

[Supplementary Online Material]

Feeding Stonehenge: cuisine and consumption at the Late Neolithic site of Durrington Walls

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Lipid extraction and analysis

Lipids were extracted and analysed by GC-MS and GC-C-IRMS using well-established protocols (Craig *et al.* 2007; Craig *et al.* 2012). Each sample (1–2g drilled from the potsherd interior surface) was solvent-extracted by ultrasonication with dichloromethane:methanol (2:1 vol/vol; 3 × 5ml, 15 min). The solvent was removed from the foodcrust and evaporated under a gentle stream of N₂ to obtain the total lipid extract (TLE). An aliquot of each TLE was silylated with BSTFA, dissolved in hexane and analysed by high temperature gas chromatography (HTGC) on a Agilent 7890A gas chromatograph (Agilent Technologies, Cheshire, UK) equipped with a FID detector and with H₂ as the carrier gas. Samples were injected into a fused silica capillary column (30m × 0.32mm i.d.) coated with dimethyl polysiloxane stationary phase (J&W Scientific; DB1-HT, 0.1mm film thickness). The

temperature programme comprised a 2 min hold at 50°C followed by an increase to 350°C at 10°C min⁻¹; the temperature was held at 350°C for 10 min. HTGC-mass spectrometry was carried out on specific samples using an Agilent 7890A series gas chromatograph connected to an Agilent 5975C Inert XL mass-selective detector with a quadrupole mass analyser (Agilent Technologies, Cheadle, Cheshire). Helium was the carrier gas, the ionisation energy was 70 eV, and spectra were obtained by scanning between m/z 50 and 800. GC conditions were similar to those used for the HTGC analyses.

A separate aliquot, was hydrolysed with 0.5 M NaOH in MeOH/H₂O (9:1 vol/vol; 2ml, 70°C, 90 min), cooled and then acidified to pH 3 with 6 M HCl. Fatty acid methyl esters (FAMES) were prepared from the hydrolysed extract by treatment with BF₃-Methanol complex (14% w/v; 70°C, 1hr. FAMES were extracted with hexane (3 × 1ml) and analysed by GC-MS and by GC-combustion-isotope ratio MS (GC-C-IRMS). Instruments and instrument conditions for GC-MS and GC-C-IRMS were exactly as previously reported (Craig *et al.* 2012). For GC-C-IRMS, instrument precision on repeated measurements was ±0.3‰ (s.e.m.) and the accuracy determined from FAME and *n*-alkane isotope standards was ±0.5‰ (s.e.m.).

Statistical analysis

All statistical analyses were carried out using SPSS (version 20). A Pearson product-moment correlation coefficient was computed to assess the relationship between thickness and rim diameter. Non-parametrical tests were conducted to examine differences in the distribution of the vessels thicknesses and $\Delta^{13}\text{C}$ values between contexts.

Faunal analysis

The animal bones were recorded following a modified version of the method described in Davis (1992) and Albarella and Davis (1994). The ‘diagnostic zones’ that have always been recorded (‘countable’) are listed in Table S1.

<TABLE S1>

Horncores and antlers with a complete transverse section and ‘non-countable’ elements, such as proximal ends of the four main long bones and others of particular interest were recorded and used in the ageing analysis, but not included in the taxonomic and body-part counts. The presence of large (cattle/horse size), medium (sheep/pig size) and small (cat size or smaller) vertebrae and ribs was recorded, but these have not been included in the countable totals.

The sheep/goat distinction was attempted on the following elements using the criteria described in Boessneck (1969), Kratochvil (1969), Payne (1985) and Halstead and Collins

(2002): horncores (non-countable), deciduous lower third premolar (dP₃), deciduous lower fourth premolar (dP₄), permanent lower molars (when more than one tooth is present), distal humerus, proximal radius, distal metacarpal, distal tibia, astragalus, calcaneum and distal metatarsal.

The number of identified specimens (NISP) was calculated for all taxa and the minimum number of individuals (MNI) was calculated for the most common taxa, such as cattle, pig and red deer.

Wear stages were recorded following Grant (1982) for mandibular cattle and pig teeth, and Payne (1973, 1987) for sheep/goats. In addition, a recently designed system by Wright *et al.* (2014) was used to record wear on pig upper teeth and, in addition to Grant's system, on pig lower teeth. In all cases, wear was recorded on both deciduous and permanent fourth premolars, and permanent molars, whether they were found in jaws or loose.

