

Appendix 1: Data Tables for the New Graveyard Faunal Assemblage

Table 1: Cattle Age-at-death data from settlement cemeteries and enclosed settlements, expressed as the percentage of the total in each age category. After McCormick et al. 2011)

Name	Site type	N	0-13	15-24	24-30	30-33	36+
Baronstown Ph 1	Enclosure-complex	112	1	18	14	11	56
Baronstown Ph 2	Enclosure-complex	16	0	0	25	0	75
Dowdstown Ph 2	Enclosure-complex	58	17	24	10	9	40
Dowdstown Ph 3	Enclosure-complex	34	0	15	18	9	59
Roestown 1a	Enclosure-complex	23	0	9	9	26	57
Roestown 1b	Enclosure-complex	11	0	18	18	0	64
Roestown 2a	Enclosure-complex	25	4	8	16	20	52
Roestown 2b	Enclosure-complex	27	0	0	0	7	93
Roestown 3a	Enclosure-complex	30	3	3	10	10	73
Roestown 3b	Enclosure-complex	4	0	0	0	0	100
Roestown 4	Enclosure-complex	8	0	13	13	38	38
Johnstown	Settlement-cemetery	12	25	42	25	0	8
Raystown 2	Settlement-cemetery	33	12	18	39	0	30
Raystown 3	Settlement-cemetery	15	7	23	23	7	40
Raystown 5	Settlement-cemetery	12	8	21	21	0	50

Table 2: Pig Age-at-death data from settlement cemeteries and enclosed settlements, expressed as the percentage of the total in each age category. After McCormick et al. 2011)

Site	N	0-6	7-12	12-17	17-23	23-27	27+
Raystown 2	35	1	16	3	71	7	1
Raystown 3	17	9	9	15	44	12	12
Raystown 5	6	0	33	8	42	17	0
Knowth 8	21	0	14	0	86	0	0
Knowth 9	123	1	11	2	78	7	2
DPF	71	3	3	8	62	21	3
Fishamble	964	1	28	5	40	23	3
Johnstown	32	0	9	0	63	28	0
Moynagh	241	2	8	6	67	12	4
Dowdstown Ph 2	30	10	20	23	17	30	0
Dowdstown Ph 3	35	3	20	11	31	31	3
Roestown 1a	35	3	20	11	31	31	3
Roestown 1b	10	0	0	0	70	20	10
Roestown 2a	6	0	0	0	83	17	0
Roestown 2b	26	0	0	0	77	23	0
Roestown 3a	5	0	0	0	40	20	40
Roestown 3b	15	0	7	0	93	0	0
Roestown 4	2	0	0	0	100	0	0
Baronstown Ph 1	57	9	12	2	51	21	5
Baronstown Ph 2	12	0	0	0	58	42	0
Clonmacnoise Ph 1	35	0	3	31	40	23	3
Clonmacnoise Ph 2	71	0	11	17	38	31	3
Clonmacnoise Ph3	113	0	8	16	35	33	8

Table 3: Element frequency data for all Phase 1 assemblages, calculated in terms of NISP.

