer within Fregni's (2014, 81ff.) typology as the decoration and presence of a spike is unusual.								
Location	WESTM 2013.6	Period	Taunton-Penard						
Completeness	100%	Details	Complete.						
Dimensions (mm)	L.72.58; BI.W.27.97; V	Vt.153.1g.							
Patina/Corrosion	Dark brown patina and	d patches of corro	sion.						
Manufacture/Use	Prepared and possibly	used. The castin	g material has been worked						
	and largely removed a	nd the hammer e	nd appears to be worn.						
Damage	None.								

PAS-F278 Wrington II

Grid Ref.	ST 47	62	Altitude (m)	-								
		Γ]									
Dryland		Wet	land	Uncertain								
Find circumstances	A flang	ged axe was fou	nd while metal-d	etecting in 2002 on cultivated								
	land.											
Reference(s)	PAS G	LO-8B8AC6.										
Object Type and	Arreto	n axe (Class 5).										
Description	This is	This is a large axe with a narrow butt and low flanges extending										
	along	along the length of the butt before the blade greatly flares out to a										
	large c	rescentic cutting	g-edge. There is	a slight transverse bevel								
	toward	Is the centre of t	he axe and both	faces are adorned with								
	incised	decoration belo	ow this bevel, co	nsisting of six horizontal								
	bands	of zig-zagged lin	nes, with an addi	tional four bands above and								
	below	of alternating zid	g-zagged or hatc	hed decoration. The side of								
	the fla	nges are slightly	rippled, but are	otherwise undecorated.								
Location	Finder	0 0 1	Period	MA VI Arreton								
Completeness	100%		Details	Complete.								
Dimensions (mm)	BI.W.8	7. No further de	tails.									
Patina/Corrosion	Dark b	rown patina.										
Manufacture/Use	Prepar	ed – no signs of	fuse. The castin	g material has been worked								
	and re	moved and the	cutting-edge has	been extensively bevelled								
	with fla	ared tips.		·								
Damage	None.	•										

PAS-F279 Yatton

Grid Ref.	ST 44	67 Altitude (m)			-	
			N			
Dryland			tland		Uncertain	
Find circumstances	A sock cultiva	eted axe was fo ted land.	ound while metal	-detectir	ng in 2010 on	
Reference(s)	PAS G	LO-FD1266.				
Additional Notes	The findspot is close to the coast and may have been wetlar Bronze Age.					

Object Type and	Type Welby socketed	axe.										
Description	This is a small sockete	ed axe with a sub-	-rectangular socket and a									
	deep, flat collar mouldi	ing that steps dov	vn on the upper body. The									
	side-loop is positioned	below this collar	and three converging vertical									
	ribs adorn the body, ex	ribs adorn the body, extending about three quarters of the way down										
	the blade. The body expands to a flared crescentic cutting-edge.											
Location	Finder	Period	Ewart Park									
Completeness	100% Details Complete.											
Dimensions (mm)	L.69.24; BI.W.39.23.											
Patina/Corrosion	Brown patina.											
Manufacture/Use	Prepared – no signs of	fuse. The casting	g material has been worked									
	and largely removed, t	hough the overal	l casting of this object is									
	noted as being very po	oor, with lots of ca	asting bubbles in the									
	surfaces. Signs of use	are difficult to ide	entify but the cutting-edge									
	was probably hammer	ed out.										
Damage	None.											

PILOT EXPERIMENTS

C.1 Introduction

Ahead of the destructive experiments presented in Chapter 4, a series of pilot experiments were conducted to explore some of the factors that influence destruction, specifically breakage and fragmentation. These experiments were largely opportunistic and consequently lack structured designs, aims and recording processes, though they were conducted with specific research questions in mind. The Bronze Age replica objects upon which the damage was inflicted were gifted to this project by different individuals and experimental institutions that were worked with in 2015 and 2016, resulting in a varied set of tests. Neil Burridge proffered unwanted and/or miscast objects that were experimented with in Pilot Experiments 1, 2, 4 and 5, whilst the sword in Pilot Experiment 3 was fragmented as part of a public display with Claude Cavazzuti and the team of metalcasters at Montale Terramare open-air archaeological park in Italy. Consequently, these preliminaries are not systematic and cannot be considered scientific. However, they were valuable in generating hypotheses for the subsequent destruction experiments.

C.2 Pilot Experiment 1

The initial aims of these exploratory experiments were to understand: the ease with which an object could be broken; what might influence this; and what marks this might leave. In early 2015, work was undertaken with Neil Burridge at the Ancient Technology Centre, Cranborne. An unheated as-cast tin-bronze dagger was subjected to a series of strikes using a large quartzite stone. Fragments of bladed implements are frequently found in the archaeological record, though methods for assessing how these became broken are limited.

The dagger was positioned prone on a platform stone with the tip end projecting over the edge of the stone by approximately two inches. The dagger was held in place and the projecting end was struck with the stone. This

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immediately caused transverse bending and required only four hits to remove the tip of the dagger.

Following this, the dagger was moved so the broken end was projecting a similar distance over the platform stone. Strikes to this thicker section of dagger were completely ineffective causing no damage. Under the advice of Neil Burridge, the dagger was then arranged across two platform stones so the desired breaking point (i.e. one of the thickest sections across the midrib towards the hilt) was positioned over a crevice. Striking the dagger became more tactical in this situation requiring strikes in one spot followed by turning the dagger over and striking in the same position on the opposite face, before turning the dagger over and repeating. This method caused plastic deformation as the dagger transversely bent back and forth at a single point until the structure of the metal was weak enough to fragment and the dagger was reduced to two further pieces (Fig.C.1).

Several elements were discerned from this initial undertaking:

 Even a small increase in the thickness of the object had a massive effect on the ease with which it could be broken – the first fragment broke at approximately 4mm thick, whilst the second fragment was 9mm thick. Although anticipated, the impact of thickness was greater than expected, necessitating a change in tactic and altering the way in the object could be broken.



Fig.C.1: The broken dagger in Pilot Experiment 1 (source: Author)

- 2. Striking with a stone hammer did not produce significant marks that would be archaeologically visible (Fig.C.2). Unexpectedly, very few marks, such as hammer blows or surface depressions, were left on the surface of the metal. The metal suffered surface scratches but nothing that one might be able to identify as conclusively destructive in the archaeological record.
- 3. Cold-striking tin-bronze causes associated bending of the material. Whilst there were no marks of the tool used, transverse bending was caused during both fragmentation processes, though this was more extreme for the thinner fragment than for the thicker piece. Notably, the process of repeatedly bending the dagger in both directions to cause breakage was not evident on the resulting fragments (Fig.C.3).
- 4. A small portion of the bronze is lost upon fragmentation. The broken pieces of this dagger do refit but it is apparent that small pieces have been lost during fragmentation, which could explain why so many fragments in hoards do not refit.



Fig.C.2: The breakage point of the dagger in Pilot Experiment 1 showing no impact mark (source: Author)

C.3 Pilot Experiment 2

Another area of interest was the deliberate bending of a sword. Recent experiments demonstrated that bending a sword was a potentially complicated process (Bietti Sestieri et al. 2013, 167-9), contrasting with the more typical view that "snapping of a sword blade across the knee" could be done easily (Moyler 2007, 150). The initial standpoint was thus simply: was a sword ductile enough to bend across the knee?

This was tested on an unworked, miscast, leaded-bronze Ha C sword. This sword possessed a series of casting flaws, namely air hollows extending through the blade, as well as the metal having bled into the support rod slot, causing a misshapen object. Nonetheless, it was possible apply force to both ends of the sword and transversely fold it over the author's upper thigh (Fig.C.3). The folding process required adjusting where the stress was applied gradually over a small area to reduce the chance of the sword breaking. The sword was successfully bent into a rough u-shape without fragmenting (Fig.C.4).

Although this process demonstrated the ease with which one could perform this destructive action, a variety of factors much be considered.

- Bronze, as a material, work hardens, allowing less flexibility in the microstructure, and thus it may not be possible to so easily bend a *worked* sword blade, at least not without breaking it.
- Distributing the pressure applied to the sword during bending was clearly beneficial to the process, in terms of achieving a bending without breakage (as identified by Giardino and Verly in Bietti Sestieri et al. 2013, 167-9). However, standardising the force applied, where to apply it, and how quickly requires careful consideration.



Fig.C.3: Bending the as-cast sword over the author's thigh in Pilot Experiment 2 (source: Author)



Fig.C.4: The resulting 'u-shaped' bend of the sword in Pilot Experiment 2 (source: Author)

- The force applied to the bronze in this experiment relied on the researcher's own personal strength; it would be interesting to understand the exact forces involved.
- 4. It is also likely that the form of the object (e.g. shape, thickness etc.) will impact how prone the object is to bend; a spearhead, for instance, will probably react differently to a sword blade.
- Finally, the composition no doubt impacted the ability of this miscast sword to bend this way. The metallography of tin-bronzes and leaded tinbronzes causes varying microstructures based on the relative proportions of the materials (see Section 3.3.1).

Exploring the aspect of bending objects fully clearly requires a range of experiments tackling numerous qualities of different objects, and is far more complex than simply bending it over one's knee.

C.4 Pilot Experiment 3

In June 2015, the researcher spent a day with experimental bronze casters at the Montale Terramare open-air archaeological park, during which there was the opportunity to discuss various aspects of the properties of bronze and fragmentation in general. The bronze casters were keen to emphasise the effective nature of breaking bronze when it had been heated. The team frequently perform public demonstrations of sand-casting Bronze Age objects, particularly swords. Following the casting, the casters then break down the object for remelting in the crucible to be cast into another object. I was invited to be part of this process, which was very simple.

A leaded bronze sword was placed, as-cast, into a fire and heated until approximately 500°C (Fig.C.5). It should be noted that 500°C is a guesstimate made by the casters. No exact temperature measurements are recorded and instead the team rely on the rough time the object has been in the fire and the dull-red colour of the object to judge the temperature. The sword was then removed, placed on a stone platform, and struck with a wooden hammer, which fragmented the sword into smaller pieces that then fit back into the crucible (Fig.C.6). When offered the opportunity to explore this, it was possible to use a variety of different hammers to fragment the sword, including stone, antler, and wood (Fig.C.7). The effect of each tool was the same, with little force required to break the sword.

Occasionally, the sword needed to be returned to the fire to increase the temperature again, but this seemed to be the key factor in whether the sword broke or not.



Fig.C.5: Heating swords in the furnace in Pilot Experiment 3 (source: Author)



Fig.C.6: Sword fragments in Pilot Experiment 3 (source: Author)



Fig.C.7: Fragmenting a sword with an antler hammer in Pilot Experiment 3 (source: Author)

Three things could be taken away from this experiment:

- 1. A bronze object is easier to fragment while hot, than while cold.
- 2. When broken hot, no discernible marks are left on the sword, and in this experiment, there was also no associated bending.
- The nature of the tools used is not important instead the temperature of the object is a deciding factor. This can be judged by colour and experience, but the exact temperature has yet to be explored.

C.5 Pilot Experiments 4 and 5

The final two pilot experiments were conducted at Butser Ancient Farm in April 2016 to build upon Pilot Experiment 3, and better understand the temperatures at which bronze swords would fragment. Two swords were generously provided by Neil Burridge of different styles and compositions. The first, a Ewart Park sword, was a low-leaded tin bronze (2% Pb; 8% Sn), while the second, a Wilburton sword, was a tin bronze (Sn 12%). Both swords were left as-cast, with the Ewart Park sword retaining thick casting flash down all sides, and the Wilburton sword with the casting sprue attached to the tip.

A temperature probe attached to a closed kiln and each sword was placed individually into the kiln to heat up. Each sword was supported above the charcoal and the temperature probe was positioned just above the blade of the sword. Following the estimates made by the Montale team, the aim was to heat the first sword (the Ewart Park) to approximately 550°C.

At 556°C, the sword was removed from the kiln; it was red-hot towards the tip, but still a dull grey colour at the hilt. This uneven distribution of temperature indicated that the sword had been heated unevenly and it was hypothesised that one would be able to fragment the tip, but not the hilt. The key aim was thus to break as much of the sword as possible. Little force was required to fragment this sword using an oak wooden baton and it was possible to break the whole object following a single heating into eight uneven pieces (Fig.C.8). The inconsistency of sizes was no doubt due to inexperience, but this experiment again demonstrated the lack of associated marks visible on fragmented pieces, and, like Pilot Experiment 1, the slight loss of bronze at each fragmentation.

The Wilburton sword, however, was more complex. The aim was to lower the temperature to see how greatly this affected the ease of fragmentation. The sword was heated to approximately 514°C, though did not become red-hot and when struck, it only bent. The sword was slightly quenched and then bent back into shape using a series of hammer blows and returned to the kiln. It was heated to 558°C, but again was not red-hot and did not break under hot-striking. This second attempt was partially tainted by inexperience using the tongs to hold the sword, which may have allowed time for the sword to cool. The strikes instead caused severe bowing of the blade; this was not corrected.



Fig.C.8: Fragments of the leaded-bronze sword used in Pilot Experiment 4 (source: Author)

On the third attempt, the sword was heated to c.560°C and the handle was struck repeatedly, causing bending and eventually fragmentation. Three small fragments of the hilt and lower blade were broken off the sword (Fig.C.9). Finally, the temperature was raised to 650°C to see if this would allow an easier fragmentation. Eventually, the sword was broken into a further five pieces, but the sword was severely deformed and bent in the process (Fig.C.10). It is noteworthy that most of the fragments broken off this sword were more consistent in shape and size than those produced while fragmenting the Ewart Park sword.

These two pilot experiments pose a series of interesting points.

- 1. Both swords lost small sections of metal during fragmentation, supporting what was observed in Pilot Experiment 1.
- 2. Controlling the size of the fragments produced requires some skill.
- 3. The composition of the material is as detrimental as the temperature to how and why these objects break. At 550°C, a leaded tin-bronze sword could be broken, while it was necessary to raise the temperature to 650°C to break a tin-bronze sword. This observation had been suspected



Fig.C.9: Hilt fragments of the tin-bronze sword in Pilot Experiment 5 (source: Author)



Fig.C.10: The resulting fragments of the tin-bronze sword in Pilot Experiment 5 (source: Author)

due to the effect of lead on the microstructure of bronze, but it had not been expected that it would so severely impact the result.

4. Whilst no tool marks were left on either sword, it might be possible to estimate that broken tin-bronze objects are more likely to demonstrate signs of bending associated with the breakage.

Further exploration of the effects of temperature and composition are necessary.

C.6 Conclusions

These pilot experiments are by no means systematic, but were undertaken as a result of the opportunities that arose and the result of the metalcasters worked with. Important aspects were elucidated that ultimately helped shape the aims of the destructive experiments detailed in the main body of the thesis (see Section 4.11).

THE EXPERIMENTAL PRODUCTION OF REPLICAS

D.1 Introduction

This appendix provides an extended discussion on the production of the socketed axeheads, spearheads and swords that were utilised in the destruction experiments in Chapter 4. All objects were produced by Neil Burridge, an experienced metalcaster.

D.2 Socketed Axeheads

Four socketed axeheads were commissioned to test the research aims presented in Section 4.7.1, though Neil Burridge produced eight in total to ensure a high likelihood of successful castings. These were based upon an incomplete example from the St Buryan hoard, Cornwall (Fig.D.1; RCM-F035a). The Royal Cornwall Museum kindly provided a cast of the axe from which Neil Burridge was able to reconstruct a model. The axes were cast in four different sand moulds based on this model in three different compositions. Details of the individual replicas are presented in Table D.1, alongside a discussion of the archaeological example chosen for reproduction, the selected compositions, and the post-casting processes undertaken.

D.2.1 The St Buryan Axe

The axes were produced based upon a largely complete Type Welby/Southern English socketed axe example from the St. Buryan hoard, Cornwall (RCM-F035a; Fig.4.4). This axe was selected for several reasons. Firstly, the hoard dates to the Ewart Park phase (1000-800BC), when deliberate destruction of material was a common practice (Turner 2010a); alongside the Welby axe, the hoard also includes a fragmented socketed axe broken across the lower blade, and nine ingot fragments. The Welby axe has broken from the socket mouth down one blade face. It is 103.5mm long, 51.2mm wide at the cutting edge, and its surviving weight is 310g. A second key reason was the availability of a cast replica of this object offered by the Royal Cornwall Museum, which enabled an accurate metal replica could be produced. Finally, the slight damage sustained to the St. Buryan axe (i.e. the split down one face) is likely accidental, rather than deliberate. When cast, it appears the socket core was slightly misaligned, causing the socket walls to be thinner on one side than the other. The axe has broken through this thinner side, which is suspected to be accidental breakage

Table D.1: Details of the axes produced, following basic preparation after casting. The weights of the axes with and without their casting jets is presented. The details of the St. Buryan axe are presented underneath.

				Dimensio	ons (mm)		
Moul d No.	Axe No.	Length	Blade Width	Socket Diameter External	Socket Diameter Internal	Weight (g) with casting jet	Weight (g) without casting jet
1	1.1	103.5	50	43.4x40.2	30.2x27.8	-	256
2	1.2*	104.3	49.8	43.9x40.1	-	328	-
3	1.3	103.4	49.6	44x40.3	29.3x28.2	-	246
4	1.4	104.1	49.9	43.7x40.1	28.9x28.7	322	238
1	1.5	103.9	50.9	43.8x40.8	28.9x26	371	273
2	1.6	103.6	49.6	43.1x40.4	29.6x28.4	341	267
3	1.7	105	50.4	43.8x40.7	28.9x27.5	-	301
4	1.8	104.1	50.2	43.8x40.5	29.3x29.1	-	286
St. Bu Ax	St. Buryan Axe 103.5		51.2	46.7 (width only)	32.2 (width only)	-	310

*This axe was left as-cast, with the casting jet still attached.

through use. This means that the axe form would be appropriate for assessing the likelihood of an axe breaking through accident, as well as intent.

The replicas closely resemble the size of the St. Buryan axe, with only 3-4mm difference in both length and blade width. The weight, however, varies, and all are 9-72g lighter than the original. This variation might be accounted by the difference in compositions, but is more likely to do with the casting process and the degree to which the metal filled up the mould around the core as well as the shrinkage of the metal as it cooled.

The St. Buryan axe has been analysed using X-Ray Fluorescence (XRF) spectroscopy and interpreted by Peter Northover, providing results of 83.37% copper, 15.02% tin, 0.975% lead, plus minor elements (Tyacke 2012). All metallurgical compositions are by weight unless otherwise specified.



Fig.D.1: The St Buryan socketed axe (source: Author courtesy of the Royal Cornwall Museum)

D.2.2 Compositions

Compositional analyses have been undertaken of numerous socketed axes across Britain and Ireland, though at present there is no comprehensive collection of analyses. Peter Northover (n.d.) has conducted the most thorough investigation of the metallurgy of Bronze Age artefacts in South West England. Table D.2 presents this data, whilst Figure D.2 summarises the lead-tin percentages of 39 axes, with the individual types colour co-ordinated. Lead and tin percentages have been highlighted here rather than minor elements, which would have only limited effect on the overall performance of the metal by comparison. Higher tin percentages will increase the hardness, but also the brittleness of bronze, while lead lowers the overall tensile strength and ductility, making it more likely to break (Section 3.3.1).