Tooth measurements and wear stages were only recorded when sufficient enamel was preserved. Measurements of fused, fusing and unfused bones were taken following the criteria described in von den Driesch (1976), Payne and Bull (1988), Davis (1992), Albarella and Davis (1994) and Albarella and Payne (2005). For all foetal and neonatal bones, the greatest length of the diaphysis and the smallest width of the shaft were taken.

Collagen extraction and stable isotope analysis

Collagen extraction was based on Longin's method, modified by a two-step filtering process (Longin 1971; Brown *et al.* 1988). Whole bone samples were demineralised in 0.5 M HCl at 4°C. The remaining product was denatured in pH 3 aqueous solution at 70°C for 48 hours. The solution was filtered using Ezee® filters, followed by centrifugal filtering using Millipore ultrafilters that separated molecules smaller than 30kD. The larger, less degraded molecules were then freeze-dried and weighed to tin capsules for combustion to N₂ and CO₂, which was analysed using a Thermo Finnigan DELTA Plus XL continuous helium flow gas isotope ratio mass spectrometer coupled with a Flash EA elemental analyser. All human samples were analysed at the Max Planck Institute for Evolutionary Anthropology, Leipzig, except for Find 1349, which was analysed at Oxford University. All animal samples were analysed at the University of Bradford. Inter-laboratory comparisons between these Bradford data and the human data analysed in Leipzig have been undertaken and they are considered comparable. The analytical standard deviation, averaged from laboratory working standards run with the samples (methionine), amounted to ±0.1‰ for δ¹³C and less than ±0.1‰ for

$\delta^{15}\text{N}$. Two replicates were run for each sample, analysed in separate batches and the results averaged. The widely accepted quality tests for collagen $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ data in terms of atomic C:N ratios of 2.9 to 3.6 and appropriate elemental percentages (approximately 30–47% for carbon and 10–18% for nitrogen) (DeNiro, 1985; Ambrose 1990; van Klinken 1999) were met for all samples

Paleobotanical analysis

A 25% sample of layers such as the midden contexts was recovered using a grid of 0.5 × 0.5m squares, with every fourth square being sampled in its entirety. A 100% sample was recovered from the house floor deposits, also with the use of a grid of 0.5 × 0.5m squares. Discrete features such as pits and post holes were sampled in their entirety or to a minimum sample size of 40l. In total, 1177 samples, representing over 13 600l of soil, were processed using a water-separation machine. Floating material was collected in sieves of 1mm and 300 μm mesh, and the heavy residue was retained in a 1mm mesh. Each sample was scanned using a low-power binocular microscope ($\times 7$ –45) and the presence of charred plant material was recorded using a scale of abundance. Where identifiable charred plant remains were found to be present, samples were sorted in full and the charred plant remains fully quantified.

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Table S1. List of diagnostic zones of mammal bones recorded for the Durrington Walls assemblage

| Skeletal element | Zone/part |
|-------------------------|--|
| Loose teeth | > half occlusal surface |
| Mandible/maxilla | With at least one tooth present (> half occlusal surface) |
| Cranium | Zygomaticus > half |
| Atlas | > half |
| Axis | > half |
| Scapula | Glenoid articulation > half |
| Humerus | Distal end > half |
| Radius | Distal end > half |
| Ulna | Articular end (proximal) > half |
| Carpal 2–3 | > half |
| Pelvis | Ischial part of the acetabulum |
| Tibia | Distal end > half |

| | |
|--------------------|--|
| Femur | Distal end > half |
| Astragalus | Lateral half |
| Calcaneum | Sustentaculum |
| Scafocuboid | > half |
| Metatarsal | Proximal end > half At least one distal condyle |
| Metacarpal | Proximal end > half At least one distal condyle |
| Phalanges 1, 2 & 3 | Proximal end > half |

Table S2. Description of the pottery sherds analysed and details of the absorbed lipid residues detected by HTGCMS and the measured stable carbon isotope value ($\delta^{13}\text{C}$) of the major saturated fatty acids.