	Cattle	Horse	S/G	Pig	Dog	Cat	Deer	Otter	<i>Lepor.</i>	Badger	Fox
HORN	54	0	12	0	0	0	49	0	0	0	0
SKULL	133	0	16	66	2	1	1	0	0	0	0
MANDIBLE	199	1	14	68	4	5	2	0	0	0	1
TEETH	618	30	79	395	18	15	8	0	0	0	3
ATLAS	27	0	4	4	0	0	0	0	0	0	0
AXIS	50	0	6	2	1	0	0	0	0	0	0
SCAPULA	148	0	58	93	0	0	2	0	0	0	0
HUMERUS	220	0	53	135	4	3	9	1	0	0	0
RADIUS	209	1	39	39	2	4	6	0	0	0	0
ULNA	141	2	19	49	1	0	1	1	2	0	0
METACARPAL	97	2	4	33	3	0	1	0	0	0	0
PELVIS	238	1	85	128	0	5	4	2	1	1	0
FEMUR	197	1	37	114	1	3	0	1	3	0	0
PATELLA	34	0	1	1	0	0	1	0	0	0	0
TIBIA	141	1	63	68	3	3	5	0	0	0	0
FIBULA	0	0	0	9	3	0	0	0	0	0	0
ASTRAGALUS	101	1	6	21	0	0	3	0	0	0	0
CALCANEUS	139	1	7	26	1	1	4	0	1	0	0
METATARSAL	111	1	8	49	8	2	2	0	1	0	0
METAPODIAL	36	0	2	14	1	1	0	0	1	0	0
TAR/CAR	12	1	0	0	0	0	0	0	0	0	0
PHALANX 1	115	0	4	16	0	0	1	0	0	0	0
PHALANX 2	85	0	1	12	0	0	0	0	0	0	0
PHALANX 3	73	0	0	4	0	0	0	0	0	0	0
TOTAL	3178	43	518	1346	52	43	99	5	9	1	4
TOTAL%	59.98	0.81	9.78	25.41	0.98	0.81	1.87	0.09	0.17	0.02	0.08

Table 4: Cattle element frequency data for selected Phase 1 assemblages, calculated in terms of MNE.

	ECPH1	F654	F485
Horn	9	5	0
Maxilla	3	1	1
Mandible	25	7	7
Scapula	46	11	2
Humerus P	14	4	1
Humerus D	35	11	8
Radius P	28	5	7
Radius D	15	6	6
Ulna	36	8	6
Metacarpal P	11	7	4
Metacarpal D	11	3	5
Pelvis	31	10	8
Femur P	18	4	2
Femur D	18	4	3
Patella	8	2	4
Tibia P	9	0	2
Tibia D	26	3	5
Calcaneus	34	12	5
Astragalus	27	7	8
Metatarsal P	21	6	3
Metatarsal D	13	2	4
Maximum	46	12	8

Table 5: Pig element frequency data for selected Phase 1 assemblages, calculated in terms of MNE.

	ECPH1	F654	F485
Maxilla	7	2	3
Mandible	10	4	6
Scapula	29	7	5
Humerus P	9	2	0
Humerus D	29	11	5
Radius P	12	2	1
Radius D	8	1	0
Ulna	15	3	1
Metacarpal 2	2	0	0
Metacarpal 3	5	0	0
Metacarpal 4	5	0	0
Metacarpal 5	1	0	0
Pelvis	26	7	4
Femur P	13	1	1
Femur D	7	1	1
Patella	1	0	0
Tibia P	10	0	2
Tibia D	15	3	1
Fibula	4	0	0
Calcaneus	11	0	1
Astragalus	6	2	0
Metatarsal 2	2	0	0
Metatarsal 3	11	1	1
Metatarsal 4	6	2	1
Metatarsal 5	2	0	0
Maximum	29	11	6

Table 6: Sheep/Goat element frequency data for selected Phase 1 assemblages, calculated in terms of MNE.

	ECPh1	F654	F485
Horn	4	0	0
Maxilla	2	1	0
Mandible	3	1	0
Scapula	18	3	4
Humerus P	4	0	1
Humerus D	10	4	4
Radius P	10	4	2
Radius D	5	2	1
Ulna	6	1	2
Mtc P	0	1	0
Mtc D	0	1	0
Pelvis	19	4	3
Femur P	9	2	0
Femur D	7	0	0
Patella	0	0	0
Tibia P	7	0	0
Tibia D	13	5	2
Fibula	0	0	0
Calcaneus	4	0	0
Astragalus	2	0	0
Mtt P	2	1	0
Mtt D	1	0	0
Maximum	19	5	4

Table 7: Cattle dental wear stage data for all three phases. Wear stages after Silver (1969) and Grant (1982). Age estimates after Silver (1969).