The axes sampled vary greatly in the percentages of tin and lead, and chronologically span the Bronze Age. Despite this, a cluster of 24 axes analysed (61.5%) possess between 6-14% tin and 0-8% lead. One undifferentiated three-ribbed axe and one Type Welby were analysed by Northover, both falling within this cluster. Clearly, this sample is not sufficient to make any generalisations, though other Ewart Park phase axes have been highlighted, the majority of which also fall within this cluster.

Thesis	Northover	over		Period/	Mus. Ref.				Meta	I Percen	tages (by weig	ght)				Deeree Ne
No.	No.	Finaspot	Ахе туре	phase	No.	Cu	Sn	As	Sb	Pb	Со	Ni	Fe	Ag	Au	Zn	Pearce No.
TTNCM- F058e	Ta 9	Stogursey	3-ribbed	EP	51B (81)	86.71	7.16	0.08	0.12	5.70	tr	0.09	tr	0.14	tr	-	746a
n/a	Tr 25	Gwinear	Armorican	LF	No ref.	94.88	2.54	0.03	-	2.40	-	0.07	-	0.02	0.06	-	60c
n/a	Tr 26	Gwinear	Armorican	LF	No ref.	93.18	5.54	0.10	-	1.00	-	0.04	tr	0.04	0.10	-	60d
n/a	ASH 62	Carn Brea	Armorican	LF	NC359	85.12	12.17	0.09	0.15	2.27	-	0.09	0.03	0.08	-	-	129b
PCMAG- F004o/p	PLY 1	Mountbatten	Armorican	LF	291.11	74.85	4.72	0.74	0.08	19.50	0.01	0.07	tr	0.03	tr	-	281c
PCMAG- F004o/p	PLY 3	Mountbatten	Armorican	LF	37.73	77.53	1.83	0.42	-	20.20	tr	0.02	-	tr	-	-	281b?
RCM- F025	Tr 11	Newlyn	Armorican	LF	No ref.	86.33	1.36	0.84	0.28	11.00	0.02	0.11	-	0.06	-	-	115
n/a	Ta 65	Wellington	Bag- shaped	LBA	1761	88.22	9.41	0.09	0.02	2.10	tr	0.06	tr	0.04	0.06	-	769
DCM- F037b	Dor 29	Thorney Down III	Blandford	LF	1952.36.5	75.79	18.16	0.28	0.25	5.00	0.03	0.27	tr	0.14	-	0.08	407d
DCM- F037e	Dor 30	Thorney Down III	Blandford	LF	1952.36.4	78.65	15.33	0.40	0.17	5.10	0.01	0.27	tr	0.07	-	-	407e
n/a	ASH 46	?Somerset	Faceted	LBA	1927.2630	84.37	13.36	0.23	0.04	1.80	0.08	0.07	0.05	-	tr	-	827
RAMM- F006	Ex 31	Bovey Tracey	Faceted	LBA	198/1961	80.02	13.42	0.79	0.80	4.00	tr	0.14	0.05	0.66	0.12	tr	189a
TTNCM- F027	Ta 37	Loxton Hill I	Gwithian	LBA	22C	89.71	6.65	0.64	0.84	1.30	0.04	0.58	0.05	0.16	0.03	-	678
n/a	ASH 43	Nr Plymouth	Plain	LBA	1927.2625	86.10	10.96	0.14	Tr	2.80	-	-	tr	tr	-	tr	284
n/a	ASH 49	?Bristol	Plain	LBA	1927.2634	85.14	13.77	0.32	0.06	0.04	0.04	0.61	0.02	-	-	-	829
PCMAG- F004m	PLY 10	Mountbatten	Plain	LBA	No ref.	89.34	7.46	0.08	0.08	2.90	-	0.07	tr	0.07	tr	-	281a
n/a	Dor 24	Eggardon	Portland	LF	1884.2.3	71.40	18.57	0.90	-	9.00	0.01	0.05	tr	0.05	tr	0.02	336
n/a	Dor 25	Eggardon	Portland	LF	1884.2.2	71.29	18.34	0.76	-	9.40	0.04	0.08	tr	0.09	-	-	336
n/a	Dor 26	Eggardon	Portland	LF	1884.2.1	72.71	4.27	0.62	Tr	22.30	0.03	0.02	0.01	0.04	tr	-	336
n/a	Dor 27	Eggardon	Portland	LF	1884.2.4	67.67	17.70	0.43	-	14.00	0.05	0.04	0.05	0.02	-	0.04	336

Table D.2: The known compositions of socketed axes in South West England, organised by type. This is previously unpublished data of analyses conducted by Peter Northover and is presented here with his permission.

"Pearce No." relates to Pearce (1983). LBA = Late Bronze Age; EP = Ewart Park; LF = Llyn Fawr.

ASH- F014	ASH 47	Worlebury Hill	South eastern	EP	1927.2656	90.06	6.66	0.34	0.05	2.70	tr	0.08	tr	0.07	0.04	-	776g
RAMM- F008	Ex 30	Broad Down (Barrow C),	South eastern	EP	A340	84.66	9.11	0.31	0.27	5.40	0.01	0.09	tr	0.11	-	0.04	236
PCMAG- F004	PLY 11	Mountbatten	Uncertain	LF?	253.18	84.45	11.25	0.21	0.08	3.80	0.01	0.10	tr	0.10	-	-	281
PCMAG- F004	PLY 5	Mountbatten	Uncertain	LF?	254.18	87.00	11.74	0.64	Tr	0.30	0.08	0.14	tr	0.07	0.03	-	281
DCM- F026	Dor 33	Milborne St. Andrew I	Sompting	LF	1884.8.1	85.19	13.45	0.25	0.20	0.79	0.01	0.11	-	-	-	-	421
TTNCM- F021b	Ta 38	Ham Hill	Sompting	LF	22B	75.79	8.52	0.37	0.12	15.00	tr	0.12	0.02	0.03	tr	0.03	748c
n/a	Dor 36	Sydling St. Nicholas	South Welsh	EP	1940.4.1	90.03	7.11	0.19	0.10	2.40	0.02	0.08	0.01	0.06	tr	-	446
n/a	Dor 44	Dorset	South Welsh	EP	1902.1.10	82.21	9.55	0.25	0.19	7.60	-	0.13	tr	0.07	tr	-	558
TTNCM- F058r	Ta 6	Stogursey	South Welsh	EP	56B (85)	82.69	11.01	0.15	Tr	6.10	0.02	0.01	-	0.02	-	-	746a
TTNCM- F058t	Ta 7	Stogursey	South Welsh	EP	50A	81.85	3.99	0.71	Tr	13.20	0.03	0.17	tr	0.02	tr	0.03	746a
TTNCM- F058o	Ta 8	Stogursey	South Welsh	EP	49B (80)	84.17	8.56	0.74	0.04	6.30	0.01	0.02	0.01	0.04	0.11	-	746a
TTNCM- F058n	Ta 10	Stogursey	South Welsh	EP	52B	89.07	7.64	0.26	0.12	2.70	0.02	0.08	0.01	0.07	0.03	-	746a
DCM- F015	Dor 35	Fordington II	Meldreth	EP	1917.2.1	88.60	9.42	0.17	0.16	1.40	0.02	0.10	0.02	0.05	0.03	0.03	393
TTNCM- F058y	Ta 20	Stogursey	Meldreth	EP	62B (83)	84.31	12.19	0.27	0.07	3.00	0.03	0.03	0.02	0.08	-	tr	746c
n/a	ASH 58	?Bristol	Welby	EP	1927.2631	91.67	7.13	0.1	0.09	0.89	-	0.07	tr	0.05	-	tr	828
n/a	Dor 34	Fifehead Neville	Wing- decorated	LBA	1896.3.1	82.79	9.81	0.23	0.14	6.80	0.01	0.13	-	0.09	tr	tr	388
n/a	Bs 8	Sea Mills	Yorkshire	EP	E3869	75.85	7.76	0.16	0.13	16.00	-	0.08	0.02	-	-	-	604
n/a	Ta 40	Somerset	Yorkshire	EP	21C	84.02	12.94	0.16	0.08	2.60	tr	0.09	0.01	0.10	tr	-	832
TTNCM- F023d	Ta 41	Hayne	Yorkshire	EP	82A	73.63	13.82	0.08	0.03	12.40	0.01	-	tr	0.03	-	-	700d
RCM- F035a	n/a	St. Buryan*	Welby	EP	-	83.78	15.02	-	0.05	0.98	-	-	0.1	-	-	0.08	7a**

*The axe from St. Buryan was analysed using XRF spectroscopy and as such the range of data available differs from the other analyses. Additionally, the copper percentage represents only the remaining balance and it is likely that other minor elements are present within the composition. **This number relates to Knight *et al.* (2015), rather than Pearce (1983).



The composition of the St. Buryan axe does not conform to the main cluster, with an uncharacteristically high level of tin. The high tin percentage, however, might be explained by the method of analysis used. As XRF is a nonintrusive analysis, it only records the relative composition of the surface of the object. This can often be influenced by any corrosion products that might build up. Depending on the depositional conditions, different metallic elements may build up or "leach out" of the original metal. This might result in a high build-up of copper salts, or tin oxide on the surface, resulting in a skewed surface composition, that does not reflect the original composition when cast (Northover pers. comm. 2016; Piccardo et al. 2007; Robbiola et al. 1998). It is more likely that the tin percentage may have thus been closer to 12-14%, with tin enrichment caused by the depositional situation (cf. Piccardo et al. 2007; Robiola et al. 1998). Further variability in metal compositions might occur from the extensive reduction and recycling that was ongoing in the Late Bronze Age. More intrusive analysis would potentially highlight the true metallurgical composition of the St Buryan axe. Unfortunately, this observation regarding the XRF data was only highlighted after the production of the axes and thus the compositions produced do not account for the probable discrepancy in the analysis. Consequently, three axe replicas were cast with a composition of 84% copper, 15% tin and 1% lead to maintain a close comparison with the source material (Axes 1.1-1.3).

Five further axes were cast comprising two additional compositions. Three axes were produced with 8% tin and 2% lead (Axes 1.4-1.6), while two were produced with 8% tin and 4% lead (Axes 1.7-1.8). These compositions have been chosen as generalised comparisons for socketed axeheads of the Late Bronze Age. As the largest portion of damaged and destroyed metalwork occurs in the Ewart Park phase (1000-800 BC), only axes dating within this period were subjected to a mean analysis, providing a sample of 14 (excluding St. Buryan). Most of the other axes date to the Llyn Fawr period, which often possess abnormally high or low lead or tin contents, which would skew the resulting average. The mean composition for South West socketed axes analysed from the Ewart Park period is 8.90% tin and 6.21% lead.

As Neil had limited experience casting with percentages of lead over 1%, we made the decision to experiment with two different lead percentages (2% and 4%). While these are both less than the average and it would have been

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preferable to match the higher lead average, safety concerns dictated a slightly lower percentage of lead. Moreover, these percentages are closely comparable with some of the archaeological examples. The tin percentage, meanwhile, was standardised at 8%, which is similarly comparable with numerous Ewart Park finds, though less than the calculated average. This decision was made by Neil Burridge who was familiar with casting 8% tin bronzes and wished to maintain a standard he had knowledge of to allow experimentation with the lead content. While an 8% tin-bronze is likely to balance the properties of bronze by raising hardness without becoming too brittle (see Fig.3.2), it is possible the proportions of lead would demonstrate a noticeable difference in the overall tensile strength of the material, when subjected to destructive processes. The three sets of compositions chosen thus offered a spectrum of different bronze properties that provided a set of varied results when the objects were subjected to destructive actions.

D.2.3 Casting

Four sand moulds were used to produce the eight axes all based off the same resin model (Fig.D.3). Two successful castings were produced from each mould, though there were slight variations. Firstly, the core was not standardised and was built for each individual axe based on what was right for the mould. This means that the sockets in some axes might be deeper than others, or the walls thicker for some than others – this might also account for the weight variation in the axes.

Additionally, while it was possible to take a second casting from each mould (due largely to the properties of the sand used), the moulds were slightly damaged during removal of the first casting (e.g. small bits of sand chipped away). What this meant, was that parts of the mould needed mending with small bits of sand, or was simply left as it was. This caused the second castings to 'bleed' (i.e. the unwanted leaking of metal within the mould) more around the casting seams, creating more casting flash, particularly towards the blade edge and around the socket mouth. All castings were undertaken on the same day in the same conditions and details of the different axes are detailed here:



Fig.D.3: The eight replica axes produced (1.1-1.8) comprising 3 different compositions (source: Author)

- Axes 1.1-1.3: Axes 1.1-1.3 were cast using 1000g of metal (150g tin, 11g lead, and 849g copper). The tin and lead were added to the crucible first as this allows them to alloy together better, and then the copper was added. A potential downside of this is that the tin and/or lead might evaporate out (Neil Burridge pers. comm.). Wang and Ottaway (2004, 6), for instance, added lead to their alloys just before they were ready to pour to reduce the potential lost through evaporation. The high tin content resulted in a silvery finish on the axes.
- Axes 1.4-1.6: Initially, 1000g of metal was also prepared for axes 1.4-1.6 (80g tin, 21g lead, 899g copper), but Neil Burridge suspected this would not be enough after axes 1.4 and 1.5 were cast so a further 100g of metal (8g tin, 2g lead, 90g copper) of the same composition was made up and added to the crucible. This appears to have affected the

composition of Axe 1.6 which is noticeably more pearlescent than Axes 1.4 and 1.5, perhaps because the metal did not mix as well, or cooled at a slower rate. However, all three axes are distinctly more golden in colour than axes 1.1-1.3.

Axes 1.7-1.8: 700g of metal was melted for these final two axes (56g tin, 28g lead, 616g copper). The colour is again distinctive from the other compositions, with the surface golden but duller.
 What was most interesting from this process was the appearance of the axes after casting (Fig.D.4). It is possible to identify which axe possessed which composition based purely on the surface colour, which has been noted as a key method for identifying compositions (e.g. Kim *et al.* 2006; Kuijpers 2014, 89ff.). Indeed, Kuijpers (2014, 89ff.) used colour as a key characteristic for his perceptive categories, which indicate how a metalworker might identify the composition they were working.



Fig.D.4: Replica Axes 1.2 (15% Sn; 1% Pb) (left) and 1.4 (8% Sn; 2% Pb) (right) demonstrating the difference in colour caused by composition. The higher tin content in Axe 1.2 means it has a slightly more silvery appearance, whereas Axe 1.4 is more yellow. (source: Author)

It is also worth considering the casting jets and material in this process. The axes were casting through pouring cups with four runners, which comprised a large portion of the weight of the axes (Table D.1). Although this data was only collected for four of the axes, it offers a good impression of the weight of metal lost in the casting jets.

None of the axes were quenched after casting, which affects the internal phases and overall metallurgy, as described in Section 3.3.1. Metallographic study would allow a better interpretation of this.

D.2.4 Post-casting processes

Most of those socketed axes found damaged or destroyed show signs of having been prepared and used. Consequently, the casting material of the socketed axes (i.e. the flash down each side of the axe and the casting sprues) was removed, which involved using a chisel to remove the sprues and grinding the socket mouths and sides to produce a smooth edge. However, to limit the variables involved in these experiments, the axes were otherwise left as-cast, with no further working (e.g. hammering, polishing or sharpening). Although this contrasts with the archaeological artefacts, the limited research conducted into the use and destruction of socketed axes meant it was important to focus on fewer variables (e.g. temperatures to which the axes are heated; or the tools used to break the axes), which would have been complicated by varying degrees of working and use. This approach was similarly adopted by Roberts and Ottaway (2003) who avoided hammering their socketed axes to limit variability of hardness factors in their use experiments.

D.3 Swords

Four Ewart Park swords were produced during this research. They were cast in two sand moulds in two different compositions by Neil Burridge, though based on the same original model. Two of the swords (2.1 and 2.2) were prepared for use with hilts attached. Details of the individual swords are presented in Table D.3, alongside a discussion of the archaeological example chosen for reproduction, the selected compositions, and the post-casting processes undertaken.

D.3.1 The St Erth Hoard I sword

The four swords were based upon an incomplete Ewart Park sword from St Erth Hoard I, Cornwall (Fig.D.5; RCM-F037a). This hoard contains 27 pieces of broken metalwork, four of which refit to form the hilt and upper blade of a sword. The remaining fragments comprise socketed axe fragments, a socketed gouge fragment, a Gündlingen sword fragment, and numerous ingot fragments. The material in this hoard dates to the Ewart Park phase (c.1000-800 BC), though the Gündlingen fragment may suggest a deposition date in the 8th century BC. A second Late Bronze Age hoard and two pieces of goldwork (RCM-F038-F040) were also found nearby, establishing an interesting context.

The sword fragments refit to a surviving length of approximately 285mm and a combined weight of 304g, though much of the sword is absent, and the surviving pieces are corroded and abraded. A complete example thus had to be reconstructed by Neil Burridge based on a thorough observation of the surviving pieces, as well as complete examples. The decision to replicate this incomplete example, rather than a complete one was partly due to the availability of the material for study, as well as the surviving evidence that this sword had been deliberately fragmented, offering the opportunity to test methods for reproducing comparable damage.

The resulting dimensions of the replicas are slightly larger than anticipated (Table D.3), but are nonetheless suitable. The shoulder and hilt dimensions exceed the size of the surviving St. Erth pieces, which allows for material lost through post-depositional erosion and corrosion damage. The length of the sword was estimated by Neil Burridge, but is larger than many of the surviving complete examples from South West England (e.g. that from Pole Sands, Devon: RAMM-F038), but is comparable to an incomplete Ewart Park



Fig.D.5: The St. Erth Hoard I sword (RCM-F037a) (source: Author courtesy of the Penlee House Gallery and Museum)

Sword				Dime	nsions	(mm)		
No.	Condition	L.	BI. W.	Bl. Th.	Hilt W.	Fl. Br.	Sh. W.	Wt. (g)
	As-Cast	649	46.3	7.6	38.8	9.1	53.3	742
2.1	Preparation pre-handle (edge- grinding, cold-hammering, casting sprue and flash removed, polishing/working)	628	46.2	7.5	38	9.1	52.8	701
	With handle, sharpened	660	45.5	7.5	38	9.1	52.8	778
2.2	As-Cast	676	45.6	7.5	39.6	9.6	55.3	752
	Preparation pre-handle (edge- grinding, cold-hammering, casting sprue and flash removed, polishing/working)	626	44.8	7.5	38.1	9	52.6	704
	With handle, sharpened	658	44.8	7.5	38.1	9	52.6	774
2.3	As-Cast (casting sprue removed)	630	45.6	7.6	40.7	8.9	54.1	722
2.4	As-Cast (casting sprue removed)							
St. Erth Hoard I	Incomplete, in 4pc.	c.28 5	n/o*	9.2	38.2	7.7	40	304

Table D.3: Details of the replica swords at different stages of their production. *n/o: not observable. L = Length. BI = Blade; W = Width; Th = Thickness; FI. Br. = Flange Breadth; Sh. W. = Shoulder Width; Wt. = Weight.

sword from Cranborne, Dorset (BM-F016), which is only 40mm shorter and missing its tip.

