IRON AGE AND ROMAN ARABLE PRACTICE IN THE

EAST OF ENGLAND

Volume 2

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by

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Arable Practice in the Iron Age and Roman East of England. Chapter 1 (Figures). Introduction and research context.



Fig. 1.1. The study region.



Fig. 1.2. The solid geology of the study region.



Fig. 1.3. The superficial geology of the study region.



Fig. 1.4. Sub-regions used in this research.



Fig. 1.5. Major Roman towns and Late Iron Age 'tribal territories'.



Fig. 2.1. Number of EIA records of different types. Shows all records, and those selected for crop-processing analysis and crop identification (Method 2).



Fig. 2.2. Number of MIA records of different types.

Shows all records, and those selected for crop-processing analysis and crop identification (Method 2).



Fig. 2.3. Number of LIA records of different types. Shows all records, and those selected for crop-processing analysis and crop identification (Method 2).



Fig. 2.4. Number of ER records of different types.

Shows all records, and those selected for crop-processing analysis and crop identification (Method 2).



Fig. 2.5. Number of MR records of different types. Shows all records, and those selected for crop-processing analysis and crop identification (Method 2).



Fig. 2.6. Number of LR records of different types.

Shows all records, and those selected for crop-processing analysis and crop identification (Method 2).



Fig. 2.7. All records, labelled by record number (see Appendix 1).



Fig. 3.1. Records included in Method 2, labelled with record numbers (see Appendix 1).



Fig. 3.2. Potential cereal crops identified using Method 1 (n=2440 samples).



Fig. 3.3. Cereal crops identified using Method 2 (n=725 samples).



Fig 3.4. Ratio of samples with spelt crops to samples with barley crops.



Fig. 3.5. Ratio of samples with emmer crops to samples with spelt crops.



Fig. 3.6. Percentage of records (n=160) with samples representing spelt-, barley- and emmer- cultivation (Method 2).



Fig. 3.7. Percentage of EIA (n=33) samples from different sub-regions representing spelt-, barley- and emmer-cultivation (Method 2).





Fig. 3.8. Percentage of EIA (n=33) samples from different record-types representing spelt-, barley- and emmer-cultivation (Method 2).



Fig. 3.9. Percentage of MIA samples (n=78) from different sub-regions representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2). Other crops and sub-regions were not represented in Method 2 for this period.



Fig. 3.10. Percentage of MIA samples (n=78) from different record-types representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).



Fig. 3.11. Percentage of LIA samples (n=75) from different sub-regions representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).

Other crops and sub-regions were not represented in Method 2 for this period.



Fig. 3.12. . Percentage of LIA samples (n=75) from different record-types representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).



Fig. 3.13. Percentage of ER samples (n=136) from different sub-regions representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).

Other crops and sub-regions were not represented in Method 2 for this period.



Fig. 3.14. Percentage of ER samples (n=136) from different record-types representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).



Fig. 3.15. Percentage of MR samples (n=239) from different sub-regions representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).



Other crops and sub-regions were not represented in Method 2 for this period.

Fig. 3.16. Percentage of MR samples (n=239) from different record-types representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).



Fig. 3.17. Percentage of LR samples (n=164) from different sub-regions representing spelt-, barley-, emmer- and bread wheat-cultivation (Method 2).

Other crops and sub-regions were not represented in Method 2 for this period.



Fig. 3.18. Percentage of LR samples (n=164) from different record-types representing spelt-, barley-, emmer-, bread wheat- and rye-cultivation (Method 2).



Fig. 4.1. Correspondence analysis for exploration of crop-processing derivation: species (cereal items and weed taxa).



Fig. 4.2. Correspondence analysis for exploration of crop-processing derivation: samples. Pure crop-processing derivatives coded by type.



Fig. 4.3. Correspondence analysis: samples. Mixed crop-processing derivatives coded by type.



Fig. 4.4 Proportion of all samples (n=693) containing fine-sieving by-products, clean grain, spikelets or mixed grain/fine-sieving by-products.



Fig. 4.5. Proportion of all samples (n=693) in which fine-sieving by-products, clean grain and spikelets occurred. Includes samples in which they were mixed with other products or by-products.



Fig. .4.6. Proportion of records (n=160) with samples containing fine-sieving by-products, clean grain, spikelets and mixed grain/fine-sieving by-products.



Fig. 4.7. Ratio of fine-sieving by-product samples to clean grain samples. Excludes mixtures of the two.



Fig. 4.8. Proportion of EIA samples (n=31) from each sub-region accounted for by each crop-processing derivative/combination.

Sub-regions not shown had no samples included in the analysis for this period.



Fig. 4.9. Proportion of EIA samples (n=31) from each record-type accounted for by each crop-processing derivative/combination.



Fig. 4.10. Distribution of MIA and LIA clean grain samples.



Fig. 4.11. Proportion of MIA samples (n=74) from each sub-region accounted for by each cropprocessing derivative/combination.

Sub-regions not shown had no samples included in the analysis for this period.



Fig. 4.12. Proportion of MIA samples (n=74) from each record-type accounted for by each crop-processing derivative/combination.



Fig. 4.13. Proportion of LIA samples (n=72) from each sub-region accounted for by each crop-processing derivative/combination.

Sub-regions not shown had no samples included in the analysis for this period.



Fig. 4.14. Proportion of LIA samples (n=72) from each record-type accounted for by each crop-processing derivative/combination.

Arable Practice in the Iron Age and Roman East of England. Chapter 4 (Figures). Crop-processing, storage and utilisation.



Fig. 4.15. Proportion of ER samples (n=127) from each sub-region accounted for by each crop-processing derivative/combination.

Sub-regions not shown had no samples included in the analysis for this period.



Fig. 4.16. Proportion of ER samples (n=127) from each record-type accounted for by each crop-processing derivative/combination.



Fig. 4.17. Proportion of MR samples (n=229) from each sub-region accounted for by each crop-processing derivative/combination.

Sub-regions not shown had no samples included in the analysis for this period.



Fig. 4.18. Proportion of MR samples (n=229) from each record-type accounted for by each cropprocessing derivative/combination.



Fig. 4.19. Proportion of LR samples (n=160) from each sub-region accounted for by each crop-processing derivative/combination.

Sub-regions not shown had no samples included in the analysis for this period.



Fig. 4.20. Proportion of LR samples (n=160) from each record-type accounted for by each crop-processing derivative/combination.



Fig.4.21. Clean grain (including samples mixed with by-products) by species as a proportion of all samples.

Data labels for glume wheat bars show numbers of samples of spelt/emmer/ 'glume wheat'. Samples containing mixtures of two species are included in bars for both.



Fig. 4.22. Fine-sieving by-products by species as a proportion of all samples.

Includes samples in which fine-sieving by-products and grain are mixed. Samples containing mixtures of two species are included in bars for both.



Fig. 4.23. Spikelets by species as a proportion of all samples. Samples containing mixtures of two species are included in bars for both.



Fig. 4.24. Density of samples which include clean grain. Includes samples in which clean grain and fine-sieving by-products are mixed.



Fig. 4.25. Density of samples which include fine-sieving by-products. Includes samples in which fine-sieving by-products and clean grain are mixed.



Fig. 4.26 Feature-derivation of sparse clean grain samples. Includes samples in which clean grain and by-products are mixed.



Fig. 4.27. Feature-derivation of sparse fine-sieving by-product samples. Includes samples in which fine-sieving by-products and grain are mixed.



Fig. 4.28. Distribution of MIA and LIA dense fine-sieving by-products.



Fig. 4.29. Density of spikelet samples.



Fig. 4.30. Proportion of spikelet samples which are sieved/not sieved.

Data labels show overall number of sieved samples/number of dense sieved samples.



Fig. 4.31. Proportion of fine-sieving by-product samples which have evidence of previous sieving in spikelet form.

Excludes fine-sieving by-products of free-threshing cereals only and fine-sieving by-products mixed with other crop-processing derivatives except clean grain.



Fig. 4.32.Distribution of MR evidence for spikelet-sieving.
Arable Practice in the Iron Age and Roman East of England. Chapter 4 (Figures). Crop-processing, storage and utilisation.



Fig. 4.33. Distribution of LR evidence for spikelet-sieving.



Fig. 4.34 Proportion of samples with evidence of significant germination.



Fig. 5.1. Dataset A: species. MIA spelt and emmer cultivation on the Isle of Ely and in the south-east.



Fig. 5.2. Dataset A: samples, coded by record. MIA spelt and emmer cultivation on the Isle of Ely and in the south-east.





Fig. 5.3. Dataset C: species. MR spelt and barley cultivation.



Fig. 5.4. Dataset C: samples, coded by record. MR spelt and barley cultivation.



Fig. 5.5. Dataset D: species. Spelt and barley cultivation at MR Tunbridge Lane, Bottisham.



Fig. 5.6. Dataset E: species. LR spelt and barley cultivation.



Fig. 5.7. Dataset E: samples, coded by record. LR spelt and barley cultivation.



Fig. 6.1. Records with samples included in this analysis.



Fig. 6.2. Chronological distribution of weeds indicating cultivation of wet soils in fine-sieving by-product samples.

Individual species (grey, white and patterned bars) are also included in the Ellenberg F8-F10 group (black bars).



Fig. 6.3. Spatial distribution of weeds indicating cultivation of wet soils in fine-sieving by-product samples.

Individual species (grey, white and patterned bars) are also included in the Ellenberg F8-F10 group (black bars). No weeds indicating cultivation of wet soils occurred in the two fine-sieving by-product samples from the north-west. One of the two fine-sieving by-product samples from the south-west chalk contained a single seed of *C. mariscus*; the other contained a single seed of *E. palustris/uniglumis*.



Fig. 6.4. Chronological distribution of weeds with a preference for heavy clay soils in fine-sieving by-product samples.

Individual species (grey and white bars) are also included in the clay preference group (black bars).



Fig. 6.5. Chronological distribution of weeds of nitrogen-poor soils in fine-sieving by-product samples. Excludes species which also have Ellenberg values F8-F10.

Individual species (grey and white bars) are also included in the Ellenberg N2-N4 group (black bars).



Fig. 6.6. Chronological distribution of weeds of acidic soils in fine-sieving by-product samples. R. acetosella (white bars) also included in the Ellenberg R3-R5 group (black bars).



Fig. 6.7 Chronological distribution of perennial weed taxa in fine-sieving by-product samples. Individual species (grey, white and patterned bars) are also included in the combined perennial group (black bars).



Fig. 6.8. Chronological distribution of weed taxa with Ellenberg values N7-N9 in fine-sieving by-product samples.

Individual species (grey, white and patterned bars) are also included in the Ellenberg N7-N9 group (black bars).



Fig. 6.9. Dataset F: species.



Fig. 6.10. Dataset F: samples, coded by period.

Fig. 6.11. Dataset F: samples, coded by presence/absence of Anthemis cotula.



Fig. 6.12. Dataset F: samples, coded by derivation from processing o f sieved and unsieved spikelets.

Fig. 6.13. Dataset G: species.



Fig. 6.14. Dataset G: samples, coded by period.

Fig. 6.15. Dataset G: samples, coded by presence/absence of Anthemis cotula.



Fig. 6.17. Dataset H: samples (EIA-ER), coded by period and/or record.

Fig. 6.16. Records with samples included in Dataset H.



Fig. 6.18. Dataset H: species.

Fig. 6.19. Dataset H: samples (EIA-ER) as pie-charts coded by preference of weed taxa for soil nitrogen-content.







Fig. 6.21. Dataset H: samples (EIA-ER) as pie-charts coded by preference of weed taxa for soil moisture.



Fig. 6.22. *Dataset H: samples (EIA-ER) as pie-charts coded by perennation of weed taxa.*

Fig. 6.23. Dataset H: samples (EIA-ER) as pie-charts coded by germination time.



Fig. 6.24. Dataset H: samples (EIA-ER) as pie-charts coded by onset and duration of Fig. 6.25. Records with samples included in Dataset I. flowering period.





Fig. 6.27. Dataset I: species.



Fig. 6.28. Dataset I: samples (ER-LR) as pie charts coded by weed taxa's preference for soil nitrogen-content.

Fig. 6.29. Dataset I: samples (ER-LR) as pie charts coded by weed taxa's preference for soil acidity.



Fig. 6.30. Dataset I: samples (ER-LR) as pie charts coded by weed taxa's preference for soil moisture.

Fig. 6.31. Dataset H: samples (ER-LR) as pie charts coded by individual taxa representing waterlogged soils prone to shallow-water inundation.



Fig. 6.32. Dataset I: samples (ER-LR) as pie charts coded by weed taxa's preference perennation. heavy clay soils.



Fig. 6.34. Dataset I: samples (ER-LR) as pie charts coded by weed taxa's germination Fig. 6.35. Dataset I: samples (ER-LR) as pie charts coded by onset and duration of time. Fig. 6.35. Dataset I: samples (ER-LR) as pie charts coded by onset and duration of weed taxa's flowering.



Medium soil nitrogen (N5-6)

High soil nitrogen (N7-8)

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Fig. 6.36. Understanding Group I3 (based on Fig. 6.28).



Fig. 6.37. Records with samples included in Dataset J.





Fig 6.39. Dataset J: species.



Fig. 6.40. Dataset J: samples (LIA-LR) as pie-charts coded by weed taxa's preferences for soil nitrogencontent.



Fig. 6.41. Dataset J: samples (LIA-LR) as pie-chart, coded by weed taxa's preferences for soil acidity.



Fig. 6.42. Dataset J: samples (LIA-LR) as pie-charts coded by weed taxa's preferences for soil moisture.



Fig. 6.43. Dataset J: samples (LIA-LR) as pie-charts coded by weed ta xa's mode of perennation.



Fig. 6.44. Dataset J: samples (LIA-LR) as pie-charts coded by timing of weed taxa's germination.



Fig. 6.45. Dataset J: samples (LIA-LR) as pie-charts coded by onset and duration weed taxa's flowering.



Fig. 6.46. Process of sample-elimination for analyses in this chapter.

Arable Practice in the Iron Age and Roman East of England. Chapter 8 (Figures). Discussion.



Fig. 8.1. Numbers of samples and records included in each of the major analyses.



Fig. 8.2. Evidence for MR and LR cultivation of heavy soils: instances identified in this research and plough coulters identified through search of Heritage Gateway. HER references: Cambs: MCB17091, CB15590, 06253; Beds: 11324; Essex: 1954; Norfolk: 33367.

Appendices.

Appendix 1. Record descriptions and bibliographic references

This appendix gives basic description and bibliographic references for all records included in this research. It consists of three tables. The first (A1.1) describes the records included in analyses in Chapters 3-6 and 7 - i.e. all those with fully quantified samples and clear dating. The sixth column of this table includes, where relevant, extra description of records identified consistently for distinctiveness in their arable practice. The second table (A1.2) describes quantified records which lacked precise dating (included in identification of crop species only). The third (A1.3) describes unquantified records, used only in identification of non-cereal species of potential economic importance (Chapter 7).

Table A1.1: Information on records considered for main analyses

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
1	EIA	Stansted Airport	TL 5200 3320	Open settlement	-	-	Murphy, P., 2004, Carbonised plant remains. In: Havis, R. and Brooks, H. 2004. <i>Excavations at</i> <i>Stansted Airport, 1986-91. 1: Prehistoric and</i> <i>Romano-British</i> . East Anglian Archaeology 107. Chelmsford: Essex County Council, 65-68.
2	MIA	Stansted Airport	TL 5200 3320	?Open settlement	Elaborate enclosure (palisade and towers) within open settlement	-	
3	LIA	Stansted Airport	TL 5200 3320	Discrete enclosed settlement	Substantial enclosure	-	
4	ER	Stansted Airport	TL 5200 3320	Settlement periphery	-	-	
6	LIA	Stansted Airport	TL 5200 3320	Burial	-	Cremation burial	
7	LR	Stansted Airport	TL 5200 3320	Complex rural settlement	-	-	
8	EIA	Slough House Farm	TL 8720 0909	Ceremonial	-	Unoccupied enclosure	Murphy, P., 1998, Charred plant remains. In: Wallis, S. and Waughman, M Archaeology and the landscape in the Lower Blackwater Valley. East Anglian Archaeology 82. Chelmsford: Essx County Council, 196-204
9	MIA	Slough House Farm	TL 8721 0910	Discrete enclosed settlement	-	-	
10	LIA	Slough House Farm	TL 8722 0911	Discrete enclosed settlement	-	-	
11	ER	Slough House Farm	TL 8723 0912	Industrial (quarrying)	-	-	
12	EIA	Chigborough Farm	TL 8802 0822	Field system	-	-	Wiltshire, P.E.J. and Murphy, P. 1998, An analysis of plant microfossils and macrofossils from waterlogged deposits at Slough House and

Arable Practice in the Iron Age and Roman East of England. Appendix 1. Record descriptions and bibliographic references.

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
							Chigborough Farm. In: Wallis, S. and Waughman, M. 1998. Archaeology and the Landscape in the Lower Blackwater Valley. East Anglian Archaeology 82. Chelmsford, Essex County Council, 172-196
14	MIA	Fison Way	TL 9671 8495	?Ceremonial	-	-	Murphy, P., 1991, Plant remains and the environment. In: Gregory, T. <i>Excavations in</i> <i>Thetford 1980-1982, Fison Way. Vol. 1.</i> East Anglian Archaeology 53. Gressenhall: Norfolk Museums Service, 175-181 & Tables 41-42 (microfiche)
15	ER	Fison Way	TL 9671 8495	Discrete enclosed settlement	Minting and metalwork manufacture. Followed by elaborate enclosure surrounding high status or religious buildings.	-	
17	LR	Fison Way	TL 9671 8495	Settlement, unclear	-	-	
19	LIA	Ivy Chimneys, Witham	TL 8110 2360	Complex rural settlement	-	-	Murphy, P., 1999, Molluscan and plant remains. In: Turner, R. (ed). 1999. <i>Excavation of an Iron Age</i> <i>Settlement and Roman Religious Complex at Ivy</i> <i>Chimneys, Witham, Essex 1978-83</i> . East Anglian Archaeology 88. Chelmsford: Essex County Council, 224-228 & Tables 52-64 (microfiche)
21	ER	Ivy Chimneys, Witham	TL 8110 2360	Ceremonial	-	Structured/votiv e deposition of metal items	
22	LR	Ivy Chimneys, Witham	TL 8110 2360	Ceremonial	-	Temple/shrine, substantial structured/votive deposits	
23	MR	Ivy Chimneys, Witham	TL 8110 2360	Ceremonial	-	?Temenos enclosure and votive/structured deposits; also a large pond of possible symbolic significance	
24	EIA	North	TQ	Complex	-	-	Murphy, P., 1995, Botanical evidence. In: Wymer,
Record	Period	Name	NGR	Site type	High Status? (and other relevant	Ritual or ceremonial?	Bibliographic references*
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					description)	ceremoniai.	
		Shoebury	9310	rural			J.J. and Brown, N.R. 1995, Excavations at North
			8610	settlement			Shoebury: Eettlement and Economy in South-East
25	LIA	North	TQ	Settlement,	-	-	Essex 1500BC-AD1500. East Anglian
		Shoebury	9310	unclear			Archaeology75. Chelmsford, Essex County
			8610				Council, 146-150
26	ER	North	TQ	Field system	-	-	
		Shoebury	9310				
			8610				
27	LR	North	TQ	Field system	-	-	
		Shoebury	9310				
16		NT d	8610	D 11			_
16	LIA	North	TQ	Burial	-	Cremation	
		Shoebury	9310			cemetery	
20	ETA	A . 1 1. 11	8610 TI	C		(2.5.1)	Mart D 1001 Courte a Lorenza to La
28	EIA	Asheldham	1L 0720	Ceremonial	Univaliate enclosure enclosi	lre (3.5 na)	Murphy, P., 1991, Cereals and crop weeds. In: Reducin O. Ashaldham Campu an Early Iron Aga
		Camp	9720		by time of MIA occupation	Sot on platoou of	Hillfort: the 1085 Exceptions Essar Archaeology
20	MIA	Ashaldham	0120 TI	Hillfort	by time of MiA occupation.	Set on plateau at	and History 22, 31-34
29	MIA	Camp	9720	minon	centre of Deligic pennisula.		<i>unu misiory</i> 22, 31-34
		Camp	0120				
30	MIA	Haddenham V	TL	Open		-	Jones, G., 2006 Cereal processing, household space
20			4210	settlement			and crop husbandry. In Evans, C. and Hodder, I.
			7330				Marshland Communities and Cultural Landscapes:
32	LIA	Haddenham V	TL	Discrete	-	-	from the Bronze Age to Present Day. The
			4210	enclosed			Haddenham Project, Volume. 2. Cambridge:
			7330	settlement			McDonald Institute and English Heritage, 248-55
34	MR	Stebbing Green	TL	Maltings	-	-	Murphy, P., 1999, Charred plant remains and
			6900				molluscs from Roman contexts. In: Bedwin, O. and
			2310				Bedwin, M. 1999. A Roman Malt House:
							Excavations at Stebbing Green, Essex 1988. East
							Anglian Archaeology Occasional Paper 6.
							Chelmsford, Essex County Council, 19-21
36	MR	Beck Row,	TL	Maltings	-	-	Fryer, V., 2004, Charred plant macrofossils and
		Mildenhall	6880				other remains. In: Bales, E. 2004. A Roman
	1		7800				Maltings at Beck Row, Mildenhall, Suffolk. East

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
							Anglian Archaeology Occasional Paper 20. Ipswich: Suffolk County Council Archaeological Service, 49-54
37	ER	Orton Longueville	TL 1665 9525	Field system	-	-	Jones, G., 2001, The charred plant remains. In Mackreth, D.F. <i>Monument 97, Orton Longueville,</i> <i>Cambridgeshire: a Late Pre-Roman Iron Age and</i> <i>Early Roman farmstead</i> . East Anglian Archaeology 97. Manchester: Nene Valley Archaeological Trust, 82-83
38	MIA	Wardy Hill	TL 4780 8200	Complex rural settlement	Substantial enclosure	-	Murphy, P. 2003, Plant macrofossils. In: Evans, C. Power and island communities: excavations at the Wardy Hill Ringwork, Coveney, Ely. East Anglian
39	LIA	Wardy Hill	TL 4780 8200	Hillfort	Substantial enclosure (ditches and ramparts)	-	Archaeology 103. Cambridge: Cambridge Archaeological Unit, 84-114
40	MR	Barnack	TF 0810 0660	Industrial (Metal working & crop processing)	-	-	 Alvey, R.C. and Dickson, C. in Simpson, W.G., 1994, The excavation of Romano-British aisled buildings at Barnack, Cambridgeshire. In: Simpson, W.G., Gurney, D.A., Neve, J. and Pryor, F.M.M. <i>The Fenland Project Number 7. Excavations in</i> <i>Peterborough and the Lower Welland Valley 1960-</i> 69. East Anglian Archaeology 61. Peterborough: Fenland Archaeological Trust in conjunction with the Fenland Project Committee and the Scole Archaeological Committee, 123-124
41	ER	London Road, Godmanchester	TL 2490 6990	Complex rural settlement	-	-	Smith W., 2003, Charred plant remains. In: Jones A. (ed). Settlement, Burial and Industry in Roman Godmanchester. Excavations in the extra-mural
42	MR	London Road, Godmanchester	TL 2490 6990	Small town	-	-	<i>area: The Parks 1998, London Road 1997-8, and</i> <i>Other Investigations.</i> Oxford: BAR (British Series) 346/ BUFAU Monograph Series 6, 160-168
43	LR	London Road, Godmanchester	TL 2490 6990	Industrial (iron working)	-	-	
45	LIA	Billericay	TL	Burial	-	Cremation	Hinton, P., 1990, Charred seeds. In: Rudling, D.R.

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
		School	6750 9380			burials	Late Iron Age and Roman Billericay: excavations 1987. Essex Archaeology and History 21, 43-44
46	MR	Billericay School	TL 6750 9380	Small town	-	-	
47	LR	Billericay School	TL 6750 9380	Small town	-	-	
48	LIA	Folly Lane, St Albans	TL 1415 0786	Burial	-	Samples from high status 'shaft burial' and assoated features	Murphy, P. and Fryer, V., 1999, Plant macrofossils. In: Niblett, R. 1999. <i>The Excavation of a</i> <i>Ceremonial Site at Folly Lane, Verulamium</i> . London: Britannia Monograph Series 14, 384-392
49	LIA	Folly Lane, St Albans	TL 1415 0786	Discrete enclosed settlement	-	-	
50	MR	Folly Lane, St Albans	TL 1415 0786	Ceremonial	-	Part of 'ceremonial complex' including theatre, bathhouse and temple	
51	LR	Folly Lane, St Albans	TL 1415 0786	Major town	-	-	
53	EIA	Eynesbury	TL 1800 5850	Ceremonial	-	Pit-alignment enclosure with few internal features	Clapham, A.J., 2004, Evidence for the economy and environment: charred plant remains. In: Ellis, C.J. <i>A Prehistoric Ritual Complex at Eynesbury,</i> <i>Cambridgeshire. Excavation of a Multi-Period Site</i> <i>in the Great Ouse Valley, 2000-200.1.</i> East Anglian Archaeology Occasional Paper 17. Salisbury: the Trust for Wessex Archaeology Ltd, 71-79
55	MIA	Spong Hill	TF 9810 1950	Settlement periphery	-	-	Murphy, P., 1995, Plant remains from Iron Age, Roman and early Saxon contexts. In: Rickett, R. <i>The Anglo-Saxon Cemetery at Spong Hill, North</i>

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
56	MR	Spong Hill	TF 9810 1950	Complex rural settlement	-	-	Elmham, Part VII: the Iron Age, Roman and Early Saxon Settlement. East Anglian Archaeology 73. Gressenhall: Norfolk Musesums Service, 140-1 &
57	LR	Spong Hill	TF 9810 1950	Complex rural settlement	-	-	Fiche Table 18
58	ER	Balkerne Lane, Colchester	TL 9900 2500	Major Town	-	-	Murphy, P., 1984, The charred cereals from Building 41. In: Crummy, P. <i>Excavations at Lion</i> <i>Walk, Balkerne Lane, and Middleborough,</i> <i>Colchester, Essex.</i> Colchester Archaeological Report 3. Colchester: Colchester Archaeological Trust, Appendix 11, 341-357 (microfiche)
60	LIA	Barnham	TL 8660 7770	Ceremonial	Enclosure with very substantial ditches		Murphy, P. in Martin, E., 1993, The Iron Age enclosure at Barnham. In: <i>Settlements on Hill-Tops:</i> <i>Seven Prehistoric Sites in Suffolk</i> . East Anglian Archaeology 65. Ipswich: Suffolk County Council Archaeological Service, 18 & 21
61	MR	St Nicholas Street, Thetford	TL 8687 8325	Settlement, unclear	-	-	 Fryer, V. and Murphy, P. in Andrews, P. 1999, Excavations at St Nicholas' Street, 1990, Site 1134. In: Andrews, P. and Penn, K. (eds). 1999 <i>Excavations in Thetford, North of the River, 1989-</i> 90. East Anglian Archaeology 87. Gressenhall: Norfolk Museums Service, 60-5
63	ER	West Stow	TL 7970 7130	Industrial (pottery)	-	-	Murphy, P., 1985, The cereals and crop weeds. In: West, S., 1985. West Stow. The Anglo-Saxon Village. Volume 1. East Anglian Archaeology 24. Ipswich: Suffolk County Council archaeological Service, 100-108
64	ER	Boxfield farm	TL 2660 2590	Discrete enclosed settlement	-	-	Murphy, P., 1999, Plant remains and other macrofossils. In: Going, C.J. and Hunn, J.R. 1999. <i>Excavations at Boxfield Farm, Chells, Stevenage,</i>
65	MR	Boxfield farm	TL 2660 2590	Discrete enclosed settlement	-	-	<i>Hertfordshire</i> . Hertfordshire Archaeological Trust Report 2. Hertford: Hertford Archaeological Trust, 136-143

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
66	LIA	Tort Hill, West	TL 1720 8460	Complex rural settlement	-	-	Monckton, A. 1998, Charred plant remains. In: Ellis, P., Hughes, G., Leach, P., Mould, C. and Sterenberg, J. 1998. <i>Excavations Alongside Roman</i>
67	ER	Tort Hill, West	TL 1720 8460	Industrial (pottery)	-	-	<i>Ermine Street, Cambridgeshire, 1996. The</i> <i>Archaeology of the A1(M) Alconbury to</i> <i>Peterborough road scheme.</i> Oxford: BAR (British
68	LR	Tort Hill, East	TL 1720 8460	Field system	Painted wall plaster recovered	-	Series) 276/ BUFA Monograph Series 1, 92-97
69	LR	Vinegar Hill	TL 1860 7780	Settlement periphery	-	-	
70	MR	Paston	TL 1938 0299	Complex rural settlement	-	-	Smith, W. in Coates G, Hancocks A and Ellis P., 2001, A Romano-British Rural site at Paston, Peterborough: Archaeological Investigations 1996-
71	LR	Paston	TL 1938 0299	Complex rural settlement	-	-	7. In: Ellis, P., Coates, G., Cuttler, R. and Mould, C. Four sites in Cambridgeshire. Excavations at Pode Hole Farm, Paston, Longstanton and Bassingbourn, 1996-7. Oxford: BAR (British Series) 322, 53-55
72	MIA	Wendons Ambo	TL 5070 3600	Open settlement	-	-	Jones, G., Halstead, P. and Morse, V., 1982, The carbonised seeds. In: Hodder, I. Wendens Ambo The Excavations of an Iron Age and Romano- British Settlement. The Archaeology of the M11, Volume 2. London: Passmore Edwards Museum, 50-54
73	ER	Wendons Ambo	TL 5070 3600	Field system	-	-	
74	MR	Wendons Ambo	TL 5070 3600	Complex rural settlement	Stone-built buildings including 'villa'.	-	
75	LR	Wendons Ambo	TL 5070 3600	Complex rural settlement	Stone-built buildings including 'villa'.	-	
76	ER	Brampton	TG 2230 2350	Industrial (pottery)	-	-	Jones, A. in Green, C., 1977, Excavations in the Roman Kiln Field at Brampton 73-4. In: Wade- Martins, P. <i>Norfolk</i> . East Anglian Archaeology 5.

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
							Gressenhall: Norfolk Museums Service, 90-92
77	MR	Scole	TM 1480 7880	Small town	-	-	Jones A.K.G. in Rogerson A., 1977, Excavations at Scole 1973. In: Wade-Martins, P. <i>Norfolk</i> . East Anglian Archaeology 5. Gressenhall: Norfolk Musesums Service, 218-21
78	EIA	Yarl's Wood, Clapham	TL 0347 5625	Open settlement	-	-	Robinson, J., 2004, Environmental Samples. In: Luke, M. Evidence for prehistoric settlement and medieval activity at Yarl's Wood, Clapham, <i>Bedfordshire Archaeology</i> 25, 14-15
80	LIA	Scotland Farm	TL 3662 6016	Discrete enclosed settlement	-	-	Giorgi, J., 2008, Plant Remains. In: Abrams, J. and Ingham, D. Farming on the edge: archaeological evidence from the clay uplands to the west of Cambridge. East Anglian Archaeology 123. Bedford: Albion Archaeology, Appendix 15 (CD- Rom)
81	MIA	Bushmead Road	TL 1640 5930	Field system	-	-	Druce, D., 2008, Charred plant remains. In: Stansbie, D. Excavation of a Middle Iron Age enclosure at Bushmead Road, Eaton Socon. <i>Proceedings of the Cambridge Antiquarian Society</i> XCVII, 48-49
82	MR	Parnwell	TF 2200 0110	Discrete enclosed settlement	-	-	Druce, D., 2007, Charred Plant Remains. In: Webley, L. Prehistoric, Roman and Saxon Activity on the fen hinerland at Parnwell, Peterborough, <i>Proceedings of the Cambridge Antiquarian Society</i> XCVI, 79-114
84	ER	Eaton Socon	TL 1680 5810	Field system	-	-	Stevens, C. and Clapham, A., 2005, A Romano British site at Eton Socon, Cambridgeshire: specialist report. Charred and waterlogged plant
85	MR	Eaton Socon	TL 1680 5810	Field system	-	-	<i>macrofossils.</i> <u>http://www.wessexarch.co.uk/projects/county/camb</u> <u>ridgeshire/eaton-socon</u>
86	LR	Eaton Socon	TL 1680 5810	Field system	-	-	
87	MR	Tunbridge	TL	Field system	-	-	Nicholson, K., 2008, Archaeobotanical Samples

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
		Lane, Bottisham	5460 6090		-		<i>from Tunbridge Lane, Bottisham (AS1011).</i> Report prepared for Archaeological Solutions Ltd.
88	LR	Tunbridge Lane, Bottisham	TL 5460 6090	Field system	-	-	
89	MIA	Shillington Bury	TL 1256 2356	Complex rural settlement	-	-	Scaife, R., 2004, Plant Macrofossils. In: Dawson, M. <i>Archaeology in the Bedford Region</i> . Oxford: BAR (British Series) 373, 267-274
90	MR	Ruxox	TL 0526 3630	Complex rural settlement	-	-	
91	LR	Ruxox	TL 0526 3630	Complex rural settlement	-	-	
92	ER	Kempston	TL014 0 4785	Complex rural settlement	Stone-built buildings	-	Fryer, V., 2005, The environmental evidence. In: Walker, C. and Maull, A. <i>An Archaeological</i> <i>Excavation at King William Road, Bedfordshire</i> .
93	LR	Kempston	TL014 0 4785	Complex rural settlement	-	-	August 2005. Northamptonshire Archaeology Unpublished Report 05/146
94	LR	Kempston	TL014 0 4785	Burial	-	Inhumation cemetery	
95	LR	Newmans End	TL 5150 2180	Field system	-	-	Carruthers, W. 2000, Charred plant remains. In: Guttmann, E.B.A. Excavations on the Hatfield Heath to Matching Tye rising main, North-West Essex. <i>Essex Archaeology and History</i> 31, 18-32
96	LR	Great Holt's Farm	TL 8643 1205	Complex rural settlement	Stone-built buildings including 'villa' and bathhouse	-	Murphy, P., 2003, Plant macofossils. In: Germany, M. <i>Excavations at Great Holt's Farm, Boreham,</i> <i>Essex, 1992-94</i> . East Anglian Archaeology 105. Chelmsford: Essex County Council, 204-211
97	MIA	Gallows Hill, Thetford	TL 8643 8684	Ceremonial		Large 'turf stack' mound'; no evidence of burial.	Murphy, P. in Lawson, A.J. and Le Hegarat, R. 1986, The excavation of a mound on Gallows Hill, Thetford, 1978-9. 65-9. In: Lawson, A.J. <i>Barrow</i> <i>excavations in Norfolk 1950-82</i> . East Anglian Archaeology 29. Gressenhall: Norfolk Musesums

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
							Service, D.13-14, E.1-2 (microfiche 1)
98	ER	Culver Street, Colchester	TL 9500 2500	Major town	-	-	Murphy, P., 1992, Environmental Studies, Culver Street. In: Crummy, P. <i>Excavations at Culver</i> <i>street, the Gilberd School and Other Sites 1971-85.</i>
99	MR	Culver Street, Colchester	TL 9500 2500	Major town	-	-	Colchester Archaeological Report 6 Colchester: Colchester Archaeological Trust, 281-284, 700-727 (microfiche) (Culver Street)
105	ER	Culver Street, Colchester	TL 9500 2500	Military	-	-	728-730 (microfiche) (Gilberd School) 330-333 (Cups Hotel).
101	ER	Gilberd School, Colchester	TL 9500 2500	Major town	-	-	
103	ER	Cups Hotel, Colchester	TL 9500 2500	Major Town	-	-	
104	LR	Caister-on-Sea	TG 5170 1230	Military	-	-	Murphy, P., 1993, Botanical Remains. In: Darling, M.J. and Gurney, D. <i>Caister-on-Sea Excavations by</i> <i>Charles Green</i> , 1951-55. East Anglian Archaeology 60. Gressenhall: Norfolk Musesums Service, 239 & Table 58 (microfiche)
106	EIA	Rectory Road, Orsett	TQ 6460 8100	Settlement, unclear	-	-	Murphy, P., 1988, Cereals and crop weeds. In: Wilkinson, T.J, Archaeology and Environment in South Essex: Rescue Archaeology Along the Grays By-pass, 1979/80, East Anglian Archaeology 42. Chelmsford: Essex County Council, 99-100
107	LR	Icklingham	TL 7832 7192	Industrial (pottery)	-	-	Murphy, P., 1978, <i>Icklingham: Fruits and seeds</i> . Ancient Monuments Laboratory Report (Old Series) 2521
108	LR	Godmancester (Unigate)	TL 2470 7030	?Small town	-	-	Arthur, J.R.B., 1975, Unigate site, Godmanchester, Huntingdonshire: Seed Report. Ancient Monuments Laboratory Report (Old Series) 1799
111	EIA	Lingwood Farm, Cottenham	TL 4520 1720	Open settlement	-	-	Murphy, P., 1998, Fenland Management Project. Plant macrofossils (wood, fruits and seeds) from an Early Iron age site at Lingwood Farm, Cottenham,

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
							<i>Cambridgeshire</i> . Ancient Monuments Laboratory Report (New Series) 49/98
113	MR	Snettisham Bypass	TF 6789 3300	Complex rural settlement		-	 Murphy, P., 1991, Snettisham By-pass, Norfolk: Plant macrofossils from Roman Contexts. Ancient Monuments Laboratory report (New Series 39/91). Flitcroft, M., 2001, Excavation of a Romano-British Settlement on the A149 Snettisham Bypass, 1989. East Anglian Archaeology 93. Gressenhall: Norfolk Museums Service, 77.
115	ER	Pakenham	TL 9335 6985	Military intra-mural	Neronian foundation on the boundary of the newly absorbed Iceni Client Kingdom.	-	Murphy, P., and Wiltshire, P.E.J., 1989, <i>Pakenham</i> , <i>Suffolk (PKM027): Environmental and Economic</i> <i>Studies</i> . Ancient Monuments Laboratory Report (New Series) 99/89
117	MR	Pakenham	TL 9335 6985	Small town	-	-	Plouviez, J., 1995, A hole in the distribution map: the characteristics of small towns in Suffolk. In:
118	LR	Pakenham	TL 9335 6985	Small town	-	-	Brown, N. <i>Roman Towns in Eastern England and Beyond</i> . Oxford: Oxbow Books.
119	LIA	Baldock BAL1	TL 2500 3410	Burial	-	-	Murphy, P., 1990, Baldock, Hertfordshire: Land Molluscs, Carbonised Cereals and Crop Weeds, Charcoal, Avian Eggshell and Coprolites from
120	LIA	Baldock BAL 2	TL 2515 3390	Ceremonial	-	Interpreted as 'ceremonial way' between settlement and burial zones	Prehistoric and Roman Contexts. Ancient Monuments Laboratory Report (New Series) 123/90
123	LR	Southery	TL 8110 5230	Isolated features	-	-	Murphy, P., 1979, <i>Roman Cereals and Crop</i> <i>Weeds; Southery, Norfolk.</i> Ancient Monuments Laboratory Report (Old Series) 2950
124	LIA	Elm's Farm, Heybridge	TL 8470 0820	Complex rural settlement	-	-	Monckton, A., 2000, <i>Charred Plant Remains from</i> <i>the Late Iron Age and Roman settlement at Elm's</i> <i>Farm, Heybridge, Essex.</i> Ancient Monuments
125	ER	Elm's Farm,	TL	Small town	-	-	Laboratory Report (New Series) 77/2000

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
		Heybridge	8470				
126	MR	Elm's Farm.	0820 TL	Small town	-	_	Atkinson, M. and Preston, S.J., 1998, The Late Iron Age and Roman Settlement at Elm's Farm,
		Heybridge	8470 0820				Heybridge, Essex. Excavations 1993-5: an Interim Report. <i>Britannia</i> 29, 85-110
129	MIA	Springfield Lyons	TL 7360 0810	Isolated features	-	-	Murphy, P., 1990, Springfield Lyons, Chelmsford, Essex: Carbonised Plant Remains from Neolithic, Late Bronze Age, Iron Age, Roman, Early- and Late-Saxon Contexts. Ancient Monuments Laboratory Report (New Series) 11/90
131	MIA	West Stow	TM 7970 7135	Open settlement	-	-	Murphy, P., 1983, <i>Carbonised cereals and crop</i> weeds. West Stow, Suffolk. Ancient Monuments Laboratory Reports (Old Series) 4061 West, S., 1990, West Stow: the Prehistoric and
							<i>Romano-British Occupations</i> . East Anglian Archaeology 48. Bury St Edmunds: Suffolk County Council Archaeological Service
132	EIA	Valley Belt, Trowse	TG 2745 0605	Field system	-	-	Murphy, P., 1992 Norwich Southern By-pass: Plant Remains from Beaker, Bronze Age, Iron Age, Romano-British and Late Saxon Contexts. Ancient
133	MR	Valley Belt, Trowse	TG 2745 0605	Industrial (iron working)	-	-	Monuments Laboratory Report (New Series) 20/92
134	MIA	Harford Farm	TG 2248 0428	Open settlement	-	-	
135	MIA	Stanway	TL 9560 2810	Discrete enclosed settlement	-	-	Murphy, P., 1992, Stanway, Essex: Plant Remains from Late Neolithic/Early Bronze and Middle Iron Age Pits and Late Iron Age Burials. Ancient
136	LIA	Stanway	TL 9560 2810	Burial	High status burials set wi	thin enclosure	Monuments Laboratory Report (New Series) 29/92
137	MIA	Lodge Farm, St Osyth	TM 1355	Complex rural	-	-	Fryer, V., 2007, Charred plant macrofossils. In: Germany, M. 2007 <i>Neolithic and Bronze Age</i>

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
			1545	settlement			Monuments and Middle Iron Age Settlement at Lodge Farm, St Osyth, Essex. East Anglian Archaeology 177. Chelmsford: Essex County Council, 90-94
138	EIA	Prickwillow Road, Ely	TL 5530 8130	Settlement periphery	-	Structured animal bone deposits	Carruthers, W.J., 2003, The charred plant remains. In: Atkins, R. and Mudd, A., An Iron Age and Romano-British settlement at Prickwillow Road,
139	MIA	Prickwillow Road, Ely	TL 5530 8130	Discrete enclosed settlement	-	Structured animal bone deposits	Ely, Cambridgeshire: Excavations 1999-2000, Proceedings of the Cambridge Antiquarian Society XCII, 44-48.
140	MR	Prickwillow Road, Ely	TL 5530 8130	Settlement periphery	Wall plaster	Structured animal bone deposits	
141	LR	Prickwillow Road, Ely	TL 5530 8130	Settlement periphery	-	Structured animal bone deposits	
142	LIA	Kilverstone	TL 8840 8389	Settlement periphery	-	Human bone and red deer antler deposits	Ballantyne, R., 2006 Environmental Remains. In: Garrow, D. <i>Excavations at Kilverstone, Norfolk : an</i> <i>Episodic Landscape History : Neolithic Pits, Later</i>
143	ER	Kilverstone	TL 8840 8389	Complex rural settlement	-	Infant burials	Prehistoric, Roman and Anglo-Saxon Occupation, and Later Activity. East Anglian Archaeology 113. Cambridge: Cambridge Archaeological Unit, 160-
144	MR	Kilverstone	TL 8840 8389	Industrial (metal working)	-	Possibly structured metalwork deposits	162, 230-240
145	LIA	Little Dunmow Road	TL 5662 2225	Complex rural settlement	-	-	Carruthers, W. 2007, Charred Plant remains. In: Timby, J., Brown, R., Biddulph, E., Hardy, A. and Powell, A., <i>A Slice of Rural Essex. Archaeological</i>
146	LIA	Rayne Roundabout	TL 7117 2229	Settlement periphery	-	-	<i>discoveries from the A120 between Stansted Airport</i> <i>and Braintree</i> . Oxford: Oxford Wessex Archaeology Monograph No. 1, CD-Rom.
147	MR	Rayne Roundabout	TL 7117 2229	Settlement periphery	-	-	

Record	Period	Name	NGR	Site type	High Status? (and other relevant	Ritual or ceremonial?	Bibliographic references*
					description)		
148	ER	Strood Hall	TL	Complex	-	-	
			6009	rural			
-			2168	settlement			
149	MR	Strood Hall	TL	Complex	-	-	
			6009	rural			
			2168	settlement			_
151	LR	Strood Hall	TL	Complex	-	-	
			6009	rural			
1.50	- T D		2168	settlement			
153	LR	Middleton	TF	Industrial	-	-	Murphy, P., 2001, Plant Macrofossils. In: Lane, T.
			6540	(saltern)			and Morris, E. A Millennium of Salt-Making: Iron
			1440				Age and Roman Salt-Making in Fenland. Sleaford:
							Lincolnshire Archaeology and Heritage Reports
154	MD	Naadalah	TI	In december 1			Series No. 4, 253-255
154	MK	Nordelph	1L 5226		-	-	Murphy, P. 2001, Charred plant macrolossils and
			3230 0010	(sattern)			Nordelph Norfelk and the Bourne Morten Canal
			9910				Lincolnshipe In: Lange T and Morris E Λ
							Millennium of Salt Making: Iron Age and Roman
							Salt-Making in Fenland Sleaford: Lincolnshire
							Archaeology and Heritage Reports Series No. 4
							320-322
155	LR	Mucking	ТО	Complex	-	-	Van der Veen. M., 1988. <i>Carbonised Grain from a</i>
		8	6720	rural			'Corn-Drier' in Mucking, Essex. Ancient
			8040	settlement			Monuments Laboratory Report (Old Series) 3834
156	MIA	Chipping Hill	TL	Hillfort	Bivallate enclosure. Inner d	itch (9.5 ha)	Williams, V. and Murphy, P., 1993, The carbonised
			8200		constructed (with timber ran	npart and low turf	plant remains. In: Rodwell, W. The Origins and
			1510		wall) in LBA or EIA but occ	cupation dates to	Development of Witham, Essex: a Study in
					MIA. Outer ditch (c. 26 ha)	may be of later	Settlement and Fortification, Prehistoric to
					(Saxon) date. Located on sl	ope.	Medieval. Oxford: Oxbow Monograph 26, 112-117
							Essex HER (Record 8106).
157	MIA	West Fen	TL	Complex	-	-	Ballantyne, R. M., 2005, Plants and seeds. In:
		Road, Ely	5290	rural			Mortimer, R.W., Regan, R. and Lucy, S., (eds) The
		-	8080	settlement			Saxon and Medieval Settlement at West Fen Road,