Wear Stage	Est. Age	All	Ph1	Ph2	Ph3
1	foetal	0	0	0	0
2	0-1wks	0	0	0	0
3	1-4 mo	0	0	0	0
4	5-6 mo	0	0	0	0
5	6-7 mo	0	0	0	0
6	7-9 mo	0	0	0	0
7	8-13 mo	1	0	0	1
8	15-16 mo	0	0	0	0
9	16-17 mo	5	1	3	1
10	17-18 mo	6	5	1	0
11	18-24 mo	3	2	1	0
12	24 mo	5	2	3	0
13	24-30 mo	18	4	5	9
14(A)	30 mo	9	2	5	2
15(B)	30-31 mo	13	6	3	4
16(C)	31-32 mo	9	7	2	0
17(D)	32-33 mo	6	3	2	1
18(E)	36 mo	8	2	2	4
19(F)	36-38 mo	11	5	2	4
20(G)	38-40 mo	28	7	6	15
(H)		7	1	5	1
(J)		26	8	9	9
(K)		34	7	14	13
(L)		24	4	11	9
(M)		6	1	3	2
Total		219	67	77	75

Table 8: Pig dental wear stage data for all three phases. Wear stages after Silver (1969) and Grant (1982). Age estimates after Silver (1969).

Wear Stage	Est. Age	All	Phase 1	Phase 2	Phase 3
1	Foetal	0	0	0	0
2	Birth- 1 week	0	0	0	0
3	1-4 weeks	0	0	0	0
4	3-7 weeks	0	0	0	0
5	2-4 months	0	0	0	0
6	4-5 mo	0	0	0	0
7	5-6 mo	0	0	0	0
8	6-7 mo	0	0	0	0
9	7-8 mo	4	0	1	3
10	8-9 mo	2	0	2	0
11	9-10 mo	2	0	2	0
12	10-11 mo	4	0	0	4
13	11-12 mo	6	1	3	2
14-17	12-17 mo	41	11	12	18
18	17-19 mo	34	5	14	15
19	19-21 mo	27	3	8	16
20	21-23 mo	20	6	5	9
21	23-25 mo	36	4	14	18
22	25-27 mo	25	2	7	16
23	27-29 mo	6	2	1	3
24+	30+ mo	12	1	2	9
Total		219	35	71	113

**Table 9: Sheep/Goat dental wear stage data for all three phases.
Wear stages after Silver (1969). Age estimates after Silver (1969).**

Wear Stage	Est. Age	All	Phase 1	Phase 2	Phase 3
1,2	birth-6 weeks	0	0	0	0
3	1.5-3 months	0	0	0	0
4	3 mo	0	0	0	0
5	4 mo	0	0	0	0
6	5 mo	0	0	0	0
7	5-7 mo	0	0	0	0
8	7-9 mo	0	0	0	0
9	9-10 mo	0	0	0	0
10	10-11 mo	0	0	0	0
11	11-12 mo	2	1	0	1
12	12-21 mo	13	2	3	8
13	21-24 mo	11	2	1	8
14	25-26 mo	21	4	0	17
15	26-28 mo	4	1	0	3
16+	28+ mo	36	0	7	29
Total		87	10	11	66

Table 10: Element frequency data for all Phase 2 assemblages, calculated in terms of NISP.