The example from St. Erth Hoard I is largely characteristic of the Ewart Park type, possessing a fishtail terminal; a slightly flanged, bulging hilt; rounded shoulders; and two rivet holes in the tang, and one in each shoulder. It aligns well with the Western Step 2 classified by Colquhoun and Burgess (1988, 66ff.). However, this is also an interesting example of a Ewart Park sword due to its slightly stepped and flattened midrib, which is typically more rounded. This design feature does not affect the overall form of the sword though, and may simply reflect an individual variation.

The fragmentation of the sword bears no associated marks, such as impact marks or bending, which is typical of many sword fragments. From the pilot experiments, it can be suggested that this is because the sword was broken when hot, but by trying to replicate the fragmentation of an archaeological example, which was broken in certain places, the potential for controlling the damage inflicted upon the sword can be explored.

D.3.2 Compositions

Northover (1988) presented a broad compositional analysis of typologically, and geographically, diverse swords. Much of the metal used at this time was likely recycled material from the Continent, though the finds from Stogursey,

Somerset, indicate some metal of British origin was being utilised at the time (Northover 1988, 138). Northover (ibid.) states that "such metal would probably be a low-lead bronze with 8-12% tin and with arsenic the only impurity above 0.1%". However, further exploration of this within the South West sword compositions is difficult due to the limited number of Ewart Park swords analysed. Northover (n.d.) has analysed 17 swords from this region, of which only six can conclusively be determined as Ewart Park (see Table D.4). Table D.4 summarises these six objects only, and their tin-lead ratios are presented in Figure D.6. This sample of only six objects cannot be deemed representative. It is, however, noticeable in Figure D.6 that there is a narrow range in the tin percentage for five of the six swords (8.46-9.02%), which suggests a preferred percentage of tin. Lead, on the other hand, offers less insight, with one sword seemingly possessing no lead whatsoever (BCMAG-F006), while another contains 15.90% (TTNCM-F058u3). However, three of the swords possess lead within the range 1.30-2.80%. These examples were used to inform decisions about the composition of the replica swords. Neil Burridge initially produced two swords (2.1 and 2.2) composed of 9% tin and 1% lead, with the remainder being copper. Low lead percentages were undertaken due to safety concerns around utilising lead, while also aligning with the general data from the region. Low level impurities (e.g. arsenic and nickel) were not included in the compositions, as they would have limited effect on the resulting material and would have raised manufacturing costs. While working with Neil Burridge, he also produced two further swords of the same style (2.3 and 2.4), but with 8% tin and 2% lead, which he generously donated to this project. This allowed the opportunity to see if there was any noticeable difference in the minor change in composition, while also allowing some cross-comparison between the socketed axes and the swords.

Following the analysis of this research, it transpired that the St. Erth hoard had been metallurgically analysed in an unpublished report by Peter Northover (n.d.). Multiple analyses were taken for each object and then averaged; the results for the St. Erth sword fragments are presented in Table D.5.

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Thesis No.	Northover's Sample No.	Provenance	Object	Mus. Ref. No.	Cu	Sn	As	Sb	Pb	Со	Ni	Fe	Ag	Au	Zn	Pearce No.
ASH-F006	Ash 57	Devon	Ewart Park sword	1927.2381	90.12	8.46	tr	-	1.30	0.02	0.03	Tr	0.07	-	-	325
BCMAG-F005	Bs 1	Bristol Bridge	Lower blade of Ewart Park sword	F2169	90.65	8.91	0.20	0.11	-	0.02	0.09	0.02	-	-	-	606
RAMM-F040	Ex 35	Pole Sands	Ewart Park sword	574/1911	87.66	9.02	0.13	0.13	2.80	0.03	0.13	Tr	0.03	0.03	0.04	265
TTNCM- F058t3	Ta 5	Stogursey	Ewart Park hilt	68B (36)	82.56	10.25	0.31	0.19	6.50	0.01	0.10	Tr	0.08	tr	tr	746j
TTNCM- F058u3	Ta 16	Stogursey	Ewart Park hilt	68C	73.61	8.99	0.48	0.53	15.90	tr	0.15	Tr	0.24	0.10	-	746i
TTNCM- F058x3	Ta 22	Stogursey	Ewart Park hilt	38.68.A	87.82	8.76	0.31	0.22	2.50	tr	0.13	0.02	0.24	tr	-	746j?

Table D.4: The known compositions of Ewart Park swords in South West England (source: Northover 1988; n.d.)



Table D.5: Co	mpositional details	of the St Erth F	loard I :	sword f	ragme	nts (sou	rce: No	rthover	r n.d.)									
Northover	Theoic No.	Chicat							Elem	ent (% t	by weig	lht)						
No.	I ITESIS NO.	Object	Fe	ပိ	ï	cu	Zn	As	sb	Sn	Ag	ï	Pb	Au	сq Сq	S	A	Si
Tr 351/Mean	RCM-F037a.1	Sword hilt	0.02	0.02	0.07	88.44	0.01	0.05	0.09	10.74	0.04	0.02	0.45	0.01	0.02	0.00	0.00	0.01
Tr 352/Mean	RCM-F037a.2-3	Sword blade	0.02	0.01	0.08	85.25	0.02	0.05	0.03	13.34	00.0	0.01	0.89	0.05	0.00	0.19	0.01	0.05
Tr 353/Mean	RCM-F037a.4	Sword fragment	0.01	0.02	0.05	89.68	0.00	0.03	0.01	9.89	0.00	0.01	0.23	0.01	0.00	0.02	0.01	0.03

As can be seen, the St. Erth sword was produced of a predominantly tin-bronze, with around 10% tin present, but with less than 1% lead. This means that the compositions selected for the replicas sword have a tin percentage that is too low, and a lead percentage that is too high. While this might affect the results of producing comparable marks on the replicas with the originals, this does not diminish the relevance of the results for comparison with other archaeological specimens of a closer metallurgical composition.

D.3.3 Casting

An artificial sword model was produced by Neil Burridge ahead of casting, which was used to press a negative into a bivalve (two-part) sand mould. For each sword, 1000g of metal was melted in a crucible, in the appropriate weight ratios, with tin and lead added first, and poured into the mould. Each cast was successful, without casting flaws (Fig.D.7). However, Swords 2.3 and 2.4 demonstrated a more uneven flow of the metal along the blade, which may be related to the slight difference in composition. Alternatively, these two swords were cast on a separate occasion to Swords 2.1 and 2.2 and it may be that different external conditions (e.g. colder air) affected the casting.

Northover (1988, 131-132) detailed a general manufacturing process for swords, including the removal of casting jets and runners, followed by the grinding, polishing and overall working of the blade. It is rare to encounter a sword that has been left as-cast, with none of the examples studied from South West England indicative of having received no working at all. Swords 2.1 and 2.2. were thus prepared for use. The casting jet and runners were removed from Swords 2.1 and 2.2 using a steel

D.3.4 Post-casting processes and preparation


Fig.D.7: The as-cast Swords 2.1 and 2.2 out of the moulds (source: Author).

hammer, and an electric grinder was used to remove any casting flash. The surfaces were then sanded and polished using medium and fine-grain sandpaper to remove any casting material that survived. The swords edges were hardened by cold-working, to produce bevelled edges comparable to those seen on archaeological examples (Fig.D.8). Neil Burridge has devised a mechanism for performing this task, whereby the blade is placed between two square-section steel bars set up like a hammer and anvil; the blade is guided through this set-up as the upper bar is struck from above with a hammer to create an impact on both sides of the blade. This technique, although clearly inaccurate due to its steel components, produces an archaeologically comparable edge that has yet to be achieved by traditional approaches (e.g. Bridgford 2000); thus, following Molloy (2006, 177-8), it is possible to argue that perhaps the overall principles of the technique may have some archaeological substance, although not in materials. The edges were not annealed and the central rib was left as-cast and unworked. This decision was made because evidence of hardening along the flat of the blade is difficult to identify and consequently leaving the blade unhardened reduced the potential effect of this variable.

Rivet holes were then drilled in preparation for attaching a hilt. Selecting, producing, and fastening a sword hilt could constitute a whole series of separate experiments, so for this project, hilts were produced according to Neil Burridge's usual technique. While metal hilts on Ewart Park swords are known, they are rare, and none have ever been found in South West England, so an organic handle was appropriate. The hilt was produced from commercial ash

wood, and was formed of two shaped hilt plates that fitted either side of the metal hilt of the sword (Fig.D.9). A section of wood projected from each hilt plate above the hilt terminal onto which a pommel could be fitted using a mortise and tenon joint. The hilt plates were secured to the sword tang using copper rivets. The use of ash is well-documented in prehistory making it appropriate for this replica, though other types of wood, and other types of organic material would also have been appropriate. Similarly, evidence for pommels is widespread, though variable, with much of the evidence surviving in the form of metal hilts, and slight projections on hilt terminals (see various examples in Colquhoun and Burgess 1988). A key feature of pommels is that they greatly improve the balance of the sword, which will be useful during the use-experiments prior to destruction.



Fig.D.8: One of the edges of Sword 2.1 following hammering (source: Author).



Fig.D.9: Swords 2.1 and 2.2 with the hilts drilled and the ash hilt plates prepared for attachment (source: Author).

Finally, in preparation for use, the edges were sharpened using a silicon carbide sharpening stone to create a broad convex edge, which, following Molloy (2006, 193), would make the blade more resistant to damage. Only the lower blade of the sword was sharpened from the widest part of the blade to the tip because many of the swords studied tend to show greater evidence of this feature.

D.4 Barbed Spearheads

Three barbed spearheads were produced based upon the incomplete examples from the Bloody Pool hoard, Devon. These artefacts were handled and studied courtesy of the RAMM museum, Exeter, and Neil Burridge produced a complete model based on the surviving pieces. Three replicas were cast in two sand moulds. Two of the spearheads (3.1 and 3.2) were hafted with an ash shaft. Details of the individual spearheads are presented in Table D.6, alongside a discussion of the archaeological example chosen for reproduction, the selected compositions, and the post-casting processes undertaken.

D.4.1 The Bloody Pool Spearheads

3.1

3.2

3.3

In 1854, a hoard of spearheads and ferrules was discovered in a bog on Dartmoor called the "Bloody Pool" (Pearce 1983, No.295; Tucker 1867, 120-122). Three barbed spearheads were represented by five fragments, alongside an incomplete late pegged spearhead, and four ferrule fragments. The hoard has been dated to the Blackmoor phase of the Late Bronze Age (c.1020-920 BC; Davis 2015, 190-191) and it is suspected that the spearheads were deliberately broken. The watery context in which it was deposited contributes to the potential significance of this activity.

External; Int. = Internal; Wt. = Weight; w/o = without.							
	Dimensions (mm)						
Spear No.	Length	BI. W.	Bl. Th.	Sock. Diam. Ext	Sock. Diam. Int.	Wt. (g) w/o core	Wt. (g) w/ core

26.1x26.2

26x25.9

26.3x26.5

21.6x21.9

21.4x21.1

21.8x21

497

460

511

574

529

-

Table D.6: Details of the spearheads produced, following basic preparation after casting.
L = Length; BI = Blade; W = Width; Th = Thickness; Sock.Diam. = Socket Diameter; Ext. =
External; Int. = Internal; Wt. = Weight; w/o = without.

71

71.5

70.2

19

19.6

19.6

291

291

Due to the incomplete spearhead fragments, a complete example was reconstructed by Neil Burridge based on a thorough observation of the surviving pieces, as well as complete examples. The fragments of barbed spearhead that were lost were estimated to have represented a spearhead 352mm long (Tucker 1861, 161), though Davis (2015, 181) notes that of the 16 complete surviving spearheads the mean length is 265mm, with the longest being 289mm, from Congleton, Cheshire. Because the estimated length of the missing spearhead from Bloody Pool is doubtful, a spearhead was produced based on the surviving dimensions of the Bloody Pool examples (e.g. blade width and thickness), but with an overall length of the Congleton example to accommodate the possibility that the missing spearhead did in fact represent a large version.

The resulting dimensions of the replicas are slightly larger than anticipated, due to difficulties in casting these objects (see Section D.3.3). The replica blades were about 6-7mm wider and 4-5mm thicker than the originals; nonetheless, these dimensions do have archaeological comparisons (e.g. a barbed spearhead from Speen, Berkshire; Davis 2015, No.1320). A significant difference, however, is the weight of the replicas, which ranges from 460-511g. The heaviest recorded barbed spearhead is from Speen weighing 397g (ibid.), making the replicas up to 114g heavier than the heaviest known artefact. This, again, results from issues of casting, and the large size of the spearhead. However, this should not be detrimental to understanding deliberate damage.

D.4.2 Composition

There has been limited metallurgical investigation of barbed spearheads, but compositional analysis of the surviving Bloody Pool spearheads has been undertaken by Northover (n.d.). The barbed examples demonstrated a low lead percentage (1% and 2%), an average tin content (9.64% and 10.53%), and limited other minor elements, possibly indicating a production using local materials. All three replicas were thus produced with a composition of 87% copper, 11% tin and 2% lead. This composition allows a direct comparison with the archaeological artefact.

D.4.3 Casting

An artificial model of a spearhead was produced by Neil Burridge ahead of casting and this was used to press a negative into a bivalve sand mould.

Replicas of barbed spearheads have never been produced before and thus some difficulties were encountered in attempting casting.

The spears were cast through the sockets, rather than through the tip, which appears to have been how the originals were cast (Neil Burridge pers.comm.). The blade walls of the Bloody Pool spearheads are thin (c.1mm), which means that during casting, the core had to fill the majority of the mould, while allowing space for the metal to fill the void, which in some places was less than a millimetre. The difficulties of this can be observed in the casting flaws in Spearheads 3.2 and 3.3 (Fig.D.10). These have occurred where the core moved during casting and blocked the flow of metal. Similar complications have been encountered in the production of other large spearheads (Roland Williamson pers. comm.).

Additionally, each spearhead was cast in a different mould, with an individual core, which accounts for variations in the casting flaws and completeness of the spearheads, as well as the weight. As I was interested in having relatively complete specimens, cores made from modern clay were used for casting, to enhance the chances of obtaining a full casting; these were removed after casting. However, as one of the Bloody Pool spearheads still has its core left *in situ*, archaeologically comparable coring material was made up and packed into Spearheads 3.1 and 3.2 after casting and left to dry. This core material was made from 50% clay, and equal parts sand and dried horse manure. Although it would have been ideal to have incorporated this core from the beginning, it was doubtful that successful castings would be obtained, and as my experiments ideally required complete specimens, a compromise was made.

D.4.4 Post-casting processes and preparation

The casting material of the spearhead replicas was removed in the same manner as the swords and axes, and the socket mouth was ground to a flat surface. Peg holes were drilled into the side of each socket close to the tips of the barbs, as seen on the originals.





Fig.D.10A: Spear 3.1 at the top, cast without flaws, with Spear 3.2 underneath showing two casting flaws in the blade wall towards the tip (source: author's photo) **Fig.D.10B:** Spear 3.3 showing a long casting hollow through the blade walls down the midrib (source: author's photo)



Fig.D.11: The edge of a Bloody Pool spearhead (RAMM-F005a) showing evidence of working and material loss (source: author's photo courtesy of the RAMM, Exeter)

Analysis of the Bloody Pool fragments indicated evidence of similar preparation, including grinding and polishing (Fig.D.11), but it was difficult to identify whether the blade edges had been prepared for use. There is significant material loss to the edges of the originals, which may be the result of use-wear, but this is equally likely the result of post-depositional corrosion or abrasion damage.

The use of barbed spearheads has been highly debated. Evans (1881, 339) disregarded their potential as "fishing spears" due to their size, but suggests instead they may have been used to hunt larger game. Atkinson (pers. comm. in Ehrenberg 1977, 23), however, suggests that they may have been suitable for very large fish, such as sturgeon. Burgess et al. (1972, 227), conversely, contested that the association between these spearheads and watery contexts does not support a hunting function. Instead, they proposed the spears may have possessed a ceremonial or ritual purpose (ibid.). Richard Davis (2015) argues for this latter view also.

There is little suggestion that they may have been combat implements, though if they had a practical use it would likely have been as a thrusting or throwing implement. No experiments have been conducted to test these theories, and little attention has been paid to the evidence of use present on the barbed spearheads, which occasionally show signs of edge damage.

Due to this uncertainty, the spearheads were left largely unworked. The edges were ground to remove excess casting, but were not work-hardened or sharpened. Similarly, the blade faces were sanded with fine and medium grain sandpaper to remove any mould material (e.g. burnt sand). This reduced the number of variables involved in preparation, without compromising the archaeological evidence.

D.4.5 Hafting

Despite the lack of edge working, it was decided that at least one of the spears should be subjected to minor use-experimentation (see below) and thus the spearheads required hafting. As with attaching a hilt to the swords, however, this could constitute its own series of experimentation and debates around this process necessitates a broader discussion.

At least six prehistoric complete spearheads with shafts are known from Europe currently (Hooper and O'Connor 1976, 35-36). The shortest shaft is 143cm and three are approximately 2.5m, indicating the large size of at least some spears. None of these are barbed spearheads, however, so these shaft lengths can only be approximated here with caution. Previous experiments with other spear types have utilised shafts at lengths of 78cm (Anderson 2012, 83-84), 150cm (Anderson 2012, 83-84; Davis pers.comm.), and 180cm (Molloy 2006, 190), which have been shown to be effective. A shaft of at least 150cm long thus seemed appropriate, especially given the larger size of the barbed spearheads.

Determining the wood that should be used for the shaft is similarly problematic. Early twentieth century analysis of wood remains found in spearheads have shown that shafts are usually made from ash, or sometimes pinewood (Greenwell and Brewis 1909, 467), though only one barbed spearhead has been found with wood and subsequently analysed. At Park Wood, Ruislip, London, a Type III barbed spearhead was discovered with a short piece of ashwood shaft still in the socket (Cotton 1986, 5; Davis 2015, No.1375); this is consistent with wood found in other types of spearheads, though oak is also relatively common (see examples in Coles et al. 1978, 34-42). Previous spear experiments have also favoured ash (Anderson 2012, 83-4;

Davis pers. comm.). As wood from a Type I spearhead has not been analysed, it becomes necessary to rely on other contemporary examples.

Further issues arise in how one might attach the shaft. The short socket is disproportionate to the blade length and consequently is considered insecure (Ehrenberg 1977, 22). Furthermore, many still retain their clay core inside the long shaft, including the Bloody Pool and Thurlestone Beach examples, which would limit how far the shaft could be inserted (Bartlett and Hawkes 1965, 371). Metal pegs still *in situ* on the Bloody Pool examples indicate how the shaft was secured.

Bartlett and Hawkes (1965) suggested that a projecting wooden butt might have been socketed into the spearhead with a projecting tang that attached to a shaft by a thong that would become loose once the spearhead had been thrown and penetrated the target. They also proposed a shaft length of approximately five or six feet long for Bronze Age spearheads (ibid. 371), though considering the much longer examples recovered from across Europe on smaller spearheads, there is the potential for the shaft to have been much greater in length. Ehrenberg (1977, 22), however, considers the "wooden butt" theory unlikely due to the square section of the pegs inside the socket, which, drawing on personal communication with Atkinson, she considers makes it more likely the shaft was split-ended and inserted into the socket for use as a harpoon. The hafting method thus appears linked to how one considers the spear might have been used. It was therefore very difficult to determine how one should haft these spearheads.