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
							<i>Ely: The Ashwell Site.</i> East Anglian Archaeology 110. Cambridge: Cambridge Archaeological Unit, 100-112
159	EIA	Stansted Airport	TL 5170 2180	Open settlement	-	-	Carruthers, W., 2008, Charred, mineralised and waterlogged plant remains. In: Cooke, N., Brown, F. and Phillpotts, C. <i>From Hunter Gatherers to</i>
160	MIA	Stansted Airport	TL 5170 2180	Open settlement	-	-	Huntsmen: a History of the Stansted Landscape. Salisbury: Framework Archaeology Monograph No. 2, Chapter 34 (CD Rom)
161	LIA	Stansted Airport	T1 5200 2240	Complex rural settlement	-	-	
163	ER	Stansted Airport	T1 5200 2240	Complex rural settlement	-	-	
164	MR	Stansted Airport	TL 5510 2230	? Discrete enclosed settlement	-	-	
165	LR	Stansted Airport	TL 5510 2230	Complex rural settlement	-	-	
166	MIA	Stansted Airport	TL 5480 2210	Settlement periphery	-	-	
167	MIA	Bourn Airfield	TL 5342 5980	Discrete enclosed settlement	-	-	As Record 80.
168	ER	Bourn Airfield	TL 5342 5980	Field system	-	-	
169	MIA	Scotland Farm	TL 3660 6000	Complex rural settlement	-	-	
170	MR	Ash Plantation	TL 3370	Discrete enclosed	-	-	

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
			5980	settlement			
171	MR	Childerley Gate	TL 3590 5980	Complex rural settlement	-	-	
172	LR	Childerley Gate	TL 3590 5980	Complex rural settlement	-	-	
174	EIA	Biddenham Loop	TL 0200 4900	Open settlement	-	Structured animal bone deposits, some also including human bone	 Pelling, R., 2008, Charred Plant Remains. In Luke, M. Life in the Loop: Investigation of a Prehistoric and Romano-British Landscape at Biddenham Loop, Bedfordshire. East Anglian Archaeology 125. Bedford: Albion archaeology, 154-156
175	LIA	Biddenham Loop	TL 0200 4900	Complex rural settlement	-	Possible shrine, structured animal bone deposits, burials in landscape (including a cremation cemetery)	
176	MR	Biddenham Loop	TL 0200 4900	Complex rural settlement	-	-	
178	MR	Willington to Steppingley Site 13	TL 1039 4554	Discrete enclosed settlement	-	-	Carruthers, W., nd. Charred, mineralised and waterlogged plant remains report. In: <i>Willington to</i> <i>Steppingley 900mm gas pipeline. Archaeological</i>
179	LR	Willington to Steppingley Site 13	TL 1039 4554	Discrete enclosed settlement	-	-	Evaluation, Excavation and Watching Brief, 2002. Network Archaeology Unpublished Report 182
180	MIA	Willinton to Steppingley Site 14	TL 1025 4536	Complex rural settlement	-	-	
181	LIA	Willinton to Steppingley Site 14	TL 1025 4536	Complex rural settlement	-	-	

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
182	MIA	Willinton to Steppingley Site 23	TL 0824 4340	Discrete enclosed settlement	-	-	
183	EIA	Willington to Steppingley Site 52	TL 1077 3625	Open setttlement	-	-	
184	MIA	Brewer's Hall Farm	TL 1126 5245	Settlement periphery	-	-	Carruthers, W., nd. The charred plant remains. In: <i>Huntingdon to Willington pipeline. Archaeological</i> <i>Report.</i> Network Archaeology Unpublished Report
185	LIA	Brewer's Hall Farm	TL 1130 5290	Discrete enclosed settlement	-	-	
186	ER	Brewer's Hall Farm	TL 1130 5290	Isolated features	-	-	
187	LR	Little Staughton	TL 0990 6125	Field system	-	-	
189	LIA	Skeleton Green	TL 3800 3000	Discrete enclosed settlement	Continental imports, pre- Conquest graffiti, coins	-	Monk, M. 1981, Cereal grain. In: Partridge, C. Skeleton Green: a Late Iron Age and Romano- British Settlement. London: Britannia Monograph 2, 204-205
190	EIA	Lobs Hole, Stevenage	TL 3630 2635	Isolated features	-	-	Giorgi, J. 2005, The charred plant remains. In Hunn, J. <i>Lob's Hole, Stevenage: a Romano-British</i> <i>Farmstead</i> . Letchworth: Heritage Network
191	LIA	Lobs Hole, Stevenage	TL 3630 2635	Isolated features	-	-	Monograph 1, 116-124, 177-179
192	ER	Lobs Hole, Stevenage	TL 3630 2635	Discrete enclosed settlement	-	-	
193	MR	Lobs Hole, Stevenage	TL 3630 2635	Discrete enclosed settlement	-	Cremation burial, possible structured ceramic deposit	

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
						(or further cremation burial)	
194	EIA	Fairfield Park A	TL 2040 3480	Open settlement	-	-	Pelling, R., 2007, Charred plant remains. In: Webley, L. Timby, J. and Wilson, M., <i>Fairfield</i> <i>Park: Later Prehistoric Settlement in the Eastern</i>
195	EIA	Fairfield Park B	TL 2040 3540	Open settlement	-	-	<i>Chilterns</i> . Oxford Archaeology Unit and Bedfordshire County Council, 117-128
196	EIA	Spa Lane, Oulton	TG 1350 2950	Settlement, unclear	-	-	Martin, G., in prep. Botanical Remains. In: Cater, D. and Wilson, T. <i>Bacton to Kings Lynn Pipeline</i> . East Anglian Archaeology
200	LIA	Knobbs Farm, Somersham	TL 3689 7934	Field system	-	-	Ballantyne, R., 2004, Environmental Remains. In: Wills, J. Knobbs Farm, Somersham, Cambridgeshire, Phase 4: an Archaeological
201	ER	Knobbs Farm, Somersham	TL 3689 7934	Field system	-	-	<i>Excavation.</i> Cambridge Archaeological Unit Unpublished Report 632, 34-36
202	ER	Greenhouse Farm, Cambridge	TL 4919 5949	Industrial (pottery)	-	-	Ballantyne, R., 2000, The Environmental Remains. In: Gibson, D. and Lucas, G. Archaeological Excavations at The North Field, Greenhouse Farm, Cambridge. Cambridge Archaeological Unit Unpublished Report 354, 76-85
							Gibson, D. and Lucas, L., 2002, Pre-Flavian kilns at Greehouse Farm and the social context of Early Roman pottery production in Cambridgeshire. <i>Britannia</i> 33, 95-127.
203	EIA	Eye Quarry, Peterborough	TF 2380 0220	Open settlement	-	-	Stevens, C. 1998, The bulk environmental samples. In: Gibson, D. and White, L. 1998 <i>Archaeological</i> <i>Investigations of Late Bronze Age to Early Iron Age</i>
204	MIA	Eye Quarry, Peterborough	TF 2380 0220	Open settlement	-	-	settlement and Romano-British enclosures at Eye Quarry, Peterborough. Cambridge Archaeologica Unit Unpublished Report 268, 59-68
206	MIA	Fen Drayton	TL 3378	Discrete enclosed	-	-	Stevens, C. 1995, Environmental Remains. In: Mortimer, R. Archaeological Excavations at Low

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
			6902	settlement			<i>Fen, Fen Drayton, Cambridgeshire.</i> Cambridge Archaeological Unit Unpublished Report 156, 40- 44
207	MIA	Waton's Lane, Ely	TL 5284 7631	Discrete enclosed settlement	-	-	Stevens, C., 1996, Environmental remains. In: Lucas, G. and Hinman, M. Archaeological Excavations of an Iron Age Settlement and Romano
208	MR	Waton's Lane, Ely	TL 5284 7631	Complex rural settlement	-	-	British enclosures at Watson's lane, Little Thetford, Ely, Cambridgeshire. Cambridge Archaeological Unit Unpublished Report 194.
209	EIA	Bradley Fen, Whittlesey	TL 2337 9773	Open settlement	-	-	De Vareilles, A., 2006, Environmental samples. In: Gibson, D. and Knight, M. 2006 <i>Bradley Fen</i> <i>Excavations 2001-2004, Whittlesy, Cambridgeshire.</i> Cambridge Archaeological Unit Unpublished Report 733, 115-123
211	EIA	Striplands Farm	TL 3932 6661	Open settlement	-	-	De Vareilles, A., 2005, Bulk Environmental Samples. In: Patten, R. and Evans, C. 2005 <i>Striplands Farm, West Longstanton,</i> <i>Cambridgeshire. An Archaeological Excavation.</i> Cambridge Archaeological Unit Unpublished Report 703.67-72
212	LIA	Addenbrooke's	TL 4620 5530	Complex rural settlement	-	-	Roberts, K., 2008, Environmental bulk samples. In: Evans, C., Mackay, D. and Webley, L. Borderlands: the Archaeology of the Addenbrooke's Environs, South Cambridgeshire. New Archaeologies of the Cambridge Region 1. Oxford: Oxbow.110-123
213	ER	Addenbrooke's	TL 4620 5530	Complex rural settlement	-	-	
214	LIA	Addenbrooke's	TL 4620 5530	Complex rural settlement	-	-	
215	ER	Addenbrooke's	TL 4620 5530	Burial	-	Mixed inhumation and cremation cemetery	
216	EIA	Manor Estate, Apsley	TL 0551	Isolated features	-	-	O'Brien, C., 2007, Plant macrofossil report. In: Grassam, A. Land at Manor Estate, Apsley,

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
			0512				Hertfordshire: Research Archive Report.
217	MIA	Manor Estate, Apsley	TL 0551 0512	Discrete enclosed settlement	-	-	Archaeological Solutions Unpublished Report 2873, 22-24, 51-54
218	LIA	Manor Estate, Apsley	TL 0551 0512	Isolated features	-	-	
219	ER	Manor Estate, Apsley	TL 0551 0512	Settlement periphery	-	Structured ceramic deposits	
220	MR	Verulamium (Insula XIII)	TL 1390 0660	Major town	-	-	Fryer, V., 2006, Charred cereals and other remains. In: Niblett, R. Verulamium: Excavations within the Roman Town 1986-88, <i>Britannia</i> XXXVII, 53-188
221	LR	Verulamium (Insula XIII)	TL 1390 0660	Major town	-	-	
222	LR	St Ives Priory	TL 3145 7115	Complex rural settlement	-	-	Fryer, V. nd., Charred plant macrofossils. In Fell, D. McDonald, T. Murray, J. and Trevarthen, M. <i>Excavations at the Priory, St Ives, Cambridgeshire.</i> Hertfordshire Archaeological Trust (Archaeological Solutions) Unpublished Report.
223	EIA	Colchester Garrison	TL 9960 2440	Burial	-	Samples from cremation burials	Fryer, V., 2003, Charred plant macrofossils and other remains (report on recommended extra work). In: Brooks, H. and Masefield, R. <i>The Colchester</i> <i>Garrison PFI project, Colchester, Essex: a Report</i> <i>on the 2003 Excavation of Areas 2, 6, 10. August-</i> <i>November 2003.</i> Colchester Archaeological Trust Unpublished Report 292, 66-68
224	ER	Head Street, Colchester	TL 9936 2508	Military intra-mural	-	-	Fryer, V., 2000, Charred Plant Macofossils and Other Remains. In: Brooks, H. Archaeological excavation at 29-39 Head Street, Colchester, Essex May-September 2000. Colchester Archaeological Trust Unpublished Report 268, 169-184
225	ER	Head Street, Colchester	TL 9936 2508	Major Town	-	-	
227	MR	Head Street,	TL	Major Town	-	-	1

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
		Colchester	9936 2508				
228	ER	Brandon Road, Thetford	TL 8550 8320	Complex rural settlement	-	Possible shrine	Fryer, V., forthcoming, Charred plant macrofossils and other remains. In: Oxford Archaeology East <i>Prehistoric, Roman and Anglo-Saxon Settlement at</i>
229	LR	Brandon road, Thetford	TL 8550 8320	Complex rural settlement	-	-	Land off Brandon Road, Thetford, Norfolk. East Anglian Archaeology
230	EIA	Harston Mill	TL 4180 5070	Open settlement	-	-	Scaife, R., in prep., Charred cereal remains. In: O'Brien, L. Early to Middle Iron Age Settlement and Burials and Early Anglo-Saxon Settlement at
231	MIA	Harston Mill	TL 4180 5070	Open settlement	-	Storage pits with structured deposits of human and animal bone	Harston Mill, Harston, Cambridgeshire. East Anglian Archaeology.
232	LIA	Harston Mill	TL 4180 5070	Field system	-	-	
233	ER	Stonald Field, Whittlesey	TL 2416 9810	Isolated features	-	-	Ballantyne, R., 2002, Environmental. In: Gibson, D. and Knight, M. Prehistoric and Roman Archaeology at Stonald Field, Kings Dyke West, Whittlesey: Monuments and Settlement. Cambridge Archaeological Unit Unpublished Report 498, 61- 70
234	MR	Rectory Farm, Godmanchester	TL 2460 7030	Burial	'Villa' near to cemetery	Cremation cemetery	Murphy, P. nd., <i>Rectory Farm, Godmanchester,</i> <i>Cambridgeshire (Site 432). Plant macrofossils</i> <i>from neolithic, Bronze Age, Roman and Saxon</i>
236	MR	Rectory Farm, Godmanchester	TL 2460 7030	Complex rural settlement	'Villa'	-	Contexts. Unpublished report.
238	MR	Wixams	TL 0540 4380	Complex rural settlement	-	-	Giorgi, J. forthcoming, Plants. In: Ingham, D, forthcoming, 'Farming at Hill Field, Wilshamstead in the first millennium AD', Bedfordshire Archaeology 2

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
239	EIA	Beauford Farm, Biggleswade	TL 2011 4285	Field system	-	-	Hill, A. 2007 Beauford Farm, Biggleswade, Bedfordshire (BFS809): an Assessment of the Plant Remains from Late Bronze Age and Early Iron Age
240	EIA	Beauford Farm, Biggleswade	TL 2011 4285	Ceremonial	-	Structured animal bone deposits	<i>contexts Through to Post-Medieval.</i> University of Leicester Archaeology Service Report 2007-085 written for Albion Archaeology.
241	MIA	Beauford Farm, Biggleswade	TL 2011 4285	Settlement periphery	-	-	
242	LIA	Beauford Farm, Biggleswade	TL 2011 4285	Discrete enclosed settlement	-	Structured ceramic deposits	
243	LR	Hinxton Road, Duxford	TL 4890 4530	Maltings	-	-	Fryer, V., 2011, Charred plant macrofossils and other remains. In: Lyons, A. <i>Life and Death at</i> <i>Duxford, Cambridgeshire, from the Early Iron Age</i> <i>to the Post-Medieval</i> . East Anglian Archaeology 141, 86-89
244	MR	Newmarket Road	TL 4847 5931	Settlement periphery	-	-	Fryer, V., forthcoming, Plant macrofossils and other remains. In: Wallis, H. <i>Romano-British</i> <i>Cambridgeshire: Recent Excavations</i> . East Anglian Archaeology.
245	EIA	Fordham Bypass	TL 6230 6920	Burial	-	Two adjacent inhumations (one a child buried in a solution hollow)	Fryer, V., 2007, <i>Charred macrofossils and other remains, Fordham bypass, Cambridgeshire</i> . Report prepared for Oxford Archaeology East.
246	EIA	A505 Baldock Bypass	TL 2413 3200	Open settlement	-	-	Martin, G., 2009, Archaeobotanical remains. In: Phillips, M. Four Millennia of Activity Along the A505 Baldock bypass, Hertfordshire. East Anglian
247	LIA	A505 Baldock Bypass	TL 2413 3200	Complex rural settlement	-	-	Archaeology 128. Bedford: Albion Archaeology, 55-56, 84
248	ER	Camp Ground, Earith	TL 3775 7825	Complex rural settlement	On fen-edge, adjacent to Colne Ditch (Roman canal) and a tributary of the old	-	Ballantyne, R.M., 2009, Charred Plant Remains as Minute Artefactual Debris: Lifestyles and Economy upon the Roman Fen-Edge, Cambridgeshire. PhD

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references*
249	MR	Camp Ground, Earith	TL 3775 7825	Complex rural settlement	course of the Great Ouse. ER enclosures, pits and trackways (including a link	Infant burials	Thesis, University of Cambridge.
250	LR	Camp Ground, Earith	TL 3775 7825	Complex rural settlement	 trackways (including a link to Langdale Hale). Substantial MR re- organisation and sub- division onto domestic and administrative/processing/s torage areas. Also large amounts of pottery and coinage and establishment of docks. Decline in administrative area in LR but domestic area and docks remain in full use. Interpreted as complex, but low status trading sottlement 	-	
251	LIA	Camp Ground, Earith	TL 3775 7825	Complex rural settlement	-	-	
252	ER	Langdale Hale, Earith	TL 3825 7750	Complex rural settlement	Adjacent to Camp Ground and linked by trackway. Interpreted as linked	-	Ballantyne, R.M., 2009, Charred Plant Remains as Minute Artefactual Debris: Lifestyles and Economy upon the Roman Fen-Edge, Cambridgeshire. PhD
253	MR	Langdale Hale, Earith	TL 3825 7750	Complex rural settlement	settlements. Similar pattern of MR expansion from ER enclosures, with	-	Thesis, University of Cambridge.
254	LR	Langdale Hale, Earith	TL 3825 7750	Complex rural settlement	careful organisation of space. Evidence of preparation of carcasses for market. LR change in layout, also noted for many large quernstones whose operation would have required animal- (or collective human-)	-	

Record	Period	Name	NGR	Site type	High Status? (and other relevant description) traction.	Ritual or ceremonial?	Bibliographic references*
255	ER	Vicar's Farm, Cambridge	TL 4312 5906	Complex rural settlement	Established late in ER (<i>c</i> . 80AD) with enclosures and aisled building as well as	Possible shrine	Ballantyne, R.M., 2009, Charred Plant Remains as Minute Artefactual Debris: Lifestyles and Economy upon the Roman Fen-Edge, Cambridgeshire. PhD
256	MR	Vicar's Farm, Cambridge	TL 4312 5906	Complex rural settlement	shrine and cremation cemetery. Trackway in direction of Cambridge-St.	Possible shrine	Thesis, University of Cambridge.
257	LR	Vicar's Farm, Cambridge	TL 4312 5906	Complex rural settlement	Neots Road, small town at Cambridge < 3km away. MR re-organisation including new structures and sub-enclosures. LR peak less formal in layout	Stuctured animal bone deposits in pits within an enclosure, unusual timber post setting	
258	ER	Vicar's Farm, Cambridge	TL 4312 5906	Burial	with fewer structures; suggested as change reflecting loss/replacement of controlling authority.	Inhumation cemetery	
259	EIA	Stonea Camp	TL 4490 9370	Settlement periphery	Features outside of large D-shaped enclosure.	-	Van der Veen, M., 1996, Plant Remains. In: Jackson and Potter 1996, <i>Excavations at Stonea</i> , <i>Cambridgeshire 1980-85</i> . London: British Museum
260	MIA	Stonea Camp	TL 4490 9370	settlement, unclear		-	press, 613-639
261	LIA	Stonea Grange	TL 4490 9370	Isolated features	-	-	
262	MR	Stonea Grange	TL 4490 9370	Small town	Grid-layout of streets; domestic buildings in one complex separated from	Possible temple	
263	MR	Stonea Grange	TL 4490 9370	Complex rural settlement	'great stone complex' in other. Stone transported over long distance. Stone complex includes building with hypocaust, mosaic floor, painted wall plaster -	-	

Record	Period	Name	NGR	Site type	High Status?	Ritual or	Bibliographic references*
					(and other relevant	ceremonial?	
					description)		
					poss. very tall. Settlement		
					may have been constructed		
					on Imperial/other high		
					instructions as an		
					administrative centre.		
1005	ER	Haddon	TL	Complex	-	-	Fryer, V., 2003, Charred plant macrofossils and
			1374	rural			other remains. In: Hinman, M. A Late Iron Age
			9390	settlement			farmstead and Romano-British site at Haddon,
1006	LR	Haddon	TL	Complex	-	Structured	Peterborough. Oxford: BAR (British Series) 358,
			1374	rural		metalwork	210-214
			9390	settlement		deposit in pit	

* Second sources contain information on site context but not archaeobotanical samples. In other records, this site context was gained from the site-reports within which archaeobotanical reports are contained.

Table A1.2. Records with imprecise dating.

Record	Period	Name	NGR	Site type	High Status? (and other relevant	Ritual or ceremonial?	Bibliographic references
					description)		
35	IA	Beck Row, Mildenhall	TL 6880 7800	Discrete enclosed settlement	-	-	As Record 36.
52	IA	Aldwick, Barley	TL 3980 3880	Open settlement	-	-	Lambert, C A., 1965, Appendix II. Weed seeds. In: Cra'ster M D. Aldwick, Barley: recent work on the Iron Age site, <i>Proceedings of the Cambridge</i> <i>Antiquarian Society</i> 58, 1-11
109	IA	Brandon	TL 7790 8656	Open settlement	-	-	Murphy, P., 1982, Mollusca, Peat section, Charred Crop Plants and Weed Seeds. Brandon, Suffolk. Ancient Monuments Laboratory Report (Old Series) 3637
112	IA	Salter's Lane, Longham	TF 9280 1730	?Ceremonial	-	Possible barrow, structured ceramic deposits	Fryer, V. and Murphy, P., 1991, Longham, Norfolk; Carbonised Plant Remains from Beaker, Bronze Age and Iron Age Contexts. Ancient Monuments Laboratory Report (New Series) 61/91
114	IA	Pakenham	TL 9335 6985	Isolated features	-	-	As Records 115-118.
5	LIA-R	Stansted Airport	TL 5200 3320	Ceremonial	-	Unoccupied enclosure	As Records 1-7.
237	LIA-R	Wixams	TL 0540 4380	Complex rural settlement	-	-	As Record 238.
13	R	Chigborough Farm	TL 8802 0822	Field system	-	-	As Record 12.
20	R	Ivy Chimneys, Witham	TL 8110 2360	?Complex rural settlement	-	-	As records 19-23.
44	R	Langford Road,	TL 8470	Burial	-	Samples from ditch	Jones, J., Smith, D. and Wilkinson, K., 1997, <i>Environment and economy</i> . In: Langton, B. and

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references
		Heybridge	0850			surrounding an inhumation cemetery	Holbrook, N., A prehistoric and Roman occupation and burial site at Heybridge: excavations at Langford Road, 1994, <i>Essex Archaeology and</i> <i>History</i> 28, 38-44
54	R	Eynesbury	TL 1800 5850	Field system	-	-	As Record 53.
59	R	Gestingthorpe	TL 8270 3880	Settlement, unclear	Samples from 'villa' building; nature of the rest of the settlement (not excavated) is unclear	-	Renfrew, J.M., 1985, In: Draper, J. and Cooper, H.P., <i>Excavations by Mr. H.P. Cooper on the</i> <i>Roman site at Hill Farm, Gestingthorpe, Essex.</i> East Anglian Archaeology 25. Chelmsford: Essex County Council, 98
62	R	Melford Meadows, Brettenham	TL 8780 8260	Settlement periphery	-	-	Robinson, M., 2002, Plant remains. In: Mudd, A., Excavations at Melford Meadows, Brettenham, 1994: Romano-British and Early Saxon occupations. East Anglian Archaeology 99. Oxford: Oxford Archaeological Unit, 108-10
79	R	Haynes park	TL 0795 4120	Open settlement	-	-	Robinson, M., 2004, Charred plant remains. In: Luke, M. and Shotliff, D. Evidence for Iron Age, Roman and Early Medieval occupation on the Greensand ridge at Haynes Park, Bedfordshire, <i>Bedfordshire Archaeology</i> 25, 55-135
83	R	Eaton Socon	TL 1680 5810	Field system	-	-	As records 84-86.
100	R	Culver Street, Colchester	TL 9500 2500	Major Town	-	-	As Records 98, 99 and 105.
102	R	Gilberd School, Colchester	TL 9500 2500	Major Town	-	-	As Record 101.
121	R	Baldock BAL10	TL 2500 3400	Small town	-	-	As records 119 and 121.
122	R	Somerton	TL	?Industrial	-	-	Murphy, P., 1979, A Roman cereal deposit;

Record	Period	Name	NGR	Site type	High Status? (and other relevant description)	Ritual or ceremonial?	Bibliographic references
			8110 5230	(pottery)			<i>Somerton, Suffolk.</i> Ancient Monuments Laboratory Report (Old Series) 2949
130	R	Springfield Lyons	TL 7360 0810	Settlement periphery	-	-	As record 129.
152	R	Strood Hall	TL 6009 2168	complex rural settlement	-	-	As records 145-151.
158	R	West Fen Road, Ely	TL 5290 8080	Complex rural settlement	-	-	As Record 157.
198	R	Eye Quarry, Peterborough	TF 3430 0240	?Industrial (salt)	-	-	Roberts, K., 2004, Environmental bulk samples. In: Patten, R. <i>Bronze Age and Romano British Activity</i> <i>at Eye Quarry, Peterborough</i> . Cambridge
199	R	Eye Quarry, Peterborough	TF 3430 0240	Field system	-	-	Archaeological Unit Unpublished Report 633, 74- 80
205	R	Hinxton Quarry	TL 4875 4690	Complex rural settlement	-	-	Stevens, C., 1998, The bulk environmental samples. In: Mortimer, R. and Evans, C. Archaeological Excavation at Hinxton Quarry, Cambridgeshire, 1995 - The North Field -I. Cambridge Archaeological Unit Unpublished Report 168, 17- 20
235	R	Rectory Farm, Godmanchester (site 432)	TL 2460 7030	Burial	Villa'	Cremation cemetery	As Records 234 and 236.

Table A1.3. Unquantified records.

Record	Period	Site Name	NGR	Site type	Bibliographic references
1001	MR	Heath Farm, Postwick	TG 2860 0930	Industrial (pottery)	Murphy, P., 2003, Charred plant remains. In: Bates, s. and Lyons, A. <i>The Excavation of Romano-British Pottery Kilns at Ellingham, Postwick and Two Mile Bottom, Norfolk,</i>
1002	LR	Two Mile Bottom	TL 8530 8680	Industrial (pottery)	1995-7. East Anglian Archaeology Occasional Paper 13. Gressenhall: Norfolk Musums Service,p. 54 (Heath Farm)pp. 91-92 (Two Mile Bottom)
1004	ER	Stowmarket kiln site	TM 0546 5892	Industrial (pottery)	Murphy, P. In: Plouviez, J., 1989, A Romano-British Pottery Kiln at Stowmarket, Suffolk. <i>Proceedings of the Suffolk Institute of Archaeology and History</i> 37, 1-12
1007	LR	Watersmeet	TL 2387 7138	Burial	Fryer, V., 2006, Environmental Samples. In: Nicholson, K. A late Roman cemetery at Watersmeet, Millcommon, Huntingdon, <i>Proceedings of the Cambridge Antiquarian Society</i> XCV, 82
1008	EIA	RAF Lakenheath	TL 7237 7996	Isolated features	Fryer, V., 2005, Plant macrofossils. In: Craven, J. <i>New Access Control, Gate 2, RAF Lakenheath. A report on the Archaeological Excavations 2002</i> . Suffolk County Council Archaeology Service Unpublished Report 2005/27.
1009	EIA	Chalkstone Way	TL 6837 5460	Settlement periphery	Fryer, V., 2007, Plant macrofossils. In Craven, J. Land off Chalkstone Way, Haverhill. A report on the archaeological excavations 2006. Suffolk County Council Archaeology Service Unpublished Report 2007/87 (HVH 059)
1012	MR	31 Tunbridge Lane, Bottisham	TL 5442 6092	Settlement periphery	Fryer, V., 2008, Environmental remains. In: Kenney, S. Roman Settlement at No. 31. Tunbridge Lane, Bottisham, Cambridgeshire: Archaeological Excavation Report.
1013	LR	31 Tunbridge Lane, Bottisham	TL5442 6092	Settlement periphery	Oxford Archaeology East Unpublished Report 886
2001	MIA	Maxey	TF 1500 0600	Settlement periphery	Green, F.J., 1985, Evidence for domestic cereal use at Maxey. In: Pryor F, French C, Crowther D, Gurney D, Simpson G and Taylor M. <i>The Fenland Project, No. 1:</i>
2002	LIA	Maxey	TF 1500 0600	Settlement, unclear	Archaeology and environment in the Lower Welland Valley. 1. East Anglian Archaeology 27(1), 224-232 (methodology 41-2)
2003	ER	Maxey	TF 1500 0600	Settlement, unclear	
2004	MR	Maxey	TF 1500 0600	Complex rural settlement	
2005	LR	Maxey	TF 1500 0600	Settlement periphery	
2008	LIA	Orsett 'Cock' Enclosure	TQ 6534 8136	Discrete enclosed settlement	Murphy, P., 1998, Carbonised plant remains. In: Carter G A. 1998. <i>Excavations at the Orsett 'Cock' Enclosure, Essex, 1976.</i> East Anglian Archaeology 86. Chelmsford: Essex

Record	Period	Site Name	NGR	Site type	Bibliographic references
2010	ER	Orsett 'Cock' Enclosure	TQ 6534 8136	Discrete enclosed settlement	County Council, 110, 112.
2011	EIA	Lingwood Wells	TL 5415 7115	Settlement, unclear	Murphy, P., 2000, Plant macrofossils. In: Evans, C., The Lingwood Wells: waterlogged remains from a first millennium BC settlement at Cottenham, Cambridgeshire. <i>Proceedings of the Cambridge Antiquarian Society</i> LXXXVII, 21-22
2012	MIA	Little Waltham	TL 7050 1260	Open settlement	Wilson, D.G., 1978, Appendix I. Iron Age and Roman plant remains. In: Drury P J. <i>Excavations at Little Waltham 1970-71</i> . London: Council for British Archaeology Research Report 26, 142-145
2014	MR	Dairy Farm, Ellingham	TM 3785 9155	Industrial (pottery)	As records 1001 and 1002, pp. 13, 26.
2015	EIA	Topler's Hill	TL 2164 4035	Complex rural settlement	Pelling, R., 2004, Charred plant remains. In: Luke, M. The investigation of an Early- Middle Iron Age settlement and field system at Topler's Hill, <i>Bedfordshire Archaeology</i> 25, 44-45
2016	ER	Queensway Hall	TL 0190 2280	Complex rural settlement	Hutchins, E., 2004, Charred plant remains. In: Mudd, A., Early Roman occupation on the site of the former Queensway Hall, Dunstable, <i>Bedfordshire Archaeology</i> 25, 154
2017	LIA	Norse Road	TL 0910 5150	?Ceremonial (Unoccupied enclosure)	Edgeworth, M., 2001, An Iron Age and Romano-British Farmstead at Norse Road, Bedford, <i>Befordshire Archaeology</i> 24, 1-19
2018	MIA	Flitwick	TL 0363 3568	Discrete enclosed settlement	Moffett, L., 1999, Charred macroscopic plant remains. In: Luke, M. An enclosed pre- 'Belgic' farmstead with later occupation at Hinksley Road, Flitwick, <i>Bedfordshire</i>
2019	MR	Flitwick	TL 0363 3568	Field system	Archaeology 23, 43-87
2020	MR	Cedar Close, March	TL 4220 9730	Industrial (salt)	Fryer, V., 2008, The Environmental remains. In: Lane, T., Morris, E., and Peachey, M. Excavations on a Roman saltmaking site at Cedar Close, March, Cambridgeshire, <i>Proceedings of the Cambridge Antiquarian Society</i> XCVII, 102-103
2021	MIA	Hurst Lane Reservoir	TL 5260 8140	Complex rural settlement	Stevens, C., 2007, Environmental Remains. In: Evans, C., Knight, M., Webley, L. Iron Age Settlement and Romanisation on the Isle of Ely: the Hurst Lane Reservoir Site. Cambridge Archaeological Unit Unpublished Report.
2022	ER	Parson Drove	TF 3740 0846	Industrial (salt)	Stevens, C., 2006, Charred plant remains and charcoal. In: Andrews, P. Romano-British and medieval saltmaking and settlement in Parson Drove, Cambridgeshire, <i>Proceedings</i> of the Cambridge Antiquarian Society XCV, 40
2024	EIA	Wandlebury	TL 9490 5343	Open settlement	Cyganowski, C. 2004 The macro-botanical remains from a selection of the
2025	LIA	Wandlebury	TL 9490 5343	Hillfort	interior/exterior pits. In: French, C. Evaluation survey and excavation at Wandelbury Ringwork, Cambridgeshire, 1994-7, <i>Proceedings of the Cambridge Antiquarian Society</i> XCIII, 15-66
2026	EIA	Gold Lane, Biddenham	TL 0207 5035	Discrete enclosed settlement	Scaife, R., 2004, Plant Macrofossils. In: Dawson, M. Archaeology in the Bedford Region. Oxford: British Archaeological Reports (British Series) 373, 267-274

Record	Period	Site Name	NGR	Site type	Bibliographic references
2028	ER	Star and Fleece	TL 8646 1912	Industrial (quarrying)	Fryer, V., 2001, Charred Plant Macrofossils. In: Fell, D. and Humphrey, R. The excavation of an Iron Age and Roman site at the Star and Fleece Hotel, Kelvedon, <i>Essex Archaeology and History</i> 32, 126 -127
2029	EIA	Fox Hall Farm	TQ 8860 8800	Open settlement	Fryer, V., 1995, Environmental material. In: Ecclestone, J. Early Iron age settlement at Southend: excavations at Fox Hall Farm, <i>Essex Archaeology and History</i> 26, 37
2032	MIA	Silifield	TL 1072 9926	Industrial (various)	Fryer, V., and Murphy, M., 1996, Plant macrofossils and molluscs. In: Ashwin, T. Excavation of an Iron Age site at Silifield, Wymondham, Norfolk, 1992-3, <i>Norfolk Archaeology</i> XLII (III), 272
2033	MIA	Lynford Quarry	TL 8250 9480	Settlement, unclear	Fryer, V., 1997 Plant macrofossils. In: Birks, C. and Robertson, D. Prehistoric settlement at Stanford: excavations at Lynford Quarry, Norfolk 2000-2001, <i>Norfolk Archaeology</i> XLIV (IV), 693
2034	MR	School Lane, Welwyn	2290 1605	Complex rural settlement	Fryer, V., 2008, The environmental samples. In Grassam, A. with Nicholson, K. Roman features at 17-19 School Lane, Welwyn, Hertfordshire, <i>Hertfordshire Archaeology and History</i> 15, 63-70
2035	LR	Football Close, Baldock	TL 2245 3415	Small town	Fryer, V., 2008 Environmental Samples from F2011 and F2046. In Nicholson, K. Excavations at Football Close, Baldock, Hertfordshire, <i>Hertfordshire Archaeology and History</i> 15, 79-87
2036	MR	Glaxo, Ware	TL 3529 1449	Small town	Fryer, V., 2005, Plant macrofossils and other remains. In O'Brien, L. with Roberts, B. Excavations on Roman Ermine Street at the new Restaurant Facility, GlaxoSmithKlein, Ware, Hertfordshire Archaeology 14, 3-39
2042	EIA	Redgate Hill, Hunstanton	TF 6820 3940	Settlement, unclear	Murphy, P., 1986, Summary environmental report, in Wymer, J. Early Iron Age pottery and a triangular loom-weight from Redgate Hill, Hunstanton, <i>Norfolk Archaeology</i> 39(3), 294-296
2043	EIA	Orsett	TQ 6530 8060	Open settlement	Hubbard R.N.L.B. 1978. Carbonised seeds. In: Hedges, J. and Buckley, D. Excavations at a Neolithic causewayed enclosure, Orsett, Essex, 1975, <i>Proceedings of the Prehistoric Society</i> 44. 294-5.
2045	ER	Gorhambury	TL 1130 0780	Complex rural settlement	Wainwright A., 1990, The mollusc and seed remains. In: Neal D.S., Wardle, A. and Hunn, J. <i>Excavation of the Iron Age, Roman and Medieval settlement at Gorhambury, St</i>
2046	MR	Gorhambury	TL 1130 0780	Complex rural settlement	Albans. London: English Heritage Archaeological Report 14, 213-8.
2047	EIA	Totternhoe	SP 9800 2222	Settlement, unclear	Percival, J. in Hawkes, C.F.C., 1940, A site of the Late Bronze Age-Early Iron Age Transition at Totternhoe, Bedfordshire, <i>Antiquities Journal</i> 20, 487-491
2048	MIA	WIS Site 1	TL 1188 4875	Discrete enclosed settlement	Carruthers, W. nd., Charred, mineralised and waterlogged plant remains report, WIS site 1. Report written for Albion archaeology.
2049	EIA	Lackford Bridge	TL 5791 7310	Discrete enclosed settlement	Murphy, P., 2007, Carbonised plant macrofossils. In: Tipper, J., <i>West Stow Lackford</i> <i>Bridge Quarry (WSW030): a report on a rescue excavation undertaken in 1978-9.</i> Suffolk County Council Archaeology Service Unpublished Report 2007/039

Record	Period	Site Name	NGR	Site type	Bibliographic references
2050	EIA	Cromer Road,	TG 2500 3210	Settlement,	Rackham, J. and Martin, G., n.d., Environmental Archaeology. In Cater, D. and Wilson,
		Antingham		unclear	T. in prep. Bacton to Kings Lynn Pipeline. East Anglian Archaeology Monograph, in
2051	LIA	Green lane,	TG 0463 2389	Settlement,	prep.
		Themelthorpe		unclear	
2052	ER	New Hall,	TL 4406 5951	Complex rural	Fryer, V., and Murphy, P., 1996, Macrofossils. In: Evans, C. New Hall, Cambridge:
		Cambridge		settlement	prehistoric land-use and Roman Hinterland investigations - The 1994 excavations.
					Cambridge Archaeological Unit Unpublished Report 190. 125-128.
2054	LIA	Fen Farm	TM 0538 2369	Discrete enclosed	Fryer, V., 2008, An assessment of the charred plant macrofossils and other remains form
				settlement	Fen Farm, Elmstead Market, Essex (ESFF 07). Unpublished report prepared for Essex
					County Council Field Archaeology Unit.
2055	MR	Mackeyre End,	TL 1620 1635	Complex rural	Fryer, V., 2003, Charred plant macrofossils and other remains from Mackeyre End,
		Wheathampstead		settlement	Wheathampstead, Hertfordshire (MED 02): an initial statement of sample content.
	1.05	~		~	Unpublished report prepared for St Albans Museums Service.
2056	MR	Cambridge	TL 0756 4807	Complex rural	Fryer, V., 2006, Plant macrofossils and snails. In: Carlyle, S. Archaeological excavation
2057	TD	Road, Bedford	FL 0756 4007	settlement	on land south of Cambridge Road, Bedford, November 2004 to June 2005: Assessment
2057	LR	Cambridge	TL 0756 4807	Complex rural	<i>report and updated project design</i> . Northamptonshire Archaeology Unpublished Report
20.50	* * 4	Road, Bedford		settlement	06/93 V2, 22-24.
2058	LIA	Bulls Lodge,	TL 7411 1149	Unoccupied	Fryer, V., 2003, Charred plant macrofossils and other remains from Bulls Lodge
		Boreham Quarry		enclosure	Quarry, Boreham, Essex (BOAF 03). Unpublished report prepared for Essex County
2050	2.67.4	D1 C 11 X 11	TN (0520 0260		Council Field Archaeology Unit.
2059	MIA	Bloffield Hall,	TM 0538 2368	Complex rural	Fryer, V., 2000, Plant macrofossils and other remains from Iron Age and Medieval
		I rimley St Mary		settlement	deposits at Biofield, Suffork (1 Y Y 026 and 1 Y Y 027): an assessment. In: Sommers, M.
					Archaeological Assessment report: Trinity 2000 development, Biofield Hall, Trimley St
20(0	MIA	Liberter Villere	TI 7256 7096	Inclosed frations	Mary. Suffork County Council Archaeology Service Unpublished Report 2000/46.
2000	MIA	Elberty village	TL /230 /980	Isolated leatures	Fiyer, v., 2007, An assessment of the charred plant macrojossis and other remains from the PAE Liberty Village, PAE Lakerheath Suffelk (EPL 147) Uppublished report
		East			propagad for Suffolk County Council Archaeology Service
2061	LIA	Handford Road	TM 1540 4450	Complex rural	Fryer V 2005 An assessment of the charred plant macrofossils and other remains from
2001	2	Inswich	1111 10 10 1100	settlement	Handford Road, Inswich, Suffolk (IPS 280). In: Boulter, S., Handford Road, Inswich
2062	MR	Handford Road.	TM 1540 4450	Complex rural	(IPS 280): Archaeological Assessment Report. Suffolk County Council Archaeology
		Irpswich		settlement	Service Report 2004/87
2065	LR	RAF	TL 7300 8000	Complex rural	Fryer, V., 2006, An assessment of the charred plant macrofossils and other remains from
		Lakenheath.		settlement	a Late Roman pit at the material supply facility at RAF Lakenheath, Suffolk (LKH 222).
		Material supply			Unpublished report prepared for Suffolk County Council Archaeology Service.
		facility			
2066	EIA	Flixton Quarry	TM 3037 8616	Open settlement	Fryer, V., 2005, An assessment of the charred plant macrofossils and other remains from

Record	Period	Site Name	NGR	Site type	Bibliographic references
2067	LIA	Flixton Quarry	TM 3037 8616	Complex rural	site FLN 057, Flixton Park Quarry, Suffolk.
20(0			TD (20 40 0 C20	settlement	Fryer, V., 2005, An assessment of the charred plant macrofossils and other remains from
2068	MK	Flixton Quarry	1 M 3048 8629	complex rural	Sile FLN 039, Flixion Park Quarry, Suffork. Fryer V 2005 An assessment of the charred plant macrofossils and other remains from
				settlement	site FLN 062. Flixton Park Quarry, Suffolk.
					Unpublished reports prepared for Suffolk County Council Archaeology Service.
2069	MR	Church Street, St	TL 2230 7254	Complex rural	Pelling, R, 2008, AS 1079: Land at Church Street, St. Neots, Cambridgeshire: The
		Neots		settlement	Archaeobotanical Samples. Unpublished report prepared for Archaeological Solutions
2071	MIA	Sawtry	TL 1760 8337	Open settlement	Fryer V 2008 Plant Macrofossils In: Newton A A S Excavation of land at Black
2072	T T A	Sawtry	TL 1760 8337	Field system	Horse Farm, Old North Road, Sawtry, Cambridgeshire. Research Archive Report.
2072		Sawiry	TL 1700 8337		Archaeological Solutions Unpublished Report 2999
2073	ER	Sawtry	TL 1760 8337	Isolated features	
2074	LR	Pierrefitte Way,	TL 7540 2290	Small town	Fryer, V., 2007, Charred plant macrofossils and other remains. In Newton, A.A.S.
		Braintree			Excavation at Pierrefitte Way, Brainfree, Essex: Research archive Report.
2075	EIA	Lodge Farm	TG 1650 1030	Settlement	Fryer V 2007 The environmental samples In Woolhouse T A Late Bronze Age
2075	2	Costessy	1010001000	unclear	Hoard and Early Iron Age Boundary at Lodge Farm, Costessy: Grey Report.
					Archaeological Solutions Unpublished Report 14
2076	MR	Old Baptist	TL 3139 6871	Field system 2	Fryer, V., 2004, The plant macrofossils and other remains. In: Nicholson, K. Land
		Chapel,			Adjacent to the Old Baptist Chapel, Fenstanton, Cambridgeshire. Archaeological
2077	MD	Fenstanton	TM 6135 1080	Buriol	Solutions Unpublished Report.
2011	WIK	Quarry	11101351900	Duilai	Fingringhoe Ballast Quarry, Colchester, Essex (FIBO 05). Unpublished report prepared
		2 million			for Archaeological Solutions Ltd.
2078	LIA	Cedars Park,	TM 0614 5876	Discrete enclosed	Fryer, V., in prep., Charred plant macrofossils and other remains. In: Nicholson, K. A
		Stowmarket		settlement	Late Iron Age and Romano-British Farmstead t Cedars Park, Stowmarket, Suffolk.
2079	ER	Cedars Park,	TM 0614 5876	Discrete enclosed	Archaeological Solutions report 2088. East Anglian Archaeology.
2080	MD	Stowmarket	TM 0614 5876	Settlement	
2000	WIK	Stowmarket	1110014 3870	settlement	
2082	LR	West End,	TL 4613 7552	Field system	Fryer, V. 2005, Plant macrofossils. In: Grassam, A. Roman Boundaries and a deposit of
		Haddenham			multiple animal carcasses at West End, Haddenham, Cambridgeshire: An
					Archaeological Excavation, Final Report. Archaeological Solutions Unpublished
2002			TTL (200 21/5	0 11 /	Report 1747.
2083	MK	High Street, Great Dunmour	1L 6300 2165	Small town	Fryer, v. 2007, Charred plant macrotossils and other remains In: Sparrow, P. 83 High
2082	LR MR	Stowmarket West End, Haddenham High Street, Great Dunmow	TL 4613 7552 TL 6300 2165	settlement Field system Small town	 Fryer, V. 2005, Plant macrofossils. In: Grassam, A. Roman Boundaries and a deposit of multiple animal carcasses at West End, Haddenham, Cambridgeshire: An Archaeological Excavation, Final Report. Archaeological Solutions Unpublished Report 1747. Fryer, V. 2007, Charred plant macrofossils and other remains In: Sparrow, P. 83 High Street, Great Dunmow, Essex: research Archive Report. Archaeological Solutions

Record	Period	Site Name	NGR	Site type	Bibliographic references
					Unpublished Report 3000, 20-21 and 28
2085	LIA	Barkers Tanks, Takeley	TL 5580 2120	Field system	Fryer, V., 2003, Charred plant macrofossils and other remains. In: Roberts, B. Land to the south of the A120, Takeley, Essex (Barkers Tanks site): an Archaeological Excavation Interim Site Narrative. Hertfordshite Archaeological Trust Unpublished Report 1301.
2086	MIA	Unit 5, Papworth Everard	TL 2910 6240	Discrete enclosed settlement	Fryer, V., 2007, The environmental samples. In: Newton, A.A.S. <i>The Archaeological Investigation of land off Ermine Street (Unit 5), Papworth Everard, Cambridgeshire</i> . Archaeological Solutions Unpublished Report.
2087	EIA	Turners Hall farm	TL 1600 1640	Isolated features	Fryer, V., n.d., Environmental samples. In McDonald, T. and Pearson, A. <i>Two Rural Romano-British settlements in Hertfordshire: Turners Hall Farm and Sandridge</i> .
2088	ER	Turners Hall farm	TL 1600 1640	Complex rural settlement	Hertfordshire Archaeological Trust (Archaeological Solutions) Unpublished Report.
2089	ER	Sandridge	TL 1850 1030	Complex rural settlement	
2090	MIA	Stonald Field (APS)	TL 3636 9792	Discrete enclosed settlement	Fryer, V., 2008, An assessment of the charred plant macrofossils and other remains from Stonald Field, Whittlesey (WSF 07). In: Murphy, K., <i>Archaeological excavation on land</i> <i>at Stonald Field, Whittlesey, Cambridgeshire (WSF 07).</i> Archaeological Project Services Unpublished Report 8808. Appendix 5
2091	MIA	Wimblington Road, March	TL 4150 9490	Discrete enclosed settlement	Fryer, V., in prep., Charred plant macrofossils and other remains. In: Atkins, R. (ed.) Wimblinton Road. In: Wallis, H. <i>Roman Cambridgeshire</i> (working title). East Anglian
2092	LIA	Wimblington Road, March	TL 4150 9490	Discrete enclosed settlement	Archaeology.
2093	ER	Wimblington Road, March	TL 4150 9490	Field system	
2094	MR	Wimblington Road, March	TL 4150 9490	Settlement periphery	
2095	ER	Great Notley	TL 7366 2171	Discrete enclosed settlement	Fryer, V., 2006, <i>An assessment of the charred plant macrofossils and other remains from Great Notley Business Park, Essx (GNBP 06).</i> Unpublished Report prepared for Colchester Archaeological Trust.
2096	ER	Frog's Hall	TL 5850 2260	Settlement periphery	Fryer, V., 2006, An assessment of the charred plant macrofossils and other remains from Frog's Hall, Takeley, Essex (TAFH 02). Unpublished report prepared for Essex County Council Field Archaeology Unit.
2097	LIA	Silver St Godmanchester	TL 2455 6970	Unoccupied enclosure	Fryer, V., 2009, The environmental data. In : Cope-Faulkner, P. <i>Excavation at Wigmore farm, Silver Street, Godmanchester, Cambridgeshire (GMSS 07): Assessment of the Archaeological Remains and Updated Project Design.</i> APS Unpublished Report 17/09
2098	EIA	A4146 Stoke	SP 8966 2403	Open settlement	Fryer, V., 2007, An assessment of the charred plant macrofossils and other remains from

Record	Period	Site Name	NGR	Site type	Bibliographic references
		Hammond			the A4146 Stoke Hammond and Linslade Western bypass,
2000	EIA	Linslade bypass	TI 0430 2270	Isolated fosturas	<i>Bedjordsnire/Buckinghamsnire</i> . Unpublished report prepared for Network Archaeology.
2099	LIA	Colchester	TL 9430 2270	Isolated leatures	Excavations at Abbotstone Field, Bell House Pit, Tarmac Colchester Quarry, Warren
2100	MIA	Abbotstone,	TL 9430 2270	Complex rural	lane, Stanway, Colchester, Essex 1999-2001. Colchester Archaeological Trust
		Colchester		settlement	Unpublished Report 312, 62-67.
2101	ER	Abbotstone,	TL 9430 2270	Discrete enclosed	
		Colchester		settlement	
2102	MR	Abbotstone,	TL 9430 2270	Complex rural	
		Colchester		settlement	
2103	LIA	Alma Road,	TF 1900 0050	Settlement	Fryer, V., 2006, Charred plant macrofossils and other remains. In: Mudd, A. and Upson-
		Peterborough		periphery	Smith, T., Middle Iron Age and Late Iron Age/Early Roman enclosures at the former
2104	ER	Birch Quarry	TL 9250 1920	Field system	Fryer, V., 2007, Environmental Remains. In: Benfield, S., Archaeological investigations
2105	MR	Birch Quarry	TL 9250 1920	Field system	at Birch Pit western extension, Maldon Road, Colchester, Essex 2004 and 2005-06.
2106	LIA	Birch Quarry	TL 9250 1920	Field system	Colchester Archaeological Trust Report 383.
2108	EIA	Colchester	TL 9960 2440	Burial	Fryer, V., 2004, Charred plant macrofossils and other remains form Iron Age and
		Garrison			Roman Contexts at Colchester Garrison, Essex (GAR 2003.210): An Assessment.
2109	MIA	Colchester	TL 9960 2440	Discrete enclosed	Unpublished report prepared for Colchester Archaeological Trust.
		Garrison		settlement	
2110	LIA	Colchester	TL 9960 2440	Field system	
		Garrison			
2111	EIA	St Andrew's	TL 5930 7310	Settlement	Fryer, V., 2004, Charred Plant macrofossils and other remains. In: Atkins, R. <i>Iron Age</i>
		House, Soham		periphery	and Saxo-Norman to Post-Medieval Remains on Land off Clay Street, Soham,
					Cambridgeshire. Cambridge County Council Archaeological Field Unit Unpublished
2112	ER	Broadway	SP 7690 3961	Complex rural	Fryer V 2008 The environmental evidence In: Brown I Late Iron Age occupation
2112		Yaxley	51 7070 5701	settlement	and the emergence of a Roman farming settlement at Broadway Fields, Yaxley.
2113	MR	Broadway,	SP 7690 3961	Complex rural	Huntingdonshire. Northamptonshire Archaeology Unpublished Report 08/135.
		Yaxley		settlement	
2114	LR	Broadway,	SP 7690 3961	Field system 1	
		Yaxley			
2115	MR	Foxley Road,	TG 0259 2317	Field system 1	As Records 2050 and 2051.
		Foulsham			
2116	LIA	Bluntisham	TL 3690 7455	Settlement	Smith, W., n.d., Assessment of Charred Plant Remains from Beaker-Roman Period
				periphery	<i>Features at Bluntisham, Cambridgeshire.</i> University of Birmingham Environmental

Record	Period	Site Name	NGR	Site type	Bibliographic references
					Archaeology Report 120. Prepared for Northamptonshire Archaeology.
2117	MIA	East Winch	TF 6835 1516	Isolated features	Fryer, V., 2008, Charred plant macrofossils and other remains. In: Lally, M. and
2118	MR	East Winch	TF 6835 1516	Field system 1	Nicholson, K., Fosters End Drove, Blackborough End, East Winch, Norfolk: Research
2119	MR	East Winch	TF 6835 1516	Industrial (pottery)	150
2120	MIA	Thorley	TL 4700 2010	Open settlement	Fryer, V., and Murphy, P., in prep., Plant macrofossils. In: McDonald, T. and Last, J.
2121	LIA	Thorley	TL 4700 2010	Complex rural settlement	Thorley: a multi-period landscape in East Hertfordshire. East Anglian Archaeology.
2122	MR	Thorley	TL 4700 2010	Field system	
2123	MIA	Rivenhall Quarry	TL 8200 1200	Open settlement	Fryer, V., 2007, An assessment of the charred plant macrofossils and other remains from the Rivenhall Quarry Watching Brief (RHRA 01). Unpublished report prepared for Essex County Council Field Archaeology Unit.
2124	MIA	Hinxton genome Campus	TL 4980 4460	Isolated features	Fryer, V., 2007, Macrobotanical Remains from HIN GC 02. Unpblished report prepared for Oxford Archaeology East.
2125	LIA	Hinxton genome Campus	TL 4980 4460	Complex rural settlement	
2128	MR	A505 Baldock Bypass	TL 2630 3450	Field system 1	Martin, G., 2009, Archaeobotanical remains. In: Phillips, M. <i>Four Millennia of Activity</i> <i>Along the A505 Baldock bypass, Hertfordshire</i> . East Anglian Archaeology 128. Bedford: Albion Archaeology, 122.