	Cattle	Horse	S/G	Pig	Dog	Cat	Deer	Otter	<i>Lepor.</i>	Fox
HORN	64	0	12	0	0	0	36	0	0	0
SKULL	191	2	23	165	1	1	1	0	0	0
MANDIBLE	264	0	27	126	5	5	1	0	0	0
TEETH	1048	19	185	1038	9	20	18	0	0	0
ATLAS	66	0	12	14	1	1	0	0	0	0
AXIS	67	0	8	3	0	1	0	0	0	0
SCAPULA	196	1	84	160	3	3	0	0	0	0
HUMERUS	308	1	105	173	6	1	3	0	0	0
RADIUS	234	3	85	84	4	0	2	1	0	1
ULNA	134	3	38	78	1	0	2	0	0	0
METACARPAL	142	4	13	71	6	1	1	0	0	0
PELVIS	329	1	95	161	1	2	5	0	1	0
FEMUR	287	1	69	127	1	2	3	0	0	0
PATELLA	43	0	1	1	0	0	2	0	0	0
TIBIA	253	3	107	105	3	4	2	0	0	0
FIBULA	4	0	0	4	0	1	0	0	0	0
ASTRAGALUS	155	2	30	30	1	0	8	0	0	0
CALCANEUS	171	3	32	48	0	0	0	0	0	0
METATARSAL	164	1	20	38	0	2	1	0	0	0
METAPODIAL	96	3	6	28	1	1	1	0	0	0
TAR/CAR	0	1	0	0	0	0	1	0	0	0
PHALANX 1	227	5	23	56	1	0	2	0	0	0
PHALANX 2	152	2	3	26	0	0	2	0	0	0
PHALANX 3	136	0	1	7	0	0	0	0	0	0
TOTAL	4731	55	979	2543	44	45	91	1	1	1
TOTAL%	55.72	0.65	11.53	29.95	0.52	0.53	1.07	0.01	0.01	0.01

Table 11: Cattle element frequency data for selected Phase 2 assemblages, calculated in terms of MNE.

	RHs1	Hearth	Road	F1174	sub-RtHs	F1141	F848
Horn	0	1	3	3	0	4	3
Maxilla	1	0	1	1	2	6	6
Mandible	1	2	4	5	6	10	9
Scapula	5	5	8	3	5	12	19
Humerus P	1	2	2	1	4	3	4
Humerus D	7	10	11	4	10	18	18
Radius P	1	4	4	5	11	5	17
Radius D	2	2	6	4	3	3	6
Ulna	2	2	3	4	6	8	13
Mtc P	3	2	6	9	6	9	6
Mtc D	1	1	4	4	3	2	5
Pelvis	4	3	7	4	10	13	18
Femur P	2	3	3	4	4	8	11
Femur D	2	5	2	3	4	5	6
Patella	3	0	1	1	0	2	6
Tibia P	2	2	2	3	2	3	4
Tibia D	4	3	5	5	11	8	9
Fibula	0	0	0	0	0	0	0
Calcaneus	4	4	7	6	5	12	19
Astragalus	2	3	6	7	8	5	15
Mtt P	3	2	2	8	3	2	8
Mtt D	1	2	3	2	6	3	4
Maximum	7	10	11	9	11	18	19

Table 12: Pig element frequency data for selected Phase 2 assemblages, calculated in terms of MNE.

	RHs1	Hearth	Road	F1174	sub-RtHs	F1141	F848
Maxilla	1	0	1	5	8	9	7
Mandible	1	1	3	7	6	11	7
Scapula	5	4	5	6	14	9	13
Humerus P	0	1	2	1	1	3	2
Humerus D	3	5	4	8	6	5	9
Radius P	4	2	2	3	6	5	10
Radius D	2	1	1	2	2	0	4
Ulna	1	1	4	4	5	3	8
Mtc 2	1	0	1	0	0	0	1
Mtc 3	0	0	1	2	5	0	3
Mtc 4	3	1	3	1	3	0	6
Mtc 5	1	1	1	0	1	0	1
Pelvis	3	3	4	6	13	8	9
Femur P	2	2	4	3	2	3	5
Femur D	1	4	4	3	5	5	7
Patella	0	0	0	0	0	0	0
Tibia P	0	2	2	2	2	2	5
Tibia D	3	2	2	5	2	4	9
Fibula	0	0	0	0	0	0	0
Calcaneus	0	2	3	1	4	2	3
Astragalus	1	0	0	3	3	1	3
Mt 2	0	0	0	0	2	1	0
Mtt 3	1	1	1	3	1	0	3
Mtt 4	1	1	1	1	3	1	2
Mtt 5	1	2	0	2	2	1	0
Maximum	5	5	5	8	14	9	13

Table13: Sheep/Goat element frequency data for selected Phase 2 assemblages, calculated in terms of MNE.