Drawing on the above considerations, a commercial ashwood cylindrical shaft was produced two metres long and about two centimetres in diameter at its thickest (Fig.D.12). One end was tapered to slot into the socket of the spear, which was inserted about fifteen centimetres, and secured by hammering a peg with the same composition as the spearhead through the peg holes and the shaft to hold it in place (Fig.D.13). This relatively simple hafting method has been tested in previous experiments (e.g. Anderson 2012), and minimises the complexities of those suggested by Bartlett and Hawkes (1965) and Ehrenberg (1977). The opposite end of the shaft was tapered to improve the overall shape. The final weight of the spearheads dictated this slightly, as the heavier weight necessitated a greater length of the shaft to improve the balance of the overall

spear. This may have also been corrected by attaching spear ferrules, which would repay further experimentation.



TYPOLOGIES OF METALWORK FOR SOUTH WEST ENGLAND

E.1 Introduction

This appendix presents a summary of the various typologies used for different object types and how they reconcile with each other within South West England. For many objects, this poses little problem as widely accepted typologies have been used for many years with little contention (e.g. Colquhoun and Burgess' (1988) typologies of swords; or Burgess and Gerloff's (1981) definitions of dirks and rapiers).

Some typologies are, however, constantly evolving, or are in the process of reassessment, which means some of the literature appropriated here has yet to become common nomenclature. Boughton (2015), for instance, has recently refined the typology for Late Bronze Age and Earliest Iron Age socketed axes, readdressing the typology by Schmidt and Burgess (1981), even contravening commonly assumed chronological distinctions (e.g. Sompting axes might now be considered part of the Earliest Iron Age, rather than Late Bronze Age). Similarly, though of a less complicated nature, Burgess et al.'s (1972) classification of barbed spearheads (Types I-IV) has been reduced by Davis' (2015) to two types (Type 15A and 15B). The quality of these recent works nonetheless means it is best practice to incorporate this new terminology, though emphasises the need for a table that demonstrates how it all links together.

For consistency, the typology posed by Pearce (1983) underpins many of the typologies presented here as it specifically addresses the material from South West England; however, Pearce's typology has also been refined and critiqued according to more recent studies. The objective here is to present a summary of the typological structure applied within this thesis, rather than to construct a new set of typologies, though refinements have been made to existing typologies to make them more applicable to this project. Only those elements of typological schemes that are relevant to the artefacts from the South West are described here rather than a complete regurgitation of British

and European typological schemes. First, Pearce's (1983) overarching typology is addressed, before object-specific typologies are presented.

E.2 Pearce's (1983) Typology

In her 1983 corpus, Susan Pearce ambitiously presented a synthesis of all objects from all periods and defined a typology to cover all objects. In some cases, she appropriated previous typologies (e.g. Gerloff's 1975 dagger typology), but for others (e.g. rapiers) she presented her own terminology. Similarly, for axes and swords she used commonly accepted terminology of regional variations based on prior studies (e.g. Yorkshire socketed axes, or Ewart Park swords). In most cases she applied simple descriptive terms to define objects, such as "ribbed bracelets", "late pegged spearheads", or "threeribbed socketed axeheads". While for the nature of her task this offered a means for grouping like objects together, there is often little clarification of the different forms of each of these objects, or a link to any specific dating system, making it difficult to determine how one might identify a later form from an earlier form or how one might distinguish different types of the same object.

An example of this can be seen in her definition of palstaves, which draws on Smith's (1959a) classification of low-flanged from high-flanged forms. Smith (1959a) distinguished early low-flanged palstaves from those common in south-western Britain, where the flanges have a breadth of "often 1 ½ inches or more high" (ibid., 168); these high-flanged palstaves are regarded as the south-western form. Pearce (1983), however, presented both a high-flanged palstave type and a south-western type, though offered no means for distinguishing one from the other. This thus makes it difficult to utilise this typology. This issue is addressed further below.

Pearce's typology, nonetheless, has the benefit of having already been applied to many of the objects studied here, and thus the object-specific tables presented below reference the terms originally used in her corpus alongside more recent typologies; in situations where no new typology or terminology exists, Pearce's typology has been applied until a new typological structure emerges.

E.3 Axes

A major issue in structuring the typology of the south-western material is the classification of axes. As mentioned above, Pearce's (1983) typology for axes combined a series of different approaches drawing on specific regional types (e.g. Migdale flat axes or South Wales socketed axes) combined with basic descriptions of axe forms (e.g. thin-butted axes or shield pattern palstaves). Whilst a study of the axes falling within these groups often makes it clear what defines each typological form, her description of the groups was sparse making it difficult to accurately apply her terms to new forms.

By far the most comprehensive survey of British Bronze Age axes is that by Schmidt and Burgess (1981), which presented a catalogue of Bronze Age axeheads from Northern Britain. As noted above, this work has already undergone some reinterpretation, but it is still largely used to classify axes across Britain, particularly as part of the Portable Antiquities Scheme (PAS). A synthesis of all Southern British axes is still lacking (though see Needham 1983; 1990a; 1993; 2018; Rowlands 1976), making Schmidt and Burgess' typology appropriate as a base structure from which to work. Axes have been separated into four broad categories: Flat and flanged axes; Palstaves; Middle-Late Bronze Age socketed axes; Late Bronze Age-Earliest Iron Age socketed axes. Additional axes that do not fall within these categories, such as winged axes, are presented in an additional section.

E.3.1 Flat and Flanged Axes

Flat and flanged axes dating to the Early Bronze Age have been classified according to Needham's (1983; 2018) typology, which established defining features dividing classes of axes based on metrical calculations. This has provided resolution of types that were previously quite broad (e.g. Types Migdale, Killaha and Arreton; Harbison 1969; Pearce 1983; Schmidt and Burgess 1981). The *Class* system employed by Needham in 1983 has since been updated (Needham 2018) and this latter typology is utilised here. All Early Bronze Age flat and flanged axes known from South West England were classed in Needham's (1983) original synthesis and it is possible to continue this classification with any discoveries made since. For the purposes of the present thesis, however, divisions into the overarching classes is sufficient so the metrical analysis conducted by Needham has largely not been followed;

sub-classes are only applied when classification is clear or can be achieved from the standard measurements taken during the course of the data collection.

For instance, Needham (2018) divides relative butt width (RWB and RWB') into three overarching categories (broad, medium, and narrow), which are achieved by calculations involving the width of the butt (WB) relative to the width of the cutting edge (WE) and the overall length of the axe (L). As these are all standard measurements that have been taken, it was be possible to subdivide the axes under study where necessary. However, other measurements, such as the width at the middle of the axe (W2) and the length of the body (LB), which could be used to determine the expansion of the haft end (EH), have not been taken (see Needham 2018 for a full description of his metrical analysis.

Early Bronze Age axes show a transition from copper to bronze and from flat to flanged forms; defining features include the height of flanges, shape of the sides, width of the butts and cutting edges, which offer a typological structure (Figs.E.1; E.2). The association of axes with other material and with burials means that a firm chronology can be established for the development of axe forms. Due to the diversity of Flat and Flanged axe types, only those applicable for the South West are presented here with a summary of key distinguishing features (Table E.1).



Fig.E.1: Terminology for different parts of flat/flanged axes (source: Needham 2018, Figure 1)



Fig.E.2: The typological series of Chalcolithic and Early Bronze Age flat and flanged axes in south-western England adapted from Needham (2018). Numbers refer to Needham's catalogue. (source: Needham 2018, Figures 17-31)



Fig.E.2 continued.



Fig.E.2 continued.

Table E.1: A summary of Needham's (1983; 2018) typology for flat and flanged axes,
reconciled with Schmidt and Burgess' ((1981) and Pearce's (1983) typologies.

Phase	Schmidt/ Burgess	Pearce	Needham	Key Features
	Types Castletown Roche/ Pitlochrv:	Thick- butted	Class 1	Parallel-faces; broad to medium butt width; almost always made of copper
	Growntown/ Milton Moss; Lough Ravel/ Minto		1A (Type Minto)	Sub-square or slightly arched butt; parallel-sided body, with marginal expansion following by flaring to deeply curved cutting edge.
I			Class 2	Lenticular side profile; broad butt; thin rounded butt or slightly thicker flatter butt; edge bevels.
MA		Thick	2A (Type Burley Camp)	Similar shape to 1A.
	Type Ballybeg/ Roseisle	butted/ Thin- butted	2B (Type Lode)	Similar shape to 1A and 2A but shallower cutting edge; sometimes second bevel above edge bevel.
			2C (Types Purdis and Ironbridge)	Near trapezoidal body; gently curved sides; types distinguished by butt widths; arched butts
			2D (Type Halberton)	Trapezoidal; near straight sides; less arched butt than 2C.
	Type Migdale	Broad Migdale	Class 3	Lenticular side profile; narrower butt width than Class 2; generally in bronze rather than copper; later forms may have low flanges.
MA III				Medium-broad butts; Type Scunthorpe = gently curving sides; Type Lansdown = parallel haft end that gives way to curved sides that flare to the blade tips.
	Type Killaha	Killaha	3B (Type Boreland)	Broad cutting edge (width = two- thirds the overall length)

		Slender Migdale	3C (Type Harlyn Bay)	Trapezoidal shape; slightly concave sides from very narrow, low arched butt; shallow cutting edge.
	Type Scrabo Hill	Broad/Slender Migdale	Class 4	Lozengic side profile; stop bevel; generally low flanges; curved/angled sides.
			4A (Type Kettering)	Broad blade.
III-MA V			4B (Type Aylesford)	Medium-broad mid-blade width; near straight sides at haft end; sides diverge from median bevel in straight line; low flanges frequent; shallow cutting edge; barely expanded blade tips.
M	Type Bandon		4C (Type Mount Pleasant)	Similar shape to 4B but narrower blade.
		Small developed	4D (Type Cardiff Castle)	Asymmetrically curved sides; narrow mid-blade: parrow cutting edge
			4E (Four types not applied here)	Strongly flared lower blade; crescentic cutting edge; strong out-turn of blade tips; relatively narrow mid-blade.
~	Types Balbirnie Arreton and Arreton Arreton		Class 5	Well-developed flanges (c.1.5mm); curved sides expanding at the blade tips; arched butts, sometimes pointed; almost always a stop bevel.
		5A (Type Horncastle)	Long-flanged (flanges that extend down the hafting end, but not to the blade tips); low to moderately arched butt; expanded but not recurved blade tips.	
MA		5B (Three types not applied here)	Small implements; narrow cutting edges.	
		-	5C (Type Bisham)	Slender body width.
			5D (Type West Drayton)	Medium body width.
			5E (Type Clifton)	Broad body width.

E.3.2 Middle Bronze Age Flanged Axes and Palstaves (Table E.2)

Determining a typological structure for Middle Bronze Age axes, specifically palstaves, is slightly more complex however. Needham's (1983) scheme ends with the development of Arreton flanged axes, which possess long flanges extending down the length of the blade. Flanges become shorter in the transition to the Acton Park phase (c.1600 BC) and steadily develop distinctive transverse bevels and stops, that are eventually incorporated in the characteristic palstave form.

Table E.2: A summary of Schmidt and Burgess' (1981) typology for flanged axes and palstaves reconciled with Pearce's (1983) typology. One new type and one new variant are inserted in bold.

Phase	Pearce	Schmidt/ Burgess	Key Features		
	Haft-flanged/ Wing-flanged	Early short- flanged	Developed flanged axes; heightened flanges; low bevel or stop; occasional decoration on upper blade.		
MA VI Arreton-		Type Bannockburn	Narrow haft ends; often low flanges (c.10mm); transverse bevel; crescentic shaped rib at blade expansion; deep, broad crescentic-shaped blade.		
Acton Park		Type Cragg Wood	Shield-pattern; straight or rounded butt; angular flanges.		
		Type Kirtomy	No shield ornament; optional stop; overall slender form; variety of blade expansions.		
Acton Park-		Later short- flanged	Developed flanged axes; heightened flanges; low bevel or stop; occasional decoration on upper blade.		
Taunton	Haft-flanged/ Wing-flanged	Type Cargill	Convex flanges; plain blade; slender; parallel-sided hafting end; restricted blade expansion.		
Taunton- Penard		Type Balcarry	Sloping stop rising up to a bevel line connecting the lower end of the flanges; angular flanges; flanges turn in over the septum.		
PALSTAVES					
Acton Park-	Early shield pattern	Gr.I (Primary shield pattern)	Short high-angled flanges; shallow depression, raised moulding or panel; unlooped; narrow blade; wide cutting edge.		
Taunton		Gr.II (Early midribbed)	Lower flanges often extending down the blade sides; midrib; unlooped; narrow blade; crescentic cutting edge.		
Acton Park- Penard	Low-flanged	Gr.III (Low- flanged, broad- bladed)	Low flanges; variable decoration; optional loop; broad blade; wide cutting edge.		
Taunton-	High-flanged South- western	NEW: Gr.IV (High, plateaued flanges)	As above but high flanges that plateau at the height of the stop.		
Penard	South- western Crediton	South-western NEW: Crediton	As above but lozenge or oval section flanges rising up and back down sharply.		
Penard	Double- looped	Twin-looped	Low flanges; two side-loops; narrow blade.		
Penard- Wilburton	Transitional	Transitional	Low flanges; typically midribbed; looped; narrow blade and butt.		
Wilburton- Ewart Park	Late	Late	As above, but stop ridge usually higher than the flange; often plain or three short vertical ribs.		

One of the initial approaches to Middle Bronze Age axes is presented by Smith (1959a) who distinguishes earlier haft-flanged and wing-flanged axes from low and high-flanged palstaves (the latter being more commonly referred to as 'south-western' palstaves), as well as later 'transitional' and 'late' palstave types. This system has formed the basis for many of the palstave typologies tackled since.

Rowlands' (1976) presented a holistic structure for grouping classes of Middle Bronze Age axes, and indeed other forms of objects. This axe typology relied on separating firstly, flanged axes from palstaves, and then broad-bladed palstaves from narrow-bladed palstaves, with each type further broken down according to the presence/absence of decoration and loops, the nature of the flanges and the overall size (Rowlands 1976, 22-40). This is largely influenced by Butler's (1963) classification system which also separated broad-bladed and narrow-bladed palstaves. Rowlands implemented a numerical system of classes and sub-groups to define flanged axes and palstaves. This numerical system, however, has not been widely used and Pearce's (1983, 27-31) palstave typology adopted only elements of it, defining different forms according to a mixture of Butler's (1963) Class I and II system, as well as Rowlands' classes (though by name rather than number), and supplemented by descriptive names based on the presence/absence of loops and the height of flanges, the problems of which have already been touched upon. Indeed, some of the types listed in her typological scheme are not referred to within her main corpus (Pearce 1983, 31).

The problems surrounding palstave typologies are immediately clear; as Schmidt and Burgess noted "a conclusive typology of the palstaves can really only be expected after the publication of a completely illustrated corpus of the material from southern Britain, and, indeed, northern France" (1981, 10). Schmidt and Burgess' (1981) palstave typology largely builds on the studies by Smith (1959a), Butler (1963) and Rowlands (1976), but is restricted by the relatively small number of palstaves in northern Britain. They distinguished flanged axes, firstly by the length of the flanges (namely long-flanged vs. shortflanged axes but with no precise measurements given) and then by associations indicating typology and the narrowing of the blade, defining an Early Short-flanged (Fig.E.3(1-3)) and a Later Short-flanged type (Fig.E.3(4-5)).

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Fig.E.3: The sequence of Middle Bronze Age flanged axes and palstaves. Early shortflanged axes: 1) Type Bannockburn; 2) Type Cragg Wood; 3) Type Kirtomy. Later shortflanged axes: 4) Type Cargill; 5) Type Balcarry. Palstaves: 6) Group I; 7) Group II; 8) Group III. (source: adapted from Schmidt and Burgess 1981).

However, the subjectivity of this distinction is acknowledged (Schmidt and Burgess 1981, 76).

This characterisation of "short-flanged" axes is applied here, replacing Smith/Pearce's terminology of "wing-flanged" and "haft-flanged". This is because Schmidt and Burgess (1981) developed sub-types within their classification, which is useful here to identify trends in distribution. At least five sub-types from the northern distribution of flanged axes are present in the South West. However, it became clear when applying this terminology that there are several examples that do not conform. Rather than constructing a new typology for these flanged axes, those that could not be categorised are simply considered "short-flanged". This axe form originates out of the Arreton phase flanged axes and continues to the Penard phase, alongside palstaves.

Schmidt and Burgess' (ibid.) palstave groups are separated according to the form of the blade and flanges, as well as the presence of the loops and specific decorative features, which is in line with previous typologies. The earlier palstaves are broken down into Groups I, II and III (Fig.E.3(6-8)), and Southwestern, followed by Transitional, Double-looped and Late palstaves. This typological system has been mostly appropriated here due to the relatively welldefined typological and chronological sequence that still largely applies today, as well as the broad groupings that allow newer discoveries to be defined. Schmidt and Burgess (ibid.) present types and variants within their groups, though these have not been applied here except where a clear example or variant can be defined. An additional group (Group IV) has been included here to accommodate a typological distinction highlighted by Schmidt and Burgess, as well as a variant of the south-western group. For clarity, an overview of the palstave types and key characteristics is presented here.

Group I (Primary Shield Pattern) encompasses the earliest forms of palstaves, dating predominantly to the Acton Park phase, largely identifiable by short, high angled flanges, accompanied by a shallow depression, raised moulding, or raised panel below the stop. These are always unlooped and have a narrow blade expanding to a wide cutting edge (ibid., 117). It should be noted that in South West England there is evidence that the use of this type extended into the Taunton phase. For instance, a Group I palstave was found associated with South-western palstaves in the St. Tudy hoard (RCM-F042). Group II (Early Midribbed) palstaves are chronologically and typologically similar to Group I, but have a midrib extending down the blade, rather than a shield pattern, and the flanges are generally lower, often extending as raised sides down the blade. The blades remain narrow, but expand to strongly curved or crescentic cutting edges, sometimes possessing recurved tips (ibid., 125-126). Again, this group is always unlooped. Schmidt and Burgess (ibid.) present at least three variants distinguished according to the length of the midrib and raised sides, as well as the curve and bevel or chamfer of the blade (ibid.).

Group III (Low-flanged, Broad-bladed) palstaves are the most common palstaves identified in Britain. As the name indicates, they are defined by low flanges that do not rise above the stop ridge, and a broad blade, with a wide cutting edge. Examples from South West England indicate that the breadth of the 'low' flanges is usually less than 30mm, with Smith (1959a, 167) defining the height of low flanges above the septum as "rarely... more than 1/2 inch (and often less)" (c.12mm); almost all low-flanged palstaves in South West England are 10mm or less. Three main blade forms are noted; the first two (triangular

and crinoline) typically have unexpanded, straight edges, while the third form is a broad blade with a curved edge, often crescentic, with blade tips. Schmidt and Burgess (1981, 128-129) have shown that a side-loop is an optional feature, not a chronological one, and the decoration on the blade is equally variably, encompassing shield patterns, midribs, and trident forms. The authors list eleven types within this group, and variants within these groups. These are differentiated according to combinations of blade shape, decoration, the nature of the flanges and the presence of a loop. It is difficult to place Group III palstaves chronologically, but their main currency appears to be within the Taunton phase, with its origins in the preceding Acton Park phase and evidence of continuation into the Penard phase (ibid., 129-131).