Arable Practice in the Iron Age and Roman East of England. Appendix 2. Ratio calculations for the identification of crops (Method 2) and characterisation of cropprocessing derivation.

Appendix 2. Ratio calculations for identification of crops (Method 2) and characterisation of crop-processing derivation

This appendix comprises two tables. Table A2.1 details the calculation of Ratios A-F (Section 4.2.2). For Ratios A-E it gives the number of items available for ratio calculation and the value calculated; these are then interpreted as high (H), low (L) or intermediate (I). Where low numbers of relevant items prevent ratio calculation, no value is given. Where values for Ratio E (1 and 2) are contradictory, no interpretation is given. Where the second value for a ratio was 0 (e.g. 20 rachis nodes and no grains for Ratio B), a value of 1 was substituted to allow calculation. For Ratio F (plant macrofossils: litre of deposit) Table A2.1 gives the calculated value and an interpretation as dense (D) or sparse (S). Where unknown sample volume prevents calculation of Ratio F, no interpretation is given.

Table A2.2 repeats the interpretations of these values and combines them to give a characterisation of each sample (crop-processing derivatives by species). In this table, * denotes fine-sieving by-products resulting from the processing of previously sieved spikelets.

Abbreviations used in Tables A2.1 and A2.2:

L = low; H = high; I = intermediate; S = sparse; D = dense.

Arable Practice in the Iron Age and Roman East of England. Appendix 2. Ratio calculations for the identification of crops (Method 2) and characterisation of crop-processing derivation.

Table A2.1. Calculation of Ratios A-F.

]	Ratio A		Ratio B									Ratio C									Ratio D		Ratio E				Ratio F		
	cu	lm node grains	es:			r	achis n	nodes:	grains	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed so	eeds	Iten litr depo	ıs: es osit
le	A	all cerea	l d	Br	ead wh	eat	Barley			Rye			Con	Combined glume wheat			Spelt	-		Emmer		All weeds, all cereals combined			All weed seeds				All items, deposit volume	
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
51	99	0.00	L	0	-	-	0	-	-	0	-	-	111	0.12	L	111	0.12	L	0	-	-	119	0.20	L	20	0.25	0.25	L	13	S
56	52	0.00	L	0	-	-	0	-	-	0	-	-	55	0.06	L	55	0.06	L	0	-	-	63	0.21	L	11	0.38	0.38	L	7	S
59	169	0.00	L	0	-	-	0	-	-	0	-	-	179	0.06	L	179	0.06	L	0	-	-	184	0.09	L	15	0.67	0.36	L	19	S
76	32	0.00	L	0	-	-	0	-	-	0	-	-	37	0.16	L	37	0.16	L	0	-	-	55	0.72	Н	23	0.44	0.44	L	6	S
116	11	0.00	L	1	-	-	0	-	-	0	-	-	425	37.64	Н	409	409.00	Н	5	-	-	12	0.09	L	1	-	-	-	No Vol.	-
117	46	0.00	L	0	-	-	0	-	-	0	-	-	83	2.61	Н	37	37.00	Η	0	-	-	24	0.04	L	1	-	-	-	12	S
120	43	0.00	L	0	-	-	0	-	-	0	-	-	298	5.93	Н	241	241.00	Н	14	14.00	Η	70	0.63	Н	27	0.17	0.17	L	46	D
122	2	-	-	1	-	-	0	-	-	0	-	-	52	25.00	H	50	50.00	H	0	-	-	2	0.00	L	0	-	-	-	11	S
123	13	0.00	L	0	-	-	0	-	-	0	-	-	64	3.92	H	51	51.00	H	0	-	-	15	0.15	L	2	-	-	-	9	S
124	32	0.00	L	0	-	-	0	-	-	0	-	-	103	2.22	H	71	71.00	H	0	-	-	32	0.00	L	0	-	-	-	13	S
125	15	0.00	L	0	-	-	0	-	-	0	-	-	154	9.27	H	139	139.00	H	0	-	-	22	0.47	L	7	-	-	-	23	S
127	1 20	-	- T	0	-	-	0	-	-	0	-	-	64	63.00	H	03	63.00	H	0	-	-	1	0.00	L	0	- 0.71	- 0.71	- T	8	5
128	30	0.00	L	0	-	-	2	-	-	0	-	-	410	15.57	Н	3//	377.00	H	4	-	-	42	0.40	L	12	0.71	0.71	L	42	D
129	4	-	-	0	-	-	0	-	-	1	-	-	71	21.00	п	07	07.00	п	0	-	-	4	0.00	L	0	-		<u> </u>	24	5
121	8	-	-	0	-	-	0	-	-	0	-	-	230	40.00	п	40	148.00	п	0	-	-	2	0.38	L U	3	-	-	-	32	S S
131	3	-	-	0	-	-	0	-	-	0	-	-	50	49.00	н	49 57	49.00	н	0	-	-	3	2.00	Т	2	-	-	-	12	5
1/10	118	-	- T	0	-	-	118	-	T	0	-	-	0	19.00	11	0	57.00	11	0	-	-	4	0.00	I.	0	-	<u> </u>		10	5
149	110	0.00	L	0	-	-	110	0.0	L	0		-	0	-	-	0	-	-	0	-	-	110	0.00	L	0	-	<u> </u>	-	10	5
165	219	0.00	L	0	-	-	4	-	-	0	-	-	230	0.07	L	1	-	-	14	14.00	H	224	0.02	L	5	-	-	-	20	S
167	38	0.00	L	2	-	-	2	-	-	0	-	-	121	2.55	н	4/	47.00	н	38	38.00	н	08	0.79	н	30	0.20	0.20		15	5
109	201	0.00	L	2	-		27	-	- T	0	-	-	209	65.00	L U	3	-	- 11	3	-	- 11	299	0.49		98 29	0.23	0.23	L U	20	L C
1/2	0/	0.00	L	2	-	-	21	8		0	-	-	0.0	05.00	п	40	40.00	п	19	19.00	п	100	0.38	п	38	1.29	1.29	п	15	3
200	41	0.00	L	0	-	-	29	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	56	0.37	L	15	0.07	0.00	L	17	S
]	Ratio A					R	atio B	;							I	Ratio C						Ratio D			Rati	o E		Rati	o F
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	cul	m node grains	es:			r	achis r	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr dep	ns: es osit
ole	A	ll cerea ombine	ll dl	Br	read wh	eat]	Barley	7		Rye	I	Com	bined glu wheat	me		Spelt	I		Emmer	1	All	weeds, cereals ombined	all 1		All weed	d seeds	I	All ite depe volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
202	40	0.00	L	0	-	-	34	0.0 0	L	0	-	-	13	1.14	Ι	13	1.14	Ι	0	-	-	91	1.28	Н	51	0.76	0.28	L	10	S
203	42	0.00	L	0	-	-	28	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	74	0.76	Н	32	0.68	0.28	L	7	S
234	165	0.00	L	0	-	-	144	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	172	0.04	L	7	-	-	-	No Vol	-
235	219	0.00	L	0	-	-	209	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	236	0.08	L	17	2.40	0.70	-	No Vol	-
236	141	0.00	L	0	-	-	136	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	149	0.06	L	2	-	-	-	No Vol	-
240	13	0.00	T	0			1	0		0			215	15.54	н	120	120.00	н	82	82.00	н	82	5 31	ч	60	1.88	1.76	ч	143	D
257	14	0.00	L	0	-	-	0	-	-	0	-	-	67	3.79	Н	67	3.79	Н	0	-	-	16	0.14	L	2	-	-	-	No Vol	-
273	5	-	-	0	-	-	2	-	-	0		-	57	18.00	н	23	23.00	н	31	31.00	н	10	1.00	н	5	-	-		13	S
274	16	0.00	L	0	-	-	16	0.0	L	0	-	-	37	37.00	Н	12	12.00	Н	25	25.00	Н	23	0.44	L	7	-	-	-	8	S
275	29	0.00	L	0	-	-	1	-	-	0	-	-	51	0.83	Ι	0	-	-	23	23.00	Н	36	0.24	L	7	-	-	-	295	D
276	21	0.00	L	0	-	-	1	-	-	0	-	-	26	0.30	Ι	4	-	-	2	-	-	74	2.52	Н	53	0.71	0.71	L	11	S
283	37	0.00	L	0	-	-	10	0.0 0	L	0	-	-	52	0.92	I	18	18.00	Н	7	-	-	45	0.22	L	8	-	-	-	41	D
284	23	0.00	L	0	-	-	6	-	-	0	-	-	42	1.49	Ι	42	1.49	Ι	0	-	-	39	0.70	Н	16	1.29	1.29	Н	38	D
285	31	0.00	L	0	-	-	0	-	-	0	-	-	41	0.32	Ι	41	0.32	Ι	0	-	-	43	0.39	L	12	0.00	0.00	L	11	S
286	93	0.00	L	0	-	-	62	0.0 7	L	0	-	-	36	0.03	L	36	0.03	L	0	-	-	106	0.15	L	14	0.27	0.27	L	32	D
288	50	0.00	L	0	-	-	1	-	-	0	-	-	131	1.62	Н	75	75.00	Н	6	-	-	151	2.02	Н	101	0.33	0.29	L	47	D
305	252	0.00	L	2	-	-	3	-	-	0	-	-	27	27.00	Н	27	27.00	Н	0	-	-	280	0.11	L	28	1.15	0.17	L	62	D
307	62	0.00	L	0	-	-	12	0.0 0	L	0	-	-	52	0.04	L	0	-	-	52	0.04	L	71	0.15	L	9	-	-	-	1.5	S
312	119 8	0.00	L	3	-	-	193	0.0 1	L	0	-	-	402	402.00	Н	9	-	-	393	393.0 0	Н	234 2	0.95	Н	114 4	6.15	4.81	Н	343	D
313	184	0.00	L	0	-	-	436	0.0	L	0	1 <u>-</u>	- I	1792	0.27	I	34	34.00	н	349	349.0	н	298	0.62	н	114	2 5 5	2 51	н	421	D

]	Ratio A			Ratio B rachis nodes: grains									ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F		
	cul	m node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	ed seeds grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	1 1	Br	ead who	eat]	Barley			Rye	-	Com	bined glu wheat	me		Spelt			Emmer		All c	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
314	5 290	0.00	L	0	-	-	65	0	L	0	-	-	226	0.00	L	0	-	-	226	0	L	8 369	0.27	L	3 79	0.00	0.00	L	15	s
015	220	0.00					12	0		0			1404	0.00	- -		151.00		220	0.00		105	0.54		110	0.00	0.00		242	
315	807	0.00	L	1	-	-	13	0.4 3	н	0	-	-	1484	0.86	1	464	464.00	н	222	222.0 0	н	125 6	0.56	н	449	0.19	0.19	L	243	D
316	151 8	0.00	L	2	-	-	18	0.1 3	L	0	-	-	1502	1.01	Ι	0	-	-	0	-	-	116 5	0.53	Н	402	0.11	0.10	L	240	D
317	346	0.00	L	0	-	-	5	-	-	0	-	-	428	0.26	Ι	46	46.00	Н	41	41.00	Η	424	0.23	L	78	0.03	0.03	L	21	S
322	60	0.00	L	0	-	-	32	0.0 0	L	0	-	-	37	0.32	I	0	-	-	37	0.32	Ι	72	0.20	L	12	1.40	1.00	-	8	S
334	4	-	-	0	-	-	4	-	-	0	-	-	29	29.00	Н	6	-	-	23	23.00	Η	82	19.50	Н	78	77.00	2.25	Η	11	S
349	21	0.00	L	0	-	-	8	-	-	0	-	-	54	3.19	Н	13	0.00	L	14	14.00	Η	38	0.81	Н	17	0.42	0.21	L	8	S
357	6	-	1	0	-	-	4	-	-	0	-	-	52	25.00	Н	28	13.00	Н	24	24.00	Н	105	16.50	Н	99	7.67	0.07	L	16	S
364	19	0.00	L	7	-	-	0	-	-	0	-	-	908	46.79	H	908	46.79	H	0	-	-	65	2.42	H	46	24.00	7.33	Н	961	D
365	7	-	- T	3	-	-	0	-	-	0	-	-	286	39.86	H	286	39.86	H	0	-	-	13	0.86	H	6	-	-	-	295	D
367	12	0.00	L	0	-	-	0	-	-	0	-	-	107	4.10	н	107	4.10	н	0	-	-	13	0.19	L	4	-	-	-	28	D
368	34	0.00	L	1	-	_	0	-	_	0	-	-	441	11.97	Н	441	11.97	Н	0	-	_	38	0.12	L	4	-	-	-	95	D
369	6	-	-	0	-	-	0	-	-	0	-	-	239	38.83	Н	239	38.83	Н	0	-	-	6	-	-	0	-	-	-	48	D
371	144	0.00	L	5	-	-	55	0.2	L	0	-	-	479	3.87	Н	479	3.87	Н	0	-	-	159	0.10	L	15	1.14	0.88	-	55	D
372	136 5	0.00	L	0	-	-	262	0.0	L	0	-	-	2864	1.56	Н	2864	1.56	Н	0	-	-	154 5	0.13	L	180	2.09	2.09	Н	661	D
373	233	0.00	L	0	-	-	57	0.0 7	L	0	-	-	491	1.73	Н	491	1.73	Н	0	-	-	241	0.03	L	8	-	-	-	111	D
374	51	0.00	L	0	-	-	55	5.4 1	Н	0	-	-	2739	63.44	Н	2739	63.44	Н	0	-	-	124	1.43	Н	73	0.66	0.63	L	573	D
375	465	0.00	L	0	-	-	136	0.1 6	L	0	-	-	965	1.77	Н	965	1.77	Н	0	-	-	490	0.05	L	25	0.81	0.71	L	225	D
376	344	0.00	L	0	-	-	116	0.0	L	0	-	-	547	1.33	Ι	547	1.33	Ι	0	-	-	356	0.03	L	12	0.64	0.38	L	135	D

	I	Ratio A					R	latio B								F	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				w	eed seeds grains	5:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	ıl d	Br	ead wh	eat]	Barley			Rye	T	Com	bined glu wheat	me		Spelt	T		Emmer		All	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
377	66	0.00	L	0	-	-	25	0.2 5	Ι	0	-	-	793	16.11	Н	793	16.11	Н	0	-	-	80	0.21	L	14	1.00	1.00	-	166	D
378	400	0.00	L	0	-	-	125	0.2 1	Ι	0	-	-	1541	4.19	Н	1541	4.19	Н	0	-	-	472	0.18	L	72	3.00	1.74	Н	174	D
379	71	0.00	L	0	-	-	35	0.0 6	L	0	-	-	773	19.11	Н	773	19.11	Н	0	-	-	88	0.24	L	17	3.00	2.00	Н	83	D
380	14	0.00	L	0	-	-	14	0.0 0	L	0	-	-	1748	1748.0 0	Н	1748	1748.0 0	Н	0	-	-	23	0.64	Н	9	-	-	-	354	D
381	156	0.00	L	0	-	-	51	0.0 0	L	0	-	-	158	0.50	Ι	158	0.50	Ι	0	-	-	169	0.08	L	13	0.88	0.67	L	22	S
382	34	0.00	L	0	-	-	20	1.2 9	Н	0	-	-	1196	45.88	Н	1196	45.88	Н	0	-	-	54	0.59	Н	20	20.00	20.0 0	Н	618	D
383	18	0.00	L	0	-	-	6	-	-	0	-	-	1263	97.22	Н	1263	97.22	Н	0	-	-	45	1.50	Н	27	3.50	2.60	Н	130	D
384	515	0.00	L	0	-	-	0	-	-	0	-	-	555	0.08	L	555	0.08	L	0	-	-	515	0.00	L	0	-	-	Н	No Vol.	-
385	243	0.00	L	0	-	-	0	-	-	0	-	-	247	0.02	L	247	0.02	L	0	-	-	243	0.00	L	0	-	-	-	No Vol.	-
386	137	0.00	L	0	-	-	0	-	-	0	-	-	139	0.01	L	139	0.01	L	0	-	-	137	0.00	L	0	-	-	-	No Vol.	-
423	16	0.06	L	0	-	-	19	0.4 5	Н	0	-	-	66	23.63	Н	19	19.00	Н	44	44.00	Н	121	6.56	Н	105	10.60	8.67	Н	27	D
439	7	-	-	0	-	-	1	-	-	0	-	-	49	6.00	Н	0	-	-	49	6.00	Н	162	22.14	Н	155	10.63	3.04	Н	31	D
451	4	-	-	0	-	-	6	-	-	0	-	-	67	32.50	Н	14	14.00	Н	51	51.00	Н	397	98.25	Н	393	7.92	6.96	Н	67	D
452	10	0.00	L	0	-	-	0	-	-	0	-	-	94	8.40	Н	31	31.00	Н	53	53.00	Н	51	4.10	Η	41	1.00	0.91	-	79	S
454	5	-	-	0	-	-	0	-	-	0	-	-	54	9.80	Η	15	15.00	Η	34	34.00	Н	25	4.00	Н	20	1.22	0.82	-	11	S
457	16	0.00	L	0	-	-	2	-	-	0	-	-	100	6.35	Η	16	16.00	Н	53	53.00	Н	16	0.00	L	0	-	-	-	15	S
466	0	-	-	0	-	-	0	-	-	0	-	-	52	52.00	Η	9	-	-	43	43.00	Η	5	-	-	5	-	-	-	8	S
471	11	0.00	L	0	-	-	8	-	-	0	-	-	49	6.36	Н	5	-	-	37	37.00	Н	46	3.18	Н	35	35.00	17.0 0	Н	13	S
474	427	0.00	L	27	0.00	L	15	0.0	L	0	-	-	385	0.00	L	385	0.00	L	0	-	-	429	0.00	L	2	-	-	-	61	D

]	Ratio A					R	atio B								ŀ	Ratio C]	Ratio D			Ratio	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				we	ed seeds grains	5:	smal	l : large	weed s	eeds	Item litr depo	ıs: es osit
le	A	ll cerea ombine	1 1	Br	ead who	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer	-	All	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
475	533	0.00	L	0	No. of items 0 No. of items 0 No. of items 0 - 0 -							-	1810	2.43	Н	1810	2.43	Н	0	-	-	537	0.01	L	4	-	-	-	260	D
478	116	0.00	L	0	-	-	4	-	-	0	-	-	523	3.67	H	523	3.67	H	0	-	-	120	0.03	L	4	-	-	-	18	S
479	42	0.05	L	0	No. of items 0 No. of items 1 Value 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						-	-	50	0.25	I	50	0.25	I	0	-	-	64	0.60	H	24	0.76	0.58	L	5	S
484	19	0.00	L	0	No. of items						-	-	246	11.95	H	123	123.00	Н	0	-	-	49	1.58	H	30	1.36	1.36	H	15	S
485	67	0.02	L	0	-	-	0	-	-	0	-	-	706	9.70	H	706	9.70	H	0	-	-	162	1.45	H	96	3.43	3.43	H	73	D
486	45	0.00	L	0	No. of items No. of items - - - - - - - 0 - - 0 - - 0 - - 0 - 0 - 0 - 0 - - 0						-	-	538	10.96	H	538	10.96	Н	0	-	-	141	2.13	H	96	3.69	3.69	H	29	D
487	97	0.00	L	0	-	0	-	-	0	-	-	106	0.09	L	106	0.09	L	0	-	-	158	0.63	H	61	3.88	3.33	H	9	S	
488	19	0.00	L	0	-	-	0	-	-	0	-	-	71	2.74	н	71	2.74	Н	0	-	-	193	9.16	н	174	8.00	6.62	Н	No Vol.	-
501	0	-	-	2	-	-	3	-	-	0	-	-	65	65.00	Н	45	45.00	Н	20	20.00	Н	367	367.0 0	Н	367	8.58	0.36	-	4	S
546	513	0.00	L	0	-	-	595	0.1 7	L	0	-	-	0	-	-	0	-	-	0	-	-	765	0.49	L	252	13.82	3.75	Н	341	D
547	479	0.00	L	0	-	-	45	0.0	L	0	-	-	487	0.12	L	487	0.12	L	0	-	-	544	0.14	L	65	0.03	0.03	L	12	S
548	242	0.00	L	0	-	-	13	0.0	L	0	-	-	245	0.07	L	245	0.07	L	0	-	-	273	0.13	L	31	0.07	0.07	L	4	S
550	73	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	76	0.04	L	3	-	-	-	2	S
556	141	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	141 5	0.00	L	4	-	-	-	1347 6	D
557	920	0.00	L	0	-	-	10	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	924	0.00	L	4	-	-	-	No Vol	-
558	623	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	623	0.00	L	0	-	-	-	9585	D
559	463	0.00	L	0	-	-	12	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	465	0.00	L	2	-	-	-	No Vol	-
560	787	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	789	0.00	L	2	-	-	-	1052	D
561	661	0.00	L	0	-	-	8	-	-	0	-	-	0	-	-	0	-	-	0	-	-	662	0.00	L	1	-	-	-	1237	D
562	682	0.00	L	0	-	-	7	-	-	0	-	-	0	-	-	0	-	-	0	-	-	691	0.01	L	9	-	-	-	1063	D
563	129	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	130	0.00	L	6	-	-	-	2719	D

	I	Ratio A					R	latio B								I	Ratio C						Ratio D			Rati	o E		Ratio	o F
	cul	m node grains	s:			r	achis n	odes:	grains	8						glume	bases: gra	ins				w	eed seeds grains	s:	smal	l : large	weed s	eeds	Item litre depc	ıs: es osit
ole	A	ll cerea ombineo	1 1	Br	ead wh	eat]	Barley	,		Rye	1	Com	bined glu wheat	me		Spelt	I		Emmer	I	All	weeds, a cereals ombined	all 1		All weed	l seeds	1	All ite depo volu	ems, osit me
Sam	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
564	9	0.00	I	0			6			0			0			0			0			5	0.00	I	0				3337	
504	7	0.00	ь	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	6	0.00	L	,	-	-	_	5557	D
565	134 3	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	134 3	0.00	L	0	-	-	-	7259	D
566	770	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	774	0.01	L	4	-	-	-	6730	D
567	108 6	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	109 2	0.01	L	6	-	-	-	5200	D
568	193 9	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	193 9	0.00	L	0	-	-	-	No Vol.	-
569	272	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	275	0.01	L	3	-	-	-	529	D
570	224	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	224	0.00	L	0	-	-	-	No Vol.	-
571	274	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	276	0.01	L	2	-	-	-	40	D
572	469	0.00	L	0	-	-	3	-	-	0	-	-	468	0.00	L	468	0.00	L	0	-	-	470	0.00	L	1	-	-	-	1180 0	D
573	528	0.00	L	0	-	-	8	-	-	0	-	-	527	0.02	L	524	0.01	L	0	-	-	528	0.01	L	3	-	-	-	1655.	D
574	302	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	302	0.00	L	0	-	-	-	2013 3	D
575	951	0.00	L	0	-	-	4	-	-	0	-	-	953	0.01	L	953	0.01	L	0	-	-	958	0.01	L	7	-	-	-	255	D
576	816	0.00	L	0	-	-	13	0.0 0	L	0	-	-	808	0.01	L	808	0.01	L	0	-	-	818	0.00	L	2	-	-	-	548	D
577	101 4	0.00	L	0	-	-	8	-	-	0	-	-	1014	0.01	L	8	-	-	0	-	-	102 4	0.01	L	14	0.08	0.00	L	224	D
578	582	0.00	L	0	-	-	0	-	-	0	-	-	584	0.00	L	584	0.00	L	0	-	-	583	0.00	L	1	-	-	-	1950	D
579	764	0.00	L	0	-	-	3	-	-	0	-	-	0	-	-	0	-	-	0	-	-	766	0.00	L	2	-	-	-	709	D
580	203	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	203	0.00	L	0	-	-	-	102	D
581	102 7	0.00	L	0	-	-	18	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	102 8	0.00	L	1	-	-	-	373	D
588	41	0.00	L	0	-	-	17	0.0	L	0	-	-	27	0.18	L	3	-	-	0	-	-	53	0.33	L	13	12.00	12.0	Н	4	S

	1	Ratio A					R	atio B								I	Ratio C]	Ratio D			Ratio	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes: ;	grains	5						glume	bases: gra	ins				we	ed seeds grains	5:	smal	l : large	weed s	eeds	Iten litr den(ıs: es osit
le	A	ll cerea	l d	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
594	137	0.02	L	0	-	-	37	0.0 3	L	3	-	-	304	2.09	Н	304	2.09	Н	0	-	-	142 3	9.62	Н	128 9	4.26	1.32	Н	6	S
595	90	0.10	L	0	-	-	24	0.4 1	Н	0	-	-	512	6.87	Н	512	6.87	Н	0	-	-	198 0	23.15	Н	189 8	7.25	2.31	Н	14	S
596	23	0.15	L	0	-	-	3	-	-	3	-	-	309	18.31	Н	309	18.31	Н	0	-	-	166	82.30	Н	164	10.43	2.25	Н	11	S
607	97	0.00	L	69	0.00	L	5	-	-	0	-	-	57	1.48	Ι	57	1.48	Ι	0	-	-	292	2.01	Н	195	38.00	10.4	Н	326	D
623	13	0.08	L	0	-	-	0	-	-	0	-	-	98	7 17	н	98	7 17	Н	0	-	-	18	0.50	T	6	-	-		105	D
624	11	0.00	L	0	-	-	0	-	-	0	-	-	198	17.00	Н	198	17.00	Н	0	-	-	19	0.73	Н	8	-	-	-	206	D
625	6	-	-	0	-	-	0	-	-	0	-	-	181	29.17	Н	181	29.17	Н	0	-	-	9	0.50	Ι	3	-	-	-	184	D
626	6	-	-	0	-	-	0	-	-	0	-	-	174	28.00	Н	174	28.00	Η	0	-	-	10	0.67	Н	4	-	-	-	178	D
627	14	0.08	L	0	-	-	0	-	-	0	-	-	666	50.23	Н	666	50.23	Η	0	-	-	21	0.62	Н	8	-	-	-	675	D
628	27	0.00	L	0	-	-	0	-	-	0	-	-	82	2.04	Н	82	2.04	Н	0	-	-	29	0.07	L	2	-	-	-	84	D
629	12	0.00	L	0	-	-	0	-	-	0	-	-	70	4.83	H	70	4.83	H	0	-	-	14	0.17	L	2	-	-		72	D
630	18	0.00	L	0	-	-	0	-	-	0	-	-	105	4.83	H	105	4.83	H	0	-	-	21	0.17	L	3	-	-	-	108	D
631	5	-	- T	0	-	-	0	-	-	0	-	-	82	15.40	H	82	15.40	H	0	-	-	1	0.40	L	12	-	-	- T	84	D
634	05 05	0.00	L	0	-	-	0	-	-	0	-	-	240	0.29	п	240 5	0.29	п	13	-	- Н	40	0.55	L H	12	0.20	0.20	L	200	S
635	16	0.00	L	0	-	-	3	-	-	0	-	-	46	2.58	H	46	- 2.58	- H	0	-	-	143	7.19	Н	115	1.17	0.89	-	20	S
636	44	0.05	L	0	-	-	29	1.9	Н	0	-	-	63	0.96	I	63	0.96	I	0	-	-	127	2.02	Н	85	1.83	1.83	Н	16	S
637	110	0.02	T	0			0	6		0			108	0.06	T	0	-		0			341	2.34	н	230	2.41	2.14	н	87	D
638	34	0.02	L	0	-		6	-	-	0	-	-	100	5 39	H	190	5 39	- H	0	-	-	163	3.94	н	130	0.69	0.60	L	36	D
639	89	0.09	L	0	-	-	1	-	-	0	-	-	185	1.26	I	185	1.26	I	0	-	-	402	3.90	Н	320	0.01	0.16	L	46	D
640	13	0.00	L	0	-	-	0	-	-	0	-	-	63	3.85	Н	63	3.85	Н	0	-	-	18	0.38	L	5	-	-	-	3	S
641	88	0.05	L	0	-	-	0	-	-	0	-	-	616	6.33	Н	616	6.33	Н	0	-	-	97	0.15	L	13	1.60	1.60	Н	28	D
642	63	0.00	L	0	-	-	3	-	-	0	-	-	544	8.11	Н	544	8.11	Η	0	-	-	77	0.22	L	14	0.40	0.40	L	22	S
643	18	0.00	L	0	-	-	0	-	-	0	-	-	95	4.28	Η	72	3.00	Η	23	23.00	Η	23	0.28	L	5	-	-	-	4	S
645	20	0.05	L	0	-	-	0	-	-	0	-		94	3.95	н	94	3.95	Н	0	-	-	26	0.37	L	7	-	-	1 - 7	4	S

]	Ratio A					R	atio B								ŀ	Ratio C]	Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				we	ed seed grains	s:	smal	l : large	weed s	eeds	Item litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley	,		Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
646	0	-	-	0	-	-	0	-	-	0	-	-	44	44.00	Н	44	44.00	Н	0	-	-	6	-	-	6	-	-	-	2	F
647	9	-	L	0	-	-	0	-	-	0	-	-	105	12.13	H	105	12.13	H	0	-	-	28	2.50	H	20	4.00	4.00	H	7	S
651	185	0.00	L	0	-	-	4 102	0.0	- L	0	-	-	0	-	н -	0	-	н -	0	-	-	204	0.98	L	89 19	0.00	0.00	L	9	F S
654	229	0.00	L	0	-	-	193	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	232	0.01	L	3	-	-	-	No Vol	-
656	554	0.00	L	0	-	-	217	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	571	0.03	L	17	0.00	0.00	L	No Vol	-
657	147	0.00	L	0	-	-	8	-	-	0	-	-	0	-	-	0	-	-	0	-	-	151	0.03	L	4	-	-	-	No Vol	-
658	144	0.00	L	0	-	-	20	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	151	0.05	L	7	-	-	-	No Vol.	-
660	285	0.00	L	0	-	-	90	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	297	0.04	L	12	0.00	0.00	L	No Vol.	-
663	175	0.00	L	0	-	-	22	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	178	0.02	L	3	-	-	-	No Vol.	-
664	335	0.00	L	0	-	-	112	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	339	0.01	L	4	-	-	-	No Vol.	-
665	187	0.00	L	0	-	-	57	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	189	0.01	L	2	-	-	-	No Vol.	-
666	186	0.00	L	0	-	-	96	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	190	0.02	L	4	-	-	-	No Vol.	-
668	93	0.00	L	0	-	-	11	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	99	0.06	L	6	-	-	-	No Vol.	-
673	156	0.00	L	0	-	-	117	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	158	0.01	L	2	-	-	-	No Vol.	-
678	242	0.00	L	0	-	-	46	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	304	0.26	L	62	0.02	0.00	L	No Vol.	-
680	179 0	0.00	L	0	-	-	110	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	185 7	0.04	L	67	0.06	0.06	L	No Vol.	-

	I	Ratio A			Ratio B rachis nodes: grains											R	latio C						Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			r	achis n	odes:	grains	5						glume l	oases: gra	ins				w	eed seeds grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A co	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, a cereals ombined	all		All weed	l seeds		All it depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
684	70	0.00	L	0	-	-	5	-	-	0	-	-	0	-	-	0	-	-	0	-	-	73	0.04	L	3	-	-	-	No Vol.	-
693	120	0.00	L	0	-	-	12	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	121	0.01	L	1	-	-	-	No Vol	-
694	71	0.00	L	0	-	-	2	-	-	0	-	-	0	-	-	0	-	-	0	-	-	76	0.07	L	5	-	-	-	No Vol	-
718	108	0.00	L	13	0.00	L	228	0.0	L	0	-	-	750	0.04	L	597	0.05	L	153	0.00	L	119	0.11	L	117	0.36	0.29	L	41	D
719	1	0.00	L	12	0.00	L	1	-	-	0	-	-	2	-	-	2	-	-	0	-	-	78	5.50	Н	66	5.00	1.13	Н	2	S
720	207	0.00	L	31	0.00	L	1	-	-	0	-	-	232	0.33	Ι	57	57.00	Н	175	0.00	L	221	0.07	L	14	1.00	0.40	-	28	- D
721	185	0.00	L	11 7	0.00	L	0	-	-	3	-	-	1089	15.74	Η	1024	1024.0	Н	0	-	-	530	1.86	Н	345	0.24	0.23	L	155	D
722	213	0.00	L	15	0.00	L	10	-	-	0	-	-	1147	19.21	Н	1090	1090.0	Н	0	-	-	516	1.42	Н	303	0.62	0.57	L	161	D
727	70	0.04	L	0	-	-	0	-	-	0	-	-	71	0.06	L	71	0.06	L	0	-	-	71	0.06	L	4	-	-	-	8	S
728	163	0.00	L	12 9	0.00	L	0	-	-	0	-	-	36	0.06	L	2	-	-	0	-	-	164	0.01	L	1	-	-	-	17	S
729	120	0.00	L	0	-	-	15	0.0	L	0	-	-	1105	9.52	Η	1000	1000.0	Н	0	-	-	720	5.00	Н	600	0.14	0.14	L	43	D
730	0	-	-	0	-	-	0	-	-	0	-	-	126	126.00	Н	126	126.00	Н	0	-	-	14	14.00	Н	14	0.40	0.17	L	3	S
731	280	0.00	L	62	0.00	L	0	-	-	0	-	-	1418	5.51	Н	1200	1200.0 0	Н	0	-	-	735	1.63	Н	455	0.24	0.24	L	97	D
732	43	0.02	L	33	0.00	L	0	-	-	0	-	-	25	1.71	Н	16	16.00	Н	0	-	-	94	1.24	Н	52	1.17	1.08	Н	11	S
733	41	0.00	L	41	0.00	L	0	-	-	0	-	-	278	278.00	Н	278	278.00	Η	0	-	-	52	0.27	L	11	0.10	0.10	L	8	S
734	167	0.02	L	0	-	-	3	-	-	0	-	-	165	0.02	L	4	-	-	0	-	-	165	0.01	L	1	-	-	-	17	S
737	11	0.00	L	0	-	-	1	-	-	0	-	-	79	6.90	Н	79	6.90	Η	0	-	-	25	1.27	Н	14	1.80	1.33	Н	9	S
738	20	0.11	L	0	-	-	0	-	-	0	-	-	28	0.56	Ι	10	10.00	Η	0	-	-	72	3.00	Η	54	3.15	2.60	Н	8	S
741	46	0.00	L	1	-	-	0	-	-	0	-	-	76	0.65	Ι	30	30.00	Η	0	-	-	66	0.43	L	20	1.22	1.00	-	10	S
743	16	0.00	L	0	-	-	3	-	-	0	-	-	141	9.16	H	141	9.16	H	0	-	-	29	0.81	H	13	0.18	0.18	L	10	S
747	46	0.00	L	0	-	-	18	0.0 6	L	0	-	-	46	0.59	1	46	0.59	1	0	-	-	49	0.07	L	3	-	-	-	4	s

]	Ratio A			Ratio B rachis nodes: grains											I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ns: es osit
ole	A	ll cerea ombine	l d	Br	ead whe	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	d seeds	ľ	All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
748	44	0.00	L	0	-	-	5	-	- T	0	-	-	104	1.59	Н	104	1.59	H	0	-	-	49	0.11	L	5	-	-	- T	8	S
/49	138	0.00	L	0	Image: Non-organization Non-organi					0	-	-	327	1.95	н	327	1.95	н	0	-	-	170	0.23	L	32	0.07	0.07	L	13	5
751	83	0.00	L	0	-	-	19	0.0 0	L	0	-	-	70	0.09	L	70	0.09	L	0	-	-	88	0.06	L	5	-	-	-	6	S
752	57	0.00	L	0	-	-	13	0.0 0	L	0	-	-	121	1.74	Н	121	1.74	Н	0	-	-	65	0.14	L	8	-	-	-	9	S
753	171	0.00	L	0	-	-	22	0.0 0	L	0	-	-	313	1.10	Ι	313	1.10	Ι	0	-	-	183	0.07	L	12	0.09	0.09	L	12	S
754	100	0.00	L	0	-	-	23	0.0	L	0	-	-	172	1.23	Ι	172	1.23	Ι	0	-	-	118	0.18	L	18	0.38	0.38	L	14	S
755	114	0.00	L	0	-	-	15	0.0	L	0	-	-	1282	11.93	Н	1282	11.93	Н	0	-	-	136	0.19	L	22	0.05	0.05	L	88	D
756	125	0.00	L	0	-	-	8	-	-	0	-	-	853	6.31	Н	853	6.31	Н	0	-	-	145	0.16	L	20	0.00	0.00	L	59	D
757	39	0.00	L	0	-	-	0	-	-	0	-	-	228	4.85	Н	228	4.85	Н	0	-	-	53	0.36	L	14	0.27	0.27	L	16	S
758	167	0.00	L	0	-	-	47	0.0 2	L	0	-	-	366	2.03	Н	366	2.03	Н	0	-	-	193	0.16	L	26	0.04	0.04	L	44	D
759	243	0.00	L	36	0.00	L	78	0.0 4	L	0	-	-	347	1.63	Н	347	1.63	Η	0	-	-	417	0.72	Н	174	0.89	0.89	L	42	D
760	191	0.00	L	0	-	-	82	0.0	L	0	-	-	446	3.09	Н	446	3.09	Η	0	-	-	220	0.15	L	29	0.21	0.21	L	37	D
761	76	0.00	L	0	-	-	7	-	-	0	-	-	438	5.38	Н	438	5.38	Н	0	-	-	124	0.63	Н	48	0.07	0.07	L	33	D
762	264	0.00	L	0	-	-	83	0.0	L	0	-	-	906	4.01	Н	906	4.01	Η	0	-	-	333	0.26	L	69	0.15	0.15	L	106	D
763	68	0.00	L	0	-	-	14	0.0	L	0	-	-	109	1.02	Ι	109	1.02	Ι	0	-	-	86	0.26	L	18	0.38	0.38	L	14	S
764	107	0.00	L	0	-	-	18	0.0	L	0	-	-	712	6.97	Н	712	6.97	Н	0	-	-	195	0.82	Н	88	0.06	0.06	L	82	D
765	115	0.00	L	0	-	-	19	0.4	Н	0	-	-	910	7.95	Н	910	7.95	Н	0	-	-	196	0.70	Н	81	0.05	0.05	L	67	D
767	40	0.00	L	0	-	-	6	-	-	0	-	-	397	10.59	Н	397	10.59	Н	0	-	-	74	0.85	Н	34	0.03	0.03	L	29.	D

	1	Ratio A					R	latio B								ŀ	Ratio C]	Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ains				we	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ns: es osit
le	A	ll cerea mbine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	ime		Spelt	-		Emmer	-	All	weeds, cereals ombined	all 1		All weed	l seeds		All it depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
768	136	0.00	L	0	-	-	24	0.0 4	L	0	-	-	175	0.55	Ι	175	0.55	Ι	0	-	-	146	0.07	L	10	0.25	0.25	L	14	S
770	18	0.00	L	0	-	-	5	-	-	0	-	-	77	4.67	Н	77	4.67	Η	0	-	-	24	0.33	L	6	-	-	-	6	S
771	478	0.00	L	0	-	-	179	0.0 1	L	0	-	-	804	1.68	Н	804	1.68	Н	0	-	-	772	0.62	Н	294	0.05	0.05	L	85	D
775	107	0.00	L	0	-	-	17	0.3 0	I	0	-	-	557	4.95	Н	557	4.95	Н	0	-	-	139	0.30	L	32	0.00	0.00	L	40	D
776	76	0.00	L	0	-	-	19	0.0 0	L	0	-	-	99	0.74	Ι	99	0.74	Ι	0	-	-	101	0.33	L	25	0.47	0.47	L	10	S
777	72	0.00	L	0	-	-	16	0.0 7	L	0	-	-	335	4.85	Н	335	4.85	Н	0	-	-	122	0.69	Н	50	0.43	0.43	L	27	D
778	47	0.00	L	0	-	-	19	0.4 7	Н	0	-	-	721	20.00	Н	721	20.00	Н	0	-	-	61	0.30	L	14	0.56	0.56	L	50	D
779	80	0.00	L	0	-	-	16	0.1	L	0	-	-	559	7.45	Н	559	7.45	Н	0	-	-	101	0.26	L	21	0.91	0.91	L	40	D
780	28	0.00	L	0	-	-	4	-	-	0	-	-	51	1.04	Ι	51	1.04	Ι	0	-	-	32	0.14	L	4	-	-	-	4	S
782	30	0.00	L	0	-	-	7	-	-	0	-	-	97	3.07	Η	97	3.07	Η	0	-	-	38	0.27	L	8	-	-	-	4	S
783	148	0.00	L	0	-	-	24	0.4 0	Н	0	-	-	1650	11.63	Н	1650	11.63	Н	0	-	-	185	0.25	L	37	1.47	1.47	Н	57	D
784	114	0.02	L	0	-	-	32	0.0 7	L	0	-	-	810	8.91	Н	810	8.91	Н	0	-	-	143	0.28	L	31	0.41	0.41	L	18	S
786	46	0.00	L	0	-	-	8	-	-	0	-	-	340	7.88	Η	340	7.88	Н	0	-	-	65	0.41	L	19	0.19	0.19	L	24	S
797	44	0.00	L	0	-	-	9	-	-	0	-	-	55	0.58	Ι	55	0.58	Ι	0	-	-	45	0.02	L	1	-	-	-	4	S
798	282	0.00	L	0	-	-	290	0.0 4	L	0	-	-	0	-	-	0	-	-	0	-	-	291	0.04	L	10	0.67	0.67	L	20	S
804	13	0.00	L	0	-	-	3	-	-	0	-	-	47	3.79	Н	47	3.79	Н	0	-	-	15	0.15	L	2	-	-	-	3	S
805	18	0.00	L	0	-	-	7	-	-	0	-	-	54	3.82	Н	54	3.82	Η	0	-	-	23	0.28	L	5	-	-	-	4	S
806	25	0.04	L	0	-	-	8	-	-	0	-	-	419	25.95	H	419	25.95	Н	0	-	-	26	0.08	L	2	-	-	-	29	D
810	28	0.00	L	0	-	-	8	-	-	0	-	-	132	4.96	H	132	4.96	H	0	-	-	36	0.29	L	8	-	-	-	10	S
811	13	0.00	L	0	-	-	2	-	- T	0	-	-	/8	5.71	H	1/8	5.71	Н	0	-	-	22	0.69	H	9	-	-	-	9	S
015	20	0.00	L	U	-	-	14	0.0	L	U	-	-	42	2.00	п	42	2.00	п	0	-	-	34	0.21	L	0	-	-	-	0	3