| Sample number* | SF/Muse um cat | Context number | Context type | Compounds classes detected[†] | $\delta^{13}\text{C}_{16}$:0 (‰) | $\delta^{13}\text{C}_{18}$:0 (‰) |
|-----------------------|-----------------------|-----------------------|---------------------|---|---|---|
| 3117 | – | 586 | Layer/bank | FFA, MAG, DAG tr | -28.99 | -32.29 |
| 3142 | 9328 | 586 | Layer/bank | FFA, MAG | -27.58 | -29.81 |
| 5002 | 445 | 64 | Borrow pit | FFA, DAG | -26.21 | -25.79 |
| 2052 | 7519 | 641 | Layer | FFA, MAG | -27.33 | -28.21 |
| P193 | 4 | ditch 5–6B | ditch 5–6B | FFA, MAG, DAG | -28.40 | -33.20 |
| P171 | C312 | ditch 8 | ditch 8 | FFA, MAG, cholesterol | -28.04 | -28.59 |
| P72 | C304 | ditch 8 | ditch 8 | FFA, MAG | -27.79 | -28.43 |
| P63 | C305 | ditch 8 | ditch 8 | FFA | -26.35 | -29.62 |
| P467 | C309 | ditch 8 | ditch 8 | FFA | -25.60 | -26.44 |
| 3982 | 9400 | 852 | House 851 | FFA, MAG | -29.24 | -33.84 |
| 3981 | 9400 | 852 | House 851 | FFA, DAG, cholesterol, WEtr | -28.87 | -33.72 |
| 3999 | – | 852 | House 851 | FFA, MAG, DAG, cholesterol | -28.58 | -30.95 |
| 3993 | 9512 | 852 | House 851 | FFA | -28.26 | -34.10 |
| 4019 | 9576 | 856 | House 800 | FFA, MAG, DAG, TAG | -30.00 | -32.78 |
| 4032 | – | 856 | House 800 | FFA, MAG, DAG, TAG | -27.34 | -29.30 |
| 3055 | 8925 | 547 | House 547 | FFA, cholesterol, DAG, TAG | -29.56 | -32.59 |
| 3075 | 9145 | 547 | House 547 | FFA, MAG, DAG, TAG | -27.06 | -27.46 |
| 1138 | 8903 | 547 | House 547 | FFA, MAG, DAG, TAG | -26.93 | -27.15 |
| 2965 | 8627 | 547 | House 547 | FFA, MAG, DAG | -26.34 | -27.54 |
| 5067 | – | 772 | House 772 | FFA, ME | -26.59 | -28.18 |
| 3979 | 9454 | 849 | House 848 | FFA, MAG, DAG | -26.51 | -27.03 |
| P297 | C530 | Surface of | Surface of platform | FFA | -27.68 | -32.29 |
| P60 | C598 | Surface of | Surface of platform | FFA 2, MAG tr | -27.00 | -27.93 |
| P487 | C574 | Surface of | Surface of platform | FFA | -26.35 | -29.13 |
| P25/P169 | C601 | Surface of | Surface of platform | FFA, MAG, DAGtr, TAGtr | -29.23 | -31.31 |
| 6199 | 9739 | 593 | Midden | FFA, MAG, DAGtr | -29.56 | -32.33 |
| 2122 | 7662 | 593 | Midden | FFA, MAG | -31.14 | -33.99 |
| 1889 | 7261 | 593 | Midden | FFA, MAG, K, DAG | -29.95 | -32.69 |
| 5039 | 11835b | 593 | Midden | FFAC 7:1, 8:2, 8, MAG, K | -29.91 | -33.32 |