Of particular importance to the present study is the South-Western group of palstaves (Fig.E.4). These are essentially identical to Group III palstaves with regards to the broad blade, optional side-loops and variable adornments. However, they differ due to their high flanges, defined by Smith (1959a, 168) as being "1 ½ inches of more high" (c.38mm) clearly referring to the flange breadth rather than the height above the septum, which is usually 11mm or more; the flange height thus demonstrates some overlap with Group III. The breadth as defined by Smith is accurate for many South-Western palstaves, but excludes a large number that meet the overall South-Western form, but fall short of these dimensions. Consequently, this threshold is lowered here due to the large number of palstaves that are South-Western, but have a flange breadth of about 33-34mm. Schmidt and Burgess (1981) accepted Smith's breadth definition, but note that for a true South-Western type: "The flanges must not only be high, but must continue to rise above the stop to the highest point, from which they angle sharply downwards" (ibid., 141-142). This creates flanges that have a lozengeshaped side profile. They distinguish between palstaves with high flanges that possess this trait and those that have high flanges that do not rise above the stop ridge and instead plateau at the height of the stop.





Due to the limited number of the South-Western group in northern Britain, Schmidt and Burgess (1981, 142) comment on this typological variation of flange form, but do not offer a distinguishing group. Clearly simply labelling all high-flanged palstaves as "South-Western" is inadequate, especially given that earlier Group I palstaves also have high flanges, whilst flange form and shape is variable. As such, here high-flanged palstaves outside of the Group I variety are separated into two groups: Group IV (High, plateaued flanges) and Group South-Western. These two groups differ from Group III only in terms of flange height and form; in all other aspects, they have the same variability of blade shape, decoration and side-loops. Group IV encompasses those palstaves noted by Schmidt and Burgess that possess high flanges though lack the lozenge shape characteristic of South-Western types (Fig.E.5). The flanges typically start from the butt or just below the butt and rise steeply before plateauing at a height equal to, or slightly more than the depth of the stop. This creates a 'leaf-shaped' side profile and typically the overall flange breadth is not more than 1-2mm greater than the stop depth. This group is uncommon in South West England, and few of these palstaves were studied during the course of this research, with the majority being identified in the Taunton Workhouse hoard (TTNCM-F053); nonetheless the flange breadth tends to be lower than many of the South-western examples, with a breadth that ranges from 31mm to approximately 36mm. The distribution pattern of this group in South West England is confined to Somerset, but Schmidt and Burgess (1981, 142) note that palstaves of this form have a distribution pattern that extends more broadly across Britain. A recent example



Fig.E.5: A Group IV palstave (source: Author courtesy of PAS/Trustees of the British Museum)

has also been recovered from Llanfrynach in Wales (Knight 2017). More work needs doing to further clarify this typological grouping.

The South-Western palstave group is densely concentrated in Devon, Dorset and Somerset (see Fig.6.7). The group is defined here by any palstave with a flange breadth of approximately 33mm or more (equal to a flange height of roughly 11mm above the septum). These flanges can rise from the butt or below the butt to a breadth approximately 3mm more than the stop depth, before sharply descending to the stop and the upper blade. This typically creates a lozenge shape in side profile, but there are examples of more rounded or oval forms which decline more gently to the stop.

Within the South-Western group, a distinctive variant can be identified: Variant Crediton (Fig.E.6). This variant is defined in both Rowlands' (1976) and Pearce's (1983) monographs, possessing distinctively high angular flanges that extend onto the blade to form a V-shaped rib. Additionally, they are almost always unlooped and possess a crinoline blade shape, usually with a straight or slightly curved cutting edge. Currently, the only known example of a looped Variant Crediton palstave is seen in the Plumley hoard, Devon (RAMM-F038c). The flanges of South-western palstaves start below the butt, sloping sharply upwards above the height of the stop and then back down again to the stop, creating a distinctive lozenge side profile; the breadth of the flanges is often in excess of 40mm. It is named after an example in the Crediton hoard, Devon (ASH-F004a) maintaining consistency with Pearce's and Rowlands' works, but the main distribution of this variant is in Cornwall and partly in Devon (Rowlands 1976, Map 8), suggesting a regional development of the South-Western type.

The high flanges of the Groups IV and South-Western seem to originate from the Group I palstaves, but the main currency for these palstaves is in the Taunton phase, as evidenced by the numerous Somerset hoards consisting of these palstaves associated with other tools and ornaments (e.g. Taunton Union Workhouse, Sherford, and Edington Burtle). The Variant Crediton palstave in the hoard of its namesake was found alongside a transitional palstave, suggesting that South-Western palstaves held currency into the Penard phase, but examples in later hoards are rare.



Fig.E.6: A Crediton variant South-Western palstave (source: Author's adaptation of Smith 1959b, GB.45)

The Groups I-IV and South-Western palstaves comprise the main types produced, dominating much of the Middle Bronze Age. Further typological refinements can inevitably be made, but for the purposes of this thesis, the typology presented is sufficient. The remaining palstave types, dating from about 1200 BC onwards are more broadly accepted and thus require only brief consideration.

Palstave types in the Penard-Ewart Park phases (c.1275-800 BC) fall within a series of narrow-bladed implements. The Transitional group defined by Smith (1959a), and clarified by Schmidt and Burgess (1981, 145-146), is characterised by a narrow butt and blade, the presence of a side-loop, and low flanges that extend in a straight slope from the butt to the stop ridge, creating an elongated lozenge side profile of the whole palstave. The blade is typically adorned with a midrib. Transitional palstaves were succeeded by Late palstaves, which maintain a narrow form, but are distinguished largely by the nature of the flanges, which are low and often start below the butt, sloping towards the stop ridge, but the stop ridge is higher than the flanges (Schmidt and Burgess 1981, 158-160; Smith 1959a, 167-168). These palstaves are usually looped, but unlike the Transitional group are often plain or adorned by three short vertical ribs below the stop. Six types and variants have been defined and the main currency falls within the Wilburton period, though with some examples in the Ewart Park phase (Schmidt and Burgess 1981, 160-163).

Finally, double-looped palstaves (alternatively referred to as 'Twinlooped') warrant brief mention, because although they are a more typical Iberian form, several are known from South West England, predominantly in Somerset as both single finds and in hoards (Childe 1939). This final type was a development in the Penard phase and is characterised by a narrow-bladed form and a side-loop either side of the stop.

These final three groups have limited distribution in South West England, though occur in a variety of contexts, signifying the influence of other areas. The palstave typology presented here is necessarily detailed, due to the lack of a comprehensive structure that might be applied to South West England with any readiness. As the aim was never to establish a conclusive typology, the work presented here should be seen as an approach on which to build in the future.

E.3.3 Middle-Late Bronze Age Socketed Axes (Table E.3)

A comprehensive typology of the socketed axes of southern Britain is still lacking, and it is beyond this thesis to attempt such a task. Schmidt and Burgess (1981) produced a thorough assessment of those types found in northern Britain, which forms the basis of the typology here, but regional variation inevitably means that in some aspects their typology does not necessarily incorporate all of the elements of southern British socketed axes. Regionally distinctive types (e.g. Yorkshire, South Welsh, South-eastern) have long been accepted, but problems occur with axes with more general features. Needham (1990a; 1993) has, to a certain extent, attempted to rectify the situation with a classification system for application to southern Britain, though this lacks completion and thus the terminology utilised by Schmidt and Burgess has largely been adopted here. Types not applicable to the South West (e.g. Types Everthorpe and Gillespie) have not been presented, and one generic supplementary type utilised by Pearce has been used here 'three-ribbed' for those axes that have three ribs, but do not conform with types established so far.

Phase	Pearce	Needham	Schmidt and Burgess	Key Features
Taunton- Penard	Taunton	-	Taunton- Hademarschen	Square mouth; long, narrow, square to rectangular body; small loop; concave sides; slightly curved cutting edge.
Penard- Wilburto	Stogursey	-	Gwithian	Square socket; flat collar; long straight form; unexpanded blade; three parallel or converging ribs; slender loop.
	Faceted	Class D (Faceted)	Meldreth Variant Aylsham Variant Eaton (Fig.E.7(2))	Round/oval socket; trumpet-shaped collar; combination of one or multiple collar mouldings, grooves and/or steps; slender faceted body (6-12 facets).
Ewart Park	South- eastern	Class A (South- eastern)	South-eastern (Fig.E.7(1))	Square/sub-square socket; rounded collar with double collar mouldings; side-loop originating from the lower collar; decorated or plain.
	Yorkshire	-	Yorkshire	Square socket; horizontal collar moulding; loop below collar; three widely spaced vertical parallel ribs;
	Stogursey	Class C (Stogursey)	South Wales (Fig.E.7(3))	Large square socket; four sprue stumps usually present on broad flat collar; loop originates from the lip of the collar; three parallel or converging ribs; often as-cast or poorly worked.
	-	Class B (Southern- English)	Welby (see Fig.4.9)	Rounded or sub-rectangular sockets; double collar mouldings; side-loop originating from the lower collar; three or more vertical ribs; straight or crescentic cutting edge.
	Three- ribbed	-	-	Unclassified axes with three vertical ribs; rounded or square socket; variety of collar mouldings.

Table E.3: A summary of Schmidt and Burgess' (1981) typology for Middle-Late Bronze Age socketed axes reconciled with Needham's (1990a; 1993) and Pearce's (1983) typologies.

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Fig.E.7: Socketed axe types. 1. South-eastern; 2. Type Meldreth, Variant Easton; 3. South Wales (source: Needham 1990a, 29, 39, 42, Figs.2, 7, 8)

A further issue surrounds dating socketed axes. A great number fall within the Ewart Park phase of the Late Bronze Age, while others might be readily identified as falling within the Taunton and early Penard phases of the Middle Bronze Age, but axes that can be conclusively dated to the intermediary period (Penard-Wilburton) are rare. Schmidt and Burgess (1981, 175-180) present a series of axes that might be considered from this period, though as Needham (2017) highlights, one of the key issues is the lack of associations that might help identification. It must thus be presumed that some of the Late Bronze Age axes presented here likely held currency earlier than the Ewart Park phase. Needless to say, a reassessment of socketed axes would be hugely beneficial.

E.3.4 Late Bronze Age-Earliest Iron Age Socketed Axes (Table E.4)

Boughton (2015) recently assessed the situation of later socketed axes, determining a separate classification system for those typically considered to date to the latest Bronze Age periods, and placing them instead in the Earliest Iron Age i.e. the Llyn Fawr period (c.800-600 BC). Consequently, the later types presented by Schmidt and Burgess (e.g. Sompting and Armorican) are now outdated and have been refined. Boughton's (2015) typology, including her variants, has been applied here, as it is particularly pertinent to South West England, where there are concentrations of certain types (e.g. Portland and Blandford types in Dorset). **Table E.4:** A summary of Boughton's (2015) typology for Earliest Iron Age socketed axesreconciled with Schmidt and Burgess' (1981) and Pearce's (1983) typologies.

Phase	Schmidt/ Burgess	Pearce	Boughton	Key Features
-Llyn Fawr	-	-	Transitional	Round or square socket; often rib-and- pellet; narrow crescentic cutting edge.
Ewart Park	Sompting	Sompting	Sompting > Cardiff II > Figheldean > Tower Hill	Back-to-front or square socket; rib-and- pellet or plain; straight or crescentic cutting edge.
Fawr	Armorican	Armorican	Armorican	Back-to-front or square socket; long body; narrow blade; plain; straight cutting edge; often as-cast.
Llyn	-	Linear faceted	Portland (Fig.E.8)	Round/oval socket; rib-and-pellet; as-cast.
	-	Linear faceted	Blandford (Fig.E.9)	Round/oval socket; linear-decorated; as- cast.



Fig.E.8: Portland Type socketed axe (source: Author courtesy of the British Museum)



Fig.E.9: Blandford Type socketed axe (source: Author courtesy of the British Museum)

E.3.5 Additional Axes

Final consideration must be given to those relatively anomalous axes that occur infrequently not only in South West England, but also Britain as a whole.

E.3.5a Miniature Axes

Very small versions of more common larger axe types (e.g. flat or socketed axes) are increasingly being recovered and identified as such, particularly with the involvement of the Portable Antiquities Scheme. Schmidt and Burgess (1981, 247) note two socketed examples, while the PAS online database lists at least twelve. To these an example from Gussage All Saints 20, Dorset (PRIV-F004) and Chewton Mendip II, Somerset (PAS-F204; Fig.E10) can be added. While the dating of these is uncertain, they are increasingly being identified as part of a Late Bronze Age-Earliest Iron Age tradition (*contra*. Robinson 1995) and ongoing research is establishing typological frameworks (Sharples 2016). Within this thesis, however, they will simply be classed only as miniature axes.





Fig.E.10: A miniature socketed axe from Chewton Mendip II, Somerset (source: image courtesy of the PAS/Trustees of the British Museum)

E.3.5b Winged Axes

Winged axes, defined by their high hammered flanges, often folded over, can be reduced to two basic forms: median-winged and end-winged. Both have their origins in European traditions, with median-winged axes dating to the Penard phase, while the end-winged form appears from the late Wilburton phase and has its main currency in Britain in the Carp's Tongue tradition in south east England (Schmidt and Burgess 1981, 114-115). A median-winged axe was possibly recovered from Williton, Somerset (Knight et al. 2015, No.451) but are otherwise unknown as yet in South West England. End-winged axes, or fragments of, are on the other hand increasingly known, though the number still remains under ten.

E.4 Tools and Equipment (Table E.5)

This section presents the numerous metal objects might be best described under the overarching term: tools and/or equipment. This includes objects that likely had a utilitarian function, and may have had a variety of uses. The extent to which typologies have been created for different objects varies, so each object type has been discussed briefly individually, which is synthesised in Table E.5. The one exception is razors, which have been subjected to multiple revisions and an adapted typology has been created for the purpose of this thesis (Table E.6). The tools are arranged alphabetically and largely date from the Middle Bronze Age onwards.

E.4.1 Anvils

Bronze Age anvils are very rare. Ehrenberg (1981) presented six anvils known from Britain, of which one was from Flax Bourton, Somerset. However, this was shown to be a fake, albeit possibly modelled on a real example (Pearce 1983, 45). An anvil has recently been recovered from Dorset (PAS-F182). Ehrenberg separated anvils into three types: Simple, Beaked and Complex. The recent discovery is a Complex type. Anvils date to the Middle-Late Bronze Age.

E.4.2 Awls

Awls are small bars of copper or bronze tapering to a point at one or both ends. The point forms the basis for differentiating forms here. Thus, awls are classed as either:

- Single-pointed; or
- Double-pointed (Fig.E.11).

Awls appear in the earliest stages of the Bronze Age and continue in use throughout the period. Awls thus display a great variety in size and form, and are often dated according their associations. Awls have been divided here according to whether they are single-pointed, or double-pointed, though it is important to note other characteristics, such as the section shape (either round or square), the nature of the mid-section junction, which might be ridged or collared, and the form of the tang. Typically, double-pointed awls occur in the Early Bronze Age and single-pointed awls from approximately 1700 BC onwards (Pearce 1983, 42). Single-pointed awls during the Middle and Late Bronze Age typically have a round-section point, and a square or rectangular section tang, which may taper to a flattened end (Rowlands 1976, 48). **Table E.5:** A summary of the typologies applied to copper alloy tools and equipment found in south-western England, reconciled with the typology applied by Pearce (1983) where appropriate.

Object Type	Date/Phase	Pearce	Tvpoloav	Key Features
	M-LBA	-	Simple	One or more work surfaces and possibly a spike to secure it.
Anvils			Beaked	A work surface and one or two 'beaks'; possible spike.
			Complex	More than one beak or spikes, allowing it to be mounted in different positions.
(0	EBA	Double- pointed	Double- pointed	Small, round-sectioned awls tapering to a point at both ends.
Awls	M-LBA	Single- pointed	Single- pointed (Fig.E.11)	Round or square-sectioned awls, tapering to a point at one end and a bar or flattened tang at the other.
Bugle- shaped objects	LBA	Bugle- shaped objects	Bugle- shaped objects	Tubular or flat; variety of terminal forms; slot in tubular variety.
	E-MBA	Plymstock	Bar	Solid square-section bar, tapering to a flattened chisel end.
	M-LBA	Sparkford	Tanged	Flat chisel blade, often expanded with a curved edge, tapering with concave edges to a slender rectangular tang with a pointed or rounded end.
Chisels	M-LBA (Taunton phase onwards)	Socketed	Socketed	Unlooped, socketed tools with a flattened, often curved, blade. Wide collars, square or rectangular-section sockets, sometimes decoration.
	LBA (Ewart Park phase)	-	Socketed mortising	Short, slender socket with a thick, flat, slender leaf-shaped blade, narrowing to a rough point.
	LBA	Elaborated with stop	Tanged and collared (Fig.E.12)	Thinned, triangular chisel blade, below a thick projecting oval or circular collar separating the blade from the tang; tang is typically square or rectangular-section and tapers to a flattened, rounded end.
Flesh- hook	LBA (Ewart Park phase)	Flesh- hook	Class 3	Two or three pronged; various shaft- prong unions, either with bobbin or U-form; elegant butt ferrule.
	M-LBA	Tanged	Tanged	Slender double-edged blades with a projecting tang, without a perforation
	M-LBA	Tanged	Tanged and riveted	Slender double-edged blades with a projecting tang and one or two holes in the tang for rivets.
ves	phase)	Socketed	Socketed (Thorndon)	Leaf-shaped, double-edged blade; oval socket with concave sides; rivet hole typically through the faces of the socket, rather than the sides.
Kn	wart Park	Hog-back	Hog-back	Trapezoidal, sub-rectangular or triangular typically with a single cutting edge; perforated towards the upper edge.
	LBA (Ev	-	Triangular perforated	Triangular shape with a triangular perforation at the centre or towards one point; typically thicker at the centre tapering to thinner edges.