]	Ratio A			Ratio B rachis nodes: grains										ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F	
	cul	lm node grains	es:		rachis nodes: Bread wheat Barley					5						glume	bases: gra	ains				w	eed seed grains	s:	smal	l : large	weed so	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea	1 1	Br	ead who	eat]	Barley			Rye		Com	bined glu wheat	ime		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
814	24	0.00	L	0	-	-	3	0	-	0	-	-	126	5.05	Н	126	5.05	Н	0	-	-	27	0.13	L	3	-	-	-	9	S
817	55	0.00	L	0	No. of items No. of items 0 - 0 0 - 0 0 - 2 - 2 - 0 - 2					0	-	-	47	0.73	Ι	27	0.00	L	0	-	-	40	0.14	L	5	-	-	-	6	S
819	26	0.00	L	0	No. of items No. of items 0 - 0 0 - - 0 - - 0 - - 0 - - 0 - - 0 - 2 0 - 2 0 - 2 0 - 2 0 - 2 0 - 0					0	-	-	70	1.93	Η	70	1.93	Η	0	-	-	35	0.35	L	9	-	-	-	8	S
823	376	0.00	L	0	-	-	76	0.0	L	0	-	-	1381	3.58	Н	1381	3.58	Η	0	-	-	494	0.31	L	118	0.53	0.53	L	53	D
824	24	0.04	L	0	-	-	14	0.7	Н	0	-	-	262	16.88	Н	262	16.88	Н	0	-	-	42	0.83	Н	19	1.71	1.38	Н	10	S
825	111	0.00	L	0	-	-	38	0.0	L	0	-	-	255	2.36	Н	255	2.36	Н	0	-	-	154	0.39	L	43	0.02	0.02	L	22	S
826	198	0.00	L	0	-	-	128	0.0	L	0	-	-	416	4.94	Н	416	4.94	Н	0	-	-	251	0.27	L	53	0.15	0.15	L	40	D
827	362	0.00	L	0	-	-	91	0.0	L	0	-	-	2666	8.73	Н	2666	8.73	Н	0	-	-	477	0.32	L	116	0.30	0.29	L	192	D
828	462	0.00	L	0	-	-	58	0.0	L	0	-	-	1836	3.55	Н	1836	3.55	Н	0	-	-	627	0.36	L	165	0.28	0.28	L	206	D
829	938	0.00	L	0	-	-	202	0.0	L	0	-	-	3665	3.98	Н	3665	3.98	Н	0	-	-	109 8	0.17	L	160	0.13	0.13	L	134	D
830	344	0.00	L	0	-	-	59	0.0	L	0	-	-	663	1.33	Ι	663	1.33	Ι	0	-	-	377	0.10	L	33	0.06	0.06	L	25	D
831	400	0.00	L	0	-	-	54	0.0 4	L	0	-	-	721	1.07	Ι	721	1.07	Ι	0	-	-	424	0.06	L	24	0.33	0.33	L	13	S
834	92	0.00	L	0	-	-	9	-	-	0	-	-	127	0.53	Ι	127	0.53	Ι	0	-	-	96	0.04	L	4	-	-	1	2	S
835	60	0.00	L	0	-	-	8	-	-	0	-	-	106	1.04	Ι	106	1.04	Ι	0	-	-	77	0.28	L	17	0.70	0.70	L	2	S
836	71	0.00	L	0	-	-	10	-	-	0	-	-	109	0.78	Ι	109	0.78	Ι	0	-	-	80	0.13	L	9	-	-	-	2	S
840	27	0.00	L	0	-	-	5	-	-	0	-	-	35	0.59	Ι	35	0.59	Ι	0	-	-	37	0.37	L	10	0.67	0.67	L	0	S
842	22	0.00	L	0	-	-	8	-	-	0	-	-	48	2.43	H	48	2.43	H	0	-	-	27	0.23	L	5	-	-	-	2	S
850	76	0.00	L	0	-	-	24	0.0 0	L	0	-	-	107	1.05	I	107	1.05	I	0	-	-	84	0.11	L	8	-	-	-	3	S
851	28	0.00	L	0	-	-	14	0.1 6	L	0	-	-	81	4.18	Н	81	4.18	Н	0	-	-	29	0.04	L	1	-	-	-	3	S

]	Ratio A					R	Ratio B								ŀ	Ratio C]	Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	nodes:	grains	5						glume	bases: gra	ins				we	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	ıl d	Br	ead who	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, Isit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
853	17	0.00	L	0	-	-	6	-	-	0	-	-	96	7.50	H	96	7.50	Н	0	-	-	30	0.76	H	13	0.44	0.44	L	7	S
854	61	0.07	L	0	-	-	6 14	- 0.1	- 1.	0	-	-	82 351	9.25	H H	82 351	9.25	H H	0	-	-	19 86	0.36	L	5 25	- 0.09	-	- T.	6 26	D D
055	01	0.00	Г	Ŭ	-	_	17	7	Ľ	0	_	_	551	0.15		551	0.15		0	_	_	00	0.41	Ľ	23	0.07	0.07	Ľ	20	D
857	51	0.00	L	0	-	-	11	0.0 0	L	0	-	-	43	0.07	L	43	0.07	L	0	-	-	54	0.06	L	3	-	-	-	3	S
863	20	0.00	L	0	-	-	9	-	-	0	-	-	58	4.23	Н	58	4.23	Н	0	-	-	25	0.25	L	5	-	-	-	3	S
866	67	0.02	L	0	-	-	27	0.0 0	L	0	-	-	309	6.92	Н	309	6.92	Н	0	-	-	91	0.38	L	25	0.19	0.19	L	24	S
869	27	0.00	L	0	-	-	6	-	-	0	-	-	83	3.00	Н	83	3.00	Н	0	-	-	30	0.11	L	3	-	-	-	307	S
870	35	0.00	L	0	-	-	18	0.0 0	L	0	-	-	160	8.11	Н	160	8.11	Н	0	-	-	42	0.20	L	7	-	-	-	6	S
873	69	0.00	L	0	-	-	11	0.0 0	L	0	-	-	79	0.36	I	79	0.36	Ι	0	-	-	74	0.07	L	5	-	-	-	6	S
891	285	0.00	L	0	-	-	4	-	-	0	-	-	1389	3.94	Н	1108	1108.0 0	Н	0	-	-	362	0.27	L	77	0.15	0.10	L	No Vol.	-
892	21	0.00	L	0	-	-	0	-	-	7	-	-	38	1.71	Н	24	24.00	Н	0	-	-	27	0.29	L	6	-	-	-	No Vol.	-
893	6	-	-	1	-	-	1	-	-	0	-	-	2005	400.00	Н	2000	2000.0 0	Η	0	-	-	9	-	-	3	-	-	-	No Vol.	-
904	499	0.00	L	0	-	-	2	-	-	0	-	-	497	0.00	L	0	-	-	0	-	-	532	0.07	L	33	0.43	0.38	L	No Vol.	-
931	27	0.00	L	0	-	-	0	-	-	0	-	-	90	2.33	Н	55	55.00	Н	8	-	-	33	0.22	L	6	-	-	-	6	S
932	91	0.00	L	0	-	-	0	-	-	0	-	-	108	2.27	Н	0	-	-	17	17.00	Н	40	0.21	L	7	-	-	-	7	S
933	89	0.00	L	0	-	-	1	-	-	0	-	-	286	2.21	Н	172	172.00	Н	25	25.00	Н	112	0.26	L	23	0.77	0.77	L	20	S
938	60	0.00	L	0	-	-	0	-	-	0	-	-	60	0.00	L	0	-	-	0	-	-	62	0.03	L	2	-	-	-	2	S
940	183	0.00	L	0	-	-	18	0.0 0	L	0	-	-	169	0.02	L	4	-	-	0	-	-	186	0.02	L	3	-	-	-	6	S
941	121	0.00	L	0	-	-	34	0.0 0	L	0	-	-	87	0.00	L	0	-	-	0	-	-	121	0.00	L	0	-	-	-	8	S
943	98	0.00	L	0	-	-	4	-	-	0	-	-	94	0.00	L	0	-	-	0	-	-	98	0.00	L	0	-	-	-	6	S

	1	Ratio A			Ratio B rachis nodes: grains											ŀ	Ratio C]	Ratio D			Ratio	оE		Ratio	o F
	cul	lm node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				we	ed seeds grains	5:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	1 1	Br	ead who	eat]	Barley			Rye	_	Com	bined glu wheat	me		Spelt			Emmer		All	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
945	318	0.00	L	0	-	-	0	-	- T	0	-	-	341	0.07	L	23	23.00	Η	0	-	-	328	0.03	L	10	0.25	0.25	L	23	S
940	55	0.00	L	Operation Operation <t< td=""><td>40</td><td>0.00</td><td>L</td><td>0</td><td>-</td><td>-</td><td>0</td><td>-</td><td>-</td><td>04</td><td>0.38</td><td>п</td><td>51</td><td>14.30</td><td>0</td><td>п</td><td>5</td><td>3</td></t<>							40	0.00	L	0	-	-	0	-	-	04	0.38	п	51	14.30	0	п	5	3		
947	598	0.00	L	0	No. of iter No. of iter 0 - 0 No. of iter 0 - 0 No. of iter 0 - 0 - 0 0 - 0 - 0 - 0 - 0 - 0 - 0 1 0 0 - - 0 - 0 0 - 0 - 0 - 0 - 0 - 0 0 1 0 0 - 0 - 0 - 0 - 0 - - 0 - - 0 - - 0 - - 0 - - - - - 0 -							-	8	-	-	0	-	-	0	-	-	598	0.00	L	0	-	-	20	20	s
948	131	0.00	L	0	-	-	0	-	-	0	-	-	133	0.02	L	2	-	-	0	-	-	143	0.09	L	12	0.09	0.00	L	19	S
949	239	0.00	L	Monoperation Monoperation Monoperation Monoperation Image: Second S							-	246	0.03	L	7	-	-	0	-	-	287	0.20	L	48	0.71	0.60	L	20	S	
952	31	0.00	L	0	-	-	0	-	-	0	-	-	84 101	2.26	и Н	23 70	23.00	н	0	-	-	140	3.06	н	85 95	0.27	0.27	L	13	5
954	18	0.00	L	0	-	-	3	-	-	0	-	-	193	11.69	Н	178	178.00	Н	0	-	-	46	1.56	Н	28	2.11	1.15	H	15	S
956	10	0.00	L	0	-	-	0	-	-	0	-	-	13	0.30	Ι	13	0.30	Ι	0	-	-	74	6.40	Н	64	63.00	11.8	Н	160	D
957	963	0.00	L	0	-	-	2	-	-	0	-	-	961	0.00	L	0	-	-	0	-	-	101	0.05	L	52	0.02	0.02	L	1015	D
971	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	211	211.0	Н	211	104.5	2.52	Н	211	D
985	109	0.00	L	0	-	-	4	-	-	0	-	-	1086	0.00	L	0	-	-	0	-	-	111	0.02	L	26	0.63	0.18	L	23	S
986	574	0.00	L	0	-	-	3	-	-	5	-	-	570	0.01	L	570	0.01	L	0	-	-	5 616	0.07	L	42	0.00	0.00	L	103	D
987	477	0.00	L	0	-	-	473	0.0	L	0	-	-	4	-	-	0	-	-	0	-	-	113 7	1.39	Н	661	2.89	1.86	Н	24	S
988	14	0.00	L	0	-	-	2	-	-	0	-	-	12	0.20	I	0	-	-	0	-	-	625	51.08	Н	613	14.72	9.05	Н	52	D
989	230	0.00	L	0	-	-	227	0.0	L	0	-	-	11	3.06	Ι	11	3.06	Н	0	-	-	386	0.68	Н	156	1.74	1.17	Н	33	D
991	50	0.00	L	0	-	-	45	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	316	5.32	Н	266	4.43	2.69	Н	13	S
101 1	827	0.00	L	0	-	-	75	0.0	L	0	-	-	761	0.01	L	761	0.01	L	0	-	-	828	0.00	L	1	-	-	-	523	D
102 6	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	63	63.00	Н	63	3.20	1.17	Н	5	S
103	12	0.00	L	0	-	-	12	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	63	4.25	Н	51	24.50	3.64	Н	5	S

]	Ratio A			Ratio B rachis nodes: grains											I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	d	Br	ead wh	eat]	Barley	,		Rye		Com	bined glu wheat	me		Spelt			Emmer	1	All c	weeds, cereals ombined	all 1		All weed	l seeds	1	All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
0 103	266	0.00	L	0	August August<							-	0	-	-	0	-	-	0	-	-	270	0.02	L	40	0.05	0.05	L	No	-
3	5	0.00	Ť	0	No. of items No. of items								602	0.01	T	602	0.01	T	0			5	0.05	T	22	0.00	0.00	Ť	Vol.	
5	000	0.00	L	0	-	Value No. of items No. of items - 0 - - - 0 No. of items - - 0 - - - 0 - - - 0 0 - - 0 - - - 0 146 0.0 Lue - 0 - - - - 0 0 - - - 0 154 0.0 Lue - - - 0 154 0.0 Lue -							002	0.01	L	002	0.01	L	0	-	-	039	0.03	L	55	0.00	0.00	L	Vol.	-
103 6	148	0.00	L	0	-	-	146	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	150	0.01	L	2	-	-	-	No Vol.	-
103 8	158	0.00	L	0	-	Image: Non-optimized state Non-optimized stat						4	-	-	0	-	-	0	-	-	167	0.06	L	10	0.00	0.00	L	No Vol.	-	
103 9	752	0.00	L	0	-	-	20	0.0	L	0	-	-	876	0.20	L	876	0.20	L	0	-	-	775	0.03	L	23	0.00	0.00	L	184	D
108	15	0.00	L	0	-	-	5	-	-	0	-	-	445	38.58	Н	431	431.00	Н	3	-	-	25	0.67	Н	10	1.00	1.00	-	118	D
108	83	0.00	L	0	-	-	0	-	-	0	-	-	145	0.75	Ι	145	0.75	Ι	0	-	-	96	0.16	L	13	0.08	0.08	L	198	D
109	22	0.00	L	0	-	-	10	0.1	L	0	-	-	19	0.48	Ι	6	-	-	0	-	-	44	1.00	Н	22	0.57	0.29	L	4	S
109	0	-	-	0	-	-	1	-	-	0	-	-	42	42.00	Н	39	39.00	Н	3	-	-	49	49.00	Н	49	1.88	1.45	Н	8	S
109	0	-	-	0	-	-	0	-	-	0	-	-	2	-	-	2	-	-	0	-	-	84	84.00	Н	84	3.42	1.47	Н	7	S
109	147	0.00	L	0	-	-	59	0.0	L	0	-	-	97	0.10	L	9	-	-	0	-	-	192	0.31	L	45	1.25	0.88	-	17	S
109	56	0.00	L	0	-	-	16	0.0	L	0	-	-	106	1.65	Н	66	66.00	Н	0	-	-	76	0.36	L	20	0.25	0.18	L	12	S
9	3	-	-	0	-	-	0	-	-	0	-	-	164	53.67	Н	161	161.00	Н	0	-	-	10	2.33	Н	7	-	-	-	14	S
0	3	-	-	0	-	-	0	-	-	0	-	-	74	23.67	Н	71	71.00	Н	0	-	-	19	5.33	Н	16	0.00	0.00	L	8	S
2 110	4	-	-	0	-	-	1	-	-	0	-	-	80	28.88	Н	77	77.00	Н	0	-	-	13	2.25	Н	9	-	-	-	8	S
3	1																					-			-					

]	Ratio A			Ratio B rachis nodes: grai											I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	nodes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	No. of items No. of items - Value - 0 - 16 1.3 H				Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
110 5	61	0.00	L	0	-	-	3	-	-	0	-	-	113	0.94	Ι	55	55.00	Н	0	-	-	104	0.70	Н	43	0.39	0.10	L	13	S
111 3	10	0.00	L	0	-	-	16	1.3 5	Н	0	-	-	38	10.50	Н	35	35.00	Н	0	-	-	28	1.80	Н	18	2.60	2.00	Н	6	S
111 6	9	-	-	0	-	-	9	-	-	0	-	-	117	117.00	Н	117	117.00	Н	0	-	-	99	10.00	Н	90	7.18	1.81	Н	18	S
111 9	16	0.00	L	0	-	-	1	-	-	0	-	-	57	2.89	Н	38	38.00	Н	4	-	-	27	0.69	Н	11	0.57	0.57	L	6	S
112 0	8	-	-	0	-	-	3	-	-	0	-	-	10	0.94	Ι	5	-	-	0	-	-	128	15.00	Н	120	9.91	7.57	Н	11	S
112 6	11	0.00	L	0	-	-	1	-	-	0	-	-	38	2.45	Н	27	27.00	Н	0	-	-	38	2.45	Н	27	1.70	1.08	Н	6	S
112 8	52	0.00	L	0	-	-	2	-	-	0	-	-	153	2.04	Н	103	103.00	Н	0	-	-	157	2.02	Н	105	3.57	3.04	Н	22	S
112 9	9	-	-	0	-	-	2	-	-	1	-	-	201	28.74	Н	192	192.00	Н	2	-	-	16	0.78	Н	7	-	-	-	18	S
113 1	11	0.00	L	0	-	-	0	-	-	0	-	-	237	20.55	Н	226	226.00	Н	0	-	-	33	2.00	Н	22	0.57	0.57	L	22	S
113 3	30	0.00	L	0	-	-	0	-	-	0	-	-	111	2.70	Н	81	81.00	Н	0	-	-	112	2.73	Н	82	0.61	0.22	L	16	S
113 9	21	0.00	L	0	-	-	4	-	-	1	-	-	494	27.76	Н	477	477.00	Н	0	-	-	40	0.90	Н	19	1.71	1.71	Н	43	D
114 3	8	-	-	0	-	-	0	-	-	0	-	-	99	11.38	Н	91	91.00	Н	0	-	-	23	1.88	Н	15	0.07	0.07	L	10	S
114 4	12	0.00	L	0	-	-	2	-	-	0	-	-	55	4.69	Н	45	45.00	Н	0	-	-	23	0.92	Н	11	0.22	0.10	L	6	S
114 9	9	-	-	0	-	-	1	-	-	0	-	-	72	8.30	Н	61	61.00	Н	3	-	-	19	1.11	Н	10	0.67	0.67	L	7	S
115 2	4	-	-	0	-	-	4	-	-	0	-	-	97	35.25	Н	94	94.00	Н	0	-	-	20	4.00	Н	16	0.23	0.23	L	10	S
115 3	18	0.00	L	0	-	-	3	-	-	0	-	-	24	0.49	Ι	2	-	-	6	-	-	61	2.39	Н	43	1.53	0.72	-	6	S

]	Ratio A			Ratio B rachis nodes: gra											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis r	nodes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Item litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	No. of items No. of items No. of items No. of items No. of items No. of items No. of items -				Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
116 7	23	0.00	L	0	-	-	1	-	-	0	-	-	59	1.57	Н	36	36.00	Н	0	-	-	51	1.22	Н	28	0.56	0.56	L	7	S
117 6	21	0.00	L	0	-	-	11	0.0 0	L	0	-	-	21	1.13	Ι	11	11.00	Н	0	-	-	79	2.76	Н	58	2.05	1.07	Н	8	S
118 6	22	0.00	L	0	-	-	6	-	-	0	-	-	127	6.67	Н	110	110.00	Н	0	-	-	37	0.68	Н	15	0.50	0.36	L	12	S
119 3	11	0.00	L	0	-	-	0	-	-	0	-	-	38	2.45	Н	26	26.00	Н	1	-	-	30	1.73	Н	19	1.11	0.90	-	5	S
119 5	10	0.00	L	0	-	-	10	0.0	L	0	-	-	19	19.00	Н	19	19.00	Н	0	-	-	84	7.40	Н	74	3.35	2.36	Н	9	S
119 6	3	-	-	0	-	-	0	-	-	0	-	-	49	15.33	Н	46	46.00	Н	0	-	-	15	4.00	Н	12	0.09	0.09	L	5	S
119	3	-	-	0	-	-	1	-	-	0	-	-	63	20.00	Н	60	60.00	Н	0	-	-	11	2.67	Н	8	-	-	-		S
119 9	4	-	-	0	-	-	0	-	-	1	-	-	290	71.50	Н	280	280.00	Н	6	-	-	11	1.75	Н	7	-	-	-	25	S
120 0	3	-	-	0	-	-	0	-	-	0	-	-	198	65.00	Н	191	191.00	Н	4	-	-	17	4.67	Н	14	0.08	0.08	L	18	S
120 3	8	-	-	0	-	-	0	-	-	0	-	-	123	14.38	Н	115	115.00	Н	0	-	-	35	3.38	Н	27	0.29	0.29	L	13	S
120 4	5	-	-	0	-	-	0	-	-	0	-	-	218	42.60	Н	213	213.00	Н	0	-	-	13	1.60	Н	8	-	-	-	19	S
121 4	66	0.00	L	0	-	-	8	-	-	0	-	-	72	0.24	Ι	65	0.12	L	7	-	-	116	0.76	Н	50	3.55	1.27	Н	30	D
121	21	0.00	L	0	-	-	0	-	-	0	-	-	99	3.71	Н	76	76.00	Н	2	-	-	27	0.29	L	6	-	-	-	21	S
123	284	0.01	L	0	-	-	1	-	-	0	-	-	411	0.46	Ι	411	0.46	Ι	0	-	-	395	0.40	L	113	0.22	0.13	L	176	D
123	10	0.43	L	0	-	-	0	-	-	0	-	-	50	6.14	Н	43	43.00	Н	0	-	-	24	2.43	Н	17	1.43	1.13	Н	5	S
123 5	11	0.10	L	0	-	-	7	-	-	0	-	-	25	6.60	Н	25	6.60	Н	0	-	-	69	5.90	Н	59	1.27	1.19	Н	3	S

]	Ratio A					R	latio B								F	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seeds grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
123 6	43	0.13	L	0	-	-	2	-	-	0	-	-	344	8.61	Н	308	308.00	Н	0	-	-	251	5.61	Н	213	3.26	1.60	Н	56	D
123 7	91	0.01	L	0	-	-	13	0.0 0	L	0	-	-	88	0.14	L	11	11.00	Н	0	-	-	128	0.42	L	38	0.46	0.36	-	14	S
123 8	18	0.06	L	0	-	-	0	-	-	0	-	-	33	0.94	Ι	16	16.00	Н	0	-	-	49	1.88	Н	32	0.28	0.23	-	3	S
123 9	26	0.00	L	0	-	-	0	-	-	0	-	-	149	4.73	Н	123	213.00	Н	0	-	-	45	0.73	Н	19	2.17	2.17	Н	17	S
124 0	23	0.15	L	0	-	-	0	-	-	0	-	-	126	5.30	Н	106	106.00	Н	0	-	-	84	3.20	Н	64	1.67	1.29	Н	19	S
124 1	23	0.00	L	0	-	-	0	-	-	0	-	-	80	2.48	Н	50	50.00	Н	7	-	-	60	1.61	Н	37	0.95	0.61	L	8	S
124 2	15	0.00	L	0	-	-	0	-	-	0	-	-	43	1.87	Н	28	28.00	Н	0	-	-	41	1.73	Н	26	0.18	0.18	L	5	S
G	31	0.04	L	0	-	-	0	-	-	0	-	-	30	0.25	Ι	0	-	-	0	-	-	62	1.58	Н	38	2.45	2.17	Н	1	S
124 5	51	0.02	L	0	-	-	5	-	-	0	-	-	63	0.40	I	18	18.00	Н	0	-	-	90	0.80	Н	40	0.54	0.48	L	3	S
124 6	14	0.00	L	0	-	-	0	-	-	0	-	-	113	7.07	Н	88	88.00	Н	11	11.00	Н	52	2.71	Н	38	0.52	0.23	L	5	S
124 7	12	0.00	L	0	-	-	2	-	-	0	-	-	336	27.00	Н	304	304.00	Н	20	20.00	Н	67	4.58	Н	55	0.53	0.53	L	39	D
124 8	28	0.04	L	0	-	-	1	-	-	0	-	-	31	0.20	L	5	-	-	0	-	-	47	0.74	Н	20	0.67	0.67	L	0	S
124 9	29	0.12	L	0	-	-	0	-	-	0	-	-	76	1.92	Н	46	46.00	Н	4	-	-	36	0.38	L	10	0.67	0.25	L	30	D
125 0	46	0.02	L	0	-	-	0	-	-	0	-	-	93	1.07	I	93	1.07	Ι	0	-	-	106	1.36	Н	61	0.45	0.33	L	10	S
125 1	20	0.18	L	0	-	-	0	-	-	0	-	-	30	0.76	I	7	-	-	6	-	-	47	1.76	Н	30	0.15	0.15	L	6	S
125 2	7	-	-	0	-	-	0	-	-	0	-	-	1249	177.43	Н	1228	1228.0 0	Н	14	14.00	Н	79	10.29	Н	72	1.06	1.06	Н	66	D

]	Ratio A			Ratio B rachis nodes: grains										ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F	
	cul	lm node grains	es:			r	achis r	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	read wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
125 3	16	0.00	L	0	-	-	12	0.0 0	L	0	-	-	168	41.00	Н	168	41.00	Н	0	-	-	47	1.94	Н	31	1.38	1.38	Н	21	S
125 4	37	0.00	L	0	-	-	0	-	-	0	-	-	595	15.08	Н	546	546.00	Н	12	12.00	Н	44	0.19	L	7	-	-	-	20	S
125 5	23	0.05	L	0	-	-	4	-	-	0	-	-	23	0.28	Ι	5	-	-	0	-	-	50	1.27	Н	28	0.87	0.75	L	6	S
125 6	25	0.09	L	0	-	-	4	-	-	0	-	-	172	7.55	Н	105	105.00	Н	47	47.00	Н	99	3.30	Н	76	2.62	1.62	Н	13	S
125	9	-	-	0	-	-	0	-	-	0	-	-	44	3.89	Н	44	3.89	Н	0	-	-	19	1.11	Н	10	0.67	0.43	L	1	S
126 4	15	0.00	L	0	-	-	0	-	-	0	-	-	34	1.27	Ι	34	1.27	Ι	0	-	-	139	8.27	Н	124	3.96	3.96	Н	16	S
126	25	0.00	L	0	-	-	0	-	-	0	-	-	57	1.28	Ι	32	32.00	Н	0	-	-	51	1.04	Н	26	0.73	0.53	L	8	S
126 6	157	0.01	L	0	-	-	29	0.0	L	0	-	-	497	2.92	Н	480	2.79	Н	17	17.00	Н	463	1.97	Н	307	4.12	4.12	Н	83	D
126 7	94	0.00	L	0	-	-	57	0.0	L	0	-	-	56	0.44	Ι	17	17.00	Н	0	-	-	116	0.23	L	22	0.57	0.57	L	9	S
126	16	0.14	L	0	-	-	0	-	-	0	-	-	156	10.14	Н	142	142.00	Н	0	-	-	98	6.00	Н	84	0.50	0.50	L	10	S
127	27	0.00	L	0	-	-	3	-	-	0	-	-	91	2.76	Н	61	61.00	Н	6	-	-	131	3.85	Н	104	2.71	2.47	Н	5	S
127	18	0.00	L	0	-	-	5	-	-	0	-	-	312	20.17	Н	293	293.00	Н	4	-	-	44	1.44	Н	26	0.30	0.30	L	11	S
127	9	-	-	0	-	-	2	-	-	0	-	-	51	6.11	Н	51	6.11	Н	0	-	-	17	0.89	Н	8	-	-	-	2	S
127 7	7	-	-	0	-	-	0	-	-	0	-	-	19	1.71	Н	19	1.71	Н	0	-	-	51	6.29	Н	44	13.67	10.0	Н	6	S
128	12	0.09	L	0	-	-	4	-	-	0	-	-	18	1.50	Ι	18	1.50	Ι	0	-	-	74	5.73	Н	63	0.29	0.29	L	3	S
128 1	9	-	-	0	-	-	0	-	-	0	-	-	12	0.33	I	3	-	-	0	-	-	66	6.33	Н	57	0.27	0.27	L	1	S

]	Ratio A			Ratio B rachis nodes: grains											I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			achis r	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit	
le	A	ll cerea mbine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	No. of items No. of items No. of items No. of items No. of items H Interpretation				Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
128 4	18	0.00	L	0	-	-	0	-	-	0	-	-	20	0.11	L	2	-	-	0	-	-	137	6.61	Н	119	0.61	0.61	L	7	S
128 7	41	0.00	L	0	-	-	54	0.5 0	Н	0	-	-	5	-	-	0	-	-	0	-	-	68	0.74	Н	29	1.90	1.90	Н	4	S
129 0	4	-	-	0	-	-	0	-	-	0	-	-	11	11.00	Н	11	11.00	Н	0	-	-	67	67.00	Н	67	8.57	8.57	Н	4	S
129 2	28	0.00	L	0	-	-	7	-	-	2	-	-	33	0.66	Ι	30	0.51	Ι	3	-	-	45	0.61	Н	17	2.40	1.13	Н	No Vol.	-
129 9	112	0.01	L	0	-	-	75	0.2 3	Ι	0	-	-	67	0.34	Ι	67	0.34	Ι	0	-	-	819	6.38	Н	708	10.06	2.20	Н	21	S
130 0	32	0.00	L	0	-	-	22	0.0	L	0	-	-	13	0.19	L	13	0.19	L	0	-	-	248	6.75	Н	216	15.62	8.00	Н	7	S
130	22	0.00	L	0	-	-	21	0.2	I	0	-	-	10	-	-	10	-	-	0	-	-	69	2.14	Н	47	8.40	4.22	Н	3	S
130 2	63	0.00	L	0	-	-	47	0.0	L	0	-	-	23	0.35	Ι	23	0.35	Ι	0	-	-	338	4.37	Н	275	2.09	1.52	Н	14	S
130 3	14	0.00	L	0	-	-	10	0.1	L	0	-	-	8	-	-	8	-	-	0	-	-	65	3.64	Н	51	4.67	2.92	Н	3	S
130 5	101	0.00	L	0	-	-	84	0.0	L	0	-	-	19	0.12	L	0	-	-	0	-	-	258	1.61	Н	159	25.50	3.30	Н	17	S
130 6	8	-	-	0	-	-	8	-	-	0	-	-	0	-	-	0	-	-	0	-	-	105	12.13	Н	97	15.17	2.59	Н	11	S
130 7	3	-	-	0	-	-	3	-	-	0	-	-	6	-	-	6	-	-	0	-	-	129	42.00	Н	126	17.00	4.25	Н	9	S
130 8	0	-	-	0	-	-	1	-	-	0	-	-	45	45.00	Н	45	45.00	Н	0	-	-	45	45.00	Н	45	6.50	1.65	Н	4	S
131 5	40	0.00	L	0	-	-	12	0.0	L	0	-	-	36	0.25	Ι	36	0.25	Ι	0	-	-	43	0.08	L	3	-	-	-	No Vol.	-
132	11	0.00	L	0	-	-	1	-	-	0	-	-	126	11.72	Н	70	70.00	Н	46	46.00	Н	81	6.36	Н	70	0.40	0.30	L	19	S
133 7	50	0.00	L	0	-	1-	7	-	-	0	-	-	89	1.07	I	20	20.00	Н	26	26.00	Н	152	2.04	Н	102	1.55	1.37	Н	17	S

]	Ratio A			Ratio B rachis nodes: gr											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	No. of items No. of items No. of items 133			Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
133 9	11	0.00	L	0	-	-	4	-	-	0	-	-	9	-	-	1	-	-	1	-	-	59	4.36	Н	48	3.36	2.69	Н	5	S
134 4	107 9	0.00	L	0	-	-	133	0.0 0	L	6	-	-	980	0.04	L	33	33.00	Н	7	-	-	110 9	0.03	L	30	0.20	0.15	L	96	D
134 5	809 2	0.00	L	0	-	-	77	0.0	L	0	-	-	8065	0.01	L	8065	0.01	L	0	-	-	811 7	0.00	L L	25	0.14	0.04	L	681	D
134	354	0.00	L	0	-	-	253	0.0	L	0	-	-	3426	0.04	L	3426	0.04	L	0	-	-	424 9	0.20	L	705	0.03	0.02	L	365	D
134	602	0.00	L	0	-	-	153	0.0	L	0	-	-	4574	0.02	L	4574	0.02	L	0	-	-	781	0.30	L	179	0.05	0.05	L	564	D
134	468	0.00	L	0	-	-	162	0.0	L	0	-	-	4621	0.02	L	4621	0.02	L	0	-	-	593	0.27	L	125	0.01	0.01	L	503	D
134	256	0.00	L	0	-	-	0	-	-	0	-	-	265	0.04	L	265	0.04	L	0	-	-	324	0.27	L	68	0.00	0.00	L	28	D
135	164	0.00	L	0	-	-	112	0.0	L	0	-	-	1584	0.03	L	1584	0.03	L	0	-	-	254	0.54	Н	892	0.01	0.01	L	216	D
0 135	8 724	0.00	L	0	-	-	12	0.0	L	0	-	-	720	0.01	L	720	0.01	L	0	-	-	0 851	0.18	L	127	0.06	0.06	L	71	D
1 135	284	0.00	L	0	-	-	154	0.0	L	0	-	-	2786	0.03	L	2786	0.03	L	0	-	-	382	0.34	L	980	0.02	0.02	L	326	D
2 135	8 888	0.00	L	0	-	-	50	0.0	L	0	-	-	882	0.05	L	882	0.05	L	0	-	-	8 118	0.34	L	298	0.02	0.01	L	102	D
3 135	583	0.00	L	0	-	-	97	0.0	L	0	-	-	552	0.14	L	552	0.14	L	0	-	-	6 695	0.19	L	112	0.15	0.14	L	54	D
4	47	0.00	L	0	-	-	4	0	-	0	-	-	44	0.29	Ĭ	0	-	-	0	-	-	53	0.43	L	16	1.29	1.00	-	2	S
7	81	0.00	Ť.	0	-	-	6	-	-	0	-	_	301	3.00	н	226	226.00	н	0	-	_	144	0.78	н	63	0.80	0.62	L	12	S
0	63	0.00	T	0		-	5			0			78	0.35	T	220	20.00	н	0			107	0.70	 ч	44	1.03	0.62		12	S
1	05	0.00	L	0	-	-	3	-	-	0	-	-	/0	0.55	ľ	20	20.00	п	0	-	-	107	0.70	п	44	1.95	0.05	-	4	3
136 2	52	0.00	L	0	-	-	3	-	-	0	-	-	79	0.61	1	30	30.00	Н	0	-	-	102	0.96	Н	50	5.25	1.38	Н	4	s

]	Ratio A			Ratio B rachis nodes: grains											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All c	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	0 No. of items No. of items No. of items 1 Interpretation 1 Value 1 Value 1 Value 1 Value 1 Value			Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation	
136 3	121	0.00	L	0	-	-	5	-	-	0	-	-	237	1.04	Ι	121	121.00	Н	0	-	-	246	1.03	Н	125	0.74	0.69	L	12	S
136 4	257	0.00	L	0	-	-	0	-	-	0	-	-	423	0.65	Ι	166	166.00	Н	0	-	-	835	2.25	Н	578	0.29	0.28	L	33	D
136 5	25	0.04	L	0	-	-	0	-	-	0	-	-	77	2.21	Н	53	53.00	Н	0	-	-	39	0.63	Н	15	0.67	0.67	L	3	S
136 6	123	0.00	L	0	-	-	11	0.0	L	0	-	-	295	1.62	Н	182	182.00	Н	0	-	-	366	1.98	Н	243	4.52	2.20	Н	18	S
136 9	38	0.00	L	0	-	-	38	0.0	L	0	-	-	1	-	-	1	-	-	0	-	-	70	0.84	Н	32	2.56	2.56	Н	24	S
137	58	0.00	L	0	-	-	40	0.0	L	0	-	-	52	1.91	Н	34	34.00	Н	0	-	-	113	0.95	Н	55	0.22	0.20	L	15	S
137	488	0.00	L	0	-	-	121	0.0	L	0	-	-	387	1.74	Н	20	20.00	Н	0	-	-	564	0.16	L	76	5.91	5.91	Н	28	D
137 3	307	0.00	L	0	-	-	1	-	-	0	-	-	312	0.02	L	178	0.04	L	0	-	-	357	0.17	L	51	0.82	0.65	L	37	D
137 4	358	0.00	L	1	-	-	7	-	-	5	-	-	359	0.04	L	359	0.04	L	0	-	-	378	0.06	L	20	3.00	2.33	Н	39	D
137 5	48	0.00	L	0	-	-	12	0.0	L	0	-	-	49	0.37	Ι	13	13.00	Н	0	-	-	125	1.60	Н	77	3.53	2.85	Н	11	S
137	42	0.00	L	0	-	-	5	-	-	1	-	-	126	2.21	Н	126	2.21	Н	0	-	-	62	0.48	L	20	1.22	1.22	Н	10	S
138 2	76	0.00	L	0	-	-	52	0.0	L	4	-	-	31	0.47	Ι	10	10.00	Н	0	-	-	86	0.13	L	10	0.25	0.25	L	12	S
138 8	44	0.00	L	0	-	-	2	-	-	0	-	-	45	0.07	L	45	0.07	L	0	-	-	51	0.16	L	7	-	-	-	5	S
139	17	0.00	L	0	-	-	1	-	-	0	-	-	306	17.00	Н	289	289.00	Н	0	-	-	22	0.29	L	5	-	-	-	22	S
139	44	0.00	L	0	-	-	4	-	-	0	-	-	40	0.49	Ι	0	-	-	0	-	-	48	0.55	Н	17	7.50	7.50	Н	2	S
139 5	88	0.01	L	0	-	-	0	-	-	0	-	-	94	0.08	L	7	-	-	0	-	-	110	0.26	L	23	4.75	4.75	Н	3	S

]	Ratio A			Ratio B rachis nodes: grain											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Bı	read wh	eat]	Barley			Rye	-	Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	 No. of items Value Value Interpretation No. of items 				Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
139 7	320	0.00	L	0	-	-	5	-	-	0	-	-	370	0.17	L	54	54.00	Н	0	-	-	356	0.11	L	36	17.00	6.20	Н	10	S
139 8	61	0.00	L	0	-	-	0	-	-	0	-	-	102	0.67	Ι	41	41.00	Н	0	-	-	64	0.05	L	3	-	-	-	3	S
139 9	62	0.00	L	0	-	-	5	-	-	0	-	-	195	2.43	Н	138	138.00	Н	0	-	-	66	0.06	L	4	-	-	-	5	S
140	42	0.00	L	0	-	-	0	-	-	0	-	-	42	0.05	L	0	-	-	0	-	-	53	0.33	L	13	13.00	13.0 0	Н	1	S
140	140	0.00	L	0	-	-	3	-	-	0	-	-	1406	0.07	L	0	-	-	7	-	-	140 2	0.06	L	81	0.11	0.11	L	149	D
140	32	0.00	L	0	-	-	10	-	-	0	-	-	25	0.14	L	3	-	-	0	-	-	54	0.69	Н	22	0.57	0.29	L	2	S
140	119	0.00	L	0	-	-	0	-	-	0	-	-	676	4.68	Н	557	557.00	Н	0	-	-	166	0.39	L	47	0.02	0.02	L	18	S
140	0	-	-	0	-	-	0	-	-	0	-	-	204	204.00	Н	163	163.00	Н	41	41.00	Н	3	-	-	3	-	-	-	20	S
140 6	216	0.00	L	0	-	-	0	-	-	5	-	-	3568	15.92	Н	3301	3301.0 0	Н	56	56.00	Н	240	0.11	L	24	0.60	0.50	L	360	D
140 7	6	-	-	0	-	-	3	-	-	0	-	-	44	13.67	Н	41	41.00	Н	0	-	-	9	-	-	3	-	-	-	5	S
140	0	-	-	0	-	-	0	-	-	0	-	-	118	118.00	Н	118	118.00	Н	0	-	-	8	-	-	8	-	-	-	3	S
140 9	350	0.00	L	91	0.00	L	0	-	-	0	-	-	2266	7.75	Н	2007	2007.0	Н	0	-	-	421	0.20	L	71	0.97	0.97	L	61	D
141	114	0.01	L	0	-	-	0	-	-	0	-	-	113	0.14	L	0	-	-	0	-	-	102	0.03	L	3	-	-	-	3	S
141	34	0.00	L	0	-	-	0	-	-	0	-	-	136	3.00	Н	102	102.00	Н	0	-	-	55	0.62	Н	21	1.10	1.10	Н	5	S
141 3	17	0.00	L	0	-	-	0	-	-	0	-	-	180	9.59	н	137	137.00	Н	26	26H		44	1.59	Н	27	1.08	1.08	Н	5	S
141 4	24	0.00	L	0	-	-	0	-	-	0	-	-	651	26.13	Н	627	627.00	Н	0	-	-	36	0.50	Ι	12	0.33	0.33	L	17	S

]	Ratio A			Ratio B rachis nodes: grains											I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	s:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	1 1	Bı	read wh	eat]	Barley			Rye		Con	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	 No. of items Value Interpretation No. of items Value Value Interpretation 					No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
141 7	0	-	-	0	-	-	0	-	-	0	-	-	106	106.00	Н	71	71.00	Н	35	35.00	Н	4	-	-	4	-	-	-	3	S
141 9	47	0.00	L	0	-	-	0	-	-	0	-	-	176	2.74	Н	129	129.00	Н	0	-	-	70	0.49	L	23	0.77	0.64	L	5	S
142 0	10	0.00	L	1	-	-	0	-	-	0	-	-	40	3.00	Н	30	30.00	Н	0	-	-	20	1.00	Н	10	2.33	2.33	Н	1	S
142 1	22	0.00	L	0	-	-	0	-	-	0	-	-	65	1.95	Н	43	43.00	Н	0	-	-	67	2.05	Н	45	4.00	2.46	Н	3	S
142 2	1	-	-	0	-	-	0	-	-	0	-	-	67	67.00	Н	67	67.00	Н	0	-	-	28	28.00	Н	28	8.33	0.47	-	24	S
142	21	0.00	L	0	-	-	0	-	-	0	-	-	74	2.52	Н	74	2.52	Н	0	-	-	25	0.19	L	4	-	-	-	8	S
142	71	0.00	L	27	0.00	L	0	-	-	0	-	-	762	16.43	Н	638	638.00	Н	80	80.00	Н	133	0.87	Н	62	30.00	0.11	L	34	D
142	568	0.00	L	0	-	-	0	-	-	0	-	-	568	19.29	Н	0	-	-	0	-	-	51	0.82	Н	23	22.00	0.28	L	197	D
142	11	0.00	L	0	-	-	0	-	-	0	-	-	162	13.73	Н	151	151.00	Н	0	-	-	26	1.36	Н	15	1.50	1.14	Н	4	S
142 8	10	0.00	L	0	-	-	0	-	-	0	-	-	551	54.10	Н	541	541.00	Н	0	-	-	28	1.80	Н	18	0.38	0.38	L	14	S
143	16	0.00	L	0	-	-	0	-	-	0	-	-	59	2.69	Н	43	43.00	Н	0	-	-	18	0.13	L	2	-	-	-	6	S
143	39	0.00	L	0	-	-	0	-	-	0	-	-	86	1.21	Ι	47	47.00	Н	0	-	-	60	0.54	Н	21	3.20	2.50	Н	3	S
143 3	8	-	-	0	-	-	0	-	-	0	-	-	83	9.38	Н	75	75.00	Н	0	-	-	13	0.63	Н	5	-	-	-	2	S
143 4	78	0.00	L	0	-	-	12	0.0	L	0	-	-	137	1.08	Ι	71	71.00	Н	0	-	-	113	0.45	L	35	2.89	1.92	Н	5	S
143	80	0.00	L	2	-	-	0	-	-	0	-	-	706	7.83	Н	459	459.00	Н	167	167.0 0	Н	116	0.45	L	36	0.44	0.44	L	74	D
143 7	10	0.00	L	0	-	-	0	-	-	0	-	-	43	3.30	Н	43	3.30	Н	0	-	-	21	1.10	Н	11	0.38	0.22	L	1	S

]	Ratio A			Ratio B rachis nodes: grain											F	Ratio C]	Ratio D			Ratio	o E		Rati	o F
	cul	lm node grains	s:			r	achis n	odes:	grains	5						glume	bases: gra	ins				we	eed seed grains	s:	smal	l : large	weed s	eeds	Item litr depo	ıs: es osit
le	A	ll cerea	1	Br	ead whe	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
145 4	195 6	0.00	L	0	-	-	3	-	-	0	-	-	2664	0.37	Ι	2664	0.37	Ι	0	-	-	240 6	0.23	L	452	0.02	0.02	L	No Vol.	-
145 7	51	0.00	L	0	-	-	13	0.0 0	L	0	-	-	51	0.34	Ι	4	-	-	9	-	-	140	1.75	Н	89	13.83	8.89	Н	40	D
146 1	27	0.00	L	0	-	-	10	-	-	0	-	-	57	2.30	Н	14	14.00	Н	26	26.00	Н	43	0.59	Н	16	1.29	1.00	-	46	D
146 4	15	0.00	L	0	-	-	3	-	-	0	-	-	74	5.31	Η	2	-	-	60	60.00	Н	96	5.40	Н	81	12.50	10.5 7	Н	45	D
146 7	5	-	-	0	-	-	5	-	-	0	-	-	134	134.00	Н	21	21.00	Н	113	113.0	Н	48	8.60	Н	43	3.78	3.78	Н	38	D
147	9	-	-	2	-	-	1	-	-	0	-	-	196	29.56	Н	158	158.00	Н	32	32.00	Н	44	3.89	Н	35	1.19	0.94	-	29	D
147	15	0.00	L	10	0.00	L	5	-	-	0	-	-	197	117.00	Н	87	87.00	Н	108	108.0	Н	39	1.60	Н	24	1.40	1.00	-	24	S
148	623	0.00	L	0	-	-	129	0.0	L	0	-	-	498	0.02	L	0	-	-	0	-	-	790	0.29	L	177	2.22	1.42	Н	26	D
148	143	0.00	L	0	-	-	14	0.0	L	0	-	-	276	1.12	Ι	31	31.00	Н	115	115.0 0	Н	153	0.07	L	10	9.00	9.00	Н	60	D
148	89	0.07	L	0	-	-	39	0.0	L	0	-	-	82	0.86	Ι	19	19.00	Н	19	19.00	Н	126	0.52	Н	43	0.26	0.23	L	14	S
148 3	121	0.00	L	0	-	-	32	0.0	L	0	-	-	105	0.18	L	16	16.00	Н	0	-	-	183	0.51	Н	62	9.33	4.64	Н	5	S
148 4	393	0.00	L	0	-	-	67	0.0	L	0	-	-	481	0.47	Ι	154	154.00	Н	0	-	-	560	0.42	L	167	1.46	1.09	Н	18	S
148	224	0.00	L	0	-	-	1	-	-	0	-	-	236	0.06	L	13	13.00	Н	0	-	-	439	0.96	Н	215	0.94	0.63	L	13	S
148 6	103	0.01	L	0	-	-	24	0.0	L	0	-	-	1433	0.44	Ι	435	435.00	Н	0	-	-	158 2	0.55	Н	562	0.72	0.54	L	51	D
148	297	0.00	L	0	-	-	37	1.0	Н	0	-	-	453	0.63	Ι	172	172.00	Н	3	-	-	591	1.00	Н	295	1.89	1.59	Н	20	S
148 8	181	0.00	L	0	-	-	0	-	-	0	-	-	181	0.08	L	0	-	-	0	-	-	168	0.00	L	0	-	-	-	5	S