| | | | | | | |
|------|----------|-----|--------|-----------------------------|--------|--------|
| 1591 | 248/606 | 593 | Midden | FFA | -29.83 | -32.33 |
| 5058 | 249/614b | 593 | Midden | FFA | -29.80 | -33.95 |
| 3298 | 9264 | 593 | Midden | FFA, 8, MAG, OH, 8 alkane | -29.65 | -33.37 |
| 5014 | 9879 | 593 | Midden | FFA, 8 | -29.65 | -32.08 |
| 5033 | 11835a | 593 | Midden | FFA C3 | -29.14 | -33.47 |
| 2156 | 7704 | 593 | Midden | FFA, MAG, cholesterol, Ktr, | -29.13 | -32.90 |
| 5060 | 9791 | 593 | Midden | FFA, MAG, DAG | -29.12 | -31.34 |
| 1735 | 7100 | 593 | Midden | FFA, MAG, DAG cholesterol, | -29.11 | -31.06 |
| 2265 | 7808 | 593 | Midden | FFA, MAG, Ktr | -29.11 | -32.35 |
| 3297 | 9253 | 593 | Midden | FFA, MAG, cholesterol | -29.09 | -31.09 |
| 1665 | 7022 | 593 | Midden | FFA, MAG | -29.08 | -31.53 |
| 5032 | 251/615 | 593 | Midden | FFA, DAG, K | -29.00 | -31.98 |
| 1653 | 7007 | 593 | Midden | FFA, MAG, DAG | -28.99 | -30.67 |
| 5010 | 11825 | 593 | Midden | FFA | -28.97 | -33.49 |
| 1619 | 6897 | 593 | Midden | FFA, MAG, DAG | -28.91 | -30.13 |
| 5016 | 249/616b | 593 | Midden | FFA, WE | -28.77 | -30.60 |
| 2463 | 8064 | 593 | Midden | FFA, MAG, DAG, TAG, | -28.75 | -29.61 |
| 1910 | 7319 | 593 | Midden | FFA, | -28.72 | -30.60 |
| 5055 | 248/616 | 593 | Midden | FFA, MAG, DAG, TAG | -28.71 | -33.49 |
| 3266 | 8115 | 593 | Midden | FFA, MAG, DAG, TAGtr, | -28.70 | -33.43 |
| 3341 | 9496 | 593 | Midden | FFA, MAG | -28.62 | -30.13 |
| 5036 | 9852 | 593 | Midden | FFA, MAG | -28.58 | -32.66 |
| 5057 | 249/614a | 593 | Midden | FFA | -28.53 | -30.06 |
| 1959 | 7354 | 593 | Midden | FFA | -28.38 | -30.67 |
| 5008 | 9914 | 593 | Midden | FFA, DAG, cholesterol | -28.19 | -29.58 |
| 5022 | 250/613 | 593 | Midden | FFA | -28.19 | -30.26 |
| 5056 | 11846 | 593 | Midden | FFA, MAGs, DAGs TAGS | -28.16 | -30.71 |
| 1836 | 7211 | 593 | Midden | FFA, MAG, ME, cholesterol, | -28.04 | -32.90 |
| 5038 | 11847 | 593 | Midden | FFA, MAG, cholesterol | -27.98 | -30.20 |
| 5054 | 11840 | 593 | Midden | FFA, MAG, DAGtr, TAGtr | -27.95 | -30.69 |
| 3282 | 8166 | 593 | Midden | FFA | -27.95 | -31.03 |
| 5017 | 11844 | 593 | Midden | FFA, MAG, DAG | -27.91 | -29.97 |
| 3323 | 9366 | 593 | Midden | FFA, ME, MAG, DAG | -27.86 | -29.66 |
| 5048 | 11472 | 593 | Midden | FFA, MAG, DAG, TAGtr | -27.79 | -30.15 |
| 5023 | 11893 | 593 | Midden | FFA, DAG, cholesterol, K | -27.75 | -31.88 |

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|------|---------|------|---------------------|---------------------------|--------|--------|
| 1768 | 7136 | 593 | Midden | FFA, MAG, DAG | -27.69 | -29.43 |
| 1651 | 7005 | 593 | Midden | FFA, MAG | -27.63 | -28.64 |
| 5021 | 251/613 | 593 | Midden | FFA, MAG | -27.48 | -29.63 |
| 3325 | 9345 | 593 | Midden | FFA, cholesterol | -27.35 | -28.73 |
| 2175 | 7731 | 593 | Midden | FFA, MAG, DAG, TAG | -27.32 | -29.13 |
| 2144 | 7677 | 593 | Midden | FFA, MAG, DAG, TAG | -27.29 | -27.83 |
| 1558 | 247/617 | 593 | Midden | FFA, MAG | -27.15 | -27.89 |
| 1645 | 7001 | 593 | Midden | FFA, MAG | -26.94 | -28.39 |
| 1698 | 7058 | 593 | Midden | FFA, MAG, DAG, TAG | -26.80 | -28.76 |
| 2062 | 7618 | 593 | Midden | FFA, MAG, DAG, TAG | -26.78 | -27.80 |
| 1920 | 7324 | 593 | Midden | FFA | -26.68 | -27.10 |
| 1924 | 7327 | 593 | Midden | FFA | -26.41 | -29.15 |
| 1982 | 7367 | 593 | Midden | FFA | -26.21 | -26.57 |
| 2427 | 7929 | 593 | Midden | FFA | -26.18 | -27.34 |
| 2093 | 7638 | 593 | Midden | FFA, MAG | -26.08 | -26.28 |
| 2319 | 7847 | 593 | Midden | FFA, MAG, DAG, TAG, Ktr, | -26.03 | -26.55 |
| 5051 | 9744 | 593 | Midden | FFA, MAG, cholesterol, K, | -25.93 | -25.17 |
| 3331 | 9495 | 593 | Midden | FFA | -25.69 | -26.51 |
| 2435 | 8031 | 593 | Midden | FFA | -28.42 | -31.32 |
| 5075 | 9749 | 1381 | Closing pit | FFA | -26.03 | -25.29 |
| 5537 | 10191 | 1466 | Closing pit | FFA, MAG | -28.51 | -31.10 |
| 1343 | 3530 | 522 | Eastern pit complex | FFA, MAG, DAG, | -28.10 | -28.53 |
| 1137 | 3026 | 52 | Groove ware pit | FFA, Ktr | -27.57 | -29.60 |
| 1280 | 1862 | 77 | Groove ware pit | FFA, MAG, DAG tr | -26.06 | -27.27 |
| 1301 | 2976 | 109 | Groove ware pit | FFA, MAG, DAG, Ktr | -26.48 | -25.93 |
| 1311 | 2992 | 174 | Groove ware pit | FFA, MAG, DAG, | -25.70 | -26.10 |
| 1325 | 3600 | 184 | Groove ware pit | FFA | -29.35 | -34.25 |
| 1427 | 7407 | 184 | Groove ware pit | FFA | -27.41 | -28.27 |
| 1426 | - | 184 | Groove ware pit | FFA, ME, DAGtr | -26.83 | -27.71 |
| 1324 | 3599 | 184 | Groove ware pit | FFA, MAG | -26.79 | -26.98 |
| 1121 | 3196 | 187 | Groove ware pit | FFA, MAG, DAG, Ktr | -26.81 | -26.88 |
| 1126 | 3628 | 512 | Groove ware pit | FFA, MAG, DAG | -26.91 | -26.39 |
| 2849 | 7776 | 717 | Post-hole fill | FFA, MAG | -27.75 | -27.86 |
| 4704 | - | 710 | Pit fill | FFA, ME | -29.92 | -31.35 |
| 5006 | - | 870 | Pit fill | FFA | -28.58 | -29.06 |