EBA = Early Bronze Age; MBA = Middle Bronze Age; LBA = Late Bronze Age; EIA = Earliest Iron Age

Sickles	M-LBA (Taunton	Knobbed	Knobbed	Occasionally ridged blade; single or double protruding knob(s) present on the hafting end.
	onwards)		Double- knob (Fig.E.14)	Two knobs arranged linearly at the haft.
	LBA	Tanged	Tanged and riveted	Projecting tang, sometimes separated from the blade by a rib; sometimes dorsal ridge; notches or rivet holes in the tang.
			Class I	Plain mouth; narrow blade.
			Class IIa	Deep collar; narrow blade.
nges	LBA (Wilburton-	səbr	Class IIb	Ribs or incised lines around the mouth.
eted Go	Éwart Park)	eted gou	Class III	Small squat form; wide, splayed cutting edge; with or without mouth mouldings; never ribbed.
Socke	EIA (Llyn Fawr)	Sock	Thorney Down (Fig.E.15)	Slender, tapering to a very narrow cutting edge; shallow groove; unfinished; circular or oval back-to- front socket.
Socketed	M-LBA (Taunton phase onwards)	-	Type 1	Offset faceted face; heavy head; square or round cross-section.
hammers			Type 1a (Fig.E.16)	Offset faceted face; long, narrow head; rectangular cross-section.
	M-LBA (Penard phase onwards)	Sheet/cast bronze vessels	Cauldron Class A	Constructed of three sheets riveted together with flat (rather than projecting) rivets; inturned, narrow and plain rim.
			Class A0	Proto-form of cauldron.
S			Class A1	Generally large and globular outline; handles show three-ribbed half-tube; three neck corrugations.
auldron			Class A2	Smaller, more conoidal outline; three-ribbed tube with side flanges; two neck corrugations.
Vessels/C	LBA-EIA (mainly Llyn Fawr)		Cauldron Class B	Constructed from minimum of five sheets riveted together with flat rivets; everted, wider and decorated rim.
			Class B1	Constructed from up to eleven sheets; conical rivets; nearly all constructed of five tiers.
			Class B2	Constructed of fewer sheets in fewer tiers; dome-headed rivets; concentric ribs around the rim; handle attachments fixed by pegs, rather than cast on.


Fig.E.11: A single-pointed awl from Kingsdon II, Somerset (PAS-223) (source: image courtesy of the PAS/Trustees of the British Museum)

E.4.3 Bugle-shaped objects

Bugle-shaped objects have a tubular or flat shaft with a broad loop set below (O'Connor 1980, 194-195). The tubular form has a large slot in the tube and typically this might 'bulge' towards the centre before narrowing to unexpanded or trumpet-shaped terminals. They broadly date to the Late Bronze Age, but have their main currency in the Ewart Park phase. The exact function of these objects is unclear, but they are generally considered to have been some form of strap fitting, an idea that may be supported by the 'buckle' from St. Michael's Mount, which incorporates a flat bugle-shaped object (see Section E.6.10b).

E.4.4 Chisels

Chisels are characterised by a flattened, often expanded, blade at one end and a variety of hafting forms at the opposite end. The earliest forms comprise a square-section bar tapering to a flattened blade (e.g. the example from the Plymstock hoard), while the latest forms develop slender tapering tangs and wide, curved blade, separated by a thick projecting oval or circular stop, referred to as a 'collar' (e.g. at Gussage St. Michael 2). They may also be socketed.

In 1983, twelve examples of chisels were known across the South West (Pearce 1983). This has since nearly tripled to 35 examples. Pearce (1983, 42-43) presented four forms of bar and tanged chisels (Fig.E.12), plus a socketed type. Rowlands (1976, 44-45), meanwhile, presented four types including a socketed form. Both typologies contain the 'lugged' or 'trunnion' type identified by Butler (1963, 124-126), which does not appear in the South West. Additionally, Rowlands (1976, 44-45) presented 'flanged' chisels, which are a common Middle Bronze Age form, but which have yet to occur in a south-western context. Furthermore, the typology presented by Pearce was not then applied to her dataset. Consequently, neither typology has been adopted here, and chisels have been classified on a descriptive basis, according to their hafting form. Of particular note, is a rare chisel form that has been identified at Gussage St. Michael 2, where two non-refitting fragments of a possible socketed mortising chisel have been discovered. Table E.5 offers a basic description and indicates the rough chronology.





E.4.5 Flesh-hooks

Flesh-hooks are hook-pronged implements that are presumed to have been associated with feasting activities (Needham and Bowman 2005). The most recent British flesh-hooks were initially classified by Jockenhövel (1974 in Needham and Bowman 2005), which was updated by Needham and Bowman (2005), who classified flesh-hooks according to key features such as the number and nature of the prongs and the form of the butt. Flesh-hooks predominantly date to the Late Bronze Age, but have their origins in the Penard phase of the Middle Bronze Age. Only one flesh-hook is known from the South West, from the Lulworth hoard, Dorset (DCM-F025r). This example falls within Needham and Bowman's Class 3: Elaborate socketed flesh-hooks – double or triple prong.

E.4.6 Knives

Bronze Age knives occur in a variety of forms from the Early Bronze Age onwards, though the earliest forms tend to be classified as 'knife-daggers'. A comprehensive typology for this object type has not yet been established (though see Hodges 1956, 38-39). Hodges (1956, 38) presented four types of socketed knives, though of these only the Thorndon type is known in the South West. Other types relevant to Britain, northern France and the Low Countries have been presented for the later Bronze Age by O'Connor (1980), though many types are not relevant to south-western England. Consequently, knives have been divided largely according to Pearce (1983, 44) following overall form and hafting technique (see Table E.5), though with additions based on recent discoveries.

E.4.7 Razors (Table E.6)

Razors are single- or double-edged blade implements that occur from about 2000 BC onwards and continue in use to a varying degree into the Iron Age. The style and form of razors thus changes quite significantly and the study of British razors has been undertaken and reassessed repeatedly, especially by comparison with the other tools listed here. Thus, a separate table bringing together various typologies has been created (Table E.6).

The initial classification scheme proposed by Piggott (1946) for Late Bronze Age razors, and subsequently updated by Butler and Smith (1956), was appropriated by Pearce (1983, 44-46) for studying the south-western material. However, razors across western Europe were reclassified by Jockenhövel (1980); this is the scheme that is largely followed here. Most recently Needham (2015b) has reclassified some of what Jockenhövel considered razors, as part of his Series 7 daggers. Due to the absolute chronology attributed to Needham's (2015b) scheme (see Table E.8), any razors/knives that falls within the Series 7 group are not classed using Jockenhövel's typology. This, however, does highlight the problematic terminology surrounding what might be defined as a razor, knife or dagger.

Jockenhövel's typology is a combination of descriptive classes, emphasising specific combinations of features and named types. To avoid lengthy attributions, Jockenhövel's descriptive classes have been simplified or abbreviated here (Table E.6). Razors dating from the Early to Late Bronze Age in South West England are all double-edged and often possess a leaf or oval shaped blade with a projecting tang (Fig.E.13). Single-edge razors develop in the transitional Hallstatt period (c.800-700 BC), coinciding with the Llyn Fawr phase in Britain. Relatively few razors are known from the South West, though the number is steadily increasing; only those classes relevant to the South West are presented here.





E.4.8 Saws

Saws are long, rectangular, thin pieces of bronze, with one serrated long edge and often perforated at one end. Only one example has so far been recovered from South West England, at Lanherne house, Cornwall (Pearce 1983, 94a). This dates to the Taunton-Penard phase.

E.4.9 Sickles

Sickles are single-edged tools with a curved blade, tapering to a typically rounded tip, with three main variations at the hafting end. Consequently, sickles can be broadly divided into:

- Tanged and riveted;
- Knobbed; and
- Socketed.

Some sickle blades may be rib along the centre of the blade, or may possess a prominent dorsal ridge along the outer edge. Socketed sickles have yet to be found in the South West, but several tanged and knobbed examples are known,

 Table E.6. A summary of the razor typologies reconciling those presented by Piggott (1946), Butler and Smith (1956) and Pearce (1983) with Jockenhövel's (1980) classification and presenting an abbreviated typology used in this thesis.

Date	Piggott/Butler & Smith/ Pearce	Jockenhövel	Thesis Typology	Key Features
	Class 1a/b	Double-edged with wide, perforated tang	Tanged, perforated	Oval-blade; integrated perforated tang.
Early Bronze Age (MA V-MA VI 1850-1500 BC)	Class 1a/b	Double-edged with long oval/leaf-shaped blade and tang > Variant I undecorated > Variant II decorated	Tanged > Variant I > Variant II	Slender oval/leaf-shaped blade tapering in to a slender tang > Variant I: undecorated > Variant II: with a cast midrib or incised decoration
Middle Bronze Age (Taunton 1400-1275 BC)	Class 2 (bifid)	Double-edged, tanged with V-notch in upper blade	Tanged, bifid	Broad blade with curved edges that taper in to a slender projecting tang; V-shaped notch at the top of the blade creating a bifid appearance
Middle-Late Bronze Age (Taunton onwards)	Class 2 (bifid)	Other double-edged, tanged, with V- or U- shaped notch	Other bifid	Tanged; curved double-edged notched blade; for those British razors that do not fit within a specific type
Late Bronze Age (Wilburton 1120- 900 BC)	Class 2	Type Boutigny/Isleham	Type Boutigny/Isleham	Broad double-edged notched blade; onset tang extending onto the lower blade.
Late Bronze Age (Wilburton-Ewart Park 1120-800 BC)	Class 2	Type Feltwell	Type Feltwell (Fig.E.13)	'Maple-leaf-shaped' blade; tanged; with or without cast midribs; V-shaped notch and circular cut-out just below notch.
Late Bronze Age- Earliest Iron Age (Ewart Park-Llyn Fawr (800-600 BC)	Class 3	Type Havré	Type Havré	Double-edged, oval blade, circular or triangular cut-out at centre; narrow tang with large perforated terminal.
Earliest Iron Age (Llyn Fawr)	Class 3	Type Feldkirch	Type Feldkirch	Single-edged, trapezoidal blade; thickened upper blade; two projecting loops; inset perforations below the thickened upper edge (often rectangles and/or circles)

with a particular concentration in Somerset (Fox 1941; Pearce 1983, 45; Smith 1959a). There are three variations of knobbed sickles based on the form of the knob (round knob; elaborated knob; and double-knob (Fig.E.14)) as identified by Fox (1941), though only elaborated knob and double-knob sickles are known from the region.



Fig.E.14: A double-knobbed sickle from Sparkford (TTNCM-F051b) (source: Author courtesy of South West Heritage Trust (Museums Service)

E.4.10 Socketed Gouges

Socketed gouges are small tools with a circular or oval socket, usually flattopped, with a range of collar styles. The body is typically narrow and usually expands to a curved blade with a distinctive groove that begins at the mid-body and widens to the cutting edge. These occur from the Wilburton phase onwards, but there has been little consideration of the typology of such objects. Coombs (1971, 251ff.; 2001, 288) presented a four-category typology based on the shape and style of socketed gouges in south-east England (see Table E.5). Chronologically it is difficult to distinguish the occurrence of different types of gouges, meaning this classification has been used here predominantly to identify stylistic distribution patterns.

However, a specific type of socketed gouge should be noted in addition to Coombs' typology. A small, slender form of socketed gouge exists with a distribution almost totally confined to Dorset, occurring in both hoards and as single finds (Fig.E.15). These gouges most commonly possess an oval 'back-tofront' socket (though this may also be circular), with a narrow, plain collar, and a body that tapers towards a narrow, rounded cutting edge, with a shallow groove on one face that often extends along the length of the object. These gouges are usually unfinished and unused, sometimes with the clay core still *in situ*, and bearing prominent casting seams extending along the sides and around the cutting edge, and the remains of sprue stumps still present on the socket. They also have a silvery surface, similar to Blandford and Portland axes. This type of gouge was noted by Boughton (2015, 182ff.), but not named. Here this type shall be classed as 'Thorney Down' due to the occurrence of five of this type in the hoard. Due to its associations with Earliest Iron Age axes, it can be accurately placed in the Llyn Fawr period.



Fig.E.15: A Thorney Down type socketed gouge from Thorney Down III (DCM-F037h) (source: Author courtesy of Dorset County Museum)

E.4.11 Socketed Hammers

Socketed hammers are those objects which are socketed and possess a broad, blunt end capable of being utilised as a hammer or punch. Until recently, only two socketed hammers were known from South West England, of which one lacked a definite context other than having been purchased in Bristol (Pearce 1983, No.837). Discoveries through the PAS have increased this number in recent years to six known examples. Fregni (2014. 81ff.) has recently conducted a comprehensive study of socketed hammers across Britain. She developed a typology based on the form of the hammer faces, building on Coombs' (1971, 275-276) initial division of types. Socketed hammers date from the Middle Bronze Age (Taunton phase) onwards, but are most common in the Late Bronze Age. The south-western examples generally fall within Fregni's Type 1 and 1a classes (Fig.E.16); consequently, her rarer classes (Types 2-5) have not been presented here.



Fig.E.16: A Type 1 socketed hammer from Whitelackington, Somerset (PAS-267b) (source: image courtesy of the PAS/Trustees of the British Museum)

E.4.12 Vessels/Cauldrons

Bronze Age and Iron Age copper alloy sheet vessels have been recently assessed by Gerloff (2010), encompassing a broad development of cauldron and bucket classes, based upon "the overall shape and size of the vessels, the form of the neck, the type of rim reinforcement, style of riveting and the number of sheets used in the vessel's construction" (ibid. 332). No complete vessel has yet been recovered from South West England, though they occur as fragments at numerous sites (e.g. Mount Batten, Devon, and Cadbury Castle, Somerset). At Chard, Somerset, two ring and staples from a cauldron were recovered, though otherwise ring handles are absent from the region. Gerloff (2010) showed that cauldrons likely have their origins in the Penard phase of the Middle Bronze Age and continued in use throughout the Late Bronze Age and Iron Age. Building on previous typologies, cauldrons have been divided into a series of classes and sub-divided within those. Only those types present in the South West are described here.

E.5 Weapons and Martial Equipment

This section presents copper alloy objects that might be considered 'weapons' or associated with warrior equipment in South West England. Typologies for swords and rapiers are well-established, whilst daggers and spearheads have recently been re-evaluated and thus require a fuller discussion.

E.5.1 Arrowheads

Arrowheads produced in copper alloy occur infrequently, but four are now known from South West England (Fig.E.17). The earliest forms mimic the stone varieties and thus barbed and tanged bronze arrowheads emerge, followed by socketed varieties in the later Bronze Age. Exact dating for these objects is uncertain within the South West as none have so far been found in associations.



Fig.E.17: A copper alloy barbed and tanged arrowhead from Frampton II, Dorset (PAS-F118) (source: image courtesy of the PAS/Trustees of the British Museum)

E.5.2 Daggers (Table E.7)

The dominant typology of Early Bronze Age daggers has traditionally been Gerloff's (1975) scheme, based on the material from Wessex. This was adopted by Pearce (1983) and still holds currency in much of the literature. However, an alternative, broader typo-chronological scheme has recently been proposed by Needham (2015b) drawing on radiocarbon dates and he has consequently proposed seven Series for defining daggers. Here, Gerloff's typology has been used to define daggers for consistency with previous corpora; however, Needham's classification system has also been applied as a secondary categorisation as it allows a firmer method for dating many artefacts and is likely to eventually supersede Gerloff's classification. It is Needham's chronology that is presented here alongside Gerloff's typology, though only in broad chronological order due to the considerable overlap in types. Table E.8 offers the more precise chronological spans as described by Needham (2015b). There are inevitably some problems in aligning Gerloff's and Needham's schemes, but much of this is accounted for in the discussion by Needham (2015b). It should also be noted that Jones and Quinnell (2013) recently conducted a series of radiocarbon dating of cremated bones associated with four daggers in barrows

from Devon and Cornwall. The dates acquired from Huntshaw 2, Devon (RAMM-F025; Fig.E.18) suggest that the Camerton-Snowshill series (Series 5D) may have dated earlier than previously anticipated, overlapping with the Armorico-British A series. This is contrary to the chronology presented by Needham (2015b) and thus it should be considered that these chronologies are still open to refinement.



Fig.E.18: The Camerton-Snowshill/Series 5D dagger from Huntshaw 2, Devon (RAMM-F025) (source: Author courtesy of RAMM, Exeter)

A key amendment in Needham's classification is the refined definitions for Gerloff's (1975) 'knife-daggers'. Needham (2015b) highlights issues with the term 'knife-dagger', which has also applied to objects otherwise termed knives, razors and razor-knives (e.g. Jockenhövel 1980) and instead uses the term 'small-bladed implements', defined by their size (under 110mm). Needham's (2015b) types and sub-types depend on variables of rivets, blade shapes, blade sections and the presence of a midrib, making it overall difficult to reconcile Gerloff's rather broader categories; where possible this has been presented.

Overall, both Gerloff and Needham present numerous sub-types for different daggers, which rely on variations of different features; these are only described where appropriate to the south-western material, and Table E.7 should not be taken as comprehensive of the range of material across Britain.

Table E.7: A summary of Needham's (2015b) typology for daggers, reconciled with Gerloff's(1975) typology.

Phase	Gerloff/Pearce	Needham	Key Features
MA I-III	Tanged copper daggers	Series 1: tanged daggers/knives	Flat blade; always copper; flat tang; occasional rivet-hole/notch; variations defined by Needham according to hilt securing mechanism and tang shape.
	Flat riveted daggers	Series 2: Butt- riveted flat daggers	
II-MA III	Type Butterwick	2A Butterwick	Broad, flat blade; rounded riveted butt; linguate outline; bevelled cutting edges; three rivets set in line with the heel of the blade; generally c.120mm long.
MA	Variant Garrowby	2B Garrowby	As above, but broader and stouter.
Late M	Type Milston, Variant East Kennet	2C Milston	Long, broad, tongue-shaped blade; often numerous rivets in line with the heel; three rivet holes and any further were set into notches; slightly peaked butt; omega-shaped hilt marks; blade generally 14-17 cm long.
Late MA III- MA V	Armorico-British A (Type Winterbourne Stoke)	Series 3: Thin lenticular-section daggers 3A Winterbourne Stoke 3B Raund	Triangular blade; no midrib; straight heel; six rivets; blade lined by two or three grooves; flat section; omega- shaped hilt mark.
AA V	-	Series 4: Ribbed flat-bladed daggers	
MA IV-M	Armorico-British B (Type Cressingham)	4A Towthorpe	Triangular blade; prominent, well- defined, slightly rounded or angular midrib; omega-shaped hilt; straight heel; six slender peg rivets; blades mostly lined by three grooves; flat section.
Late MA III-MA V	Group Ridgeway	4B Mauldslie	Flat blade; clearly defined midrib; no grooves; variously shaped heels; two or three rivet holes.
Late MA III-MA V	Type Sproughton	4D Blackwaterfoot	Flat blade; three spaced ribs converging towards the tip; rounded heels; omega-shaped hilt mark.
MA VI	_	Series 5: Thick- bladed daggers	

			flanked by a shallow groove or a low,
	Group Plystock- Totland	5A Totland 5B1 Plymstock	well-defined midrib flanked on each side by a broad hollow. Needham's types are distinguished by the thickness of the mid-blade and the presence of blade furrows.
	Armorico-British C (Variant Winterborne Came)	5C2 Bourbriac	Ogival outline; straight or slightly rounded heel; six rivet holes; omega- shaped hilt mark; three or four parallel grooves along the blade edges; biconvex section.
	Type Snowshill	5D Camerton- Snowshill (Fig.E.17)	Rounded butt; three rivet holes; convex section; grooves extend along length of the blade; sometimes pointillé-decorated midrib.
	Type Camerton	5D Camerton- Snowshill	Trapezoidal to flat-curved butt; two rivet holes and central rivet notch; grooves extend over 4/5 of the blade length; biconvex section; sometimes pointillé-decorated midrib; typically not as broad as Type Snowshill.
	Type Hammersmith	5E1 Hammersmith	Thickened midrib; rounded butts; small rivet holes; omega-shaped hilt marks; occasionally grooves along the blade; rib and/or step-mouldings.
	Knife-dagger	Series 1, 6 and 7	Bladed implements under about 100- 110mm.
AA III-MA VI	Flat-riveted knife- dagger	1B and C (riveted knife sized tanged flat blade) and varieties of Series 6 and 7	Triangular outline; flat blades; two/three rivet holes; straight or slightly curved hilt mark.
	Knife-dagger with midrib	Varieties of Series 6 and 7	Like flat-riveted daggers but with well-defined midrib.
м	-	Series 6: Tanged small blade implements	
MA III-MA	-	6A	Broad tang; almost always a single rivet; various blade sections; sub- types distinguished by tang/blade junction
	-	6B	Narrow tang; no rivet; various blade sections; sub-types based on blade shape.
5		Series 7: Butt- riveted, small blade implements	Small blade; riveted butt; Shallow, broad hilt plate; often straight hilt mark, though sometimes omega- shaped.
IV-MA	Flat-riveted knife- dagger	7A	Flat or thin blade section.
MA	Knife-dagger with midrib	7B	Midribbed blade of varied width and profile; flanking flat or furrowed wings.
		7C	Lenticular or lozengic blade section.