	1	Ratio A					R	atio B								ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	m node grains	s:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	1 1	Br	ead who	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All c	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
148 9	127 5	0.00	L	0	-	-	0	-	-	0	-	-	1275	0.15	L	0	-	-	0	-	-	110 9	0.00	L	4	-	-	-	32	D
149 0	578	0.00	L	0	-	-	0	-	-	0	-	-	673	0.16	L	95	95.00	Н	0	-	-	583	0.01	L	5	-	-	-	17	S
149 1	102 7	0.00	L	0	-	-	0	-	-	45	0.00	L	1351	0.38	Ι	369	369.00	Н	0	-	-	104 1	0.01	L	14	1.80	1.80	Н	35	D
149 2	703	0.00	L	0	-	-	0	-	-	0	-	-	1106	0.58	Ι	404	404.00	Н	0	-	-	723	0.03	L	21	2.50	1.33	Н	75	D
149 3	838	0.01	L	0	-	-	0	-	-	10	0.00	L	2222	1.71	Н	1402	1402.0 0	Н	0	-	-	850	0.02	L	20	0.82	0.67	L	57	D
149 4	765	0.00	L	0	-	-	9	-	-	0	-	-	790	0.05	L	23	12.00	Н	14	14.00	Н	900	0.18	L	138	7.63	3.76	Н	34	D
149 5	100 7	0.00	L	0	-	-	2	-	-	0	-	-	2413	1.40	Ι	1408	1408.0 0	Н	0	-	-	131 0	0.30	L	303	2.03	1.94	Н	76	D
149	269	0.00	L	0	-	-	0	-	-	0	-	-	521	0.94	Ι	252	252.00	Н	0	-	-	273	0.01	L	4	-	-	-	18	S
149 7	101 0	0.00	L	0	-	-	14	0.0	L	0	-	-	2399	1.41	Ι	1396	1396.0 0	Н	8	-	-	110 2	0.09	L	93	4.47	4.47	Н	63	D
149 8	254	0.00	L	0	-	-	0	-	-	0	-	-	1024	3.03	Н	770	770.00	Н	0	-	-	265	0.04	L	11	1.20	1.20	Н	52	D
149 9	288	0.00	L	0	-	-	0	-	-	0	-	-	1170	3.08	Н	883	883.00	Н	0	-	-	304	0.06	L	17	2.40	2.40	Н	31	D
150 0	45	0.00	L	0	-	-	0	-	-	0	-	-	228	4.07	Н	183	183.00	Н	0	-	-	51	0.13	L	6	-	-	-	10	S
150	101	0.00	L	20	0.00	L	4	-	-	0	-	-	1077	0.09	Ι	89	89.00	Н	0	-	-	102 4	0.01	L	12	1.40	1.40	Н	28	D
150	143	0.00	L	13 2	0.02	L	13	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	203	0.42	L	60	0.40	0.36	L	5	S
150 3	141	0.00	L	14 2	0.01	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	155	0.10	L	14	3.67	3.67	Н	4	S
153 7	38	0.00	L	0	-	-	10	0.0 0	L	0	-	-	75	1.70	Н	75	1.70	Н	0	-	-	48	0.26	L	10	0.67	0.67	L	10	S

]	Ratio A			Ratio B rachis nodes: grains											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	-		Emmer	-	All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
153 9	38	0.00	L	0	-	-	0	-	-	0	-	-	271	6.13	Н	233	233.00	Н	0	-	-	55	0.45	L	17	1.43	1.43	Н	28	D
154 0	215	0.00	L	0	-	-	0	-	-	0	-	-	1273	4.92	Н	1273	4.92	Н	0	-	-	241	0.12	L	26	1.17	1.17	Н	130	D
154 4	37	0.00	L	0	-	-	0	-	-	0	-	-	37	0.09	L	34	0.00	L	0	-	-	224	5.59	Н	190	9.00	6.92	Н	23	S
154 6	5	-	-	0	-	-	0	-	-	0	-	-	9	-	-	9	-	-	0	-	-	188 3	375.6 0	Н	187 8	2.48	1.78	Н	189	D
155 3	33	0.00	L	0	-	-	0	-	-	0	-	-	47	0.42	Ι	47	0.42	Ι	0	-	-	46	0.39	L	13	1.60	1.60	Н	6	S
155 4	112 7	0.00	L	0	-	-	0	-	-	0	-	-	1272 3	10.29	Н	1237 9	10.43	Н	344	6.83	Н	130 8	0.16	L	181	0.99	0.97	L	430	D
155	254	0.00	L	0	-	-	47	0.0	L	0	-	-	223	0.08	L	0	-	-	223	0.08	L	310	0.22	L	56	3.67	2.11	Н	41	D
155 7	108 6	0.00	L	0	-	-	102	0.0	L	0	-	-	1029	0.05	L	3	-	-	102	0.04	L	116 0	0.07	L	74	0.85	0.37	L	151	D
155 8	149	0.00	L	0	-	-	149	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	170	0.14	L	21	20.00	1.63	Н	3	S
156 0	134 4	0.00	L	0	-	-	126 4	0.0	L	0	-	-	89	0.11	L	1	-	-	88	0.10	L	137 5	0.02	L	31	14.50	14.5 0	Н	173	D
156	174	0.00	L	0	-	-	164	0.0	L	0	-	-	137	0.32	Ι	3	-	-	134	0.29	Ι	176 8	0.01	L	23	10.50	3.60	Н	226	D
156	37	0.03	L	0	-	-	2	-	-	0	-	-	137	3.05	Н	137	3.05	Н	0	-	-	130	2.61	Н	94	2.62	2.48	Н	29	D
156	79	0.00	L	0	-	-	47	0.0	L	0	-	-	37	0.16	L	2	-	-	3	-	-	86	0.09	L	7	-	-	-	11	S
156	50	0.00	L	0	-	-	34	0.0	L	0	-	-	24	0.51	Ι	8	-	-	0	-	-	77	0.54	Н	27	2.38	1.70	Н	11	S
156	37	0.00	L	0	-	-	7	-	-	0	-	-	174	4.86	Н	144	-	Н	0	-	-	86	1.32	Н	49	3.90	1.33	Н	4	S
0 156 9	16	0.00	L	0	-	-	5	-	-	0	-	-	51	3.50	Н	51	3.50	Н	0	-	-	32	1.00	Н	16	1.00	1.00	-	7	S

]	Ratio A			Ratio B rachis nodes: grain									I	Ratio C						Ratio D			Rati	o E		Rati	o F		
	cul	lm node grains	es:			r	achis r	nodes:	grain	s						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	read wh	eat]	Barley			Rye	-	Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all d		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
157 1	30	0.00	L	0	-	-	12	0.0 0	L	0	-	-	285	14.46	Н	285	14.46	Н	0	-	-	110	2.67	Н	80	0.82	0.60	Н	47	D
157 2	71	0.00	L	0	-	-	9	-	-	0	-	-	195	2.15	Н	192	2.10	Н	3	-	-	143	1.01	Н	72	5.00	0.41	-	35	D
157 3	39	0.00	L	0	-	-	2	-	-	0	-	-	143	2.89	Н	106	106.00	Н	0	-	-	65	0.67	Н	26	1.17	0.86	-	21	S
158 1	37	0.00	L	0	-	-	0	-	-	0	-	-	37	0.03	L	0	-	-	0	-	-	55	0.53	Н	19	19.00	19.0 0	Н	3	S
158 3	42	0.00	L	0	-	-	0	-	-	0	-	-	56	0.33	Ι	14	14.00	Н	0	-	-	58	0.38	L	16	1.29	1.00	-	3	S
159 4	28	0.00	L	0	-	-	0	-	-	0	-	-	28	0.04	L	0	-	-	0	-	-	62	1.30	Н	35	0.03	0.03	L	79	D
160	7	-	-	0	-	-	0	-	-	0	-	-	49	6.00	Н	42	42.00	Н	0	-	-	23	2.29	Н	16	1.29	1.29	Н	11	S
160	30	0.00	L	0	-	-	9	-	-	0	-	-	40	0.93	Ι	19	19.00	Н	0	-	-	53	0.77	Н	23	1.09	0.77	-	7	S
160 4	33	0.00	L	0	-	-	9	-	-	0	-	-	28	0.17	L	4	-	-	0	-	-	56	0.70	Н	23	3.60	2.29	Н	15	S
160 7	122	0.00	L	0	-	-	0	-	-	0	-	-	155	0.27	I	33	33.00	Н	0	-	-	140	0.15	L	18	17.00	2.60	Н	11	S
161 0	37	0.00	L	0	-	-	8	-	-	0	-	-	549	17.75	Н	549	17.75	Н	0	-	-	114	2.08	Н	77	0.26	0.26	L	No Vol.	-
161	76	0.00	L	0	-	-	4	-	-	0	-	-	410	4.68	Н	410	4.68	Н	0	-	-	195	1.57	Н	119	0.31	0.28	L	No Vol.	-
161 2	34	0.00	L	0	-	-	0	-	-	0	-	-	686	19.18	Н	686	19.18	Н	0	-	-	69	1.03	Н	35	1.33	1.33	Н	No Vol.	-
161 3	85	0.00	L	0	-	-	0	-	-	0	-	-	844	8.93	Н	844	8.93	Н	0	-	-	128	0.51	Н	43	3.78	3.78	Н	No Vol.	-
161 4	109	0.00	L	0	-	-	6	-	-	0	-	-	103	0.00	L	0	-	-	0	-	-	111	0.02	L	2	-	-	-	No Vol	-
162 2	68	0.00	L	0	-	-	46	0.0 0	L	0	-	-	22	0.16	L	9	-	-	0	-	-	65	0.00	L	0	-	-	-	4	S

]	Ratio A					R	latio B								F	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	nodes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ns: es osit
le	A	ll cerea ombine	ll dl	Br	ead who	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer	-	All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
162 5	9	-	-	0	-	-	0	-	-	0	-	-	61	5.78	Н	52	52.00	Н	0	-	-	11	0.22	L	2	-	-	-	3	S
162 7	49	0.00	L	0	-	-	9	-	-	0	-	-	47	0.17	L	47	0.17	L	0	-	-	52	0.06	L	3	-	-	-	2	S
163 2	136 5	0.00	L	71	71.00	Н	51	0.0 0	L	0	-	-	1324	0.01	L	1324	0.01	L	0	-	-	137 9	0.01	L	14	0.27	0.27	L	97	D
163 3	44	0.00	L	0	-	-	0	-	-	0	-	-	155	2.52	Η	155	2.52	Н	0	-	-	46	0.05	L	2	-	-	-	7	S
163 4	98	0.00	L	0	-	-	0	-	-	0	-	-	98	0.05	L	0	-	-	0	-	-	98	0.05	L	5	-	-	-	4	S
163	4	-	-	0	-	-	2	-	-	0	-	-	4	-	-	4	-	-	0	-	-	58	13.50	Н	54	6.71	4.40	Н	1	S
163	42	0.02	L	0	-	-	0	-	-	0	-	-	77	0.88	Ι	77	0.88	Ι	0	-	-	67	0.63	Н	26	5.50	3.33	Н	3	S
163 7	28	0.00	L	0	-	-	25	0.0	L	0	-	-	15	4.29	Н	15	4.29	Н	0	-	-	51	0.82	Н	23	10.50	6.67	Н	2	S
163 9	12	0.00	L	0	-	-	4	-	-	0	-	-	30	2.75	Н	30	2.75	Н	0	-	-	182	14.17	Н	170	-	41.5 0	Н	5	S
164 0	85	0.00	L	0	-	-	63	0.0 3	L	0	-	-	108	3.46	Н	71	2.91	Н	37	5.11	Н	159	0.87	Н	74	2.52	1.64	Н	6	S
164 7	10	0.00	L	0	-	-	5	-	-	0	-	-	20	3.00	Н	20	3.00	Н	0	-	-	51	4.10	Н	41	3.56	1.73	Н	2	S
164 9	39	0.00	L	0	-	-	28	0.0 0	L	0	-	-	64	4.89	Н	64	4.89	Н	0	-	-	75	0.92	Н	36	8.00	3.50	Н	3	S
165 0	6	-	-	0	-	-	3	-	-	0	-	-	45	14.00	Н	42	42.00	Н	0	-	-	39	5.50	Н	33	5.60	5.60	Н	2	S
165 3	10	0.00	L	0	-	-	1	-	-	0	-	-	152	14.20	Н	152	14.20	Н	0	-	-	30	2.00	Н	20	9.00	5.67	Н	4	S
165 4	15	0.00	L	0	-	-	0	-	-	0	-	-	125	7.33	Н	125	7.33	Н	0	-	-	243	15.20	Н	228	11.00	5.51	Н	9	S
165 6	39	0.00	L	0	-	-	30	0.0 7	L	0	-	-	113	9.15	Н	113	9.15	Н	0	-	-	195	4.00	Н	156	2.63	2.39	Н	7	S

]	Ratio A			Ratio B rachis nodes: grains									I	Ratio C						Ratio D			Rati	o E		Rati	o F		
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
166 3	173	0.00	L	0	-	-	139	0.0 0	L	0	-	-	34	0.06	L	0	-	-	0	-	-	179	0.05	L	8	-	-	-	10	S
166 8	27	0.00	L	0	-	-	18	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	63	1.33	Н	36	5.00	2.27	Н	2	SS
168 3	52	0.00	L	8	-	-	4	-	-	0	-	-	40	0.00	L	0	-	-	40	0.00	L	80	0.54	Н	28	1.29	0.45	-	1	S
168 6	65	0.00	L	2	-	-	16	0.0 0	L	0	-	-	48	0.02	L	0	-	-	47	0.00	L	101	0.55	Н	36	1.00	1.00	-	1	S
168 7	117	0.00	L	2	-	-	29	0.0	L	0	-	-	105	0.22	Ι	62	0.27	Ι	43	0.16	L	144	0.23	L	27	0.78	0.68	L	3	S
168 8	361	0.00	L	16	0.00	L	101	0.0	L	0	-	-	284	0.16	L	62	0.00	L	183	0.00	L	526	0.46	L	165	2.58	2.11	Н	2	S
168 9	113	0.00	L	13	0.00	L	0	-	-	0	-	-	152	0.52	Ι	0	-	-	100	0.00	L	125	0.11	L	12	0.16	0.16	L	2	S
169 5	231	0.00	L	26	0.00	L	22	0.0	L	0	-	-	227	0.24	Ι	55	0.00	L	128	0.00	L	297	0.29	L	66	0.55	0.42	L	3	S
169 7	72	0.00	L	0	-	-	13	0.0	L	0	-	-	73	0.24	Ι	0	-	-	59	0.00	L	104	0.44	L	32	0.69	0.47	L	1	S
169 8	16	0.00	L	5	-	-	0	-	-	0	-	-	48	3.24	Н	0	-	-	0	-	-	30	0.88	Н	14	1.17	1.17	Н	1	S
170 0	24	0.00	L	0	-	-	5	-	-	0	-	-	52	1.72	Н	0	-	-	0	-	-	91	2.79	Н	67	3.89	2.67	Н	1	S
173 2	36	0.13	L	0	-	-	1	-	-	0	-	-	182	4.69	Η	68	68.00	Н	82	82.00	Н	79	1.47	Н	47	0.37	0.31	L	16	S
173 3	62	0.11	L	13	0.19	L	3	-	-	0	-	-	445	8.81	Η	271	271.00	Н	129	129.0 0	Н	89	0.59	Н	33	0.51	0.33	L	33	D
173 6	16	0.07	L	0	-	-	0	-	-	0	-	-	55	2.67	Η	20	20.00	Н	20	20.00	Н	31	1.07	Н	16	1.25	0.50	-	5	S
173 7	28	0.22	L	0	-	-	5	-	-	0	-	-	79	3.47	Н	0	-	-	3	-	-	42	0.83	Н	19	0.93	0.29	L	7	S
174 0	22	0.29	L	0	-	-	0	-	-	0	-	-	84	3.94	Н	0	-	Н	67	67.00	Н	40	1.35	Н	23	1.56	0.64	-	7	S

]	Ratio A					R	latio B	6							F	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	m node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Item litr depo	ıs: es osit
le	A	ll cerea mbine	1 1	Bı	read wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All c	weeds, cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
174 9	35	0.03	L	0	-	-	0	-	-	0	-	-	50	0.47	Ι	16	16.00	Н	0	-	-	54	0.59	Н	20	2.00	0.80	-	5	S
175 4	7	-	-	0	-	-	0	-	-	0	-	-	48	11.00	Н	19	19.00		25	25.00	Н	7	0.75	Н	3	-	-	-	4	S
175 6	22	0.38	L	0	-	-	6	-	-	0	-	-	78	4.44	Η	0	-	-	0	-	-	49	2.06	Н	33	0.95	0.68	L	8	S
176 2	18	0.13	L	0	-	-	2	-	-	0	-	-	86	4.88	Н	71	71.00	Н	0	-	-	78	3.88	Н	62	1.60	1.36	Н	10	S
176	10	0.25	L	0	-	-	0	-	-	0	-	-	97	11.13	Η	97	11.13	Н	0	-	-	20	1.50	Н	12	0.73	0.27	L	7	S
176 4	9	-	-	0	-	-	0	-	-	0	-	-	100	10.11	Н	100	10.11	Н	0	-	-	32	2.56	Н	23	2.60	1.25	Н	8	S
176 7	3	-	-	0	-	-	0	-	-	0	-	-	61	19.33	Н	61	19.33	Н	0	-	-	47	14.67	Н	44	5.75	3.50	Н	7	S
176 9	17	0.00	L	0	-	-	0	-	-	0	-	-	156	8.18	Н	139	139.00	Н	0	-	-	36	1.12	Н	19	2.20	1.00	-	12	S
177 0	29	0.04	L	0	-	-	0	-	-	0	-	-	132	3.71	Н	94	94.00	Н	10	10.00	Н	163	4.82	Н	135	2.13	2.03	Н	18	S
177 4	4	0.00	-	0	-	-	8	-	-	0	-	-	107	107.00	Η	107	107.00	Н	0	-	-	4	0.00	L	0	-	-	-	10	S
180 9	86	0.00	L	33	0.00	L	34	0.0	L	0	-	-	249	12.18	Η	249	12.18	Н	0	-	-	128	0.49	L	42	0.38	0.29	L	30	D
181	30	0.00	L	17	0.00	L	15	0.1	L	0	-	-	136	136.00	Н	136	136.00	Н	0	-	-	100	2.33	Н	70	0.71	0.49	L	20	S
181	68	0.00	L	36	0.00	L	8	-	-	0	-	-	174	6.20	Н	174	6.20	Н	0	-	-	210	2.09	Н	142	0.33	0.25	L	18	S
182 6	100 2	0.00	L	0	-	-	936	0.0	L	0	-	-	160	1.22	Ι	160	1.22	Ι	0	-	-	100 6	0.00	L	4	-	-	-	733	D
182 7	113 6	0.00	L	0	-	-	236	0.0	L	0	-	-	1624	0.80	Ι	1624	0.80	Ι	0	-	-	115	0.01	L	16	0.16	0.16	L	1251	D
182 8	447	0.00	L	0	-	-	405	0.0 0	L	0	-	-	44	0.05	L	44	0.05	L	0	-	-	447	0.00	L	0	-	-	-	449	D

]	Ratio A			Ratio B rachis nodes: grain											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	l d	Br	read wh	eat]	Barley	,		Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ito depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
183 0	51	0.00	L	0	-	-	19	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	51	0.00	L	0	-	-	-	51	D
183 3	770 2	0.00	L	0	-	-	437 1	0.0 1	L	0	-	-	7076	1.10	Ι	7076	1.10	Ι	0	-	-	774 6	0.01	L	44	0.14	0.09	L	2298	D
183 4	294 6	0.00	L	0	-	-	292 6	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	351 9	0.19	L	573	1.15	1.05	Н	879	D
183 9	29	0.00	L	0	-	-	4	-	-	0	-	-	1316	51.19	Н	1316	51.19	Н	0	-	-	72	1.48	Н	43	0.58	0.54	L	No Vol.	-
187	53	0.00	L	0	-	-	29	0.0	L	0	-	-	134	4.67	Н	134	4.67	Н	0	-	-	193	2.64	Н	140	3.80	2.00	Н	152	D
187	35	0.00	L	0	-	-	23	0.0	L	0	-	-	52	3.43	Н	52	3.43	Н	0	-	-	146	3.17	Н	111	9.67	4.82	Н	74	D
187	5	-	-	0	-	-	5	-	-	0	-	-	42	42.00	Н	42	42.00	Н	0	-	-	246	48.20	Н	241	12.19	0.28	-	82	D
187 3	30	0.00	L	0	-	-	26	0.0	L	0	-	-	95	22.75	Н	95	22.75	Н	0	-	-	149	3.97	Н	119	2.20	1.23	Н	160	D
188	201	0.00	L	0	-	-	27	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	209	0.04	L	8	-	-	-	52	D
188 7	54	0.00	L	0	-	-	29	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	118	1.19	Н	64	5.50	0.63	-	24	S
189	54	0.00	L	0	-	-	19	0.0	L	1	-	-	37	0.12	L	0	-	-	0	-	-	66	0.22	L	12	1.75	0.83	-	20	S
189 4	52	0.00	L	0	-	-	8	-	-	0	-	-	31	0.41	Ι	31	0.41	Ι	0	-	-	54	0.04	L	2	-	-	-	18	S
189 7	292	0.00	L	0	-	-	62	0.0	L	0	-	-	254	0.10	L	254	0.10	L	0	-	-	292	0.00	L	0	-	-	-	No Vol	-
189 8	69	0.00	L	0	-	-	18	0.3	Ι	14	14	Н	58	0.04	L	0	-	-	0	-	-	69	0.00	L	0	-	-	-	No Vol	-
192	57	0.02	L	0	-	-	12	0.0	L	0	-	-	203	3.65	Н	203	3.65	Н	0	-	-	87	0.55	Н	31	1.21	1.07	Н	12.35	S
192 2	152	0.01	L	0	-	-	135	0.0	L	0	-	-	16	0.00	L	16	0.00	L	0	-	-	172	0.14	L	21	1.33	1.33	Н	9	S

]	Ratio A					R	atio B								I	Ratio C						Ratio D			Rati	o E		Ratio	o F
	cul	lm node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				w	ed seeds grains	s:	smal	l : large	weed s	eeds	Item litro depc	ıs: es osit
le	A	ll cerea ombine	1 1	Br	ead wh	eat]	Barley	,		Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, a cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
192 3	568	0.00	L	0	-	-	459	0.0 0	L	0	-	-	109	0.00	L	109	0.00	L	0	-	-	589	0.04	L	21	0.17	0.05	L	29	D
192 8	550	0.00	L	0	-	-	431	0.0 0	L	0	-	-	119	0.00	L	119	0.00	L	0	-	-	556	0.01	L	6	-	-	-	278	D
192 9	60	0.00	L	0	-	-	52	0.0 0	L	0	-	-	8	-	-	8	-	-	0	-	-	69	0.15	L	9	-	-	-	35	D
193 9	9	-	-	10	0.11	L	0	-	-	0	-	-	61	61.00	Н	61	61.00	Н	0	-	-	33	2.67	Н	24	3.80	3.00	Н	8	S
195 3	5	-	-	0	-	-	0	-	-	0	-	-	59	10.80	Н	59	10.80	Н	0	-	-	12	1.40	Н	7	-	-	-	No Vol.	-
195 4	162	0.00	L	0	-	-	34	0.2 2	Ι	0	-	-	304	1.27	Ι	304	1.27	Ι	0	-	-	182	0.12	L	20	0.18	0.18	L	No Vol.	-
195 8	6	-	-	0	-	-	0	-	-	0	-	-	42	6.00	Н	42	6.00	Н	0	-	-	21	2.50	Н	15	14.00	2.75	Н	No Vol.	-
196 0	13	0.00	L	1	-	-	8	-	-	0	-	-	287	43.08	Н	287	43.08	Н	0	-	-	26	1.00	Н	13	0.86	0.86	L	No Vol.	-
196 1	17	0.00	L	1	-	-	0	-	-	0	-	-	197	10.59	Н	197	10.59	Н	0	-	-	81	3.76	Н	64	3.00	3.00	Н	No Vol.	-
196 2	2	-	-	0	-	-	0	-	-	0	-	-	17	7.50	Н	17	7.50	Н	0	-	-	297	147.5 0	Н	295	294.0 0	58.0 0	Н	No Vol.	-
196 4	22	0.00	L	0	-	-	0	-	-	0	-	-	119	4.41	Н	119	4.41	Н	0	-	-	75	2.41	Н	53	1.21	1.12	Н	No Vol.	-
199 2	8	-	-	0	-	-	0	-	-	0	-	-	51	5.38	Н	39	39.00	Н	4	-	-	21	1.63	Н	13	3.33	3.33	Н	6	S
200 2	231	0.00	L	0	-	-	142	0.0 0	L	0	-	-	101	0.14	L	101	0.14	L	0	-	-	301	0.30	L	70	0.49	0.49	L	16	S
201 0	34	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	62	0.82	Н	28	13.00	3.67	Н	6	S
201 3	67	0.00	L	0	-	-	14	0.0 0	L	0	-	-	56	0.06	L	56	0.06	L	0	-	-	146	1.18	Н	79	18.75	6.18	Н	7	S
201 4	32	0.00	L	0	-	-	12	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	74	1.31	Н	42	2.82	2.50	Н	7	S

]	Ratio A			Ratio B rachis nodes: grains											F	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	s:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	1 1	Br	ead who	eat]	Barley	7		Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	1 1 1 <th>Interpretation</th> <th>No. of items</th> <th>Value</th> <th>Interpretation</th> <th>No. of items</th> <th>Value 1 (int. = small)</th> <th>Value 2 (int. = large)</th> <th>Interpretation</th> <th>Value</th> <th>Interpretation</th>			Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
202 0	40	0.00	L	0	-	-	11	0.0 0	L	0	-	-	0	-	-	0	-	-	0	-	-	121	2.03	Н	81	0.11	0.09	L	3	S
202 1	86	0.00	L	0	-	-	25	0.0 0	L	0	-	-	63	0.03	L	63	0.03	L	0	-	-	119	0.38	L	33	0.14	0.14	L	3	S
202 7	34	0.17	L	0	-	-	31	0.0	L	0	-	-	5	-	-	5	-	-	0	-	-	121	3.17	Н	92	2.54	0.44	-	7	S
202	113	0.00	L	0	-	-	20	0.0	L	0	-	-	103	0.11	L	103	0.11	L	0	-	-	154	0.36	L	41	0.71	0.37	L	4	S
203	488	0.00	L	67	67.00	Н	77	0.7	Н	0	-	-	1075	10752. 00	Н	1075	10752. 00	Н	0	-	-	597	0.22	L	109	0.54	0.51	L	1145	D
203 4	280	0.00	L	0	-	-	68	1.5 4	Н	0	-	-	1006	38.75	Н	1006	38.75	Н	0	-	-	450	0.61	Н	170	1.36	0.93	-	1103	D
203	62	0.00	L	0	-	-	0	-	-	0	-	-	772	11.45	Н	772	11.45	Н	0	-	-	65	0.05	L	3	-	-	-	78	D
203	90	0.00	L	0	-	-	2	-	-	0	-	-	1137	11.98	Н	1137	11.98	Н	0	-	-	106	0.18	L	16	3.00	2.20	Н	116	D
203 8	440	0.00	L	0	-	-	75	0.0	L	0	-	-	571	0.57	Ι	571	0.57	Ι	0	-	-	126 7	1.88	Н	827	3.52	2.40	Н	74	D
203 9	681 3	0.00	L	11 0	110.0 0	Н	298 2	0.0	L	0	-	-	3442 3	7.84	Н	3430 8	7.81	Н	115	115.0 0	Н	691 8	0.02	L	105	10.67	10.6 7	Н	3762	D
204 0	6	-	-	0	-	-	3	-	-	0	-	-	120	32.22	Н	120	32.22	Н	0	-	-	19	2.17	Н	13	0.63	0.63	L	No Vol.	-
204	14	0.00	L	0	-	-	11	0.1	L	0	-	-	265	68.36	Н	265	68.36	Н	0	-	-	47	2.36	Н	33	1.06	0.32	-	No Vol.	-
204 2	832	0.00	L	0	-	-	780	0.3	Ι	0	-	-	7716	30.68	Н	7716	30.68	Н	0	-	-	352 8	3.24	Н	269 6	0.79	0.29	L	No Vol.	-
204 3	66	0.00	L	0	-	-	33	0.0	L	0	-	-	34	0.03	L	12	0.09	L	22	0.00	L	82	0.24	L	16	2.20	0.45	-	4	S
204 4	125	0.00	L	0	-	-	121	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	126	0.01	L	1	-	-	-	2	S
204 7	177	0.01	L	1	-	-	81	2.3 3	Н	0	-	-	1496	8.80	Н	1496	8.80	Н	0	-	-	309	0.75	Н	132	1.03	1.03	Н	171	D

]	Ratio A					R	latio B								ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seeds grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer	-	All	weeds, a cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
204 8	41	0.00	L	0	-	-	5	-	-	0	-	-	36	0.00	L	36	0.00	L	0	-	-	59	0.44	L	18	17.00	8.00	Н	6	S
204 9	58	0.02	L	0	-	-	249	5.5 5	Н	0	-	-	290	13.50	Η	270	270.00	Н	0	-	-	118	1.03	Н	60	1.14	0.67	-	599	D
205 0	14	0.07	L	0	-	-	13	2.2 5	Н	0	-	-	57	4.70	Н	47	47.00	Н	0	-	-	76	4.43	Н	62	1.14	1.00	-	9	S
205 1	170	0.00	L	0	-	-	291	1.2 2	Н	0	-	-	39	0.00	L	0	-	-	0	-	-	547	2.22	Н	377	1.97	1.53	Н	88	D
206 6	96	0.00	L	0	-	-	86	0.0	L	0	-	-	18	0.20	L	3	-	-	0	-	-	178	0.85	Н	82	1.93	1.34	Н	13	S
206 7	88	0.00	L	0	-	-	37	0.7	Н	0	-	-	209	2.13	Н	142	142.00	Н	0	-	-	106	0.20	L	18	3.50	1.25	Н	19	S
206	20	0.00	L	0	-	-	4	-	-	0	-	-	53	2.08	Н	36	36.00	Н	0	-	-	30	0.50	Ι	10	1.50	1.50	Н	6	S
206 9	17	0.00	L	0	-	-	4	-	-	0	-	-	13	0.00	L	0	-	-	0	-	-	162	8.53	Н	145	17.13	0.96	-	12	S
208 7	29	0.00	L	0	-	-	1	-	-	0	-	-	48	0.66	Ι	19	19.00	Н	0	-	-	169	4.83	Н	140	14.40	7.56	Н	19	S
208 9	2	-	-	0	-	-	2	-	-	0	-	-	5	-	-	5	-	-	0	-	-	456	227.0 0	Н	454	8.87	5.14	Н	92	D
209 0	17	0.00	L	0	-	-	5	-	-	0	-	-	62	2.90	Н	62	2.90	Н	0	-	-	26	0.53	Н	9	-	-	-	5	S
209	0	-	-	0	-	-	0	-	-	0	-	-	1	-	-	1	-	-	0	-	-	62	62.00	Н	62	61.00	30.0 0	Н	3	S
209 2	51	0.00	L	0	-	-	48	0.0	L	0	-	-	806	251.92	Η	806	251.92	Н	0	-	-	74	0.45	L	23	4.75	3.60	Н	88	D
209 3	54	0.00	L	0	-	-	5	-	-	0	-	-	614	11.17	Н	564	564.00	Н	0	-	-	130	1.41	Н	76	0.73	0.65	L	87	D
209 5	7	-	-	0	-	-	2	-	-	0	-	-	8	-	-	1	-	-	0	-	-	108	14.43	Н	101	32.67	1.15	Н	12	S
209 6	43	0.00	L	0	-	-	3	-	-	0	-	-	45	0.12	L	5	-	-	0	-	-	57	0.33	L	14	1.80	1.00	-	3	S

]	Ratio A			Ratio B rachis nodes: grains											ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grains	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	_		Emmer	-	All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
209 7	134	0.00	L	0	-	-	11	0.0 0	L	0	-	-	130	0.06	L	7	-	-	0	-	-	149	0.11	L	15	0.67	0.50	L	6	S
209 8	54	0.00	L	0	-	-	11	0.0 0	L	0	-	-	55	0.28	Ι	12	12.00	Н	0	-	-	77	0.43	L	23	1.56	0.64	-	4	S
209 9	21	0.00	L	0	-	-	6	-	-	0	-	-	35	1.05	Ι	18	18.00	Н	0	-	-	36	0.71	Н	15	14.00	2.00	Н	4	S
210 0	17	0.00	L	0	-	-	4	-	-	0	-	-	13	0.00	L	0	-	-	0	-	-	162	8.53	Н	145	17.13	0.96	-	12	S
210	2	-	-	2	-	-	2	-	-	0	-	-	24	24.00	Η	24	24.00		0	-	-	28	12.00	Н	26	0.73	0.73	L	5	S
210	44	0.00	L	3	-	-	0	-	-	0	-	-	112	1.55	Н	68	68.00	Н	0	-	-	71	0.61	Н	27	0.59	0.17	L	24	S
214	52	0.00	L	0	-	-	0	-	-	0	-	-	55	0.06	L	3	-	-	0	-	-	141	1.71	Н	89	7.09	3.68	Н	12	S
214 9	80	0.00	L	23	0.00	L	0	-	-	0	-	-	170	1.97	Н	112	-	Н	1	-	-	186	1.33	Н	106	0.80	0.34	L	25	S
215 0	109	0.00	L	36	0.00	L	38	3.9 9	Н	0	-	-	638	8.81	Н	638	8.81	Н	0	-	-	431	2.95	Н	322	2.04	1.78	Н	148	D
215	238	0.00	L	0	-	-	105	5.9 7	Н	0	-	-	1874	7.41	Η	1874	7.41	Н	0	-	-	856	2.60	Н	618	8.09	6.45	Н	325	D
215	12	0.00	L	0	-	-	3	-	-	0	-	-	45	4.13	Η	34	-	Н	2	-	-	20	0.67	Н	8	-	-	-	5	S
215 4	12	0.00	L	0	-	-	6	-	-	0	-	-	63	6.19	Н	63	6.19	Н	0	-	-	51	3.25	Н	39	0.34	0.30	L	11	S
215	73	0.00	L	0	-	-	6	-	-	0	-	-	195	1.92	Н	194	1.91	Н	1	-	-	134	0.84	Н	61	0.97	0.85	L	18	S
215 6	18	0.00	L	0	-	-	0	-	-	0	-	-	22	0.22	Ι	4	-	-	0	-	-	93	4.17	Н	75	11.50	0.44	-	16	S
215 7	7	-	-	0	-	-	0	-	-	0	-	-	279	38.86	Н	272	272.00	Н	0	-	-	54	6.71	Н	47	14.67	0.47	-	82	D
215 8	61	0.00	L	0	-	-	5	-	-	0	-	-	63	0.13	L	7	-	-	0	-	-	69	0.13	L	8	-	-	-	5	S

]	Ratio A			Ratio											I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				w	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead who	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
215 9	3	-	-	0	-	-	0	-	-	0	-	-	5	0.67	Ι	5	-	-	0	-	-	73	23.33	Н	70	13.00	0.27	-	6	S
216 0	23	0.00	L	1	-	-	0	-	-	0	-	-	349	14.17	Η	326	326.00	Н	0	-	-	39	0.70	Н	16	7.00	0.60	-	37	D
216 1	57	0.00	L	0	-	-	17	0.0 6	L	0	-	-	45	0.10	L	45	0.10	L	0	-	-	60	0.05	L	3	-	-	-	4	S
216 2	23	0.04	L	0	-	-	23	1.5 8	Н	0	-	-	146	9.33	Η	132	132.00	Н	0	-	-	45	0.96	Н	22	2.14	1.75	Н	48	D
216	185	0.00	L	0	-	-	117	0.2	Ι	0	-	-	173	0.92	Ι	83	83.00	Н	0	-	-	506	1.74	Н	321	5.42	4.10	Н	61	D
216 4	32	0.00	L	1	-	-	0	-	-	0	-	-	42	0.31	Ι	10	10.00	Н	0	-	-	52	0.63	Н	20	1.22	0.43	-	3	S
225	8	-	-	0	-	-	7	-	-	0	-	-	47	7.88	Н	35	35.00	Н	7	-	-	36	3.50	Н	28	1.55	1.15	Н	5	S
226 4	46	0.07	L	0	-	-	5	-	-	0	-	-	99	1.59	Н	33	33.00	Н	28	28.00	Н	72	0.67	Н	29	0.16	0.16	L	13	S
227	24	0.00	L	0	-	-	11	0.0	L	0	-	-	86	5.53	Н	73	73.00	Н	0	-	-	133	4.54	Н	109	0.36	0.31	L	26	D
227 9	249	0.00	L	0	-	-	97	0.2	Ι	0	-	-	537	2.18	Η	537	2.18	Н	0	-	-	363	0.46	L	114	0.18	0.16	L	47	D
228	7	-	-	18	18.00	Н	6	-	-	0	-	-	9	0.50	Ι	9	0.50	Ι	0	-	-	67	8.11	Н	60	3.00	1.61	Н	8	S
228	31	0.00	L	5	-	-	95	3.7 4	Н	0	-	-	34	2.10	Н	23	23.00	Н	0	-	-	108	2.48	Н	77	4.50	1.75	Н	19	S
228	407	0.00	L	0	-	-	0	-	-	0	-	-	844	1.07	Ι	844	1.07	Ι	0	-	-	575	0.41	L	168	7.40	5.46	Н	145	D
228 9	23	0.00	L	0	-	-	0	-	-	0	-	-	80	2.48	Н	57	57.00	Н	0	-	-	30	0.30	L	7	-	-	-	15	S
229	27	0.00	L	0	-	-	9	-	-	0	-	-	322	15.10	Н	322	15.10	Н	0	-	-	50	0.85	Н	23	1.09	0.35	-	24	S
229	8	-	-	0	-	-	2	-	-	0	-	-	42	5.63	Н	36	36.00	Н	0	-	-	121	14.13	Н	113	36.67	0.92	-	20	S
]	Ratio A					R	latio B								F	Ratio C						Ratio D			Rati	o E		Rati	o F
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	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Item litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
229 2	12	0.00	L	0	-	-	1	-	-	0	-	-	29	1.67	Н	29	1.67	Н	0	-	-	36	1.96	Н	24	7.00	0.41	-	4	S
229 3	29	0.00	L	0	-	-	1	-	-	0	-	-	422	14.23	Н	394	394.00	Н	0	-	-	40	0.38	L	11	1.75	1.75	Н	145	D
229 4	22	0.00	L	0	-	-	0	-	-	0	-	-	64	1.91	Н	42	42.00	Н	0	-	-	49	1.23	Н	27	3.50	0.80	-	15	S
229	12	0.00	L	0	-	-	1	-	-	0	-	-	75	5.25	Н	75	5.25	Н	0	-	-	41	2.42	Н	29	13.50	0.45	-	11	S
229	111	0.00	L	0	-	-	7	-	-	0	-	-	455	3.38	Н	455	3.38	Н	0	-	-	228	1.05	Н	117	7.36	5.50	Н	48	D
229 7	39	0.00	L	0	-	-	3	-	-	0	-	-	151	3.23	Н	115	115.00	Н	0	-	-	130	2.33	Н	91	2.64	2.14	Н	18	S
229	275	0.00	L	0	-	-	17	0.8	Н	0	-	-	2709	9.19	Н	2709	9.19	Н	0	-	-	433	0.57	Н	158	0.45	0.34	L	361	D
229	21	0.00	L	0	-	-	0	-	-	0	-	-	56	1.67	Н	35	35.00	Н	0	-	-	65	2.10	Н	44	3.89	0.52	-	20	S
230	27	0.00	L	4	-	-	6	-	-	0	-	-	563	23.00	Н	540	540.00	Н	0	-	-	76	1.81	Н	49	0.53	0.36	L	207	D
230	204	0.00	L	0	-	-	0	-	-	0	-	-	278	0.36	Ι	278	0.36	Ι	0	-	-	991	3.86	Н	787	14.43	7.37	Н	266.2	D
230	757	0.00	L	0	-	-	0	-	-	0	-	-	1004	0.33	Ι	1004	0.33	Ι	0	-	-	324	3.28	Н	248	30.86	9.40	Н	349	D
230	23	0.00	L	0	-	-	20	0.1	L	0	-	-	54	9.15	Н	54	9.15	Н	0	-	-	34	0.48	L	11	1.20	1.20	Н	17	S
230	34	0.00	L	0	-	-	11	0.2	Ι	0	-	-	80	2.24	Н	55	55.00	Н	0	-	-	69	1.03	Н	35	1.92	1.92	Н	16	S
230	166	0.00	L	0	-	-	1	-	-	0	-	-	198	0.20	I	198	0.20	Ι	0	-	-	223	0.34	L	57	0.19	0.19	L	26	D
230	21	0.00	L	0	-	-	6	-	-	0	-	-	74	3.45	Н	70	3.21	Н	4	-	-	55	1.62	Н	34	2.78	0.70	-	11	S
230 7	38	0.00	L	0	-	-	3	-	-	0	-	-	63	0.79	I	28	28.00	Н	0	-	-	42	0.11	L	4	-	-	-	7	S

]	Ratio A					R	latio B								ŀ	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	read wh	eat]	Barley			Rye	-	Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
232 9	21	0.00	L	0	-	-	1	-	-	0	-	-	139	5.62	Н	118	118.00	Н	0	-	-	26	0.24	L	5	-	-	-	29	D
233 0	131	0.00	L	0	-	-	22	1.0 0	Н	0	-	-	3020	24.17	Н	3020	24.17	Н	0	-	-	350	1.67	Н	219	0.45	0.43	L	815	D
233 1	29	0.00	L	0	-	-	10	-	-	0	-	-	37	0.93	Ι	18	18.00	Н	0	-	-	46	0.59	Н	17	7.50	0.31	L	11	S
233 2	18	0.00	L	0	-	-	0	-	-	0	-	-	65	2.61	Н	47	47.00	Н	0	-	-	56	2.11	Н	38	11.67	0.52	L	34	D
233	21	0.00	L	0	-	-	0	-	-	0	-	-	56	1.67	Н	35	35.00	Н	0	-	-	68	2.24	Н	47	2.92	0.47	L	21	S
233 4	32	0.00	L	0	-	-	0	-	-	0	-	-	59	0.84	Ι	27	27.00	Н	0	-	-	46	0.44	L	14	1.80	0.75	L	7	S
233	106	0.00	L	0	-	-	19	0.1	L	0	-	-	412	3.64	Н	323	323.00	Н	0	-	-	130	0.23	L	24	0.60	0.50	L	91	D
233	16	0.00	L	0	-	-	6	-	-	0	-	-	486	39.50	Н	474	474.00	Н	0	-	-	36	1.25	Н	20	1.22	0.82	L	51	D
233 7	8	-	-	0	-	-	1	-	-	0	-	-	137	16.13	Н	129	129.00	Н	0	-	-	15	0.88	Н	7	-	-	-	21	S
233 8	3	-	-	0	-	-	1	-	-	0	-	-	168	83.00	Н	168	83.00	Н	0	-	-	24	7.00	Н	21	0.91	0.91	L	24	S
233 9	163	0.00	L	0	-	-	0	-	-	0	-	-	182	0.12	L	182	0.12	L	0	-	-	216	0.33	L	53	6.57	2.31	Н	30	D
234 0	215	0.00	L	0	-	-	28	0.4 7	Н	0	-	-	2268	10.57	Н	2171	21.01	Н	0	-	-	784	2.65	Н	569	0.30	0.14	L	239	D
234 1	14	0.00	L	0	-	-	0	-	-	0	-	-	43	2.07	Н	29	29.00	Н	0	-	-	29	1.07	Н	15	2.75	1.50	Н	4	S
234 2	28	0.00	L	0	-	-	0	-	-	0	-	-	263	8.39	Н	235	235.00	Н	0	-	-	84	2.00	Н	56	1.55	0.60	-	106	D
234 3	137	0.00	L	0	-	-	1	-	-	0	-	-	253	0.86	Ι	253	0.86	Ι	0	-	-	208 0	14.18	Н	194 3	19.67	18.0 5	Н	439	D
234 4	22	0.00	L	0	-	-	21	0.0 5	L	0	-	-	24	13.00	Н	24	13.00	Н	0	-	-	27	0.23	L	5	-	-	-	4	S