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|------|-------|------------|----------------------|----------------------|--------|--------|
| 5536 | 10181 | 1386 | Pit fill | FFA, MAG | -28.11 | -29.38 |
| 2764 | 6557 | 653 | Post-hole fill | FFA, ME, K | -28.37 | -30.32 |
| 2803 | 7749 | 704 | Post-hole fill | FFA, ME, WE, K | -29.00 | -32.02 |
| – | 2664 | 95 | Southern Circle | FFA, MAG, DAG | -28.57 | -30.42 |
| P44 | 63 | PH 70, 71 | Southern Circle | FFA | -28.35 | -30.04 |
| P164 | C726 | PH21, 22 | Southern Circle | FFA, MAG, DAG, TAGtr | -28.20 | -30.28 |
| P223 | C858 | PH42, PH65 | Southern Circle | FFA, MAG | -29.34 | -33.94 |
| P172 | C599c | PH45 | Southern Circle | FFA | -29.08 | -30.72 |
| P77 | 166 | PH90 | Southern Circle | FFA, MAG, DAGtr | -25.63 | -25.52 |
| P207 | 182 | PH91 | Southern Circle | FFA | -29.66 | -34.01 |
| P50 | C378 | 122 | Southern Circle | FFA, MAG | -28.33 | -32.12 |
| P488 | C421 | – | Southern Circle | FFA, MAGtr | -30.79 | -35.80 |
| P320 | C398 | – | Southern Circle | FFA, MAG | -29.63 | -34.87 |
| 2876 | 7937 | 726 | Stone-hole under | FFA, MAG, DAG | -29.66 | -31.26 |
| 2902 | 8265 | 768 | Stone-hole under | FFA, MAG, DAGtr | -26.98 | -29.02 |
| 4481 | 8546 | 652 | Midden | FFA, MAG, DAG | -29.18 | -30.66 |
| 2900 | 8075 | 725 | Midden | FFA, MAG, DAG | -28.86 | -31.07 |
| 5005 | – | 725 | Midden | FFA | -28.13 | -28.25 |
| 5001 | 8314 | 770 | Midden | FFA | -23.96 | -25.26 |
| 5003 | 9469 | 886 | Midden | FFA, MAG, DAG | -27.79 | -29.59 |
| 5026 | 561 | 311 | Post-hole fill W | FFA | -27.83 | -33.84 |
| 5012 | 821 | 88/504 | Pit fill W Enclosure | FFA | -28.36 | -30.37 |

*PRN—pottery reference number refers to the *Feeding Stonehenge* pottery database; P number = catalogue number from Wainwright and Longworth (1971).

† FFA = free fatty acids; MAG = monoacylglycerols; DAG = diacylglycerols; TAG = triacylglycerols; K = ketones; ME = fatty acid methyl esters; WE = wax esters; tr = trace amounts.