Needham's Type	Broad period/phase	Dating
Series 1: Early group	MAI/II (Early Chalcolithic)	c 2450/2400-2300 cal BC
1A1-3		0.2430/2400 2300 car BO
Series 1: Later group	MAI/II (Later Chalcolithic)	c 2300-2200/2150 cal BC
1A4-6; 1B1-6; 1C1-3; 1C6		0.2300-2200/2150 Cal BC
Series 1: Transitional types	MA II-III (Chalcolithic/Early	c 2200-2100 cal BC
1C4-5.	Bronze Age)	0.2200 2100 car bo
Series 2: 2C; 2F1	MA II-III	2200-2050 BC
Series 2: 2D; 2E; 2F2	MAIII	2150-1950 BC
Series 2: 2A; 2B; 2F3	MAIII	2100-1900 BC
Series 3: 3A	Late MA III-MA V Willerby	c.2100-1725 BC
Series 3: 3B	MA IV Aylesford-MA V Willerby	1950-1725 BC
Series 4: 4A	MA IV Aylesford-MA V Willerby	1950-1725 BC
Series 4: 4B-D	Late MA III-MA V Willerby	c.2100-1725 BC
Series 5: 5A-D	MA VI Arreton	c.1725-1500 BC
Series 5: 5E1-3	MA VI Arreton	c.1650-1500 BC
Series 6	MA III-MA VI Arreton	c.2150-1500 BC
Series 7	MA IV Aylesford-MA VI Arreton	1950-1500 BC

Table E.8: A table outlining the key dates for Needham's (2015) dagger Series.

E.5.3 Dirks and Rapiers (Table E.9)

Dirks and rapiers have been grouped together here following Burgess and Gerloff (1981). Both have slender blades, either ogival, parallel-side or tapering, with a flat butt or hilt-plate and either notches or rivet holes (ibid. 4). Distinguishing between these two object types is thus difficult, and the principle distinction has been the length of the blade (e.g. at 30cm long a blade is classified as a rapier, rather than a dirk) (ibid. 4-5). There have been no major amendments of these definitions and the typology devised by Burgess and Gerloff (1981) separating rapiers and dirks into four major *Groups* has largely been accepted into the broader nomenclature. Key types are presented, but variants of these types have not been described due to difficulties in accurately applying the slight distinctions highlighted by Burgess and Gerloff.

Table E.9: A summary of Burgess and Gerloff's (1981) typology for dirks and rapiers, reconciled with Pearce's (1983) typology.

Phase	Pearce	Burgess/ Gerloff	Key Features
Arreton- Acton Park	Early	Group I	Rounded midrib, bordered by grooves, ribs and/or channels; trapezoidal, or near-trapezoidal, butt; usually two rivet holes; generally between 20-30cm long; variants based on blade section and presence/absence of grooves, ribs and channels.
aunton		Group II (Fig.E.19(1))	Flattened lozenge cross-section; plain or bevelled edges; generally plain blades; trapezoidal butts with two rivet holes; generally 200-400mm long; variants based on proportions of the butt and blade.
ton-T	section	Type Taplow	As above, but four rivets set into a low rounded butt; two rivets in rivet holes and two in side notches.
Arret		Type Littleport	As Gr,II, but angular trapezoidal butt with slightly concave sides and prominent out-turned (horned) shoulders.
nton-Penard	Triple arris	Group III (Fig.E.19(2))	Triple arris blade (i.e. median ridge flanked by two further ridges); ridged or fluted cross-section; trapezoidal butts; two rivet holes; generally over 300mm long.
		Type Surbiton	As above, but trapezoidal to squareish butt with four rivets; two in two rivet holes and two in side notches; generally 400-500mm long.
Tau		Type Wandsworth	As Gr.III, with pronounced angular butts and sharply defined shoulders; generally 400-500mm long.
		Type Lissane	As Gr.III, with low, wide butt; generally fluted blades.
End of Taunton- Penard		Group IV (Fig.E.19(3))	Flattened or slightly rounded blade-section; riveted or notched butts; either large trapezoidal butts reminiscent of Gr.III (archaic butts), or small butt with rivet holes set between corner and shoulder; broad ogival or long slender blades;
	Flat rib	Type Appleby	As above, but smaller butts; generally 300-400mm long; riveted; variants according to butt shape.
		Type Stuntney	As Gr.IV, with well-formed trapezoidal butts with semi-circular rivet notches in the side of the butt.
		Type Cutts	As Gr.IV, with "constricted butts" (i.e. deeply indented side-notches; sloping prominent shoulders; leaf-shaped blade; typically Irish.



Fig.E.19: Rapiers from South West England. **1.** A Gr.II rapier from Avonmouth Docks, Bristol (BCMAG-F001); **2.** A Gr.III rapier from the Crediton hoard, Devon (ASH-F004c); **3.** A Gr.IV rapier from the Crediton hoard (ASH-F004d) (source: Author courtesy of Bristol City Museum and Art Gallery and Ashmolean Museum)

E.5.4 Swords (Table E.10)

The typology of swords for Great Britain was comprehensively studied by Colquhoun and Burgess (1988) in their PBF volume (Fig.E.20). Whilst the volume of material has increased since the late 1980's, there has only been limited reassessment (e.g. Burgess 2012b; Brandherm and Moskal-del Hoyo 2014) largely to bring the British sequence in line with the one for Atlantic Europe. Most variants defined by Colquhoun and Burgess (largely for Wilburton and Ewart Park type swords) have not been presented here, as few variations are identifiable in the study region, but it is important to note that the form of hilt may help determine a more refined typology of sword types. Only those sword types found in South West England are presented here.

E.5.5 Chapes

Chapes are objects that were attached to the end of a scabbard for swords and/or daggers. They are produced in copper alloy and come in two key forms: tongue-shaped and bag-shaped. Tongue-shaped chapes date throughout the Late Bronze Age (1100-800 BC), while bag-shaped chapes date solely to the Ewart Park/Carp's Tongue phase (c.900-800 BC).

Tongue-shaped chapes are slender hollow objects, often lozengesectioned, with a wide concave mouth than tapers to a narrow oblong butt (Fig.E.21(1)). A variety of decoration occurs, but cast longitudinal ribs typically adorn the faces.

Bag-shaped chapes are much smaller and possess a convex base and a concave mouth, defined by a rib (Fig.E.21(2)); the faces may be perforated and decorated with incised adornment (O'Connor 1980, 190-191).

E.5.6 Shields

Only one shield is known from South West England: the Milsoms Corner shield, Somerset (TTNCM-F031). This is a Yetholm-type shield and can be broadly dated to the Penard phase of the Middle Bronze Age, but may extend into the early Wilburton phase of the Late Bronze Age (Uckelmann 2012, 49). Yetholm shields are relatively large, ribbed and bossed shields.

Table E.10. A summary of Colquhoun and Burgess' (1988) typology for swords, reconciled with Pearce's (1983) typology.

Phase	Pearce's Typology	Colquhoun and Burgess' Typology	Key Features
	Rixheim – rod- tanged	Rod-tanged	Long rod projecting from hilt; variations in blade shape, section and length.
ard	Ballintober	Ballintober	Leaf-shaped blade; flattened lozenge- section; rectangular hilt; rivet holes; blunted ricasso.
Pen	Chelsea	Variant Chelsea	As above, but with flat/gentled rounded mid-section and bevelled edges.
	Early native flanged-hilted	Teddington	Wide, heavy, straight-sided blade; straight, widely-splayed shoulders; deeply curved ricasso; hilt slot and shoulder rivet holes.
Penard- Wilburto n	-	Limehouse (Fig.E.20(1))	Long, leaf-shaped blade; widely splayed, convex (U-shaped) shoulders; lozenge- section; high flanges on hilt; rivet holes or slot; rarely blade grooves.
Wilburto n	Wilburton (and Wilburton/Saint Nazaire)	Wilburton (and variants) (Fig.E.20(2))	Slender leaf-shaped blade; wide-splayed shoulders; flattened lozenge-section; short curved ricasso notches; simple flared hilt terminal; large rivet holes and slots; variants dependent on form of hilt.
Ewart Park	Ewart Park	Ewart Park (and variants) (Fig.E.20(3))	Leaf-shaped blade; gentled rounded mid- section; generally rivet holes; steeply- pitched, usually straight shoulders; short, straights ricasso notches; fan-shaped hilt terminals; variants dependent on form of hilt.
	Carp's Tongue Carp's Tongue		Straight, parallel-sided blade narrowing sharping to a 'carp's tongue' point; wide T- shape hilt terminal; wide hilt tang; short straight shoulders; short vertical ricasso; rounded midrib defined by single grooves following the outline of the blade from just above the tip; slotted or riveted tang; riveted shoulders.
Ewart Park- Llyn Fawr	Gündlingen	Gündlingen	Long narrow leaf-shaped blade; broad, rounded mid-section, separated by a groove or channel from the bevelled edge; short, wide-splayed shoulder; ricasso notches; tip is usually blunt; rectangular pommel piece of terminal.



Fig.E.20: Swords from South West England. **1.** A Limehouse sword from Harlyn Bay, Cornwall (BM-F002); **2.** A Wilburton sword from West Cornwall (ASH-F004) **3.** A Ewart Park sword from Cranborne I, Dorset (BM-F016) (source: Author courtesy of Ashmolean Museum and British Museum)



E.5.7 Spearheads (Table E.11)

Pearce's (1983) typology for spearheads was broadly descriptive of different and built on previously typologies by Greenwell and Brewis (1909) and Ehrenberg (1977). However, large numbers of spearheads were grouped under single classifications (e.g. 'side-looped' or 'late pegged'), without consideration of the subtleties of different forms. This has been comprehensively addressed by Richard Davis (2012; 2015; Fig.E.22A, B) who has recently published a complete typology of British Bronze Age spearheads, comprising 18 Groups with numerous sub-groups. Davis (2012; 2015) divides spearheads according to various elements in the form of the spearheads, such as the shape of the blade (e.g. flame-shaped; leaf-shaped etc.), the form of the loop plates, the depth of the socket aperture, and the profile of the midrib. This typology aligns with the current chronological scheme, though is still being incorporated into the broader literature. Consequently, Davis' typological scheme has been applied here, alongside Pearce's original typology. Only those spear types found in South West England are presented here, with the main group and then the relevant sub-type indicated and described. The groups have been ordered chronologically. It should be noted that due to the specificity of some of the divisions, only one or two examples of some types are known from the South West.

Phase	Pearce	Davis	Key Features
Arreton	Tanged	<i>Gr.1 Tanged</i> 1A Lozenge midrib 1B Curved midrib	Triangular-shaped blade; long tang with rivet hole at the end; various decoration.
	End-looped	Gr.2 Early socketed 2B Looped	Lozenge-shaped midrib; short shaft aperture that extends to the base of the blade; loops set next to socket base or below middle of the socket.
ark	Side- looped/Socket- looped	<i>Gr.3 Ribbed kite blade</i> 3B Flat blade	Kite-shaped blade with ribbed wings; side- loops; socket aperture extends about halfway up the midrib.
Acton Pai	Side-looped	Gr.5 Wide blade	Wide blade with a smooth curve from the blade-socket junction to the tip; flattened lozenge side-loops; short midrib about halfway up the blade; various midrib forms (e.g. circular, lozenge).
Taunton	Basal-looped	Gr.8 Incorporated basal-looped 8A Flame 8C Leaf	Loops sets into the base of the blade; predominantly lozenge midrib, but sometimes circular; variations in blade shape, presence of blade ribs, and decoration.
Taunton-Penard	Side-looped	Gr.6 Developed side-looped 6A Flame, bevelled 6B Flame, flat blade, lozenge plates 6C Flame, flat blade, narrow plates 6D Ogival 6E Leaf	Side-loops halfway up the socket; huge variability in all other attributes, including blade shape, loop form, midrib shape and length, blade ribs, and length of socket.
	Side-looped	<i>Gr.7 Special side- looped</i> 7B Loops below blade 7D Large	Side-loops; variety in loop positions and configurations; generally longer than Gr.6 spearheads; variations in blade form, including those that appear to mimic contemporary rapier blades.
Penar d	Basal-looped	Gr.9 Projecting basal-looped 9A Flame	Loops set at base of blade, but projecting below the blade wings; variations in blade

Table E.11. A summary of Davis' (2012; 2015) typology for Bronze Age spearheads
reconciled with Pearce's (1983) typology.

		9B Triangular	shape, presence of blade ribs, midribshape, and decoration.9A considered to be transitional typebetween Group 8 and Groups 9B and 9C.
	Lunate- opening	Gr.10 Protected- looped	Loops set in the lower blade, adjacent to the midrib and distanced from the blade base; loops typically protected by a vertical flange; midrib circular; flame or leaf-shaped blade; typically heavy with thick blades and thick-walled sockets.
Penard-Llyn Fawr	Late pegged	Gr.11 Generic 11A Flame- shaped blade 11B Wide blade base 11C Leaf-shaped blade 11F Barrel-shaped socket 11G Bullet tip	Generally "elliptical" blade; pegholes in socket; variations according to blade shape, size and socket shape. Huge number of this type across Britain, with a long chronological span. 11F: Defined by a socket line which expands from the midrib as usual, but turns inwards or becomes parallel at the socket base, creating a 'barrel' shape. 11G: Defined by the blade turning inwards just before the tip to create a 'bullet' shape.
Wilburto n	Late pegged	<i>Gr.12 Hollow blade</i> 12A Flame- shaped blade	Hollow-bladed; no midrib; pegged socket; lozenge-section; typically flame-shaped blade.
Wilburto n-Ewart Park	Late pegged	Gr.13 Fillets	Fillets running along the blade alongside the midrib; pegged socket; variations in blade size, midrib form and decoration.
Blackmoor- Ewart Park	Barbed	<i>Gr.15 Barbed</i> 15A Long blade	Long, offset blade base forming projecting barbs; wide blade; low oval midrib and aperture; parallel-sided blade that curves inwards to the tip; thin blade walls; short pegged socket; single bronze peg often associated.
Wilburton-Ewart Park	Lunate- opening	<i>Gr.16 Blade Openings</i> 16B Lunate	Openings within the blade, typically half a circle, facing the midrib, termed a 'lunate', but can also include circles, slots and triangles; variations in presence of fillets, decoration, blade shape and openings. 16B: Filleted or plain blade; sometimes barbed. Typically dating to the Blackmoor phase.
		<i>Gr.18</i> <i>Miscellaneous</i> 18C Facetted Midrib 18D Continental	Miscellaneous spearhead types. Dating is uncertain. 18C: Facetted midrib. Rare form (only 7 known in Britain). 18D: Spearheads with a continental form and thus are probably imports.

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Fig.E.22A: Davis' (2012; 2015) spearhead Types 1-10 (source: Davis 2015, 20, Fig.5)

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Fig.E.22B: Davis' (2012; 2015) spearhead Types 11-17 (source: Davis 2015, 21, Fig.6)

E.6 Copper Alloy and Gold Ornaments (Table E.12)

A broad variety of objects are encompassed within the 'ornament' category. 'Ornament' is taken to include any object that could have served the purpose of adornment usually on an individual, but also possibly animals, structures or in other situations. Many object types and variants are represented by only one or two examples from the region and in some cases few examples exist across the country. These objects are thus either grouped under broader object types, or categorised under 'Miscellaneous' or 'Gold ornament' to avoid establishing too many categories with only one or two examples. The most comprehensive study of gold types across Britain and Ireland was published by Eogan (1994; though also see Taylor 1980), which is largely followed here. Meanwhile, copper alloy ornaments have yet to receive any overarching synthesis and thus object- or period-specific must be relied upon (e.g. Davies 2012).

E.6.1 Beads

Copper alloy and/or gold Bronze Age beads are rare and may come in a variety of forms. Here a bead is distinguished from a 'ring' if it is less than 15mm in diameter; this serves only as a subjective parameter and should not be taken as a functionalist assessment of these objects which may have been adornments, fittings, or served another purpose. Gold beads are known infrequently throughout the Bronze Age, while copper alloy beads are a feature of the Late Bronze Age to Earliest Iron Age. These may have a variety of forms and crosssections, though at present no precise terminology exists and so the different forms will be applied with descriptive terminology. Almost all copper alloy beads known from South West England come from the site at Gussage St. Michael (PRIV-F019; Fig.E.23), while gold beads are known from Beerhackett and Puddletown, both Dorset (Pearce 1983, Nos.337g and 439b). A single tin bead was recovered alongside shale, amber and ceramic beads in the Whitehorse Hill cist burial dating to the Early Bronze Age (Jones 2016).