]	Ratio A					R	latio B	;							I	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	nodes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	read wh	eat]	Barley	7		Rye	-	Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
236 8	21	0.00	L	0	-	-	2	-	-	0	-	-	324	14.43	Н	324	14.43	Н	0	-	-	29	0.38	L	8	-	-	-	28	D
236 9	7	-	-	0	-	-	2	-	-	0	-	-	60	9.00	Н	54	-	Н	0	-	-	42	5.00	Н	35	2.89	1.50	Н	16	S
237 0	88	0.00	L	0	-	-	10	-	-	0	-	-	537	5.44	Н	537	5.44	Н	0	-	-	187	1.13	Н	99	1.11	1.11	Н	65	D
237	27	0.00	L	0	-	-	2	-	-	0	-	-	120	3.81	Н	120	3.81	Н	0	-	-	54	1.00	Н	27	4.40	2.38	Н	19	S
237	37	0.00	L	0	-	-	1	-	-	0	-	-	262	6.08	Н	262	6.08	Н	0	-	-	114 8	30.03	Н	111	10.22	5.94	Н	115	D
237 4	27	0.00	L	0	-	-	2	-	-	0	-	-	120	3.81	Н	120	3.81	Н	0	-	-	56	1.07	Н	29	4.80	2.63	Н	19	S
237	16	0.00	L	0	-	-	0	-	-	0	-	-	399	23.94	Н	383	383.00	Н	0	-	-	32	1.00	Н	16	3.00	2.20	Н	35	D
237	7	-	-	0	-	-	2	-	-	0	-	-	85	17.14	Н	80	80.00	Н	0	-	-	17	1.43	Н	10	10.00	10.0	Н	8	S
238	36	0.00	L	0	-	-	0	-	-	0	-	-	136	2.78	Н	136	2.78	Н	0	-	-	126	2.50	Н	90	6.50	5.43	Н	28	D
238 6	15	0.00	L	0	-	-	0	-	-	0	-	-	109	6.27	Н	109	6.27	Н	0	-	-	29	0.93	Н	14	13.00	13.0 0	Н	25	S
238 7	20	0.00	L	0	-	-	2	-	-	0	-	-	139	6.32	Н	120	120.00	Н	0	-	-	37	0.85	Н	17	2.40	2.40	Н	14	S
238 8	13	0.00	L	0	-	-	1	-	-	0	-	-	213	16.87	Н	201	201.00	Н	0	-	-	33	1.54	Н	20	4.00	4.00	Н	17	S
238	38	0.00	L	0	-	-	1	-	-	0	-	-	180	3.90	Н	163	3.44	Н	17	17.00	Н	114	2.00	Н	76	4.07	3.75	Н	26	D
239	0	-	-	0	-	-	0	-	-	0	-	-	176	-	Н	176	176.00	Н	0	-	-	21	21.00	Н	21	6.00	4.25	Н	16	S
239	38	0.00	L	0	-	-	4	-	-	0	-	-	344	8.66	Н	344	8.66	Н	0	-	-	73	0.92	Н	35	16.50	16.5	Н	27	D
239 2	159	0.00	L	0	-	-	1	-	-	0	-	-	208	0.32	I	208	0.32	Ι	0	-	-	159	0.00	L	0	-	-	-	21	S

]	Ratio A					R	latio B								F	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litr depo	ıs: es osit
le	A	ll cerea ombine	ll dl	Br	read wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt	_		Emmer		All	weeds, cereals ombined	all I		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
239 3	27	0.00	L	0	-	-	2	-	-	0	-	-	576	20.33	Н	549	549.00	Н	0	-	-	69	1.56	Н	42	1.80	1.80	Н	103	D
239 4	89	0.00	L	0	-	-	39	1.1 5	Н	0	-	-	1625	21.99	Н	1625	21.99	Н	0	-	-	179	1.01	Н	90	0.43	0.38	L	251	D
242 4	52	0.00	L	0	-	-	21	0.0 0	L	0	-	-	31	0.07	L	0	-	-	0	-	-	57	0.14	L	7	-	-	-	20	S
242 5	208	0.00	L	0	-	-	75	0.0	L	0	-	-	133	0.11	L	0	-	-	0	-	-	206	0.06	L	11	2.67	0.10	-	18	S
243	17	0.00	L	0	-	-	4	-	-	0	-	-	25	25.00	Н	0	-	-	25	25.00	Н	25	0.47	L	8	-	-	-	2	S
245 8	45	0.00	L	0	-	-	4	-	-	0	-	-	32	0.00	L	32	0.00	L	0	-	-	63	0.40	L	18	0.64	0.64	L	2	S
246	84	0.00	L	0	-	-	65	0.0	L	0	-	-	0	-	-	0	-	-	0	-	-	90	0.07	L	6	-	-	-	4	S
246 4	108	0.00	L	0	-	-	84	0.0	L	0	-	-	26	0.13	L	0	-	-	0	-	-	258	1.46	Н	153	0.72	0.63	L	11	S
248 7	43	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	84	0.95	Н	41	40.00	40.0 0	Н	9	S
248 9	19	0.89	L	0	-	-	0	-	-	0	-	-	11	0.22	Ι	0	-	-	0	-	-	121	12.44	Н	112	36.33	8.33	Н	11	S
250 6	12	12.0 0	Н	0	-	-	0	-	-	0	-	-	2	-	-	0	-	-	0	-	-	84	84.00	Н	84	5.00	3.94	Н	25	S
251	20	0.17	L	0	-	-	8	-	-	0	-	-	10	1.50	Ι	0	-	-	0	-	-	63	4.25	Н	51	1.32	1.04	Н	3	S
251 8	34	0.00	L	0	-	-	2	-	-	0	-	-	0	-	-	0	-	-	0	-	-	146	3.29	Н	112	27.00	17.6 7	Н	3	S
252 2	8	0.00	-	0	-	-	5	-	-	0	-	-	3	-	-	0	-	-	0	-	-	55	6.86	Н	48	15.00	8.60	Н	2	S
254	51	5.38	Н	0	-	-	3	-	-	0	-	-	0	-	-	0	-	-	0	-	-	77	8.63	Н	69	68.00	22.0 0	Н	2	S
254 7	22	1.25	Н	0	-	-	9	-	-	0	-	-	4	-	-	0	-	-	0	-	-	92	10.50	Н	84	41.00	41.0 0	Н	4	S

]	Ratio A					R	atio B								ł	Ratio C						Ratio D			Rati	o E		Rati	o F
	cul	lm node grains	es:			r	achis n	odes:	grain	5						glume	bases: gra	ins				W	eed seed grains	s:	smal	l : large	weed s	eeds	Iten litro depo	ıs: es osit
le	A	ll cerea ombine	l d	Bı	ead wh	eat]	Barley			Rye		Com	bined glu wheat	me		Spelt			Emmer		All	weeds, cereals ombined	all 1		All weed	l seeds		All ite depo volu	ems, osit me
Samp	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value	Interpretation	No. of items	Value 1 (int. = small)	Value 2 (int. = large)	Interpretation	Value	Interpretation
254 9	49	0.21	L	0	-	-	38	0.7 1	Н	0	-	-	22	12.50	Н	0	-	-	0	-	-	194	7.08	Н	170	33.00	27.3 3	Н	29	D
255 0	189	0.00	L	0	-	-	5	-	-	0	-	-	185	7.20	Н	0	-	-	0	-	-	47	0.74	Н	20	4.00	4.00	Н	35	D
255 1	40	0.03	L	0	-	-	53	0.6 1	Н	0	-	-	6	-	-	0	-	-	0	-	-	131	2.97	Н	98	97.00	48.0 0	Н	20	S
255 7	11	0.11	L	0	-	-	0	-	-	0	-	-	10	0.11	L	0	-	-	0	-	-	111	11.33	Н	102	5.00	4.67	Н	9	S
256 7	2	0.00	-	0	-	-	1	-	-	0	-	-	2	-	-	0	-	-	0	-	-	64	63.00	Н	63	14.75	8.00	Н	17	S
256 8	16	16.0 0	Н	0	-	-	0	-	-	0	-	-	2	-	-	0	-	-	0	-	-	134	134.0 0	Н	134	32.50	0.91	-	38	D
257 8	23	0.00	L	0	-	-	8	-	-	0	-	-	15	0.16	L	0	-	-	0	-	-	67	2.19	Н	46	8.20	8.20	Н	3	S
258 3	18	0.00	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	77	3.28	Н	59	7.43	6.38	Н	3	S
258 4	8	0.00	-	0	-	-	0	-	-	0	-	-	8	-	-	0	-	-	0	-	-	56	8.33	Н	50	49.00	49.0 0	Н	3	S
259 0	17	0.06	L	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	87	4.44	Н	71	16.75	1.45	Н	4	S
261 0	23	0.14	L	0	-	-	6	-	-	0	-	-	16	10.71	Н	0	-	-	0	-	-	50	6.14	Н	43	2.91	2.58	Н	4	S

					Ra	tios					
	ł	B (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	0	ы	Čr.	Sample characterisation
51	L	-	-	-	L	L	-	L	L	S	Clean spelt grain
56	L	-	-	-	L	L	-	L	L	S	Clean spelt grain
59	L	-	-	-	L	L	-	L	L	S	Clean spelt grain
76	L	-	I	-	L	L	-	Η	L	S	Clean spelt grain
116	L	-	-	-	Н	Н	-	L	-	-	Spelt fine-sieving by-products *
117	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
120	L	-	-	-	Η	Н	Н	Н	L	D	Spelt fine-sieving by-products *
122	-	-	-	-	H	H	-	L	-	S	Spelt fine-sieving by-products *
123	L	-	-	-	H	H	-	L	-	S	Spelt fine-sieving by-products *
124	L	-	-	-	н	н	-	L	-	5	Spelt fine sigving by products *
123	L -	-	-	-	н	н	-	L I	-	S	Spelt fine-sieving by-products *
127	T.	_	_	_	Н	Н	_	L	T.	D	Spelt fine-sieving by-products *
129	-	-	-	-	Н	H	-	Ĺ	-	S	Spelt fine-sieving by-products *
130	-	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *
131	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
132	-	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
149	L	-	L	-	-	-	-	L	-	S	Clean barley grain
165	L	-	-	-	L	-	Н	L	-	S	Clean emmer grain
167	L	-	-	-	Η	Н	Н	Н	L	S	Spelt and emmer fine-sieving by-products *
169	L	-	-	-	L	-	-	L	L	D	Clean glume wheat grain
172	L	-	L	-	н	н	н	н	Н	S	Barley grain mixed with spelt and emmer fine-sieving
200	T		T					т	T	S	Clean barley grain
200	L	-	L	-	- I	- T	-	L H	L	S	Clean barley grain mixed with sieved spelt spikelets
202	L		Ъ		1	1			Ъ	5	Clean barley grain mixed with sleved sport spikelets
203	L	-	L	-	-	-	-	Н	L	S	Clean barley grain
234	L	-	L	-	-	-	-	L	-	-	Clean barley grain
235	L	-	L	-	-	-	-	L	-	-	Clean barley grain
236	L	-	L	-	- TT	- TT	- TT	L	- TT	- D	Clean barley grain
249	L	-	-	-	н	н	н	н	н	D	Spelt fine cieving by products *
273	L -	-	-	-	н	н	- Н	L H	-	-	Spelt and emmer fine-sieving by-products
273	L	_	L	_	Н	Н	Н	L	-	S	Clean barley grain mixed with spelt and emmer fine-
27.	-		-					-		2	sieving by-products *
275	L	-	-	-	Ι	-	Н	L	-	D	Emmer spikelets
276	L	-	-	-	Ι	-	-	Н	L	S	Sieved glume wheat spikelets
283	L	-	L	-	Ι	Н	-	L	-	D	Clean barley grain mixed with sieved spelt and emmer
201	÷				-					5	spikelets
284		-	-	-	1	1	-	H	H	D	Speit spikelets
285	L I	-	- T	-	I T	1 T	-	L I		ь D	Clean batley and spelt grain
288	L	-	-	-	H	H	-	H	I	D	Shelt fine-sieving by-products *
305	L	-	-	-	Н	Н	-	L	L	D	Spelt fine-sieving by-products *
307	Ĺ	-	L	-	L	-	L	L	-	S	Clean barley and emmer grain
312	L	-	L	-	Н	-	Н	Н	Н	D	Barley grain mixed with emmer fine-sieving by-
313	L	-	L	-	Ι	Н	Н	Н	Н	D	Barley grain mixed with emmer fine-sieving by- products
314	L	-	L	-	L	-	L	L	L	S	Clean barley and emmer grain
315	L	-	Н	-	Ι	Н	Н	Н	L	D	Sieved spelt and emmer spikelets
316	L	-	L	-	Ι	-	-	Н	L	D	Sieved glume wheat spikelets
317	L	-	-	-	Ι	Н	Н	L	L	S	Sieved spelt and emmer spikelets
322	L	-	L	-	Ι	-	Ι	L	-	S	Clean barley grain mixed with sieved emmer spikelets
334	-	_	-	-	н	-	н	н	н	S	Emmer fine-sieving by-products
349	L	-	-	-	Н	L	Н	Н	L	S	Glume wheat fine-sieving by-products *
357	-	-	-	-	Н	H	Н	Н	Ĺ	Š	Spelt and emmer fine-sieving by-products
364	L	-	-	-	Н	Н	-	Н	Н	D	Spelt fine-sieving by-products
365	-	-	-	-	Н	Н	-	Н	-	D	Spelt fine-sieving by-products *
366	L	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *

Table A2.2. Characterisation of crop-processing derivation by sample.

					Ra	tios					
	A	B (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	0	ы	Čr.	Sample characterisation
367	L	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *
368	L	-	-	-	Н	Η	-	L	-	D	Spelt fine-sieving by-products *
369	-	-	-	-	Н	Н	-	-	-	D	Spelt fine-sieving by-products *
371	L	-	L	-	Н	Н	-	L	-	D	Clean barley grain mixed with spelt fine-sieving by- products*
372	L	-	L	-	Н	Н	-	L	Н	D	Clean barley grain mixed with spelt fine-sieving by- products*
373	L	-	L	-	Н	Н	-	L	-	D	Clean barley grain mixed with spelt fine-sieving by- products*
374	L	-	Н	-	Н	Н	-	Н	L	D	Spelt and barley fine-sieving by-products *
375	L	-	L	-	Н	Н	-	L	L	D	Clean barley grain mixed with spelt fine-sieving by-
376	L	-	L	-	I	Ι	-	L	L	D	products * Clean barley grain mixed with sieved spelt spikelets
377	L	-	I	-	н	н	-	L	-	D	Spelt and harley fine-sieving by-products *
378	L	_	I	_	Н	Н	_	L	н	D	Spelt and barley fine-sieving by-products *
379	L	-	L	-	Н	Н	-	L	Н	D	Spelt fine-sieving by-products *
380	L	-	L	-	Н	Н	-	H	-	D	Spelt fine-sieving by-products
381	L	-	L	-	Ι	Ι	-	L	L	S	Clean barley grain mixed with sieved spelt spikelets
382	L	-	Н	-	Н	Н	-	Н	Н	D	Spelt and barley fine-sieving by-products
383	L	-	-	-	Н	Η	-	Η	Η	D	Spelt fine-sieving by-products
384	L	-	-	-	L	L	-	L	Н	-	Clean spelt grain
385	L	-	-	-	L	L	-	L	-	-	Clean spelt grain
386	L	-	-	-	L	L	-	L	-	-	Clean spelt grain
423	L	-	н	-	н	н	н	н	н	D	Spelt fine-sieving by-products mixed with barley early-
430					ц		ц	ц	ц	D	Emmer fine sieving by products
451	_	_	_	_	Н	н	Н	Н	Н	D	Spelt and emmer fine-sieving by-products
452	L	-	-	-	Н	Н	Н	Н	-	S	Spelt and emmer fine-sieving by-products
454	-	-	-	-	Н	Н	Н	Н	-	S	Spelt and emmer fine-sieving by-products
457	L	-	-	-	Н	Н	Н	L	-	S	Spelt and emmer fine-sieving by-products
466	-	-	-	-	Н	-	Η	-	-	S	Emmer fine-sieving by-products *
471	L	-	-	-	Н	-	Н	Η	Н	S	Emmer fine-sieving by-products
474	L	L	L	-	L	L	-	L	-	D	Clean spelt grain
475	L	-	-	-	Н	Η	-	L	-	D	Spelt fine-sieving by-products *
478	L	-	-	-	H	H	-	L	-	S	Spelt fine-sieving by-products *
479	L	-	-	-	1	I	-	H	L	S	Sieved spelt spikelets
484		-	-	-	н	н	-	н	н	3 D	Spelt fine sieving by products
485	L	-	-	-	н	н	-	н	н	D	Spelt fine-sieving by-products
487	L	-	-	-	L	L	-	Н	Н	S	Spelt grain mixed with small weed seeds
488	L	-	-	-	Н	Н	-	Н	Н	-	Spelt fine-sieving by-products
501	-	-	-	-	Н	Н	Н	Н	-	S	Spelt and emmer fine-sieving by-products
546	L	-	L	-	-	-	-	L	Н	D	Barley grain mixed with small weed seeds
547	L	-	L	-	L	L	-	L	L	S	Clean spelt and barley grain
548	L	-	L	-	L	L	-	L	L	S	Clean spelt grain
550	L	-	-	-	-	-	-	L	-	S	Clean indeterminate wheat grain
556	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
557		-	L	-	-	-	-		-	- D	Clean indeterminate wheat grain
550		-	- T	-	-	-	-	L	-	D	Clean indeterminate wheat grain
560	I	-	-	-	-	-	-	I	-	- D	Clean indeterminate wheat grain
561	L	-	-	-	-	-	-	Ľ	-	D	Clean indeterminate wheat grain
562	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
563	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
564	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
565	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
566	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
567	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
568		-	-	-	-	-	-		-	- D	Clean indeterminate wheat grain
570		-	-	-		-	-	L	-	D	Clean indeterminate wheat grain
571	L	-	-	-	-	-	-	L	-	- D	Clean indeterminate wheat grain
											- · · · · · · · · · · · · · · · · · · ·

					Ra	tios					
	V	B (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	0	Ъ	ł.	Sample characterisation
572	L	-	-	-	L	L	-	L	-	D	Clean spelt grain
573	L	-	-	-	L	L	-	L	-	D	Clean spelt grain
574	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
575	L	-	- T	-	L	L	-	L	-	D	Clean spelt grain
570		-	L	-	L	L	-	L	- T	D	Clean spelt grain
578	L	-	-	-	L	- L	-	L	-	D	Clean spelt grain
579	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
580	L	-	-	-	-	-	-	L	-	D	Clean indeterminate wheat grain
581	L	-	L	-	-	-	-	L	-	D	Clean indeterminate wheat grain
588	L	-	L	-	L	-	-	L	Н	S	Barley and glume wheat (spelt?) grain mixed with small weed seeds
594	L	-	L	-	Н	Н	-	Н	Н	S	Barley grain mixed with spelt fine-sieving by-products
595	L	-	Н	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products mixed with barley early- processing by-products
596	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products
607	L	L	-	-	I	I	-	H	Н	D	Bread wheat grain mixed with spelt spikelets
623	L	-	-	-	H U	H	-	I U	-	D	Spelt fine-sieving by-products *
625	-	-	-	-	Н	Н	-	I	-	D	Spelt fine-sieving by-products *
626	-	-	-	-	Н	Н	-	Н	-	D	Spelt fine-sieving by-products *
627	L	-	-	-	Н	Н	-	Н	-	D	Spelt fine-sieving by-products *
628	L	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *
629	L	-	-	-	H	H	-	L	-	D	Spelt fine-sieving by-products *
630	L	-	-	-	H	H	-	L	-	D	Spelt fine-sieving by-products *
631	- T	-	-	-	H U	H U	-	L	- T	D	Spelt fine sieving by products *
634	L	-	-	-	L	-	Н	H	L	S	Clean glume wheat grain
635	L	-	-	-	Н	Н	-	Н	-	Š	Spelt fine-sieving by-products
636	L	-	Н	-	Ι	Ι	-	Н	Н	S	Spelt spikelets mixed with barley early processing by- products
637	L	-	-	-	L	-	-	Η	Н	D	Glume wheat grain mixed with small weed seeds
638	L	-	-	-	Н	Н	-	Н	L	D	Spelt fine-sieving by-products *
639	L	-	-	-	I	I	-	H	L	D	Sieved spelt spikelets
640		-	-	-	H U	H U	-	L	- Ц	5 D	Spelt fine sieving by products *
642	L	-	-	-	Н	Н	-	L	L	S	Spelt fine-sieving by-products *
643	L	-	-	-	Н	Н	Н	L	-	Š	Spelt and emmer fine-sieving by-products *
645	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
646	-	-	-	-	Н	Н	-	-	-	F	Spelt fine-sieving by-products *
647	Ĺ	-	-	-	H	H	-	H	H	S	Spelt fine-sieving by-products
651	L	-	- T	-	н	н	-	н т	н т	Г S	Spen file-sleving by-products
654	L	-	L	-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
656	L	-	L	-	-	-	-	L	L	-	Clean barley and indeterminate wheat grain
657	L	-	-	-	-	-	-	L	-	-	Clean indeterminate wheat grain
658	L	-	L	-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
660	L	-	L	-	-	-	-	L	L	-	Clean barley and indeterminate wheat grain
663		-		-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
665	L	-	L	-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
666	L	-	L	-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
668	L	-	L	-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
673	L	-	L	-	-	-	-	L	-	-	Clean barley and indeterminate wheat grain
678	L	-	L	-	-	-	-	L	L	-	Clean barley and indeterminate wheat grain
680		-	L	-	-	-	-	L	L	-	Clean barley and indeterminate wheat grain
693	I I	-	- T	-	-	-	-	I L	-	-	Clean barley and indeterminate wheat grain
694	Ľ	-	-	-	-	-	-	Ľ	-	-	Clean indeterminate wheat grain
718	L	L	L	-	L	L	L	L	L	D	Clean barley, bread wheat, spelt and emmer grain
719	L	L	-	-	-	-	-	Н	Н	S	Bread wheat fine-sieving by-products
720	L	L	-	-	Ι	Н	L	L	-	D	Clean bread wheat grain mixed with sieved spelt and

					Ra	tios					
	A	B (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	D	E	H	Sample characterisation
721	L	L	-	-	н	н	-	н	L	D	emmer spikelets Clean bread wheat grain mixed with spelt fine-sieving
721										2	by-products *
722	L	L	-	-	н	н	-	Н	L	D	Clean bread wheat grain mixed with spelt fine-sieving by-products *
727	L	-	-	-	L	L	-	L	-	S	Clean spelt grain
728	L	L	-	-	L	-	-	L	-	S	Clean bread wheat and glume wheat grain
729	L	-	L	-	H	H	-	H	L	D	Spelt and barley fine-sieving by-products *
730	- T	- T	-	-	H U	H U	-	H U	L	5 D	Spelt and bread wheat fine sieving by products *
732	L	L	-	-	н	н	-	н	H	S	Bread wheat grain mixed with spelt fine-sieving by-
152	L	L			**	**				5	products
733	L	L	-	-	Н	Н	-	L	L	S	Clean bread wheat grain mixed with spelt fine-sieving by-products *
734	L	-	-	-	L	-	-	L	-	S	Clean glume wheat grain
737	L	-	-	-	Η	Η	-	Η	Η	S	Spelt fine-sieving by-products
738	L	-	-	-	I	Н	-	Н	Н	S	Spelt spikelets
741	L	-	-	-	I	H	-	L	-	S	Spelt spikelets
743	L	-	- T	-	H	H	-	H	L	S	Spelt fine-sieving by-products *
747	L	-	L	-	I U	I U	-	L	-	5	Clean barley grain mixed with sleved spelt spikelets
748	L	-	- L	-	н	н	-	L	- L	S	Clean barley grain mixed with spelt fine-sieving by-
, 15	2		2					2	2	5	products *
751	L	-	L	-	L	L	-	L	-	S	Clean spelt and barley grain
752	L	-	L	-	Н	Н	-	L	-	S	Clean barley grain mixed with spelt fine-sieving by-
753	L	-	L	-	Ι	Ι	-	L	L	S	products * Clean barley grain mixed wth sieved spelt spikelets
754	L	-	L	-	Ι	Ι	-	L	L	S	Clean barley grain mixed wth sieved spelt spikelets
755	L	-	L	-	Н	Н	-	L	L	D	Spelt and barley fine-sieving by-products *
756	L	-	-	-	Н	Н	-	L	L	D	Spelt fine-sieving by-products *
757	L	-	-	-	Η	Η	-	L	L	S	Spelt fine-sieving by-products *
758	L	-	L	-	Н	Н	-	L	L	D	Clean barley grain mixed with spelt fine-sieving by- products *
759	L	L	L	-	Н	Н	-	Н	L	D	Clean barley and bread wheat grain mixed with spelt fine-sieving by-products *
760	L	-	L	-	Н	Н	-	L	L	D	Clean barley grain mixed with spelt fine-sieving by- products *
761	L	-	-	-	H	H	-	H	L	D	Spelt fine-sieving by-products *
762	L	-	L	-	н	н	-	L	L	D	Clean barley grain mixed with spelt fine-sieving by- products *
763	L	-	L	-	Ι	Ι	-	L	L	S	Clean barley grain mixed with sieved spelt spikelets
764	L	-	L	-	Н	Н	-	Н	L	D	Spelt and barley fine-sieving by-products *
765	L	-	Н	-	H	H	-	H	L	D	Spelt and barley fine-sieving by-products *
767	L	-	- T	-	H	H	-	H	L	D	Spelt and barley fine-sieving by-products
/08		-	L	-	1	1	-		L	5	Clean barley grain mixed with sieved spelt spikelets
771	L	-	- T	-	н н	н н	-	L H	- T	S D	Spent netsieving by-products *
775	T	-	T	-	11	11	-	T	T	D	products *
776	L	-	I.	-	I	I	-	L	L	S	Clean barley grain mixed with sieved spelt spikelets
777			-		-	-		-	-		
111		-	L U	-	H	H	-	H		D	Speit and barley fine-sieving by-products *
770	L I	-	п	-	п	п	-	L I	I L	<u>л</u>	Spent and barley fine-sieving by-products *
780	L	-	-	-	I	I	-	L	-	S	Sieved spelt spikelets
782	Ĺ	-	-	-	H	H	-	Ĺ	-	S	Spelt fine-sieving by-products *
783	L	-	Н	-	Н	Н	-	L	Н	D	Spelt and barley fine-sieving by-products *
784	L	-	L	-	Н	Н	-	L	L	S	Spelt and barley fine-sieving by-products *
786	L	-	-	-	Н	Н	-	L	L	S	Spelt fine-sieving by-products *
797	L	-	-	-	Ι	Ι	-	L	-	S	Spelt spikelets
798	L	-	L	-	-	-	-	L	L	S	Clean barley grain

					Ra	tios					
		t (bread wheat)	t (barley)	t (Rye)	(combined)	C (spelt)	c (emmer)			r	Sample characterisation
804	-₹ L	-	-	-	н	н	_	I.	-	S	Spelt fine-sieving by-products *
805	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
806	L	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *
810	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
811	L	-	-	-	Η	Н	-	Η	-	S	Spelt fine-sieving by-products *
813	L	-	L	-	Η	Η	-	L	-	S	Spelt and barley fine-sieving by-products *
814	L	-	-	-	Н	Η	-	L	-	S	Spelt fine-sieving by-products *
817	L	-	-	-	Ι	L	-	L	-	S	Sieved spelt spikelets
819	L	-	-	-	Η	Н	-	L	-	S	Spelt fine-sieving by-products *
823	L	-	L	-	Н	Н	-	L	L	D	Clean barley grain mixed with spelt fine-sieving by- products *
824	L	-	Н	-	Η	Н	-	Н	Н	S	Spelt and barley fine-sieving by-products
825	L	-	L	-	Н	Н	-	L	L	S	Clean barley grain mixed with spelt fine-sieving by-
							L				products *
826	L	-	L	-	Н	Н	-	L	L	D	Clean barley grain mixed with spelt fine-sieving by- products *
827	L	-	L	-	Н	Н	-	L	L	D	Spelt and barley fine-sieving by-products *
828	L	-	L	-	Η	Н	-	L	L	D	Spelt and barley fine-sieving by-products *
829	L	-	L	-	Н	Н	-	L	L	D	Spelt and barley fine-sieving by-products *
830	L	-	L	-	Ι	Ι	-	L	L	D	Clean barley grain mixed with sieved spelt spikelets
831	L	-	L	-	I	I	-	L	L	S	Clean barley grain mixed with sieved spelt spikelets
834	L	-	-	-	I	I	-	L	-	S	Sieved spelt spikelets
835	L	-	-	-	I	I	-	L	L	S	Sieved spelt spikelets
836	L	-	-	-	I	I	-	L	- T	S	Sieved spelt spikelets
840	L	-	-	-	I	I	-	L	L	5	Sieved spelt spikelets
842	L	-	- T	-	п	н	-	L	-	5	Clean harlow grain mixed with signed shalt shikelets
851	I	-	L	-	н Н	н Н	-	L	-	S	Clean barley grain mixed with spelt fine-sieving by-
0.51	L	-	L	-	11	11	-	L	-	3	products *
853	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
854	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
855	L	-	L	-	Н	Н	-	L	L	D	Spelt and barley fine-sieving by-products *
857	L	-	L	-	L	L	-	L	-	S	Clean spelt and barley grain
863	L	-	-	-	Η	Н	-	L	-	S	Spelt fine-sieving by-products *
866	L	-	L	-	Н	Н	-	L	L	S	Clean barley grain mixed with spelt fine-sieving by- products *
869	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
870	L	-	L	-	Н	Н	-	L	-	S	Clean barley grain mixed with spelt fine-sieving by- products *
873	L	-	L	-	I	I	-	L	-	S	Clean barley grain mixed with sieved spelt spikelets
891	L	-	-	-	Н	Н	-	L	L	-	Spelt fine-sieving by-products *
892	L	-	-	-	Н	Н	-	L	-	-	Spelt fine-sieving by-products *
893	-	-	-	-	Н	Н	-	-	-	-	Spelt fine-sieving by-products *
904	L	-	-	-	L	-	-	L	L	-	Clean spelt grain
931	L	-	-	-	Η	Н	-	L	-	S	Spelt fine-sieving by-products *
932	L	-	-	-	H	-	H	L	-	S	Emmer fine-sieving by-products *
933	L	-	-	-	H	Н	н		L	S	Spelt and emmer fine-sieving by-products *
938	L	-	- T	-		-	-	L	-	5	Clean barlay and always wheat small
940		-		-		-	-		-	5	Clean barley and glume wheat grain
941	L	-		-		-	-	I L	-	5	Clean dume wheat grain
945	L	-	-	-	L	н	-	L	T.	S	Clean spelt grain
946	L	-	L	-	L	-	-	H	H	S	Barley and glume wheat grain mixed with small weed
047	T		T				<u> </u>	T	<u> </u>	S	Secus Clean barley grain
947	L	-		-	- T	-	-	L	- T	5 C	Clean glume wheat grain
940	I	-	-	-	г Т	-	-	I	I	S	Clean glume wheat grain
952	Ĺ	-	-	-	ī	Н	-	Н	Ĺ	S	Sieved spelt spikelets
953	L	-	-	-	H	Н	-	Н	L	Š	Spelt fine-sieving by-products *
954	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products
956	L	-	-	-	Ι	Ι	-	Н	Н	D	Spelt spikelets
957	L	-	-	-	L	-	-	L	L	D	Clean glume wheat grain
971	-	-	-	-	-	-	-	Η	Η	D	Small weed seeds

					Ra	tios					
	V	B (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	D	Е	H	Sample characterisation
985	L	-	-	-	L	-	-	L	L	S	Clean glume wheat grain
986	L	-	-	-	L	L	-	L	L	D	Clean spelt grain
987	L	-	L	-	-	-	-	Н	Н	S	Barley grain mixed with small weed seeds
988	L	-	-	-	I	-	-	H	H	D	Glume wheat spikelets
989	L	-	L	-	I	Н	-	H	H	D	Barley grain mixed with small weed seeds
991	L	-	L	-	- T	- T	-	H	Н	S	Barley grain mixed with small weed seeds
1011	L	-	L	-	L	L	-	L U	- 11	D c	Small wood soads
1020	T	-	T	-	-	-	-	н	н	S	Barley fine-sieving by-products
1033	L	-	L	-	-	-	-	L	L	-	Clean indeterminate wheat grain
1035	L	-	-	-	L	L	-	L	L	-	Clean spelt grain
1036	L	-	L	-	-	-	-	L	-	-	Clean barley grain
1038	L	-	L	-	-	-	-	L	L	-	Clean barley grain
1039	L	-	L	-	L	L	-	L	L	D	Clean spelt grain
1085	L	-	-	-	Н	Η	-	Н	-	D	Spelt fine-sieving by-products
1086	L	-	-	-	I	Ι	-	L	L	D	Sieved spelt spikelets
1092	L	-	L	-	I	-	-	H	L	S	Clean barley grain mixed with sieved spelt spikelets
1093	-	-	-	-	н	Н	-	H U	H U	5	Spelt line-sleving by-products
1094	- T	-	- T	-	- T	-	-	П	п	S	Clean barley and glume wheat grain
1099	L	_	L	_	Н	Н	_	L	T.	S	Clean barley grain mixed with spelt fine-sieving by-
10///	-		-							2	products *
1100	-	-	-	-	Η	Η	-	Η	-	S	Spelt fine-sieving by-products *
1102	-	-	-	-	Η	Η	-	Η	L	S	Spelt fine-sieving by-products *
1103	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
1105	L	-	-	-	I	H	-	H	L	S	Sieved spelt spikelets
1113	L	-	н	-	н	н	-	н	н	S	Spelt fine-sieving by-products mixed with barley early-
1116	-	-	-	_	н	н	-	н	н	S	Spelt fine-sieving by-products
1110	L	-	-	-	Н	Н	-	H	L	S	Spelt fine-sieving by-products
1120	-	-	-	-	I	-	-	Н	H	S	Glume wheat spikelets
1126	L	-	-	-	Η	Η	-	Η	Η	S	Spelt fine-sieving by-products
1128	L	-	-	-	Η	Η	-	Η	Η	S	Spelt fine-sieving by-products
1129	-	-	-	-	H	H	-	H	-	S	Spelt fine-sieving by-products *
1131	L	-	-	-	H	H	-	H	L	S	Spelt fine-sieving by-products *
1133	L	-	-	-	н	н	-	н	L U	2	Spelt fine sieving by products **
1139	L -	-	-	-	н	н	-	н	П	S	Spelt fine-sieving by-products *
1144	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1149	-	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1152	-	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1153	L	-	-	-	Ι	-	-	Н	-	S	Glume wheat spikelets
1167	L	-	-	-	Н	H	-	H	L	S	Spelt fine-sieving by-products *
1176	Ĺ	-	Ĺ	-	1	H	-	H	H	S	Barley grain mixed with spelt fine-sieving by-products
1186	L	-	-	-	H	H	-	H	L	5	Spelt fine sieving by products *
1193	L	-	- T	-	п	п	-	п	- И	5	Spen fille-sleving by-products Barley grain mixed with spelt fine sieving by products
1195	-	-	-	-	Н	Н	-	Н	L	S	Shelt fine-sieving by-products *
1198	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
1199	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
1200	-	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1203	-	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1204	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
1214	L	-	-	-	I	L	-	H	Н	D	Spelt spikelets
1216	Ĺ	-	-	-	H	H	-	L	- T	S	Spelt fine-sieving by-products *
1231		-	-	-	1 Ц	1 प	-	L U	L Ц	D c	Solution Special Speci
1232	L	-	-	-	н	н	-	н	н	S	Spelt fine-sieving by-products
1235	L	-	-	-	Н	Н	-	Н	Н	D	Spelt fine-sieving by-products
1237	L	-	L	-	L	Н	-	L	-	S	Clean barley and spelt grain
1238	L	-	-	-	Ι	Н	-	Н	-	S	Sieved spelt spikelets
1239	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products
1240	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products

					Ra	tios					
	Ţ	3 (bread wheat)	3 (barley)	3 (Rye)	C (combined)	C (spelt)	C (emmer)	0	ſŢ	۲.	Sample characterisation
1241	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1242	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
G	L	-	-	-	Ι	-	-	Н	Η	S	Glume wheat spikelets
1245	L	-	-	-	Ι	Н	-	Η	L	S	Sieved spelt spikelets
1246	L	-	-	-	Н	Η	Η	Η	L	S	Spelt and emmer fine-sieving by-products *
1247	L	-	-	-	Н	Η	Η	Η	L	D	Spelt fine-sieving by-products *
1248	L	-	-	-	L	-	-	Н	L	S	Clean glume wheat grain
1249	L	-	-	-	H	H	-	L	L	D	Spelt fine-sieving by-products *
1250	L	-	-	-	I	I	-	H	L	S	Sieved spelt spikelets
1251	L	-	-	-	1	- TT	- TT	H	L	5	Sieved spelt and emmer spikelets
1252	- T	-	- T	-	н	н	н	н	н	D c	Spelt fine sieving by products
1253	L	-	L	-	п	п	- Н	п	п	S	Spelt fine-sieving by-products *
1255	L	_	_	_	I	-	-	H	T.	S	Sieved glume wheat spikelets
1256	Ĺ	-	-	-	H	Н	Н	Н	H	S	Spelt and emmer fine-sieving by-products
1259	-	-	-	-	H	Н	-	Н	L	S	Spelt fine-sieving by-products *
1264	L	-	-	-	I	I	-	Н	H	S	Spelt spikelets
1265	L	-	-	-	Ι	Н	-	Н	L	S	Sieved spelt spikelets
1266	L	-	L	-	Н	Н	Н	Н	Η	D	Barley grain mixed with spelt fine-sieving by-products
1267	L	-	L	-	Ι	Н	-	L	L	S	Clean barley grain mixed with sieved spelt spikelets
1269	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1270	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products
1275	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1276	-	-	-	-	Н	Η	-	Η	-	S	Spelt fine-sieving by-products *
1277	-	-	-	-	Н	Н	-	Η	Η	S	Spelt fine-sieving by-products
1280	L	-	-	-	I	Ι	-	H	L	S	Sieved spelt spikelets
1281	- *	-	-	-	l	-	-	H	L	S	Sieved spelt spikelets
1284	L	-	- TT	-	L	-	-	H	L	S	Clean spelt grain
1207	L	-	п	-	- Ц	- Ц	-	п	п	5	Spalt fine sieving by products
1290	Ī.	_	_	_	I	I	_	Н	Н	-	Spelt snikelets
1292	L	-	I	-	I	I	-	Н	Н	S	Barley grain mixed with spelt spikelets
1300	L	-	L	-	L	L	-	Н	Н	S	Barley fine-sieving by-products
1301	L	-	Ι	-	-	-	-	Н	Н	S	Barley fine-sieving by-products
1302	L	-	L	-	Ι	Ι	-	Н	Η	S	Barley fine-sieving by-products
1303	L	-	L	-	-	-	-	Η	Η	S	Barley fine-sieving by-products
1305	L	-	L	-	L	-	-	Η	Η	S	Barley and spelt grain mixed with small weed seeds
1306	-	-	-	-	-	-	-	Η	Η	S	Small weed seeds
1307	-	-	-	-	-	-	-	H	H	S	Small weed seeds
1308	- *	-	- -	-	H	H	-	H	Н	S	Spelt fine-sieving by-products
1315	L	-	L	-	1	1	- 17		- T	- C	Clean barley grain mixed with sieved spelt spikelets
1323	L	-	-	-	п	п	п	п	ь ц	5 C	Spelt and emmer fine sieving by products "
1337	I	-	-	-	-	-	- -	н	н	S	Glume wheat spikelet-sieving by-products
1344	L	-	L	-	L	Н	-	L	L	D	Clean barley and spelt grain
1345	L	-	L	-	L	L	-	LL	L	D	Clean spelt grain
1346	L	-	L	-	L	L	-	L	L	D	Clean spelt grain
1347	L	-	L	-	L	L	-	L	L	D	Clean barley and spelt grain
1348	L	-	L	-	L	L	-	L	L	D	Clean spelt grain
1349	L	-	-	-	L	L	-	L	L	D	Clean spelt grain
1350	L	-	L	-	L	L	-	Н	L	D	Clean spelt grain
1351	L	-	L	-	L	L	-	L	L	D	Clean spelt grain
1352	L	-	L	-	L	L	-	L	L	D	Clean spelt grain
1353	L	-	L	-	L	L	-	L	L	D	Clean spelt grain
1354		-	L	-		L	-		L	D	Clean barley and spelt grain
1357	L	-	-	-	1	- 17	-		- T	S	Giume wheat spikelets
1360	L	-	-	-	п	п	-	п	L	5 C	Spelt spikelets
1367	I				T	н		H	- Н	S	Spelt spikelets
1363	L	-	-	-	I	Н	-	Н	L	S	Sieved spelt spikelets
1364	Ĺ	-	-	-	J	Н	-	Н	Ē	D	Sieved spelt spikelets
1365	Ĺ	-	-	-	H	Н	-	Н	Ĺ	S	Spelt fine-sieving by-products *
1366	L	-	L	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products

					Ra	tios					
	A	B (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	Q	E	Ē	Sample characterisation
1369	L	-	L	-	-	-	-	Н	Н	S	Barley grain mixed with small weed seeds
1371	L	-	L	-	Н	Н	-	Н	L	S	Clean barley grain mixed with spelt fine-sieving by- products *
1372	L	-	L	-	Н	Н	-	L	Н	D	Clean barley grain mixed with spelt fine-sieving by- products *
1373	L	-	-	-	L	L	-	L	L	D	Clean spelt grain
1374	L	-	-	-	L	L	-	L	Н	D	Clean spelt grain
1375	L	-	L	-	Ι	Η	-	Η	Η	S	Barley grain mixed with spelt spikelets
1376	L	-	-	-	Н	H	-	L	Н	S	Spelt fine-sieving by-products *
1382	L	-	L	-	I	H	-	L	L	S	Clean barley grain mixed with sieved spelt spikelets
1388	L	-	-	-	L	L	-	L	-	5	Clean spelt grain
1391	L	-	-	-	п	п	-	L H	- Н	5	Glume wheat spikelets
1395	L	_	_	_	L	_	_	L	Н	S	Clean spelt grain
1397	L	-	-	-	L	Н	-	L	Н	S	Clean spelt grain
1398	L	-	-	-	Ι	Н	-	L	-	S	Sieved spelt spikelets
1399	L	-	-	-	Η	Η	-	L	-	S	Spelt fine-sieving by-products *
1400	L	-	-	-	L	-	-	L	Н	S	Clean glume wheat grain
1401	L	-	-	-	L	-	-	L	L	D	Clean glume wheat grain
1403	L	-	-	-	L	-	-	Η	L	S	Clean glume wheat grain
1404	L	-	-	-	Η	Η	-	L	L	S	Spelt fine-sieving by-products *
1405	-	-	-	-	H	H	H	-	-	S	Spelt and emmer fine-sieving by-products *
1406	L	-	-	-	H	H	Н	L	L	D	Spelt fine-sieving by-products *
1407	-	-	-	-	н	н	-	-	-	5	Spelt fine gigving by products *
1408	- T	- T	-	-	н	н	-	- T	- T	D	Spelt fine-sieving by-products *
1411	I	L -	_	-	I	-	-	I	- L	S	Clean glume wheat grain
1412	L	-	-	-	Н	н	-	Н	н	S	Spelt fine-sieving by-products
1413	L	-	-	-	Н	Н		Н	Н	S	Spelt fine-sieving by-products
1414	L	-	-	-	Н	Н	-	Ι	L	S	Spelt fine-sieving by-products *
1417	-	-	-	-	Н	Н	Η	-	-	S	Spelt and emmer fine-sieving by-products *
1419	L	1	1	1	Η	Η	1	L	L	S	Spelt fine-sieving by-products *
1420	L	-	-	-	Η	Η	-	Η	Н	S	Spelt fine-sieving by-products
1421	L	-	-	-	H	H	-	H	Н	S	Spelt fine-sieving by-products
1422	- *	-	-	-	H	H	-	H	-	S	Spelt fine-sieving by-products
1423	L	- T	-	-	H	H	- TT		- т	S	Spelt fine-sieving by-products *
1424	L	L	-	-	н	н	н	н	L	D	Spelt and emmer line-sleving by products
1425	I	-	-	-	н	- H	-	н	H	S	Spelt fine-sieving by-products
1428	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products *
1430	L	-	-	-	Н	Н	-	L	-	S	Spelt fine-sieving by-products *
1432	L	-	-	-	Ι	Н	-	Н	Н	S	Spelt spikelets
1433	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
1434	L	-	L		Ι	Н	-	L	Н	S	Barley grain mixed with spelt spikelets
1435	L	-	-	-	H	H	Н	L	L	D	Spelt fine-sieving by-products *
1437	L	-	-	-	H	H	-	H		S	Spelt fine-sieving by-products *
1454		-	- T	-	I T	1	-	L Ц	L U	- D	Sieved spelt spikelets Barley grain mixed with gluma wheat gritelets
1457	L I	-		-	н Н	- Н	- Н	н	п -	<u>л</u>	Solution Spikelets
1464	L	-	-	-	Н	-	Н	Н	н	D	Emmer fine-sieving by-products *
1467	-	-	-	-	Н	Н	Н	H	H	D	Spelt and emmer fine-sieving by-products *
1470	-	-	-	-	Н	Н	Н	Н	-	D	Spelt and emmer fine-sieving by-products *
1471	L	L	-	-	Н	Н	Н	Н	-	S	Spelt and emmer fine-sieving by-products *
1480	L	-	L	-	L	-	-	L	Н	D	Barley and glume wheat grain mixed with small weed seeds
1481	L	-	L	-	Ι	Н	Н	L	Н	D	Spelt and emmer spikelets
1482	L	-	L	-	Ι	Н	Н	Н	L	S	Clean barley grain mixed with sieved spelt and emmer
	L		L								spikelets
1483	L	-		-		H	-	H	H	S	Barley and spelt grain mixed with small weed seeds
1484	L	-	L	-	I	H	-	L	H	S	Barley grain mixed with spelt spikelets
1485	L	-	- T	-	L I	п	-	п	L I	5 D	Sieved spelt spikelets
1400	ь I	-	ь н	-	T	н	-	н	ь н	2	Shered spinelets
1407	1		11		1	**		**	**	5	Sport spirelets

					Ra	tios								
	F	8 (bread wheat)	B (barley)	B (Rye)	C (combined)	C (spelt)	C (emmer)	0	FJ	۲.	Sample characterisation			
1488	L	-	-	-	L	-	-	L	-	S	Clean glume wheat grain			
1489	L	-	-	-	L	-	-	L	-	D	Clean glume wheat grain			
1490	L	-	-	-	L	Η	-	L	-	S	Clean spelt grain			
1491	L	-	-	L	I	H	-	L	H	D	Spelt spikelets			
1492	L	-	-	- T	I II	H	-	L	H	D	Spelt spikelets			
1493	L	-	-	L	H I	н	- Ц	L	L H	D	Clean spelt and emper grain			
1494	L	-	-	-	I	H	-	L	H	D	Spelt spikelets			
1496	L	-	-	-	I	Н	-	L	-	S	Spelt spikelets			
1497	L	-	L	-	Ι	Н	-	L	Н	D	Spelt spikelets			
1498	L	-	1	-	Н	Н	-	L	Н	D	Spelt fine-sieving by-products *			
1499	L	-	-	-	H	H	-	L	Н	D	Spelt fine-sieving by-products *			
1500	L	- T	-	-	H	H	-	L	- TT	S	Spelt fine-sieving by-products *			
1501	L	L	- T	-	1	н	-	L	H I	D S	Clean spelt grain			
1502	L	L	L	-	-	-	-	г	L	3	fine-sieving by-products *			
1503	L	L	-	-	-	-	-	L	Н	S	Clean bread wheat grain			
1537	L	-	L	-	Н	Н	-	L	L	S	Spelt and barley fine-sieving by-products *			
1539	L	-	-	-	Н	Н	-	L	Н	D	Spelt fine-sieving by-products *			
1540	L	-	-	-	H	H	-	L	H	D	Spelt fine-sieving by-products *			
1544	L	-	-	-	L	L	-	H	H	S D	Spelt grain mixed with small weed seeds			
1540	- T	-	-	-	- T	- T	-	п	п	S	Spelt spikelets			
1554	L	-	-	-	H	H	Н	L	L	D	Spelt fine-sieving by-products *			
1556	L	-	L	-	L	-	L	L	Н	D	Barley and emmer grain mixed with small weed seeds			
1557	L	-	L	-	L	-	L	L	L	D	Clean barley and emmer grain			
1558	L	-	L	-	-	-	-	L	Н	S	Clean barley grain			
1560	L	-	L	-	L	-	L	L	H	D	Clean barley grain			
1562	L	-	L	-	I U	- 11	1	L	H U	D	Clean barley grain			
1565		-	- T	-	П	п	-	П	п	S	Clean barley and glume wheat grain			
1566	L	-	L	-	I	-	-	H	Н	S	Barley grain mixed with glume wheat spikelets			
1568	L	-	-	-	Н	Н	-	Н	Н	Š	Spelt fine-sieving by-products			
1569	L	-	-	-	Н	Η	-	Η	-	S	Spelt fine-sieving by-products			
1571	L	-	L	-	Н	Η	-	Η	Н	D	Spelt and barley fine-sieving by-products *			
1572	L	-	-	-	H	H	-	H	-	D	Spelt fine-sieving by-products			
15/3	L	-	-	-	H I	н	-	H U	- ц	5	Spell fine-sieving by-products			
1583	L	-	-	-	I	- H	-	L	п -	S	Spelt spikelets			
1594	L	-	-	-	L	-	-	H	L	D	Clean glume wheat grain			
1601	-	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products			
1602	L	-	-	-	Ι	Н	-	Н	-	S	Spelt spikelets			
1604	L	-	-	-	L	-	-	H	H	S	Glume wheat spikelet-sieving by-products			
1607		-	-	-	1 U	H U	-	L U	H	S	Spelt spikelets			
1611	L	-	-	-	Н	н	-	Н	L	-	Spelt fine-sieving by-products *			
1612	L	-	-	-	H	Н	-	H	H	-	Spelt fine-sieving by-products			
1613	L	-	-	-	Н	Н	-	Н	Н	-	Spelt fine-sieving by-products			
1614	L	-	-	-	L	-	-	L	-	-	Clean glume wheat grain			
1622	L	-	L	-	L	-	-	L	-	S	Clean barley and spelt grain			
1625	- T	-	-	-	H	H	-	Ĺ	-	S	Spelt fine-sieving by-products *			
1627		- H	- T	-			-		- T	5 D	Crean spelt grain Spelt and barley grain mixed with bread wheat early			
1032		11	L	_			_		L		processing by-products			
1633	L	-	-	-	H	Н	-		-	S	Speit fine-sieving by-products *			
1634	-	-	-	-	ட -	-	-	H	- Н	S	Spelt spikelet-sieving by-products			
1636	L	-	-	-	Ι	Ι	-	H	H	S	Spelt spikelets			
1637	L	-	L	-	Н	Н	-	Н	Н	S	Barley grain mixed with small weed seeds			
1639	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products			
1640	L	-	L	-	Н	Н	Н	Н	Н	S	Barley grain mixed with spelt and emmer fine-sieving by-products			
1647	L	-	-	-	Н	Η	-	Η	Н	S	Spelt fine-sieving by-products			

v v v v v sumple characterisation 1640 L - H H - H H Sample characterisation 1640 L - - H H - H H Sample characterisation 1653 L - - H H - H H Sample characterisation 1654 L - L - H H - H H Sample characterisation 1655 L - L - - H H S Pathy products 1658 L - L - I L I S Barley grain mixed with weed seeds 1658 L - - I L L S Barley grain mixed with weed seeds 1689 L L - I L L S Barley grain mixed with weed seeds 1689						Ra	tios								
1649 1 e H H F F F F S Barley grain mixed with speel fine-siving by-products 1653 1 - - H H - Net Net <td></td> <td></td> <td>3 (bread wheat)</td> <td>3 (barley)</td> <td>3 (Rye)</td> <td>C (combined)</td> <td>C (spelt)</td> <td>C (emmer)</td> <td></td> <td>R</td> <td></td> <td>Sample characterisation</td>			3 (bread wheat)	3 (barley)	3 (Rye)	C (combined)	C (spelt)	C (emmer)		R		Sample characterisation			
1650 . . H H H S Spet fine-sizing by-products 1653 L . H H S Spet fine-sizing by-products 1654 L . H H . H H 1654 L . L . H H H 1656 L . L H H H H S 1663 L L . L H H S Section by products 1683 L L . L H H S Section by products 1686 L	1649	L	-	L	-	н	н	-	Н	H	S	Barley grain mixed with spelt fine-sieving by-products			
1653 I. - - H H - Spet fine-sicving by-products 1654 I. - I. H H H Spet fine-sicving by-products 1653 L L - L - Clean barly and plane wheet grain 1668 L - L - L - Clean barly and plane wheet grain 1678 L - L H H Spet fine-sieving by-products 1678 L - L H H Spet fine-sieving by-products 1687 L - L L I I L I I 1688 L L - I L I Spet and emmer grain mixed with weed seeds 1698 L - I L I Spet and emmer grain mixed with weed emmer spikelets 1698 L - - H H S Clean barly appendoncts 1792 L <td>1650</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Н</td> <td>Н</td> <td>-</td> <td>Н</td> <td>Н</td> <td>S</td> <td>Spelt fine-sieving by-products</td>	1650	-	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products			
1654 L - H H - H H S Specific file	1653	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products			
1656 I. - L - H H S Barley grain mixed with spelf fine-sieving by-products 1663 L. - L - H H SS Clean barley and glume where desides 1668 L. - L L H H SS Barley and memor grain mixed with weed seeds 1686 L L L L H H S Septa and emmer grain mixed with weed seeds 1687 I. L L L L L L H Spet and emmer grain mixed with seed emmer spikeles 1688 L	1654	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products			
1668 L - L - S Clean barley and glume wheat grain 1668 L - - - H H SS Rarley fine-siving by-products 1686 L - L H - S Barley and emmer grain mixed with weed seeds 1687 L L L L L L L S 1688 L L L L L L L S 1697 L L L L L L L L L 1697 L L L L L L L S Spelt and emmer fine-sivering by-products 1790 L - - H H H L S Spelt and emmer fine-sivering by-products 1732 L - - H H H L S Spelt and emmer fine-sivering by-products 1737 L - <td< td=""><td>1656</td><td>L</td><td>-</td><td>L</td><td>-</td><td>Н</td><td>Н</td><td>-</td><td>H</td><td>Н</td><td>S</td><td>Barley grain mixed with spelt fine-sieving by-products</td></td<>	1656	L	-	L	-	Н	Н	-	H	Н	S	Barley grain mixed with spelt fine-sieving by-products			
1008 L - - - - - H NS Failery fine-steving by-products 1683 L - L - L H - S Failery and emmer grain mixed with weed seeds 1686 L <td< td=""><td>1663</td><td>L</td><td>-</td><td>L</td><td>-</td><td>L</td><td>-</td><td>-</td><td>L</td><td>-</td><td>S</td><td>Clean barley and glume wheat grain</td></td<>	1663	L	-	L	-	L	-	-	L	-	S	Clean barley and glume wheat grain			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1668	L	-	L	-	- T	-	- T	H U	н	55	Barley line-sleving by-products			
1687 L - L - I I L <td>1686</td> <td>L</td> <td>_</td> <td>L</td> <td>_</td> <td>L</td> <td>-</td> <td>L</td> <td>Н</td> <td>-</td> <td>S</td> <td>Barley and emmer grain mixed with weed seeds</td>	1686	L	_	L	_	L	-	L	Н	-	S	Barley and emmer grain mixed with weed seeds			
1688 L <td>1687</td> <td>L</td> <td>-</td> <td>L</td> <td>-</td> <td>I</td> <td>Ι</td> <td>L</td> <td>L</td> <td>L</td> <td>S</td> <td>Spelt and emmer spikelets</td>	1687	L	-	L	-	I	Ι	L	L	L	S	Spelt and emmer spikelets			
1689 L <td>1688</td> <td>L</td> <td>L</td> <td>L</td> <td>-</td> <td>L</td> <td>L</td> <td>L</td> <td>L</td> <td>Н</td> <td>S</td> <td>Barley, spelt and emmer grain mixed with small weed seeds</td>	1688	L	L	L	-	L	L	L	L	Н	S	Barley, spelt and emmer grain mixed with small weed seeds			
1695 L H H H H L D Spelt and emmer fine-siving by-products * 1735 L - - H H H L S Glume wheat fine-siving by-products * 1<	1689	L	L	-	-	Ι	-	L	L	L	S	Emmer spikelets			
1697 L - L L L S Clean barky grain mixed with sieved emmer spikelets 1700 L - - H H S Glume wheat fine-sieving by-products 1732 L - - H H L Spelt and emmer fine-sieving by-products 1733 L L - - H H H L D Spelt and emmer fine-sieving by-products 1736 L - - H H H L Spelt and emmer fine-sieving by-products 1740 L - - H H H - Spelt and emmer fine-sieving by-products 1747 L - - H H - Spelt and emmer fine-sieving by-products 1747 - - - H H - Spelt and emmer fine-sieving by-products 1750 L - - H H - Spelt fine-sieving by-products 1761 - - H H - Spelt fine-sieving by-products	1695	L	L	L	-	Ι	L	L	L	L	S	Spelt and emmer spikelets			
1698 L - - H H S Glume wheat fine-siving by-products 1732 L - - H H S Spelt and emmore fine-siving by-products 1733 L - - H H H H L D Spelt and emmore fine-siving by-products 1737 L - - H H H L D Spelt and emmore fine-siving by-products 1740 L - - H H H - S Spelt and emmore fine-siving by-products 1740 L - - H H H - S Spelt and emmore fine-siving by-products 1754 - - H H H - S Spelt fine-siving by-products 1 1762 L - - H H - H Spelt fine-siving by-products 1 1764 - - - H H - Spelt fine-siving by-products 1 1 1770 L <td>1697</td> <td>L</td> <td>-</td> <td>L</td> <td>-</td> <td>Ι</td> <td>-</td> <td>L</td> <td>L</td> <td>L</td> <td>S</td> <td>Clean barley grain mixed with sieved emmer spikelets</td>	1697	L	-	L	-	Ι	-	L	L	L	S	Clean barley grain mixed with sieved emmer spikelets			
	1698	L	-	-	-	H	-	-	H	H	S	Glume wheat fine-sieving by-products			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1700	L	-	-	-	H U	- 11	- 11	H U	H	5	Glume wheat fine-sieving by-products			
1736LHHHH-SSpelt and emmer fine-sieving by-products1737LHHHLSGlume wheat fine-sieving by-products1740LHHHHSEmmer fine-sieving by-products1740LHHH-SSpelt and emmer fine-sieving by-products1754HHH-SSpelt and emmer fine-sieving by-products1756LHH-HSSpelt fine-sieving by-products1763LHH-HSSpelt fine-sieving by-products1764HH-HSSpelt fine-sieving by-products1767HH-HSSpelt fine-sieving by-products1769LHH-HSSpelt fine-sieving by-products1769LHH-LSSpelt fine-sieving by-products1770LHH-LSSpelt fine-sieving by-products1770LHH-LSSpelt fine-sieving by-products1774HH-LL1784L <td>1732</td> <td>L</td> <td>- L</td> <td>-</td> <td>-</td> <td>Н</td> <td>H</td> <td>H</td> <td>H</td> <td>L</td> <td>D</td> <td>Spelt and emmer fine-sieving by-products *</td>	1732	L	- L	-	-	Н	H	H	H	L	D	Spelt and emmer fine-sieving by-products *			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1736	L	-	-	-	Н	Н	Н	Н	-	S	Spelt and emmer fine-sieving by-products			
	1737	L	-	-	-	Н	-	-	Н	L	S	Glume wheat fine-sieving by-products *			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1740	L	-	-	-	Н	Н	Н	Н	-	S	Emmer fine-sieving by-products			
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1749	L	-	-	-	Ι	Н	-	Н	-	S	Spelt spikelets			
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1754	- *	-	-	-	H		Н	H	-	S	Spelt and emmer fine-sieving by-products *			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1/56	L	-	-	-	H U	- 11	-	H U	L	S	Glume wheat fine-sieving by-products *			
1764HHHHHHHHSpelt fine-sieving by-products1767HH-HHSpelt fine-sieving by-products1769LHHHHSpelt fine-sieving by-products1770LHHHHSpelt fine-sieving by-products1771LHHHHSpelt fine-sieving by-products1809LLL-HH-LD1811LLL-HH-LSpelt fine-sieving by-products1812LLHH-LSpelt fine-sieving by-products1812LLHH-HLSpelt fine-sieving by-products1812LLHH-LSpelt fine-sieving by-products1827LL-II-LLD1828L-L-LLDClean barley grain mixed with sieved spelt spikelets1833LL-IILLDClean barley grain mixed with sieved spelt spikelets1833L-LLHDBarley grain mixed with sieved spelt spikelets1834	1762	L	-	-	-	н	н	-	н	П	S	Spelt fine-sieving by-products *			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1764	-	-	-	-	Н	Н	-	Н	H	S	Spelt fine-sieving by-products			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1767	-	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving by-products			
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1769	L	-	-	-	Н	Н	-	Η	-	S	Spelt fine-sieving by-products			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1770	L	-	-	-	H	H	Н	Н	Н	S	Spelt fine-sieving by-products			
	1774	- T	- T	- T	-	H	H	-	L	- T	S	Spelt fine-sieving by-products *			
1811LLLImage: Constraint of the set	1809	L	L	L	-	н	н	-		L	D	fine-sieving by-products *			
1812LL-HH-HLSClean barley divergent mixed with spett nne-stering by-products *1826L-L-II-L-DClean barley grain mixed with sieved spelt spikelets1827L-L-II-LLDClean barley grain mixed with sieved spelt spikelets1828L-L-LL-L-DClean barley grain mixed with sieved spelt spikelets1830L-L-II-LDClean barley grain mixed with sieved spelt spikelets1833L-LLHDBarley grain mixed with spelt fine-sieving by-products *1839LHH-HDBarley grain mixed with spelt fine-sieving by-products *1870L-L-HH-HDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HDBarley grain mixed with spelt fine-sieving by-products1873L-L-HH-HDBarley grain1887L-LL-D1887L-LH-S1887L-L<	1811	L	L	L	-	H	H	-	H	L	S	Spelt fine-sieving by-products *			
1826L-L-II-L-DClean barley grain mixed with sieved spelt spikelets1827L-L-LLLDClean barley grain mixed with sieved spelt spikelets1828L-L-L-L-DClean barley grain mixed with sieved spelt spikelets1830L-L-IIIL-DClean barley grain mixed with sieved spelt spikelets1833L-L-IIILLDClean barley grain mixed with sieved spelt spikelets1834L-L-IHHDBarley grain mixed with small weed seeds1839L-L-HHHDBarley grain mixed with spelt fine-sieving by-products1870L-L-HHHDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HDDBarley grain1873L-L-HH-HDDBarley grain1883L-LL-DClean barley grain1883L-L-L	1812	L	L	-	-	н	н	-	н	L	2	by-products *			
102L-L-LL<	1826	L	-	L	-	I T	I T	-	L	- T	D	Clean barley grain mixed with sieved spelt spikelets			
1230L-L1830L-LL-1833L-L-IID1833L-L-II-LLD1834L-LLHD1839LHH-HL-1870L-L-HH-HHD1871L-L-HH-HHD1872HH-HHDBarley grain mixed with spelt fine-sieving by-products1873L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1873L-L-HH-HHDBarley grain1883L-LL-DClean barley grain1883L-LL-D1893L-LL-1893L-LC1893L-LClean barley grain1894LI </td <td>1827</td> <td>L</td> <td>-</td> <td>L</td> <td>-</td> <td>L</td> <td>I.</td> <td>-</td> <td>L</td> <td>- -</td> <td>D</td> <td>Clean barley and spelt grain</td>	1827	L	-	L	-	L	I.	-	L	- -	D	Clean barley and spelt grain			
1833L-L-II-LLDClean barley grain mixed with sieved spelt spikelets1834L-LLHDBarley grain mixed with small weed seeds1839LHH-HL-Spelt fine-sieving by-products *1870L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1872HH-HDSpelt fine-sieving by-products1873L-L-HH-DSpelt fine-sieving by-products1873L-LL-D1883L-LL-D1883L-LDClean barley grain1883L-LL-D1883L-LC-C1883L-L-LSClean barley grain1884LLL-L-C	1830	L	-	L	-	-	-	-	L	-	D	Clean barley grain			
1834L-LLHDBarley grain mixed with small weed seeds1839LHH-HL-Spelt fine-sieving by-products *1870L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1873L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1883L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1883L-LL-DClean barley grainClean barley grain1883L-LL-SClean barley grain1883L-L-LClean barley grain1884LLL-L-S1897L-LLL-L-Clean barley and spelt grain1894L-IL-L-Cl	1833	L	-	L	-	Ι	Ι	-	L	L	D	Clean barley grain mixed with sieved spelt spikelets			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1834	L	-	L		-	<u> </u>	-	L	Н	D	Barley grain mixed with small weed seeds			
1870L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1871L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1872HH-H-DSpelt fine-sieving by-products1873L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1883L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1883L-L-HH-HHDBarley grain1887L-LL-DClean barley grain1893L-L-LSClean barley and spelt grain1893L-LL-L-SSieved spelt spikelets1894LLL-L-SSieved spelt grain1893L-LLLL-L-Clean barley and spelt grain1894L-LLLL-L-Clean barley and spelt grain1898L-IHHHHSSpelt fine-sieving by-products <td>1839</td> <td>L</td> <td>-</td> <td>- T</td> <td>-</td> <td>H</td> <td>H</td> <td>-</td> <td>H</td> <td>L</td> <td>- -</td> <td>Spelt fine-sieving by-products *</td>	1839	L	-	- T	-	H	H	-	H	L	- -	Spelt fine-sieving by-products *			
1671L-L-HH-H-HDSpartey grain index with spet fine-sieving by-products1872HH-HHDDSpelt fine-sieving by-products1873L-L-HH-HHDBarley grain mixed with spelt fine-sieving by-products1883L-LL-DClean barley grain1887L-LL-DClean barley grain1893L-L-LKS1893L-L-L-SSieved spelt spikelets1894LII-L-S1897L-L-L-L-Clean barley and spelt grain1898L-IHH-HHS1921L-L-L-L-Clean barley grain1922L-L-L-L-L1923L-L-LL-D1928L-L-L-DClean barley and spelt grain1928L-L-L-DClean barley grai	18/0		-		-	н ч	Н Ц	-	н ч	H U	D	Barley grain mixed with spelt fine-sleving by-products			
1873L-HH-HDBarley grain mixed with spelt fine-sieving by-products1883L-LL-DClean barley grain1887L-LH+SClean barley grain1893L-LH-SClean barley grain1893L-L-LL-S1894LL-L-SSieved spelt spikelets1894LLL-L-S1897L-L-L-L-Clean barley and spelt grain1898L-IHL-L-Clean barley and spelt grain1898L-IHLClean barley grain mixed with barley and rye early processing by-products1921L-L-HHSSpelt fine-sieving by-products1922L-L-LHHS1923L-L-LL-L1928L-L-L-D1929L-L-L-D1929L-LD1929 <td>1872</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Н</td> <td>Н</td> <td>-</td> <td>Н</td> <td>-</td> <td>D</td> <td>Spelt fine-sieving by-products</td>	1872	-	-	-	-	Н	Н	-	Н	-	D	Spelt fine-sieving by-products			
1883L-LL-DClean barley grain1887L-L-LH-SClean barley grain1893L-L-LH-SClean barley grain1893L-L-L-L-SClean barley grain1894LII-L-S1897L-L-LL-L1898L-IHL1921L-L-HHS1921L-L-HHS1922L-L-LHS1923L-L-LL-1923L-L-LLD1928L-L-L-D1929L-LD1939-LD1933HH-1953HH-1954L-L-L-1954LH1954L1954L <t< td=""><td>1873</td><td>L</td><td>-</td><td>L</td><td>-</td><td>Н</td><td>Н</td><td>-</td><td>Н</td><td>Н</td><td>D</td><td>Barley grain mixed with spelt fine-sieving by-products</td></t<>	1873	L	-	L	-	Н	Н	-	Н	Н	D	Barley grain mixed with spelt fine-sieving by-products			
1887L-LH-SClean barley grain1893L-L-L-L-SClean barley and spelt grain1894LII-L-SSieved spelt spikelets1894L-L-LL-L-S1897L-L-LL-L-1898L-IHL-L-Clean barley and spelt grain1898L-IHLClean spelt grain mixed with barley and rye early processing by-products1921L-L-HHSSpelt fine-sieving by-products1922L-L-LHHS1923L-L-LL-L1928L-L-L-D1929L-LDClean barley and spelt grain1929L-LD1939-LHHS1933HH-Spelt fine-sieving by-products1953HH-H-1954L-L-L-Clean barley grain mix	1883	L	-	L	-	-	-	-	L	-	D	Clean barley grain			
1893L-L-L-L-SClean barley and spelt grain1894LII-L-SSieved spelt spikelets1897L-L-LL-L-SSieved spelt spikelets1897L-L-LL-L-Clean barley and spelt grain1898L-IHL-L-Clean spelt grain mixed with barley and rye early processing by-products1921L-L-HH-HHS1922L-L-LHHSClean barley grain1923L-L-LL-LD1923L-L-LL-L1929L-L-L-D1929L-LDClean barley and spelt grain1929L-LL-D1939-LHHSSpelt and bread wheat fine-sieving by-products1933HH-HSSpelt fine-sieving by-products1953HH-H-Spelt fine-sieving by-products1954L-L <t< td=""><td>1887</td><td>L</td><td>-</td><td>L</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Н</td><td>-</td><td>S</td><td>Clean barley grain</td></t<>	1887	L	-	L	-	-	-	-	Н	-	S	Clean barley grain			
1894LII-L-SSieved spelt spikelets1897L-L-LL-L-Clean barley and spelt grain1898L-IHL-LClean spelt grain mixed with barley and rye early processing by-products1921L-L-HH-HHSSpelt fine-sieving by-products1922L-L-LL-LHSClean barley grain1923L-L-LL-LDClean barley and spelt grain1928L-L-L-LDClean barley and spelt grain1929L-L-L-DD1939-LHH-D1933HH-Spelt and bread wheat fine-sieving by-products1953HH-Spelt fine-sieving by-products1954L-L-L-L1954LH1954L-I-L-1954LL1954L1954L <t< td=""><td>1893</td><td>L</td><td>-</td><td>L</td><td>-</td><td>L</td><td>-</td><td>-</td><td>L</td><td>-</td><td>S</td><td>Clean barley and spelt grain</td></t<>	1893	L	-	L	-	L	-	-	L	-	S	Clean barley and spelt grain			
1897L-L-L-LClean barley and spelt grain1898L-IHLLClean spelt grain mixed with barley and rye early processing by-products1921L-L-HH-HHSSpelt fine-sieving by-products1922L-L-LHHSSpelt fine-sieving by-products1923L-L-LLLDClean barley and spelt grain1928L-L-LL-D1929L-L-L-D1939-LHHS1953HH-Spelt fine-sieving by-products1954L-LLLLSpelt fine-sieving by-products1954L-LLLLLSpelt fine-sieving by-products	1894	L	-	- T	-	I	I	-	L	-	S	Sieved spelt spikelets			
1921L-L-HH-HSSpelt fine-sieving by-products1922L-L-LL-LHSSpelt fine-sieving by-products1923L-L-LL-LHSClean barley grain1923L-L-LLLLDClean barley and spelt grain1928L-L-LL-DClean barley and spelt grain1929L-LDClean barley grain1939-LHH-D1953HH-Spelt fine-sieving by-products1954L-L-LL-Spelt fine-sieving by-products1954L-L-LL-L	1897	L	-	I	- H	L	-	-	L	-	-	Clean barley and spelt grain Clean spelt grain mixed with barley and rye early			
1922L-L-LHHSClean barley grain 1923 L-L-LLLLDClean barley and spelt grain 1923 L-L-LLLDClean barley and spelt grain 1928 L-L-LLDClean barley and spelt grain 1929 L-L-L-D 1939 -LL- 1939 -LHHS 1953 HH-Spelt fine-sieving by-products 1954 L-L-LL- 1954 L-LL-L	1921	L	-	L	-	н	н	-	н	н	S	Spelt fine-sieving by-products			
1923L-L-LL-LD1928L-L-LL-DClean barley and spelt grain1928L-L-L-L-D1929L-LL-D1939-LL-DClean barley grain1939-LHH-HSSpelt and bread wheat fine-sieving by-products1953HHSpelt fine-sieving by-products1954L-II-L-Clean barley grain mixed with sieved spelt spikelets	1922	Ĺ	-	Ĺ	-	L	L	-	L	H	S	Clean barley grain			
1928L-L-L-L-DClean barley and spelt grain1929L-LL-DClean barley grain1939-LHH-HSSpelt and bread wheat fine-sieving by-products1953HH-H-Spelt fine-sieving by-products1954L-II-L-Clean barley grain mixed with sieved spelt spikelets	1923	L	-	L	-	L	L	-	L	L	D	Clean barley and spelt grain			
1929 L - L - - L - D Clean barley grain 1939 - L - - H H - H S Spelt and bread wheat fine-sieving by-products 1953 - - - H H - H S Spelt and bread wheat fine-sieving by-products 1954 L - I I - I L - Clean barley grain mixed with sieved spelt spikelets	1928	L	-	L	-	L	L	-	L	-	D	Clean barley and spelt grain			
1939 - L - H H - H H S Spelt and bread wheat fine-sieving by-products 1953 - - - H H - H S Spelt and bread wheat fine-sieving by-products 1954 L - I I - I L - Clean barley grain mixed with sieved spelt spikelets	1929	L	-	L	-	-	-	-	L	-	D	Clean barley grain			
1955 Spelt Tine-Steving by-products	1939	-	L	-	-	H	H	-	H	Н	S	Spelt and bread wheat fine-sieving by-products			
The second s	1953	- T	-	- T	-	П	П	-	П	- T	-	Spen fille-sleving by-products Clean barley grain mixed with sieved spelt spikelets			

					Ra	tios					
		the second s	t (barley)	s (Rye)	C (combined)	C (spelt)	C (emmer)	•	H	6	Sample characterisation
1958	7	-	-	-	Н	Н	-	H	H	-	Spelt fine-sieving by-products
1960	L	-	-	-	Н	Н	-	Н	L	-	Spelt fine-sieving by-products *
1961	L	-	-	-	Η	Η	-	Η	Н	-	Spelt fine-sieving by-products
1962	-	-	-	-	Н	Н	-	Н	Н	-	Spelt fine-sieving by-products
1964	L	-	-	-	H	H	-	H	H	-	Spelt fine-sieving by-products
1992	- T	-	- T	-	H	H	-	H	H	S	Spelt fine-sieving by-products
2002	L I	-	L -	-	L -	L -	-	L Н	L H	S	Indeterminate wheat (bread wheat) fine-sieving by-
2010	T		T		T	T				0	products
2013	L	-	L	-	L -	L -	-	н н	н	5	Barley and spelt grain mixed with small weed seeds Barley and indeterminate wheat (bread wheat) fine-
2014	L	-	L	-	-	-	-	11	11	3	sieving by-products
2020	L	-	L	-	- T	- T	-	Н	L	S	Clean barley and indeterminate wheat grain
2021	L	-	L	-	L	L	-	L ц	L	S	Clean barley and spelt grain Barley early processing by products
2027	L	-	L	-	- L	- L	-	п L	- L	S	Clean barley and spelt grain
2033	L	Н	H	-	H	H	-	L	L	D	Spelt fine-sieving by-products *
2034	L	-	Н	-	Н	Н	-	Н	-	D	Spelt fine-sieving by-products
2035	L	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *
2036	L	-	-	-	Н	Н	-	L	Н	D	Spelt fine-sieving by-products *
2038	L	-	L	-	I	I	-	H	H	D	Barley grain mixed with spelt spikelets
2039	L	Н	L	-	H U	H U	Н	L U	H	D	Barley grain mixed with spelt fine-sieving by-products
2040	- T.	-	- L	-	н	н	-	п Н	L -	-	Spelt fine-sieving by-products
2042	L	-	I	-	Н	Н	-	Н	L	-	Barley grain mixed with spelt fine-sieving by-products
2043	L	-	L	-	L	L	L	L	-	S	Clean barley, spelt and emmer grain
2044	L	-	L	-	-	-	-	L	-	S	Clean barley grain
2047	L	-	Н	-	Н	Н	-	Н	Н	D	Spelt fine-sieving by-products mixed with barley early- processing by-products
2048	L	-	-	-	L	L	-	L	Н	S	Clean spelt grain
2049	L	-	Н	-	Н	Н	-	Н	-	D	Spelt fine-sieving by-products mixed with barley early-
2050	÷										processing by-products
2050	L	-	н	-	н	н	-	н	-	8	Spelt fine-sieving by-products mixed with barley early- processing by-products
2051	L	-	Н	-	L	-	-	Н	Н	D	Glume wheat grain mixed with barley early processing by-products
2066	L	-	L	-	L	-	-	Н	Н	S	Barley and glume wheat grain mixed with small weed
2067	L	-	Н	-	Н	Н	-	L	Н	S	Spelt fine-sieving by-products mixed with barley early-
2068	T				ц	ц		T	ц	S	processing by-products Spalt fine sieving by products
2069	L	_	_	_	L	-	_	Н	-	S	Glume wheat spikelet-sieving by-products
2087	L	-	-	-	I	Н	-	Н	Н	S	Spelt spikelets
2089	-	-	-	-	-	-	-	Н	Н	D	Small weed seeds
2090	L	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products *
2091	- *	-	- -	-	-	-	-	H	H	S	Small weed seeds
2092	L	-	L	-	H	H	-		H	D	Spelt fine-sieving by-products *
2095	-	-	-	-	п -	п -	-	п Н	H	S	Small weed seeds
2095	L	-	-	-	L	-	-	L	-	S	Clean glume wheat grain
2097	L	-	L	-	L	-	-	L	L	S	Clean glume wheat grain
2098	L	-	L	-	Ι	Н	-	L	-	S	Clean barley grain mixed with sieved spelt spikelets
2099	L	-	-	-	Ι	Н	-	Н	Н	S	Spelt spikelets
2100	L	-	-	-	L	-	-	H	- 7	S	Glume wheat spikelet-sieving by-products
2101	- T	-	-	-	H H	ч	-	Н Ч	L	S	Spelt fine-sieving by-products *
2102	L	-	-	-	L	-	-	Н	Н	S	Spelt spikelet-sieving by-products
2149	Ĺ	L	-	-	Н	Н	-	Н	L	ŝ	Spelt fine-sieving by-products *
2150	L	L	Н	-	Н	Н	-	Н	Н	D	Bread wheat grain mixed with spelt fine-sieving by-
2151	L	-	Н	-	Н	Н	-	Н	Н	D	Spelt fine-sieving by-products mixed with barley early-
2153	L	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products

v v v v v v sumple characterisation 2154 1 - - H H - H 1.5 Sumple characterisation 2155 L - - H H - H 1.5 Specific fine-sizing by products 2156 L - - I H + H Sumple characterisation 2158 L - - I H H H Sumple characterisation 2158 L - - I H H H D Class plet fine-sizing by products 2161 L - L - I H H D Specif fine-sizing by products 2163 L - I H H H D Specif splacter 2164 L - I H H H Specif fine-sizing by products Specif fine-sizing by products Specif splac			-	-		Ra	tios	-				
114 1 - 1 1 1 2 Spelt (ne-sizeng by-products) 115 1 - - 1 - 1 1 5 Spelt (ne-sizeng by-products) 1156 1 - - 1 - - 1 - Spelt (ne-sizeng by-products) 1158 1 - - 1 - - 1 - Spelt (ne-sizeng by-products) 1158 1 - - 1 - - 1 - Spelt (ne-sizeng by-products) 1160 1 - 1 H - H H - D Clean barly and spelt grain Spelt fine-sizeng by-products 1161 1 - 1 H - H H D Spelt fine-sizeng by-products 1161 H H H H H D Spelt fine-sizeng by-products Spelt fine-sizeng by-products Spelt fine-sizeng by-products Spelt fine-sizeng by-products		1	3 (bread wheat)	3 (barley)	3 (Rye)	C (combined)	C (spelt)	C (emmer)	0	F	۲.	Sample characterisation
2155 I. - - H H - Spet fine-sizving by-products 2157 - - - H H - No Spet fine-sizving by-products 2158 L - - L - - Clean spet grain 2159 L - - H H - H Spet fine-sizving by-products 2161 L - L L - S Clean spet grain Spet fine-sizving by-products 2161 L L L L L - Spet fine-sizving by-products 2163 L I H H H H H Description 2164 L - H H H H Description Spet fine-sizving by-products 2267 L - H H H H Spet fine-sizving by-products 2276 L L H H H H Spet fine-sizving by-products 2278 L - H H<	2154	L	-	-	-	Н	Н	-	H	L	S	Spelt fine-sieving by-products
2156 I - I - - N H - S Clum wheat spliclet siving by-products 2158 I - - I - - S Clean split spin 2159 I - - H H - S Clean split spin Dy-products 2160 I - - H H - D Clean split spin Dy-products 2161 I - I H - H D Split fine-sizving by-products 2163 I - I H - H H D Split fine-sizving by-products 2174 I - H H H N Split fine-sizving by-products Products 2175 I I I H H I Split fine-sizving by-products 2176 I I I H H I D Split fine-sizving by-	2155	L	-	-	-	Н	Н	-	Н	L	S	Spelt fine-sieving by-products
2157 . - - H H - D Spelt fine-sieving by-products 2159 . - - I - H - Spelt fine-sieving by-products 2160 I. - - I H - H Spelt fine-sieving by-products 2161 I. - I H - L Spelt fine-sieving by-products 2163 L. - H H H H D Spelt fine-sieving by-products 2164 L - - I H - H H Spelt fine-sieving by-products 2276 L - I H H H L Spelt fine-sieving by-products 2280 L - I H - L H H Spelt fine-sieving by-products 2281 L - - I H - L H B Spelt fine-sieving by-products 2283 L - - I H - L<	2156	L	-	-	-	Ι	-	-	Н	-	S	Glume wheat spikelet-sieving by-products
2188 L - - L - S Clean spelt grain 2160 L - - H H - No Clean spelt grain 2161 L - L L L L - No Clean spelt grain 2162 L - H H - H - No Clean spelt grain 2163 L - I H - H H No Note the spectra spelt grain 2164 L - - I H - H H No Note the spectra spelt fine-size spectra spelt spectra 2274 L - - H H H H Spelt fine-size spectra No No 2276 L - I H H L L D Batty grain mixed with spelt spicetox 2280 L - - H H L L D Spelt fine-size wige by-products 2280 L - -	2157	-	-	-	-	Н	Η	-	Н	-	D	Spelt fine-sieving by-products
2159 - - - 1 - - Spelt spaceted serving by-products 2160 L - L L - L H - Spelt fine-siving by-products mixed with barley early-processing by-products 2161 L - H H H H Fine	2158	L	-	-	-	L	-	-	L	-	S	Clean spelt grain
2100 L - - - - - D Clean bark gain 2162 L - - L L - L - No 2163 L - I H - H H D Spelt fine-sieving by-products 2164 L - - I H - H H D 2164 L - - I H - H H Spelt spiketes 2257 L - - H H H L L D Bardy grain mixed with spelt spiketes 2276 L - I H H L L D Bardy grain mixed with spelt spiketes 2280 L - - H H L L Spelt fine-sitewing by-products 2281 L - - H H H Spelt fine-sitewing by-products	2159	- T	-	-	-	I U	- 11	-	H U	-	5	Spelt spikelet-sieving by-products
2162 L - H - H H - H H D Spelt fine-sieving by-products 2163 L - I H - H H D Barley grain mixed with spelt spikelets 2164 L - - H H - Spelt fine-sieving by-products 2264 L - - H H - Spelt fine-sieving by-products 2276 L - L H H H L D Spelt fine-sieving by-products 2280 H - I I H H H Spelt fine-sieving by-products 2281 L - I H H L Spelt fine-sieving by-products 22920 L - I H H L Spelt fine-sieving by-products 22931 L - I H H H Spelt fine-sieving by-products 22932	2160	L	-	- L	-	L	L	-	L	-	S	Clean barley and spelt grain
Image: Constraint of the set of	2162	L	-	H	-	H	H	-	Н	Н	D	Spelt fine-sieving by-products mixed with barley early-
2163 L - I H - H H H D Barley grain mixed with spelt spikelets 2274 L - - H H H H Spelt fine-sieving by-products * 2276 L - - H H H L D Spelt and barley fine-sieving by-products * 2276 L - I H H H H D Spelt and barley fine-sieving by-products * 2276 L - I I H H H D Spelt fine-sieving by-products * 2280 H - I I L H H Spelt fine-sieving by-products 2281 L - I H H L S Spelt fine-sieving by-products * 22920 L - - H H - S Spelt fine-sieving by-products * 2293 L - - H H - S Spelt fine-sieving by-products * 2294 L -												processing by-products
2164 L - - I H - H - Spelt spekets 2257 - - H H H L Spelt and emmer fine-siving by-products 2276 L - L H H H L D Spelt and emmer fine-siving by-products 2276 L - I - H H H L D Spelt spect spect spice by-products 2280 - H - H H - L H Barley grain mixed with spelt fine-siving by-products 2281 L - - H H - L H D Spelt fine-siving by-products 2283 L - - H H - L H D Spelt fine-siving by-products 2284 L - - H H - S Spelt fine-siving by-products 22924 L - -	2163	L	-	Ι	-	Ι	Η	-	Η	Н	D	Barley grain mixed with spelt spikelets
2254 L - - H H H Spelt Inte-serving by-products * 2276 L - L - H H H L Spelt and barley fine-sieving by-products * 2277 L - I H H - L D Spelt and barley fine-sieving by-products 2280 - H - H H L D Barley grain mixed with spelt fine-sieving by-products 2281 L - - H H - H H Spelt fine-sieving by-products 2282 L - - H H - L Spelt fine-sieving by-products 2293 L - - H H - Spelt fine-sieving by-products 2293 L - - H H - Spelt fine-sieving by-products 2294 L - - H H - Spelt fine-sieving by-products 2293 L - - H H - L Spelt	2164	L	-	-	-	I	H	-	H	-	S	Spelt spikelets
2276 L - - - H H - H L Spect and finited time serving by-products 2276 L - I - H + - L D Spect and time serving by-products 2280 - H - H H S Brack what and heat of mine-sieving by-products 2281 L - H H H S Spect and what and what and processing by-products 2282 L - - I H H Spect fine-sicring by-products 2283 L - - I H H - Spect fine-sicring by-products 2294 L - - H H - Spect fine-sicring by-products 2294 L - - H H - Spect fine-sicring by-products 2295 L - - H H - Spect fine-sicring by-products 2294	2257	- т	-	-	-	H	H	- TT	H	H	S	Spelt fine-sieving by-products
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2204	L I	-	- T	-	п Н	п	п	п	L	D	Spelt and barley fine-sieving by-products *
2280 - H - I I - H H S Bread wheat early-processing by-products 2281 L - H - H H - Spel fine-siving by-products miced with barley early-processing by-products 2288 L - - I I - L H D Spel fine-siving by-products 2289 L - - H H - S Spel fine-siving by-products 22901 - - H H - S Spel fine-siving by-products 22921 - - - H H - S Spel fine-siving by-products 22924 L - - H H - H Spel fine-siving by-products 22925 L - - H H H D Spel fine-siving by-products 22926 L - - H H H	2279	L	-	I	-	H	H	-	L	L	D	Barley grain mixed with spelt fine-sieving by-products
228 L - H - H H Spelt fine-sieving by-products mixed with barley early-processing by-products 2288 L - - I I - L H D Spelt spikelets 2280 L - - H H - L Spelt fine-sieving by-products 2291 L - - H H - Spelt fine-sieving by-products 2292 L - - H H - Spelt fine-sieving by-products 2293 L - - H H - Spelt fine-sieving by-products 2294 L - - H H - Spelt fine-sieving by-products 2295 L - - H H - Spelt fine-sieving by-products 2296 L - - H H - H Spelt fine-sieving by-products 2297 L - - H H - H Spelt fine-sieving by-products 2206	2280	-	Н	-	-	I	I	-	Н	Н	S	Bread wheat early-processing by-products
Image: Constraint of the second system of the se	2281	L	-	Η	-	Η	Η	-	Η	Η	S	Spelt fine-sieving by-products mixed with barley early-
2288 L - - I I - L H D Spelt fine-sieving by-products 2290 L - - H H - L Spelt fine-sieving by-products 2291 - - - H H - H Spelt fine-sieving by-products 2292 L - - H H - H Spelt fine-sieving by-products 2293 L - - H H - H Spelt fine-sieving by-products 2294 L - - H H - H Spelt fine-sieving by-products 2295 L - - H H - H Spelt fine-sieving by-products 2296 L - - H H - H L D Spelt fine-sieving by-products 2298 L - - H H - D Spelt fine-sieving by-products 2300 L - - I I - <td></td> <td>processing by-products</td>												processing by-products
2280 L - - H H - L - Spelt Inte-storing by-products 2291 L - - H H - H Spelt Inte-storing by-products 2292 L - - H H - H D Spelt Inte-storing by-products 2293 L - - H H - H D Spelt Inte-storing by-products 2294 L - - H H - H Formation by products 2295 L - - H H - H Spelt Inte-storing by-products 2296 L - - H H - H L D Spelt Inte-storing by-products 2297 L - - H H - H L D Spelt Inte-storing by-products 2298 L - - H H D Spelt Inte-storing by-products E 2300 L - H H <td< td=""><td>2288</td><td>L</td><td>-</td><td>-</td><td>-</td><td>I</td><td>I</td><td>-</td><td>L</td><td>Н</td><td>D</td><td>Spelt spikelets</td></td<>	2288	L	-	-	-	I	I	-	L	Н	D	Spelt spikelets
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2289	L	-	-	-	H U	H U	-	L U	-	5	Spelt fine sieving by products *
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2290	L -	-	-	-	н	н	-	н	-	S	Spelt fine-sieving by-products
2293 L - - H H - L H D Spelt fine-sieving by-products 2294 L - - H H - H Spelt fine-sieving by-products 2295 L - - H H - H D Spelt fine-sieving by-products 2296 L - - H H - H H D 2297 L - - H H - H H D 2298 L - H H H H L D Spelt fine-sieving by-products 2300 L - - H H L D Spelt spikelets 2301 L - - I I - H H D Spelt spikelets 2302 L - - I H - H Spelt spikelets 2304 L - I H - H Spelt spikelets	2292	L	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving by-products
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2293	L	-	-	-	Н	Н	-	L	Н	D	Spelt fine-sieving by-products *
2295 L - - H H - H H D Spelt fine-sieving by-products 2297 L - - H H - H H D Spelt fine-sieving by-products 2298 L - H H - H H - Spelt fine-sieving by-products 2299 L - - H H - H L D Spelt fine-sieving by-products 2300 L - - - H H - H D Spelt fine-sieving by-products 2301 L - - I I - H H D Spelt spikelets 2302 L - - I H - L D Sived spelt spikelets 2305 L - - I H - L L D Sived spelt spikelets 2306 L - - I H - L D Spelt fine-sieving by	2294	L	-	-	-	Η	Η	-	Η	-	S	Spelt fine-sieving by-products
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	2295	L	-	-	-	Η	Η	-	Н	-	S	Spelt fine-sieving by-products
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2296	L	-	-	-	H	H	-	H	H	D	Spelt fine-sieving by-products
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	2297	L	-	- TT	-	H	H	-	H	H	S D	Spelt fine-sieving by-products
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2298	L	-	н	-	н	н	-	н		S	Spelt fine-sieving by-products
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2300	L	-	-	-	Н	H	-	H	L	D	Spelt fine-sieving by-products *
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2301	L	-	-	-	Ι	Ι	-	Н	Н	D	Spelt spikelets
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2302	L	-	-	-	Ι	Ι	-	Н	Н	D	Spelt spikelets
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2303	L	-	L	-	Η	Η	-	L	Н	S	Barley grain mixed with spelt fine-sieving by-products
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2304	L	-	Ι	-	H	H	-	H	H	S	Barley grain mixed with spelt fine-sieving by-products
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2305	L	-	-	-	I U	I U	-	L U	L	D S	Sieved spelt spikelets
2329LHH-L-DSpelt fine-sieving by-products *2330L-HH-HLDSpelt fine-sieving by-products *2331LIH-HLDSpelt fine-sieving by-products *2332LHH-HLDSpelt fine-sieving-by-products2332LHH-HLSpelt fine-sieving-by-products2333LHH-HLSpelt fine-sieving-by-products2334LHH-LLSpelt fine-sieving-by-products2335LHH-LLD2336LHH-HLSpelt fine-sieving-by-products2337HH-HLSpelt fine-sieving-by-products2338LLLLDSpelt fine-sieving by-products *2340LHH-HLD2341LHH-HD2342LHH-DSpelt fine-sieving-by-products2341L-	2300	L	-	-	-	T	н	-	L	-	S	Sieved spelt spikelets
2330L-H-HLDSpelt fine-sieving by-products *2331LIH-HLS2332LHH-HLS2332LHH-HLD2332LHH-HLD2333LHH-HLS2334LIH-LLD2335L-L-HH-LLD2336LHH-HLS2337HH-HLS2338HH-HLS2339LLLHDClean spelt grain2340LHH-HLDSpelt fine-sieving by-products *2341LHH-HDSpelt fine-sieving-by-products2342LHH-HDSpelt fine-sieving-by-products2342LHH-HD	2329	L	-	-	-	H	Н	-	L	-	D	Spelt fine-sieving by-products *
2331LIH-HLSSpelt spikelets2332LHH-HLDSpelt fine-sieving-by-products2333LHH-HLDSpelt fine-sieving-by-products2334LIH-LLSSieved spelt spikelets2335L-L-HH-LLDSpelt fine-sieving by-products *2336LHH-HLDSpelt fine-sieving-by-products2337HH-HLSSpelt fine-sieving by-products2339LHH-HLDSpelt fine-sieving by-products *2339LHH-HLDSpelt fine-sieving by-products *2340L-HH-HHDSpelt fine-sieving-by-products2342LHH-HHD2341L-LHHHDSpelt fine-sieving-by-products2342LHH-HDSpelt fine-sieving-by-products2343LHH-HD <td< td=""><td>2330</td><td>L</td><td>-</td><td>Н</td><td>-</td><td>Н</td><td>Н</td><td>-</td><td>Н</td><td>L</td><td>D</td><td>Spelt fine-sieving by-products *</td></td<>	2330	L	-	Н	-	Н	Н	-	Н	L	D	Spelt fine-sieving by-products *
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2331	L	-	-	-	Ι	Н	-	Н	L	S	Spelt spikelets
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2332	L	-	-	-	H	H	-	H	L	D	Spelt fine-sieving-by-products
2.3.34LII-LLLSSieved speit spikelets2335L-L-HH-LLDSpelt and barley fine-sieving by-products *2336LHH-HLDSpelt fine-sieving-by-products2337HH-HLSSpelt fine-sieving-by-products2338HH-HLSSpelt fine-sieving by-products *2339LLL-LHDClean spelt grain2340L-HH-HLDSpelt fine-sieving by-products *2341LHH-HHS2342LHH-HD2343LHH-D2344L-L-HH-S2368LHH-L-2369HH-HH2370LHH-H2371LHHDSpelt fine-sieving-by-products2371L-	2333		-	-	-	H	H U	-	H		S	Speit fine-sieving-by-products
2336LHH-HLDSpelt and only intestiving by-products2337HH-HLDSpelt fine-sieving-by-products2337HH-H-SSpelt fine-sieving-by-products2338HH-HLSSpelt fine-sieving by-products *2339LLL-LHDClean spelt grain2340L-HH-HLDSpelt fine-sieving by-products *2341LHH-HHS2342LHH-HH2343LHH-D2344L-L-HH-DSpelt spikelets2344L-L-HH-L-S2368LHH-L-DSpelt fine-sieving by-products *2369HH-HHDSpelt fine-sieving-by-products2370LHH-HHDSpelt fine-sieving-by-products2371LHH<	2334	L	-	- I	-	Н	н	-	L	L	ъ D	Spelt and harley fine-sieving by-products *
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2336	L	-	-	-	Н	Н	-	Н	L	D	Spelt fine-sieving-by-products
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2337	-	-	-	-	Н	Н	-	Н	-	S	Spelt fine-sieving-by-products
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2338	-	-	-	-	Η	Η	-	Н	L	S	Spelt fine-sieving by-products *
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2339	L	-	-	-	L	L	-	L	Н	D	Clean spelt grain
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2340	L	-	Н	-	H	H	-	H	L	D	Spelt fine-sieving by-products *
2.3+2 L $ H$ $ H$ $ D$ Spent line-sleving-by-products 2343 L $ I$ I $ H$ H D Spelt spikelets 2344 L $ L$ $ H$ H $ L$ $ S$ Clean barley grain mixed with spelt fine-sieving by-products * 2368 L $ H$ H $ L$ $ D$ Spelt fine-sieving by-products * 2369 $ H$ H $ H$ H S Spelt fine-sieving-by-products 2370 L $ H$ H $ H$ H S 2371 L $ H$ H $ H$ H S 2373 L $ H$ H $ H$ H S 2374 L $ H$ H $ H$ H S 2374 L $ H$ H $ H$ H D Spelt fine-sieving-by-products 2375 L $ H$ H $ H$ H D Spelt fine-sieving-by-products	2341	L	-	-	-	н ч	н и	-	н ц	Н	5	Spelt fine-sieving-by products
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2342	L	-	-	-	I	I	-	H	Н	D	Spelt spikelets
2368LHH-L-DSpelt fine-sieving by-products *2369HH-HHSpelt fine-sieving-by-products2370LHH-HHDSpelt fine-sieving-by-products2371LHH-HHDSpelt fine-sieving-by-products2373LHH-HHDSpelt fine-sieving-by-products2373LHH-HHDSpelt fine-sieving-by-products2374LHH-HHDSpelt fine-sieving-by-products2374LHH-HHDSpelt fine-sieving-by-products	2344	L	-	L	-	Н	H	-	L	-	S	Clean barley grain mixed with spelt fine-sieving by- products *
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2368	L	-	-	-	Н	Н	-	L	-	D	Spelt fine-sieving by-products *
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2369	-	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving-by-products
2371 L - - H H - H H S Spelt fine-sieving-by-products 2373 L - - - H H - H D Spelt fine-sieving-by-products 2374 L - - - H H - H H S Spelt fine-sieving-by-products 2375 L - - H H - H H D Spelt fine-sieving-by-products	2370	L	-	-	-	Н	Н	-	Н	Н	D	Spelt fine-sieving-by-products
2373 L - - H H - H D Spelt fine-sieving-by-products 2374 L - - H H - H H Spelt fine-sieving-by-products 2375 L - - H H - H H D Spelt fine-sieving-by-products 2375 L - - H H - H H D Spelt fine-sieving-by-products	2371	L	-	-	-	Н	Н	-	Н	Н	S	Spelt fine-sieving-by-products
23/4 L - - H H - H H S Spelt fine-sieving-by-products 2375 L - - H H - H H D Spelt fine-sieving-by-products	2373	Ĺ	-	-	-	H	H	-	H	H	D	Spelt fine-sieving-by-products
	2375		-	-	-	н Н	н Н	-	н н	н н	D D	Spelt fine-sieving-by-products