Table E.12: A summary of the typologies applied to copper alloy/gold ornaments found in south-western England, reconciled with the typology applied by Pearce (1983) where appropriate. EBA = Early Bronze Age; MBA = Middle Bronze Age; LBA = Late Bronze Age; EIA = Earliest Iron Age

Object	Date	Pearce	Thesis Typology	Key Features
	E-MBA	Tubular	Tubular	Thin tube of sheet metal
Beads	M-LBA	Biconical	Biconical	Sheet bead with longitudinal ridge, creating biconical form (i.e. two opposing open cones back-to-back)
	LBA-EIA	-	Bead (E.23)	Small, complete rings; varying section forms; typically less than 15mm diameter.
		Bar twisted	Bar-twisted (Fig.E.25)	Penannular; solid bar; twisted; plain hooked terminals.
~	hase)	Ribbon twisted	Ribbon-twisted	Penannular; thin ribbon; loosely twisted; hooked terminals.
pper alloy	MBA (Taunton-Penard pf	Penannular bossed	Type Norton Fitzwarren (Needham 1989a)	Penannular; hollow punched bosses; ribbed decoration.
rings (cop		Ribbed	Type Ramsgate (Needham 1989a)	Penannular; multiple longitudinal ribs along the length of the exterior; plain inner surface.
lets/Arm		Miscellaneous	Type Liss (Needham 1989a)	Penannular or annular; various cross-sections; panelled geometric pattern.
ace		Miscellaneous	Other	Bracelets/armrings that do not fit within other classes
ä	M-LBA	Bar bracelets (D- section/ lozenge- section/ round- section); expanded terminal; plain wire	Davies' Classes 1A-6D (Fig.E.24)	Penannular; D-section, lozenge-section or round- section bronze bar or wire; variety of terminal forms.
' Armrings (gold)	M-LBA	Expanded solid terminal/ Armrings with coiled terminals	Davies' Classes 1A-6D	Penannular; variety of cross- section shapes; variety of terminal forms.
		Plain looped	Plain looped	Annular round-section wire folded over and bent into a roughly circular penannular form with looped terminals.
elets	p 🦳	-	Bar, triangular- section	Penannular; triangular cross- section.
Brace	MBA (Penarc phase)	-	Doubled-and- hooked bar/ribbon	Penannular bar or ribbon folded over to create one looped terminal; tapering hooked ends.
Buttons	M-LBA	Conical	Conical	Conical head; under-loop.
Buttons	LBA-EIA	-	Looped	Thin, flat head; under-loop.

iold ornaments	EBA (2500- 2000 BC)	-	Basket-shaped ornament	Flat oval plate curved longitudinally with tang/hook projecting from one side; often highly decorated with pointillé between embossed lines. Penannular: round-sectioned
G	LBA	Dress-fastener	Dress-fastener	bar; large hollow terminals.
Lunulae	A	Classical	Classical	Largest form; wide, thin sheet; small terminals; intricate motifs.
	EB	Provincial	Provincial (Fig.E.26)	Thick sheet; crescentic terminals with barbs; comparatively sparse adornment of lines and dots.
	EBA (MA VI	Bulb-headed	Bulb-headed	Straight shaft, tapering to a point; head is formed of a hollow 'bulb'.
	Arreton)	Ring-headed	Ring-headed	Straight shaft, tapering to a point; head is formed of multiple rings.
	MBA (Taunton- Penard)	Swollen shaft Side-looped	Picardy (and Picardy-related)	Slender; swollen shaft; often side-looped.
	MBA (Taunton)	Quoit-headed	Quoit-headed	Typically large circular ring heads; long thick shafts; lozenge or round section.
Pins		Double spiral- headed	Double spiral- headed	Straight shaft; split at head into two strips that are bent into downward spirals.
	MBA (Taunton)	-	Wheel-headed (Fig.E.27)	Circular ring head with ribs across the head forming a cross.
	LBA (Ewart Park)	-	Globular-headed	Straight or tapering shaft; solid roughly spherical or bulb-shaped head.
	LBA-EIA (c.800-500 cal. BC)	Swan's neck	Swan's neck	Recurved shaft; unexpanded head terminal.
	LBA-EIA	-	Nail-headed	Circular/round section head; flat or slightly convex or concave head.
y)	ISe	Ribbed finger	Ribbed finger	Cast ribbed bars, curved into
oper allo	nton pha: rds)	Coiled finger ring	Coiled finger ring	Round or rectangular section bar coiled twice or three times into a ring.
(Col	(Тац	Wire finger ring	Wire finger ring	Twisted or untwisted Wire bent into a ring
Rings (M-LBA	-	Annular	Small, complete rings; varying section forms and size.
gs (Gold)	MBA (Taunton phase)	-	Composite	Small, penannular; flat terminals; ribbed appearance; formed of stacked two or three smaller rings giving figure of 8 cross- section.
Ri	LBA	-	Penannular gold rings	Small, penannular; flat terminals.

			Class 1a (Fig.E.28B)	Plain solid gold bar.
			Class 2a	Plain gold-plated with copper alloy core.
			Class 3	Striped with silvery gold wire inlaid circumferentially into gold core.
			Class 3a (Fig.E.28A)	Broad stripes.
			Class 3b	Fine stripes.
	LBA	-	Lock ring (Fig.E.29)	Wires soldered together to form conical face plates curved around a central structural strip or tube.
l Gold)	MBA (Taunton-Penard)	Bar twisted	Bar twisted (Fig.E.29)	Produced in bronze and gold from a solid, usually square- sectioned, bar repeatedly heated and twisted and bent into a penannular form; typically plain hooked terminals.
lloy and		Ribbon/Ribbon- twisted	Ribbon-twisted	Thin ribbon of bronze/gold loosely twisted; plain hooked terminals.
(Copper al		Flanged	Flange-twisted	Produced only in gold; three or four-flanged bar of gold twisted and sometimes coiled.
Torcs		-	Doubled-and- hooked bar/ribbon	Penannular bar or ribbon folded over to create one looped terminal; tapering hooked ends.
		-	Bar, triangular- section	Penannular bar; untwisted or only loosely twisted; triangular cross-section.
aneous er alloy)	LBA (Ewart	-	Buckle	Incised decorated two piece buckle; roughly rectangular; triangular teeth; flattened bugle-shaped object incorporated.
Miscell (Coppe	Park phase)	Decorative plaque	Decorative plaque	Thin bronze plates with incised and cast ornamentation, often rectangular with circular or semi-circular cut-outs.
is (Gold)	EBA (MA VI Arreton)	"Wessex Culture" Cup	Сир	Cup with a ribbed/corrugated body and decorated with rows of pointillé; handle riveted to one side.
llaneou	EBA	"Wessex Culture" Lozenge Plate	Lozenge Plate	Lozenge gold plate with incised decoration.
Misce	MBA (Taunton phase)	"Wessex Culture" Sun Disc	Disc (Fig.E.31)	Gold sheet disc on a bronze backing; heavily decorated with repoussé.



Fig.E.23: A selection of beads from Gussage St Michael 2 Main Cluster (PRIV-F019) (source: Author courtesy of Martin Green)

E.6.2 Bracelets/Armrings

Bracelets or armrings are the most numerous ornament type in the Bronze Age. Determining at what point a bracelet might be considered an armring, or vice versa, seems to largely be a null point, with little criteria nor common nomenclature having been established in the literature (cf. Pearce 1983, 48-9). Davies (2012, 29) used modern definitions of armrings from internet retailers to establish a threshold diameter range for this object type of 54-76mm. However, the terminology serves only to distinguish the items in modern terms or from a subjective viewpoint; there is of course no reason why some items might not have adorned other parts of the body (e.g. legs) or that penannular rings of 60mm might not have functioned as bracelets or bangles. As such, the terms are taken alongside each other here and used according to the published material to maintain consistency. A distinction is made between gold and copper alloy bracelets.

Currently there is no comprehensive typology for Bronze Age bracelet or armring forms. Pearce (1983) presented a broadly descriptive typology of bracelets, while several authors have categorised individual types and variations for both Middle Bronze Age and Late Bronze Age bracelets (e.g. Butler 1963; Eogan 1994; Hook and Needham 1989; Needham 1989a, 35-37; O'Connor 1980, 80-89, 206f.; Rowlands 1971b). However, the most overarching typology has recently been established by Alex Davies (2012) in his unpublished Masters thesis (see Fig.E.24).

Davies' typology encompassed a broad range of Late Bronze Age and Early Iron Age bracelets based on their section shape and terminal form,

	Terminals						
Cross-			Rounded/Oval	'D' Shaped	Lozenge/Square	Flat/	'С'
Section						Rectangular	Shaped
		Type	А	В	С	D	E
Needham Eogan	Evenly Expanded		Class A	-	-	-	-
	Hollow (cupped)	1	Variety 11 and 12	-	-	-	-
			Type 1A	Type 1B	Type 1C	Type 1D	Type 1E
Needham	Evenly Expanded		-	-	Class E	Class B1	-
Eogan	Solid	2	Variety 6, 8 and 10	Variety 5 and 9	Variety 6	Variety 1	-
			Type 2A	Type 2B	Type 2C	Type 2D	Type 2E
Needham	Outwardly		-	Class D	-	-	Class C*
Eogan	Expanded	3	Variety 12	-	-	-	-
	Hollow (cupped)		Type 3A	Type 3B	Type 3C	Type 3D	Type 3E
Needham	Outwardly		-	-	-	-	Class C
Eogan	Expanded	4	Variety 7	Variety 9	-	-	Variety 3
	Solid		Type 4A	Type 4B	Type 4C	Type 4D	Type 4E
Needham	Unexpanded		-	-	-	-	-
Eogan		5	-	-	-	-	-
			Type 5A	Type 5B	Type 5C	Type 5D	Type 5E
Needham	Coiled		N/A	N/A	N/A	Class B2	N/A
Eogan		6				Variety 2	
						Туре бD	

Fig.E.24: Davies' (2012) Table 1, presenting the defining features of his typology for Late Bronze Age/Early Iron Age bracelets and how they correlate with the classes published by Hook and Needham (1989a) and Eogan (1994).

making it adaptable. It is applicable to both bronze and gold bracelets, though it only accounts for bar bracelets and has yet to be applied to a specific regional analysis. Nonetheless, it has been utilised here to group Late Bronze Age bar bracelet styles.

Middle Bronze Age bracelets are more diverse, incorporating a variety of decorative properties and possessing a wider variety of forms other than 'bar bracelet' (Fig.E.25). As such, Davies (2012) typological scheme has been applied to Middle Bronze Age plain bar bracelets, but the remainder have been classed according to Pearce's typology and any associated published literature (e.g. Needham's (1989a, 35-37) classification for ribbed and decorated bracelets). The huge variety of forms is particularly emphasised by the material from Priddy, Somerset, which includes bar bracelets of triangular cross-section, which do not feature in Davies' (2012) table. This type has thus been classed separately. Clearly, a typological scheme for Middle Bronze Age bracelets is required. Only those varieties of bracelet that have been found in South West England have been listed here.



Fig.E.25: A Middle Bronze Age bartwisted bracelet from the Taunton Union Workhouse hoard, Somerset (TTNCM-F053t) (source: Author courtesy of South West Heritage Trust (Museums Service).

E.6.3 Buttons

Buttons occur infrequently in south-western England with only five known so far. Four of the five may be defined as 'conical', defined by the cone shape of the head; this type often has a loop on the underside and may date as early as the Taunton phase of the Middle Bronze Age, though occurs in contexts in the Late Bronze Age (O'Connor 1980, 199). The fifth button known from the South West has a flat head and an underloop (PRIV-F030) – this type is simply referred to as a 'looped button' here and can be dated broadly to the Late Bronze Age-Early Iron Age transition.

E.6.4 Gold ornaments

E.6.4a Basket-shaped ornament

These objects are made of a flat oval plate curved longitudinally with a tang/hook projecting from the centre of one side. They are often highly decorated with rows of lightly punched dots (pointillé) between embossed lines (Murgia et al. 2014). The only example from South West England is from Stogursey, Somerset (PAS-F254; see Section 8.2.2).

E.6.4b Dress fastener

Dress fasteners are predominantly found in Ireland, though an example has been found near Landewednack, Cornwall (Pearce 1983, 413, No.79). These are penannular ornaments with a slender round-section bar and large terminals that are evenly expanded and hollowed (Eogan 1994, 88); these are sometimes referred to as 'trumpet' terminals.

E.6.5 Lunulae

Lunulae are flat, crescentic-shaped gold sheets that bear incised decorative motifs. Three well-established types are known: Classical, Unaccomplished and Provincial (Taylor 1980, 28-34; Eogan 1994, 30-33), which are followed here. Lunulae date to the Early Bronze Age and are predominantly found in Ireland. Examples are rarely found in Britain, though four are now known from Cornwall, and one from Dorset (Fig.E.26), representing the Classical and Provincial types.



Fig.E.26: A provincial lunula from Tarrant Valley, Dorset (PAS-F164) (source: image courtesy of the PAS/Trustees of the British Museum).

E.6.6 Pins

A broad range of pins occur during the Bronze Age in South West England (Pearce 1983, 46-7). Few occur in the Early Bronze Age in the region, largely associated with burials and typically dating to the Wessex periods (Gerloff 1975, 249-251). Pins become more frequent and diverse in the Middle and Late Bronze Ages. Terminology for pins is relatively well-established, particularly for the Late Bronze Age, and terms are used here following key assessments (e.g. Davies 2012; Eogan 1974; O'Connor 1980).

Most pins are defined by the character of the head, though in some cases the section of the shaft is accounted for. Some types are represented by only one or two types (e.g. the wheel-headed pin from Gussage St. Michael 2 South IX, Dorset: PRIV-F029; Fig.E.27), which can be considered a foreign intrusion. Other types have a number of variants, but only those found in South West England are presented here, such as swan-neck pins, which are found with 'sunflower' or forward-facing disc-heads in Scotland or ring-heads in other parts of Britain (Davies 2012, 38).





E.6.7 Rings (copper alloy)

E.6.7a Finger rings

Finger rings are typically penannular and are, as the name implies, appropriately sized for a finger (or toe). Three sub-categories of finger rings are known from South West England, following definitions by Pearce (1983, 48). They are produced from a bar or wire of bronze and often coiled. Finger rings are found from the Middle Bronze Age (c.1400 BC) onwards.

E.6.7b Annular rings

Annular rings are separated here as the function of these objects is less clear. Annular rings vary in size and form, with some being ribbed, while others are plain. Any ring with a diameter smaller than 15mm is considered a 'bead' (see above). Annular rings from the South West have been found associated with Ewart Park-Llyn Fawr material. It is possible that they represent clothing adornment or horse harness fittings. It should be noted that this classification is not designed to encompass larger vessel ring handles.

E.6.8 Rings (gold)

E.6.8a Composite rings

Composite rings are penannular rings that have been formed from two or three rings welded on top of each other, creating a thick ribbed appearance. They date to the Middle Bronze Age and have been found in Devon, Dorset and Somerset.

E.6.8b Penannular gold rings

These small gold penannular rings typically have a circular cross-section and flat terminals and may be plain or decorated in a variety of ways (Fig.E.28; Eogan 1994; Meeks et al. 2008). They have traditionally been referred to in a variety of ways, including ring-money, hair rings and bullae (Taylor 1980, 64-66; Eogan 1994, 89), though the functional implications of these terms mean they are now more broadly referred to as penannular gold rings (Varndell 2001; Meeks et al. 2008; Gwilt et al. 2014).



Fig.E.28A: A Class 3a penannular gold ring from Milborne St Andrew II, Dorset (PAS-F134) **Fig.E.28B:** A Class 1a penannular gold ring from Poxwell, Dorset (PAS-F147) (source: images courtesy of the PAS/Trustees of the British Museum)

These objects developed as early as the Penard phase of the Middle Bronze Age and continued in production throughout the Late Bronze Age (Meeks et al. 2008). They are predominantly found in Ireland and southern England (Eogan 1994, Fig.42; Meeks et al. 2008), though an increasing number have been found recently from South West England. They may be produced from a solid gold bar, or else gold sheet/foil wrapped around a lead, copper alloy or clay core. They are often inlaid with electrum (high silver gold) creating a banded effect. The typological scheme presented by Meeks et al. (2008) is utilised here.

E.6.8c Lock Rings (following Eogan 1994, 89)

These are circular penannular ornaments of triangular cross-section, with a gold tube at the centre (Fig.E.29). They are produced from either gold sheet forming conical face plates, or from gold wires soldered together to form the face plates, which are then held by a binding strip along the outside. These face plates are curved around the tube, but do not meet at the terminals. The former method of





Fig.E.29: A lock-ring from Galhampton, Somerset (TTNCM-F017) (source: Author courtesy of South West Heritage Trust (Museums Service)

production is typically used outside of Ireland, while the latter is used in Ireland. However, the only example known from the South West comes from Castle Cary, Somerset (TTNCM-F017), and is produced using the Irish technique.

E.6.9 Torcs/Neckrings

A torc is a large penannular bar of metal, presumed to have adorned an individual around the neck (Fig.E.30); alternatively, they are referred to as neck rings (e.g. the two from Chickerell, Dorset). Torcs occur in both copper alloy and gold, and can be divided into three main categories (following Pearce 1983, 48, 49-50), though the gold material in particular has been subjected to much analysis (Taylor 1980; Eogan 1994). Torcs have their main currency in the Middle Bronze Age, dating to the Taunton-Penard metalworking phases, though examples are known from the Late Bronze Age.


Fig.E.30: Two bar-twisted torcs from Holywell, Evershot, Dorset (BM-F030) (source: Author courtesy of the British Museum)

E.6.10 Miscellaneous Copper Alloy

There are a variety of items that are either represented by only one or two examples or else do not fall comfortably within a broader category. The entirety of miscellaneous copper alloy objects from South West England are not listed here, but two of the key objects are presented.

E.6.10a Decorative plaques

Fragments of a decorative plaque have been found associated with the Lulworth hoard, Dorset (DCM-F035I-o; see Fig.9.47). Plaques of this nature are relatively rare, but comparative examples are known from the Cassiobridge Farm hoard, Hertfordshire (Coombs 1979, 208, Fig.11.6) and Boughton Malherbe, Kent (Adams 2016, 52, Fig.9).

E.6.10b Buckle

A unique object was recovered from the St. Michael's Mount hoard, Cornwall (NT-F001o; see Fig.9.28), which is considered here to represent a buckle or horse-fitting. It currently has no parallels, but incorporates features of other objects, such as a flattened bugle-shaped element; this may indicate that bugle-shaped objects (Section E.4.3) were in fact strap fittings.

E.6.11 Miscellaneous Gold

As with the Miscellaneous copper alloy objects, only key gold objects are listed here.

E.6.11a Cup

Gold cups were produced from a single gold sheet, with a ribbed/corrugated body and decorated with rows of pointillé. These are only two examples of gold cup known from Britain and Ireland: one is from Rillaton, Cornwall, while the other is from Ringlemere, Kent, though they are not contemporary (Needham et al. 2006). Needham et al. (2006, 60-61) have dated the Rillaton cup to the Arreton metalworking phase (c.1750-1550 BC).

E.6.11b Lozenge Plate

The lozenge plate found in the lavish Clandon barrow, Dorset (Pearce 1983, No.508b) represents a plate of gold adorned on one face with incised decoration. The gold covering on the associated macehead also indicates the unique nature of this deposit.

E.6.11c Disc

The decorated gold disc on a copper alloy backing from Lansdown Links, Somerset (BM-F031a; Fig.E.31) is the only one of its kind at present (Eogan 1994, 65). Although fragmentary it has been reconstructed to display the extensive ornamentation. The disc has been dated to the Taunton phase of the Middle Bronze Age.



Fig.E.31: The remains of the gold covered copper alloy disc from Lansdown Links, Somerset (BM-F031) and a replica (source: Author courtesy of the British Museum)

E.7 Summary of Typologies

This appendix has presented an overview of the typological schemes appropriate for South West England. Although the focus of this thesis is not a typological one, this task was necessary to help structure the metalwork in a meaningful way during data collection. As the last application of typologies to this dataset was in 1983 (Pearce 1983), this required updating. This update, however, has also highlighted the need for a concentrated study and reevaluation of some of the material, such as South-Western palstaves and socketed gouges. Such an undertaking is unfortunately beyond the confines of this present research, but would be beneficial for better understanding metalwork in South West England.