					Ra	tios					
		(bread wheat)	(barley)	(Rye)	(combined)	(spelt)	(emmer)				
0076	V	В	В	В	U U	U U	С	Q	E	Ľ.	Sample characterisation
2376	-	-	-	-	H	H	-	H	H	S	Spelt fine-sieving-by-products
2385	L	-	-	-	H	H	-	H	H	D	Spelt fine-sieving-by-products
2386	L	-	-	-	H	H	-	H	H	S	Spelt fine-sieving-by-products
2387	L	-	-	-	H	H	-	H	H	S	Spelt fine-sieving-by-products
2388	L	-	-	-	H	H	-	H	H	S	Spelt fine-sieving-by-products
2389	L	-	-	-	H	H	Н	H	H	D	Spelt and emmer fine-sieving by-products
2390	-	-	-	-	H	H	-	H	H	S	Spelt fine-sieving-by-products
2391	L	-	-	-	H	H	-	H	Н	D	Spelt fine-sieving-by-products
2392	L	-	-	-	I	I	-	L	-	S	Sieved spelt spikelets
2393	L	-	-	-	Н	Н	-	Н	Н	D	Spelt fine-sieving-by-products
2394	L	-	Н	-	Н	Н	-	Н	L	D	Spelt and barley fine-sieving by-products
2424	L	-	L	-	L	-	-	L	-	S	Clean barley and glume wheat grain
2425	L	-	L	-	L	-	-	L	-	S	Clean barley and glume wheat grain
2433	L	-	-	-	Н	-	Н	L	-	S	Emmer fine-sieving by-products *
2458	L	-	-	-	L	L	-	L	L	S	Clean spelt grain
2463	L	-	L	-	-	-	-	L	-	S	Clean barley grain
2464	L	-	L	-	L	-	-	Н	L	S	Clean spelt and barley grain
2487	L	-	-	-	-	-	-	Н	Н	S	Indeterminate wheat (bread wheat) fine-sieving by- products
2489	L	-	-	-	Ι	-	-	Н	Н	S	Glume wheat spikelet-sieving by-products
2506	Н	-	-	-	-	-	-	Н	Н	S	Early processing by-products (species unknown)
2511	L	-	-	-	Ι	-	-	Н	Н	S	Glume wheat spikelet-sieving by-products
2518	L	-	-	-	-	-	-	Н	Н	S	Indeterminate wheat (bread wheat) fine-sieving by- products
2522	-	-	-	-	-	-	-	Н	Н	S	Small weed seeds
2541	Н	-	-	-	-	-	-	Н	Н	S	Early processing by-products (species unknown)
2547	Η	-	-	-	-	-	-	Н	Н	S	Early processing by-products (species unknown)
2549	L	-	Н	-	Н	-	-	Н	Н	D	Glume wheat fine-sieving by-products mixed with barley early-processing by-products
2550	L	-	-	-	Н	-	-	Н	Н	D	Glume wheat fine-sieving by-products
2551	L	-	Н	-	-	-	-	Н	Н	S	Barley early-processing by-products
2557	L	-	-	-	L	-	-	Н	Н	S	Glume wheat spikelet-sieving by-products
2567	-	-	-	-	-	-	-	Н	Н	S	Small weed seeds
2568	Н	-	-	-	-	-	-	Н	-	D	Early processing by-products (species unknown)
2578	L	-	-	-	L	-	-	Н	Н	S	Glume wheat spikelet-sieving by-products
2583	L	-	-	-	-	-	-	Н	Н	S	Indeterminate wheat (bread wheat) fine-sieving by-
2584	-	-	-	-	-	-	-	н	н	S	Small weed seeds
2590	L	-	-	-	-	-	-	Н	Н	S	Indeterminate wheat (bread wheat) fine-sieving by-
2610	T				ц			ц	ц	S	Clume wheat fine sieving by products
2010	L	-	1 -	1 -	п		1 -	п	п	5	Grune wheat fine-steving by-products

Appendix 3. Abbreviations and characteristics of species included in the CA

datasets.

Appendix 3 comprises four tables.

Table A3.1 shows all weed taxa present in the dataset (all 224 records), giving the number of records in which each was present, and in which it was represented by ten or more seeds, for each period.

The remaining tables list the abbreviations used for CA species-plots in Chapters 4 (Table A3.2), 5 (Table A3.3) and 6 (Table A3.4). Tables A3.3 and A3.4 include reference to the dataset(s) in which each species is included; Table A3.4 also describes the ecological tolerances/preferences of each species and its key significance for interpretation of arable practice.

	No (to	o. of recon tal no. of	ds in wh records peri	iich taxo in brack iod)	on is pres xets for e	ent each	No. of seeds	records (total no.	in taxon of recor peri	is repre ds in br iod)	esented b ackets fo	y≥10 or each
Таха	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Caltha palustris	0	0	0	1	0	0	0	0	0	0	0	0
Ranunculus sp.	1	2	2	6	5	3	0	0	0	0	0	0
Ranunculus subgen. Ranunculus	0	0	2	2	0	1	0	0	0	1	0	0
Ranunculus acris	0	1	0	0	0	0	0	0	0	0	0	0
Ranunculus acris/repens/bulbos us	1	6	7	9	8	10	0	0	0	4	2	1
Ranunculus repens	0	0	0	0	1	0	0	0	0	0	1	0
Ranunculus parviflorus	1	0	0	5	0	0	0	0	0	0	0	0
Ranunculus flamula	1	0	1	3	5	1	1	0	0	0	0	0
Ranunculus ficaria tuber	0	0	1	1	0	0	0	0	0	1	0	0
Thalictrum sp.	0	0	0	0	1	0	0	0	0	0	0	0
Thalictrum flavum	1	0	0	0	2	1	0	0	0	0	0	0
Papaver sp.	3	2	1	5	3	3	0	0	0	0	1	1
Papaver rhoeas	0	0	0	2	2	1	0	0	0	1	0	1
Papaver rhoeas/dubium	0	0	0	0	2	0	0	0	0	0	0	0
Papaver dubium	0	0	0	0	1	0	0	0	0	0	1	0
Papaver hybridum	1	0	0	0	0	0	0	0	0	0	0	0
Papaver argemone	0	0	1	3	1	1	0	0	0	0	0	0
Chelidonium majus	0	0	0	0	0	1	0	0	0	0	0	0
Fumaria sp.	0	1	0	0	0	1	0	0	0	0	0	0
Fumaria officialnis	0	0	0	0	2	0	0	0	0	0	0	0
Urtica sp.	1	1	0	0	0	0	0	0	0	0	0	0
Urtica dioica	3	2	1	3	1	3	0	0	0	0	0	0
Urtica urens	0	1	0	1	2	1	0	0	0	0	0	0
Myrica gale	0	0	0	0	1	0	0	0	0	0	0	0
Chenopodiaeceae indet.	7	14	8	10	13	12	2	6	1	3	3	2
Chenopodiaeceae/ Caryophyllaceae indet.	0	0	0	0	1	3	0	0	0	0	0	0
Chenopodium sp.	6	9	5	7	13	13	0	2	2	1	2	2
Chenopodium/Atri plex	0	0	1	0	2	1	0	0	1	0	0	1
Chenopodium glaucum/rubrum	0	0	0	0	1	0	0	0	0	0	0	0
Chenopodium rubrum	0	2	0	0	0	1	0	0	0	0	0	1
Chenopodium polyspermum	0	2	2	4	3	1	0	0	0	1	0	0
Chenopodium ficifolium	0	4	3	1	1	1	0	1	1	0	0	0

Table A3.1. Number of records/period in which each weed taxon is represented

	No (to	o. of recon tal no. of	ds in wl records	nich taxo in brack	on is pres sets for e	sent each	No. of seeds	records total no.	in taxon of recor	is repre ds in br	esented b ackets fo	y≥10 or each
	(10		per	iod)		acii	Secus	(10101 1101	per	iod)	uchets re	i cucii
Таха	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Chenopodium album	12	20	10	14	14	9	5	9	4	7	5	3
Atriplex sp.	4	7	5	7	14	8	2	2	0	2	2	0
Atriplex prostata/patula	0	3	5	11	7	7	0	0	0	4	3	2
Atriplex patula	0	0	0	1	0	0	0	0	0	0	0	0
Beta vulgaris ssp. vulgaris	0	0	0	0	0	1	0	0	0	0	0	0
Portulaca oleracea	0	0	0	0	1	0	0	0	0	0	0	0
Montia sp.	0	0	1	1	0	0	0	0	0	0	0	0
Montia fontana (inc. subsp.	7	12	14	10	8	4	1	0	3	3	0	0
Caryophyllaceae	7	5	6	6	6	6	1	0	0	2	0	0
Arenaria sp.	0	0	0	1	0	0	0	0	0	0	0	0
Arenaria serpyllifolia	0	0	0	1	0	0	0	0	0	1	0	0
Moehringia trinervia	0	0	0	0	0	0	0	0	0	0	0	0
Stellaria sp.	3	3	4	5	2	3	0	0	1	1	0	0
Stellaria/Cerastium indet.	0	0	0	2	1	0	0	0	0	0	0	0
Stellaria media	7	7	10	12	10	7	1	1	0	2	1	1
Stellaria pallida	0	0	0	0	1	1	0	0	0	0	0	0
Stellaria neglecta	0	0	0	1	0	0	0	0	0	0	0	0
Stellaria palustris	1	1	0	1	3	0	0	0	0	0	0	0
Stellaria palustris/graminea	0	2	1	2	4	2	0	0	0	1	1	0
Stellaria graminea	1	3	3	3	1	3	0	0	0	0	0	0
Stellaria uliginosa	0	0	0	1	2	1	0	0	0	0	0	0
Cerastium sp.	0	1	1	2	0	2	0	0	0	0	0	0
Scleranthus sp.	0	1	0	0	0	0	0	0	0	0	0	0
Scleranthus anuus	1	0	0	3	0	1	0	0	0	1	0	0
Spergula arvensis	1	0	2	3	3	3	0	0	0	1	0	0
Lychnis flos-culci	0	0	1	1	0	1	0	0	0	0	0	0
Agrostemma githago	1	1	1	10	12	10	0	0	0	5	4	1
Silene sp.	3	1	1	3	9	2	0	0	0	1	1	0
Silene vulgaris	1	0	0	0	1	0	0	0	0	0	0	0
Silene latifolia	0	3	2	2	2	0	0	0	1	2	0	0
Silene dioica	0	0	0	0	1	0	0	0	0	0	0	0
Dianthus sp.	0	0	0	0	2	1	0	0	0	0	0	0
Polygonaceae indet.	8	7	7	8	12	11	2	2	2	2	1	0
Polygonaceae/	0	1	1	0	0	0	0	0	0	0	0	0
Persicaria sp.	3	1	3	1	2	1	0	1	0	0	0	0

	No (tot	. of recon tal no. of	ds in wh records	ich taxo in brack	n is pres tets for e	ent ach	No. of seeds (records total no.	in taxon of recor	is repre ds in bra	sented b ackets fo	$y \ge 10$ or each
			peri	iod)					peri	iod)		
Taxa	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Persicaria	5	11	2	5	3	2	0	6	0	0	0	0
maculosa /lapathifolia												
Persicaria maculosa	1	4	4	3	5	4	0	1	0	0	3	3
Persicaria lapathifolia	2	6	2	5	2	1	0	0	0	0	0	0
Persicaria	0	0	1	0	0	1	0	0	0	0	0	0
Persicaria minor	0	0	0	0	0	0	0	0	0	0	0	0
Polygonum sp.	5	3	3	5	9	5	1	0	1	1	0	0
Polygonum/ Fallopia	0	1	0	0	0	0	0	0	0	0	0	0
Polygonum arenastrum	0	0	1	0	0	0	0	0	0	0	0	0
Polygonum aviculare	10	13	13	18	15	16	2	2	4	6	4	2
Fallopia sp.	0	0	1	0	0	0	0	0	0	0	0	0
Fallopia convolvulus	10	13	13	16	21	18	3	3	0	6	8	5
Fallopia dumetorum	0	0	1	0	0	0	0	0	0	0	0	0
Rumex/Carex	0	0	0	1	1	0	0	0	0	0	0	0
Rumex sp.	10	20	25	28	35	30	4	6	7	14	17	16
Rumex acetosella	2	13	14	19	18	13	0	1	2	9	8	2
Rumex acetosa	0	2	1	0	2	1	0	0	1	0	1	0
Rumex acetosa/acetosella	0	0	0	1	0	0	0	0	0	1	0	0
Rumex longifolius/crispus- type	0	0	0	1	1	0	0	0	0	0	0	0
Rumex hydropathalum	0	0	0	1	1	1	0	0	0	0	0	0
Rumex crispus	0	2	0	5	4	3	0	1	0	1	2	1
Rumex conglomeratus/ obtusifolius/ sanguineus	0	1	2	8	5	3	0	0	0	5	4	3
Rumex obtusifolius	0	2	0	0	1	0	0	0	0	0	1	0
Rumex palustris	0	0	0	0	0	1	0	0	0	0	0	0
Hypericum sp.	0	0	1	0	0	0	0	0	1	0	0	0
Tilia cordata	0	0	0	0	0	1	0	0	0	0	0	0
Malvaceae indet	0	0	0	0	0	1	0	0	0	0	0	0
Malva sp.	4	3	4	8	4	2	0	1	0	0	1	0
Malva sylvestris	0	3	2	1	1	1	0	0	0	1	0	0
Viola sp.	1	0	0	0	1	0	0	0	0	0	0	0
Bryonia dioica	0	0	0	0	1	0	0	0	0	0	0	0
Brassicaceae indet.	1	1	2	4	3	4	1	0	1	0	0	0
Siymbrium officialne	0	0	0	0	0	1	0	0	0	0	0	0
Rorripa sp.	0	0	0	0	1	0	0	0	0	0	0	0

	No	o. of recon	rds in wł	nich taxo	on is pres	sent	No. of	records	in taxon	is repre	esented b	y ≥ 10
	(to	tal no. of	recoras	in brack	tets for e	acn	seeds	total no.	of recor	as in br iod)	ackets 10	r eacn
Таха	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Cochlearia sp.	0	1	0	0	0	0	0	0	0	0	0	0
Thlaspi arvense	0	1	1	5	2	1	0	0	0	0	0	0
Lepidum sp.	0	0	0	0	0	0	0	0	0	0	0	0
Brassica sp.	0	6	1	0	4	2	0	0	0	0	0	0
Brassica/Sinapsis	1	0	0	7	4	5	1	0	0	0	0	0
Brassica rapa ssp. campestris	0	0	0	0	1	0	0	0	0	0	1	0
Sinapsis sp.	0	0	0	0	1	0	0	0	0	0	0	0
Raphanus raphanistrum	2	6	5	10	7	4	0	0	0	2	2	1
Reseda sp.	1	0	0	1	0	0	0	0	0	0	0	0
Calluna vulgaris	0	1	0	3	1	1	0	0	0	1	0	1
Primulaceae indet	0	0	0	0	0	0	0	0	0	0	0	0
Anagallis-type	1	1	0	1	1	0	0	0	0	0	0	0
Anagallis arvensis	0	1	0	1	1	4	0	0	0	0	0	0
Sedum album	0	0	1	0	0	0	0	0	0	0	0	0
Rosaceae indet.	0	1	0	1	2	1	0	0	0	0	0	0
Filipendula ulmaria	0	0	0	1	0	1	0	0	0	0	0	0
Potentilla sp.	1	3	4	5	5	3	0	2	1	1	0	0
Potentilla erecta	0	0	0	1	0	0	0	0	0	0	0	0
Agrimonia sp.	0	0	0	0	0	1	0	0	0	0	0	0
Aphanes arvensis	1	0	3	2	1	3	0	0	1	1	0	0
Aphanes arvensis/australis	0	0	0	1	0	0	0	0	0	0	0	0
Fabaceae indet.	3	8	5	9	11	6	0	0	0	1	3	0
Onobrychis viciifolia	0	0	0	0	0	0	0	0	0	0	0	0
Lotus/Medicago/ Trifolium	5	12	12	16	20	18	1	1	3	7	6	6
Vicia sp.	0	3	1	4	3	5	0	0	1	0	0	1
Vicia/Lathyrus	12	20	23	23	28	18	4	5	7	12	14	8
Vicia/Lathyrus/ Pisum	1	1	1	3	4	7	0	0	0	0	1	1
V1c1a cracca/hirstua	0	0	0	2	2	3	0	0	0	1	1	2
Vicia hirsuta	0	0	1	1	1	0	0	0	0	0	0	0
Vicia tetrasperma	1	2	0	1	3	3	0	0	0	0	1	0
Vicia sativa	0	1	0	0	1	2	0	1	0	0	0	0
Vicia lathyroides	0	0	0	0	0	1	0	0	0	0	0	0
Lathyrus/Pisum	0	0	0	0	0	2	0	0	0	0	0	0
Lathyrus sp.	0	1	0	0	1	0	0	0	0	0	0	0
Lathyrus sp.	0	0	0	1	0	0	0	0	0	0	0	0
Lathyrus nissolia	0	0	1	5	2	2	0	0	0	0	0	0
Melilotus/ Medicago/ Trifolium	0	6	3	4	4	5	0	2	1	2	2	3

	No	of reco	ds in wh	nich taxo	on is pres	sent	No. of	records	in taxon	is repre	esented b	y ≥ 10
	(to	tal no. of	records	in brack	cets for e	each	seeds	(total no.	of recor	ds in br iod)	ackets fo	or each
Таха	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Medicago luplina	0	2	4	6	5	4	0	1	1	0	0	0
Trifolium sp.	1	5	5	8	7	6	0	2	2	2	3	4
Ulex europaeus	0	0	0	0	1	0	0	0	0	0	0	0
Myriophyllum sp.	0	0	0	0	1	0	0	0	0	0	0	0
Epilobium sp.	0	1	0	1	1	1	0	0	0	0	0	0
Cornus sanguinea	0	0	0	0	0	1	0	0	0	0	0	0
Linum sp.	0	0	0	0	3	0	0	0	0	0	0	0
Linum sp.	0	0	0	0	1	1	0	0	0	0	0	0
Linum catharticum	0	0	0	2	1	0	0	0	0	0	0	0
Oxalis sp.	0	0	1	0	0	0	0	0	0	0	0	0
Geranium sp.	0	0	1	0	0	0	0	0	0	0	0	0
Apiaceae indet.	4	5	2	7	9	6	0	0	0	1	1	0
Hydrocotyle vulgaris	0	0	0	0	2	1	0	0	0	0	0	0
Conopodium majus	0	0	0	1	0	0	0	0	0	0	0	0
Oenanthe fistulosa	0	0	0	0	2	0	0	0	0	0	0	0
Aethusa cynapium	0	2	0	0	2	2	0	0	0	0	0	0
Conium maculatum	0	0	1	3	3	1	0	0	0	0	0	0
Bupleurum rotundifolium	0	0	0	0	0	1	0	0	0	0	0	0
Apium-type	0	0	0	1	0	0	0	0	0	0	0	0
Torilis sp.	0	0	0	1	0	1	0	0	0	0	0	0
Solanaceae indet	1	0	0	0	0	0	0	0	0	0	0	0
Hyoscyamus niger	1	2	3	3	5	2	0	0	0	0	0	0
Physalis sp.	0	0	1	0	0	0	0	0	0	0	0	0
Solanum sp.	1	1	0	1	1	1	0	0	0	0	0	0
Solanum nigrum	0	1	2	2	2	1	0	0	0	0	0	0
Solanum dulcamara	0	0	0	0	1	1	0	0	0	0	0	0
Menyanthes trifoliata	0	0	0	0	1	1	0	0	0	0	0	0
Lithospermum sp.	0	0	0	1	1	0	0	0	0	0	0	0
Lithospermum arvense	4	1	2	7	6	4	0	0	0	1	1	0
Myosotis sp.	0	0	1	0	0	0	0	0	0	0	0	0
Verbena sp.	0	0	0	0	0	0	0	0	0	0	0	0
Lamiaceae indet.	2	1	4	5	6	2	0	0	0	1	0	0
Stachys sp.	0	0	0	0	1	1	0	0	0	0	0	0
Stachys palustris	0	0	0	0	1	0	0	0	0	0	0	0
Ballota nigra	0	0	0	1	0	0	0	0	0	0	0	0
Lamium sp.	1	0	0	1	1	1	1	0	0	0	0	0
Lamium album	0	0	0	2	0	0	0	0	0	0	0	0
Galeopsis tetrahit	0	2	1	0	1	1	0	0	0	0	0	0
Ajuga reptans	0	0	0	1	0	0	0	0	0	0	0	0

	No (to). of reco tal no. of	rds in wl Frecords	hich taxo in bracl	on is pre kets for	sent each	No. o seeds	f records (total no	in taxor of reco	ı is repr rds in bı	esented h ackets fo	oy≥10 or each
			per	iod)					per	iod)		
Taxa	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Glechoma hederachea	0	0	0	1	0	0	0	0	0	0	0	0
Prunella sp.	0	0	0	1	2	2	0	0	0	0	0	0
Prunella vulgaris	0	0	2	9	7	4	0	0	0	1	0	1
Lycopus europaeus	0	0	0	0	0	1	0	0	0	0	0	0
Mentha sp.	0	1	2	0	1	1	0	0	0	0	1	0
Salvia verbenica	0	0	0	1	0	0	0	0	0	0	0	0
Plantago sp.	0	1	2	1	1	2	0	0	1	0	0	0
Plantago maritima	0	0	0	0	0	1	0	0	0	0	0	0
Plantago major	0	0	2	1	2	1	0	0	0	0	0	0
Plantago major/media	1	1	0	0	1	0	0	0	0	0	1	0
Plantago media/lanceolata	2	0	1	0	1	0	0	0	0	0	0	0
Plantago lanceolata	4	13	8	12	18	12	0	1	0	4	5	4
Linaria sp.	0	0	0	1	0	0	0	0	0	0	0	0
Veronica hederifolia	1	2	1	1	2	1	0	0	0	0	0	0
Euphrasia sp.	0	0	2	2	1	0	0	0	0	1	0	0
Euphrasia/Odontite	4	7	6	8	6	8	1	0	3	3	2	0
Odontites sp.	0	0	0	0	1	0	0	0	0	0	0	0
Odontites vernus	0	4	1	4	5	4	0	0	0	0	0	0
Rhinanthus sp.	0	0	2	2	3	0	0	0	0	0	0	0
Rhianthus minor	0	0	0	0	1	0	0	0	0	0	0	0
Rubiaceae indet.	0	0	0	0	0	0	0	0	0	0	0	0
Sherardia arvensis	3	1	4	6	5	2	0	0	1	0	0	0
Galium sp.	2	5	7	9	11	8	1	0	0	0	0	1
Galium uliginosum	0	0	0	0	1	1	0	0	0	0	0	0
Gallium palustre	0	0	0	1	3	2	0	0	0	0	0	1
Galium verum	0	0	0	1	1	1	0	0	0	0	0	1
Gallium mollugo	0	0	0	0	1	1	0	0	0	0	0	0
Gallium mollugo/saxataile	0	0	1	1	0	0	0	0	0	0	0	0
Galium aparine	14	10	15	15	16	13	3	0	0	3	1	1
Valerianella sp.	0	1	3	2	1	1	0	0	1	0	0	0
Vallerianella dentata	1	2	4	2	3	0	0	0	1	0	0	0
Dipsacus fullonum	0	0	0	0	0	1	0	0	0	0	0	0
Asteraceae indet.	3	1	4	7	13	9	1	0	0	2	3	2
Small Asteraceae indet.	3	0	1	2	3	4	0	0	0	1	0	0
Large Asteraceae indet.	0	0	0	1	3	1	0	0	0	0	0	0
Arctium sp.	0	0	0	0	1	0	0	0	0	0	0	0
Carduus/Cirsium	0	0	1	1	5	2	0	0	0	0	1	0

	No	. of recor	ds in wh	ich taxo	n is pres	No. of records in taxon is represented by ≥ 10						
	(to	tal no. of	al no. of records in brackets for each period) seeds (total no. of records in brackets for each period)								ackets fo	r each
Таха	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)
Carduus/Cirsium/ Centaurea	0	0	0	1	1	3	0	0	0	0	0	0
Cirsium sp.	0	0	1	0	3	0	0	0	1	0	0	0
Centaurea sp.	0	2	0	1	6	5	0	0	0	0	0	1
Centaurea scabiosa	0	0	1	0	0	0	0	0	0	0	0	0
Centaurea cyanus	0	0	0	0	2	1	0	0	0	0	0	1
Centaurea nigra	0	0	1	1	3	1	0	0	0	0	1	0
Lapsana communis	1	2	0	2	4	7	0	0	0	0	0	0
Picris sp.	0	0	0	0	2	0	0	0	0	0	0	0
Picris echioides	0	0	0	1	0	0	0	0	0	0	0	0
Crepis sp.	1	1	0	0	0	0	0	0	0	0	0	0
Crepis capillaris	0	0	0	0	1	0	0	0	0	0	0	0
Tanacetum vulgare	0	0	0	0	1	0	0	0	0	0	0	0
Artemesia vulgaris	0	0	0	0	1	0	0	0	0	0	0	0
Anthemis sp.	0	0	0	1	1	0	0	0	0	0	0	0
Anthemis cotula	2	7	0	7	20	21	0	0	0	1	6	11
Anthemis/ Tripleurospermum	0	1	0	0	1	0	0	0	0	0	0	0
Chrysanthemum segetum	0	1	0	3	1	0	0	0	0	0	0	0
Leucanthemum vulgare	0	0	1	4	2	1	0	0	0	0	1	0
Tripleurospermum sp.	0	0	0	1	1	0	0	0	0	1	1	0
Tripleurospermum maritimum	1	1	4	5	2	1	0	1	2	2	0	0
Tripleurospermum inodorum	4	8	7	9	15	10	1	2	1	2	5	4
Tripleurospermum inodorum seed head	0	0	0	0	0	2	0	0	0	0	0	1
Senecio sp.	0	0	0	1	1	1	0	0	0	0	0	0
Eupatorium cannabinum	0	0	0	0	0	1	0	0	0	0	0	0
Alisma plantago- aquatica	0	0	0	0	1	1	0	0	0	0	1	0
Potamegaton pusillus	0	0	1	0	0	0	0	0	0	0	0	0
Najas marina	0	0	0	0	1	0	0	0	0	0	0	0
Lemna sp.	0	0	0	1	0	1	0	0	0	1	0	0
Juncaeae indet.	0	0	0	0	0	1	0	0	0	0	0	0
Juncus sp.	2	2	1	3	6	3	0	0	0	1	1	0
Luzula sp.	0	0	2	1	3	2	0	0	0	0	0	0
Cyperaceae indet	3	3	1	4	4	3	0	0	0	0	0	0
Eleocharis sp.	0	3	5	10	7	5	0	2	2	6	3	0
Eleocharis palustris	3	6	4	4	8	3	1	1	1	1	3	1
Eleocharis	0	1	5	4	6	3	0	1	2	2	2	3

	No. of records in which taxon is present (total no. of records in brackets for eachNo. of records in taxon is represent seeds (total no. of records in brackets								esented b ackets fo	$y \ge 10$ or each		
Таха	EIA	MIA	LIA	ER	MR	LR	EIA	MIA	LIA	ER	MR	LR
	(29)	(33)	(36)	(41)	(45)	(40)	(29)	(33)	(36)	(41)	(45)	(40)
Eleocharis	0	0	0	0	1	0	0	0	0	0	0	0
Eleocharis	0	1	0	0	0	0	0	0	0	0	0	0
multicaulis/uniglu												
Eleocharis	0	0	0	2	0	0	0	0	0	0	0	0
quinquflora												
Scirpus sp.	1	0	2	1	2	0	0	0	0	0	1	0
Schoenoplectus sp.	0	0	0	1	3	1	0	0	0	0	1	0
Schoenoplectus tabernaemontani	0	0	0	0	1	0	0	0	0	0	1	0
Isolepis sp.	0	0	0	0	1	0	0	0	0	0	1	0
Isolepis setacea	0	1	0	0	1	1	0	0	0	0	0	0
Schoenus nigricans	0	0	1	1	0	0	0	0	0	0	0	0
Cladium mariscus	1	3	4	7	11	8	0	1	1	2	8	4
Carex sp.	6	14	9	20	22	16	0	2	2	6	8	4
Carex paniculata	0	0	0	0	1	2	0	0	0	0	1	2
Carex arenaria-	0	1	0	0	0	0	0	0	0	0	0	0
Carex pendula	0	0	1	0	0	0	0	0	0	0	0	0
Carex flacca-type	0	0	0	0	1	0	0	0	0	0	0	0
Carex actua	0	0	0	0	1	0	0	0	0	0	0	0
Carex flava group	0	0	0	0	1	0	0	0	0	0	0	0
Carex nigra-type	0	0	0	0	1	1	0	0	0	0	0	0
Poaceae indet	7	14	13	13	16	12	2	5	6	6	8	4
Small poaceae	7	14	11	17	19	16	6	2	3	3	11	10
Large poaceae	8	5	11	12	16	14	4	4	7	6	10	12
Indet Medium poaceae	3	1	6	10	4	6	1	0	3	2	3	5
indet	5	-	Ű	10		Ű	-	Ŭ	5	-	5	Ũ
Nardys stricta	0	0	0	0	0	1	0	0	0	0	0	0
Festuca sp.	0	1	2	5	2	3	0	0	0	2	0	1
Festuca/Lolium	1	1	1	1	6	3	0	0	0	0	3	2
Festuca rubra	0	0	0	1	0	0	0	0	0	1	0	0
Lolium sp.	0	3	5	4	7	2	0	0	1	4	2	1
Lolium/Avena	0	1	0	0	0	0	0	0	0	0	0	0
Lollium perenne- type	0	1	0	1	3	1	0	0	0	0	1	0
Lollium multiflorum	0	0	0	1	0	0	0	0	0	0	0	0
Lollium temulentum	0	0	0	2	1	2	0	0	0	0	0	0
Vulpia sp.	0	0	0	0	0	1	0	0	0	0	0	0
Vulpia bromoides	0	0	0	2	0	0	0	0	0	1	0	0
Cynosurus cristatus	0	0	1	2	2	2	0	0	0	0	0	0
Poa type	1	3	5	7	8	5	0	2	1	3	1	1
Poa/Alopercurus	0	1	0	0	0	0	0	0	0	0	0	0

	No. of records in which taxon is present (total no. of records in brackets for each period)No. of records in taxon is repres seeds (total no. of records in bra period)								esented b ackets fo	ented by ≥ 10 ckets for each			
Таха	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	EIA (29)	MIA (33)	LIA (36)	ER (41)	MR (45)	LR (40)	
Poa/Phleum	0	3	0	2	0	0	0	0	0	1	0	0	
Poa annua	0	1	0	0	0	0	0	0	0	0	0	0	
Poa trivialis/pratensis- type	0	0	0	1	0	0	0	0	0	0	0	0	
Dactylis glomerata	0	0	0	0	1	1	0	0	0	0	0	0	
Melica uniflora	0	0	0	0	1	1	0	0	0	0	0	0	
Arrhenatherum elatius	7	2	7	3	5	4	0	0	0	1	0	0	
Avena sp.	9	18	16	23	30	20	2	9	1	5	13	10	
Avena/Bromus	2	9	5	7	14	9	0	4	1	3	3	6	
Deschampsia sp.	0	0	0	0	0	1	0	0	0	0	0	0	
Holcus lanatus	0	0	0	0	0	1	0	0	0	0	0	0	
Aira sp.	0	0	0	0	1	2	0	0	0	0	0	0	
Agrostis sp.	0	0	1	1	1	0	0	0	0	0	0	0	
Calamagrostis sp.	0	0	0	0	1	0	0	0	0	0	1	0	
Calamarostis epigejos	0	0	0	0	1	1	0	0	0	0	0	0	
Phleum sp.	0	3	4	5	6	7	0	0	1	4	1	2	
Phleum pratense	0	0	0	1	1	2	0	0	0	0	0	1	
Pleum pratense/bertolinii	0	0	1	1	1	1	0	0	0	0	0	0	
Phleum bertolonii	0	1	0	2	1	3	0	0	0	0	0	1	
Bromus sp.	10	15	14	12	22	14	5	8	8	3	13	10	
Bromus hordeaceus/secalin us	6	14	12	21	17	16	2	10	8	14	11	11	
Anisantha stellaris	0	0	1	0	1	0	0	0	0	0	0	0	
Brachypodium pinnatum	0	0	0	0	0	1	0	0	0	0	0	0	
Elytrigia repens rhizome	0	0	1	0	0	0	0	0	0	0	0	0	
Danthonia decumbens	0	1	3	3	5	3	0	0	0	1	1	0	
Phragmites australis	0	0	0	0	1	0	0	0	0	0	1	0	
Setaria sp.	0	0	0	0	0	1	0	0	0	0	0	0	
Sparganium sp.	0	0	0	0	3	1	0	0	0	0	0	0	
Typha sp.	1	0	0	1	0	0	0	0	0	0	0	0	
Lilaceae	0	0	0	1	0	0	0	0	0	0	0	0	

Species/Grouping	Abbreviation	Species/Grouping	Abbreviation
Cereal items		Small weeds (continued))
Triticum sp. grain	TSP GR	Tripleurospermum spp.	TRI SPP
Glume wheat grain	GW GR	Cladium mariscus	CLA MAR
<i>T. aestivum</i> grain	AES GR	Carex spp.	CAR SPP
Hordeum vulgare grain	HVU GR	Small Poaceae indet.	POA INDS
Glume wheat glume base	HVU GB	Poa-type	POA SPP
T. aestivum rachis node	AES RN	Phleum spp.	PHL SPP
Hordeum vulgare rachis node	HVU RN	Small weeds indet.	W INDS
Cerealia culm node	CER CN		
Weed seeds (unknown size)		Intermediate weed seed	s
Galium spp.	GAL SPP	Polygonaceae indet.	POL IND
Asteraceae indet.	AST IND	Polygonum spp.	POL SPP
Poaceae indet.	POA IND	Persicaria	PER ML
		maculosa/lapathifolia	
Weeds indet.	W IND	Polygonum aviculare	POL AVI
Small weed seeds		Plantago spp.	PLA SPP
Chenopodiaceae indet.	CHE IND	Eleocharis spp.	ELE SPP
Chenopodium spp.	CHE SPP	Eleocharis	ELE PU
		palustris/uniglumis	
Chenopodium album	CHE ALB	Intermediate weeds	W INDI
		indet.	
Atriplex spp.	ATR SPP	Large weed seeds	
Atriplex prostata/patula	ATR PP	Ranunculus	RAN ARB
		acris/repens/bulbosus	
Montia fontana	MON FON	Agrostemma githago	AGR GIT
Caryophyllaceae indet.	CAR IND	Fallopia convolvulus	FAL CON
Stellaria media	STE MED	Raphanus	RAP RAP
		raphanistrum	
Stellaria palustris/graminea	STE PG	Large Fabaceae	FAB INDL
Rumex spp.	RUM SPP	Galium aparine	GAL APA
Rumex acetosella	RUM ACE	Large Asteraceae indet.	AST INDL
Rumex	RUM COS	Large Poaceae indet.	POA INDL
conglomeratus/obtusifolius/sanguineus			
Small Brassicaceae	BRA INDS	Avena spp.	AVE SPP
Small Fabaceae	FAB INDS	Avena/Broums spp.	AVE BRO
Small Lamiaceae	LAM INDS	Bromus spp.	BRO SPP
Euphrasia/Odontites-type	EUP ODO	Bromus spp.	BRO HS
Small Asteraceae indet.	AST INDS	Large weeds indet.	W INDL
Anthemis cotula	ANT COT		

Taxon/item	Abbreviation	Datasets
Cereal items		
Cerealia culm node	CER CN	А
Triticum spelta glume base	SPE GB	A, C, D
Triticum spelta grain	SPE GR	C, D, E
Triticu dicoccum glume base	DIC GB	А
Glume wheat grain	GW GR	А
Triticum aestivum grain	AES GR	А
Triticum sp. grain	IW GR	В
Hordeum vulgare rachis node	HVU RN	A, C, D, E
Hordeum vulgare grain	HVU GR	A, B, C, D, E
Weed seeds		
Chenopodiaceae indet.	CHE IND	A, C
Chenopodium spp.	CHE SPP	A, C, E
Atriplex spp.	ATR SPP	А
Polygonaceae indet.	POL IND	А
Polygonum aviculare	POL AVI	С
Persicaria maculosa/lapathifolia	PER ML	А
Fallopia convolvulus	FAL CON	A, C
Rumex spp.	RUM SPP	C, D, E
Small Fabaceae indet.	SFAB IND	С
Trifolium spp.	TRIF SPP	А
Vicia/Lathyrus	VIC LAT	A, C
Medicago luplina	MED LUP	А
Asteraceae indet.	AST IND	C, D, E
Tripleurospermum spp.	TRI SPP	A, C
Anthemis cotula	ANT COT	C, D, E
Eleocharis spp.	ELE SPP	А
Cladium mariscus	CLA MAR	A, C, D
Carex spp.	CAR SPP	А
Large Poaceae indet.	LPOA IND	C, D, E
Small Poaceae indet.	SPOA IND	D, E
Festuca/Lollium	FES LOL	C, D
Phleum spp.	PHL SPP	А
Avena spp.	AVE SPP	A, B, C, E
Avena/Bromus	AVE BRO	Α
Bromus spp.	BRO SPP	A, E
Bromus hordeaceus/secalinus	BRO HS	A, B, C, D, E

Table A3.3. Abbreviations used in CA species plots in Chapter 5.

Species	Abbreviation		Soi	l prei	ferences	Lif	fe-history characteris	stics	Key significance	Datasets
		F	N	R	Preference for clayey soil?	Perennation and regeneration	Flowering period	Germination time		
Chenopodium spp.	CHE SPP	6	8	7	No	Annual	Varied	Spring	N8: prefers very rich soils. Spring germinating: consistent with spring sowing/rich soils.	H, I
Atriplex spp.	ATR SPP	6	7	7	No	Varied	Varied	Spring	N7: prefers rich soils. Spring germinating: consistent with spring sowing/rich soils.	H, I, J
Rumex acetosella	RUM ACE	5	3	4	No	Perennial ^R	Non-diagnostic	Spring	N3: prefers infertile soils. R4: prefers moderately acidic soils.	H, I, J
Rumex conglomeratus/ obtusifolius/sanguineus	RUM COS	7	8	7	No	Perennial	Non-diagnostic	Varied	F7: prefers damp soils. N8: prefers very rich soils. Perennial: cannot survive frequent soil disturbance.	I, J
Anthemis cotula	ANT COT	5	6	6	Yes	Annual	Non-diagnostic	Autumn	Prefers heavy clay soils. N6: prefers intermediate – rich soils Autumn-germinating: consistent with autumn-sowing/poorer soils.	Ι
Tripleurospermum spp.	TRI SPP	5	6	6	No	Varied	Non-diagnostic	Autumn	N6: prefers intermediate – rich soils. Autumn-germinating: consistent with autumn-sowing/poorer soils.	H, I, J
Cladium mariscus	CLA MAR	10	4	8	No	Perennial	Early/ intermediate, short	Spring	F10: grows where shallow standing water is periodically present. N4: prefers infertile – intermediate soils. R8: prefers basic soils. Perennial: cannot survive frequent soil disturbance. Spring germinating (consistent with spring-sowing/rich soils),	H, I

Table A3.4. Ecological/life history characteristics and key significance of species included in CA analysis in Chapter 6.

Species	Abbreviation		Soi	il pre	ferences	L	ife-history characteris	stics	Key significance	Datasets
									but early/intermediate and short- flowering (consistent with autumn-sowing).	
Polygonum aviculare	POL AVI	5	7	6	No	Annual	Non-diagnostic	Spring	N7: prefers rich soils. Spring germinating: consistent with spring-sowing/rich soils.	H, I, J
Plantago lanceolata	PLA LAN	5	4	6	No	Perennial ^R	Early/ intermediate, long	Autumn	N4: prefers infertile – intermediate soils. Autumn-germinating (consistent with autumn-sowing/poorer soils) but long-flowering (consistent with spring sowing/frequent disturbance).	H, I, J
Eleocharis palustris/ uniglumis	ELE PU	10	4	7	No	Perennial ^R	Early/ intermediate, short	Spring	F10: grows where shallow standing water is periodically present. N4: prefers infertile – intermediate soils. Spring germinating (consistent with spring-sowing/rich soils), but early/intermediate and short- flowering (consistent with autumn-sowing)	H, I, J
Fallopia convolvulus	FAL CON	4	5	7	No	Annual	Late, short/medium	Autumn	Autumn-germinating: consistent with autumn-sowing/poorer soils.	H, I, J
Lolium spp	LOL SPP	5	7	7	No	Varied	Early/intermediate, medium	Spring	N7: prefers rich soils. Spring-germinating (consistent with spring-sowing/rich soils) but early/intermediate and short- flowering (consistent with autumn-sowing).	Ι
Avena spp.	AVE SPP	6	6	6	No	Annual	Late, medium	Unclear	N6: prefers intermediate – rich soils. Late-flowering: consistent with spring-sowing.	H, I, J
Bromus hordeaceus/ secalinus	BRO HS	4	4	6	No	Annual	Early/intermediate, short	Unclear	N4: prefers infertile – intermediate soils.	H, I, J

SpeciesMontia fontanaRanunculus acris/repens/bulbosusAgrostemma githagoRaphanus raphanistrumGalium aparineDanthonia decumbens	Abbreviation	Soil preferences				L	ife-history characteris	stics	Key significance	Datasets
									Early/intermediate and short- flowering: consistent with autumn-sowing.	
Montia fontana	MON FON	9	3	5	No	Varied	Early/intermediate, long	Spring	N3: prefers infertile soils. Spring germinating: consistent with spring-sowing/rich soils.	J
Ranunculus acris/repens/bulbosus	RAN ARB	6	3	6	No	Perennial ^R	Early/intermediate, long	Varied	N3: prefers infertile soils.	J
Agrostemma githago	AGR GIT	5	5	6	No	Annual	Non-diagnostic	Autumn	Autumn-germinating: consistent with autumn-sowing/poorer soils.	J
Raphanus raphanistrum	RAP RAP	5	6	6	No	Varied	Non-diagnostic	Spring	N6: prefers intermediate – rich soils. Spring-germinating: consistent with spring-sowing/rich soils.	J
Galium aparine	GAL APA	6	8	7	No	Annual	Early/intermediate, short	Autumn	N8: prefers very rich soils. Autumn-germinating: consistent with autumn-sowing/poorer soils. Early/intermediate and short- flowering: consistent with autumn-sowing.	J
Danthonia decumbens	DAN DEC	6	2	4	No	Perennial	Non-diagnostic	Unclear	N2: prefers infertile soils. R4: prefers acidic soils. Perennial: cannot survive frequent soil disturbance	J

^R Able to regenerate from fragments.