	RHs1	Hearth	Road	F1174	sub-RtHs	F1141	F848
Horn	0	1	1	0	0	0	1
Maxilla	1	0	2	0	1	1	1
Mandible	0	1	2	2	1	1	1
Atlas	0	0	0	0	0	0	0
Axis	0	0	0	0	0	0	0
Scapula	2	3	5	1	8	5	5
Humerus P	0	1	1	1	1	2	5
Humerus D	1	1	3	5	2	4	10
Radius P	2	2	2	7	4	4	4
Radius D	1	2	1	5	3	2	4
Ulna	0	0	4	1	2	2	4
Mtc P	0	0	1	1	0	1	0
Mtc D	0	0	1	1	0	2	0
Pelvis	1	1	4	3	6	5	3
Femur P	1	1	2	2	3	2	2
Femur D	1	0	4	1	3	0	4
Patella	0	0	0	0	0	0	0
Tibia P	3	1	3	1	4	1	2
Tibia D	2	1	2	4	6	4	5
Fibula	0	0	0	0	0	0	0
Calcaneus	2	1	1	2	2	1	0
Astragalus	3	0	1	1	1	0	3
Mtt P	0	0	1	2	2	0	0
Mtt D	0	0	0	0	1	0	0
Max	3	3	5	7	8	5	10

Table 14: Element frequency data for all Phase 3 assemblages, calculated in terms of NISP.

	Cattle	Horse	S/G	Pig	Dog	Cat	Deer	Otter	<i>Lepor.</i>	Pine- martin	Fox
HORN	92	0	43	0	0	0	160				
SKULL	173	1	65	238	8	3	2	5			
MANDIBLE	227	1	74	182	13	7	0			1	
TEETH	1365	39	658	1763	59	20	10	10		3	
ATLAS	36	0	23	25	3	4	0				
AXIS	54	0	9	14	0	0	0				
SCAPULA	221	2	98	245	2	4	3				
HUMERUS	309	1	138	261	7	16	2	3			
RADIUS	257	5	100	113	3	5	0	1			
ULNA	133	4	34	137	7	8	1				
METACARPAL	188	3	69	115	8	6	1				
PELVIS	340	4	133	260	4	5	0		1		
FEMUR	320	0	102	195	0	10	0	3		1	
PATELLA	50	0	2	15	0	0	0				
TIBIA	242	2	113	153	2	16	3				
FIBULA	4	0	0	22	0	0	0				
ASTRAGALUS	205	3	34	73	0	0	1				
CALCANEUS	242	2	41	115	2	3	2				
METATARSAL	190	2	47	77	7	8	1				1
METAPODIAL	109	4	19	55	4	1	0				
TAR/CAR	0	4	0	0	3	0	0				
PHALANX 1	294	0	74	122	14	0	1				
PHALANX 2	206	3	16	50	4	0	1				
PHALANX 3	163	1	4	19	2	0	0				
TOTAL	5421	81	1896	4249	152	117	188	22	1	5	1
TOTAL%	44.68	0.67	15.63	35.02	1.25	0.96	1.55	0.18	0.01	0.04	0.01

Table 15: Cattle element frequency data for selected Phase 3 assemblages, calculated in terms of MNE.

Element	Pit278	F748	F1140	Pit101	F198	F380	F575	Pit346	Ph3amalg	F1013
Horn	2	1	0	0	3	1	0	0	6	6
Maxilla	0	0	2	1	2	2	1	1	2	3
Mandible	3	2	4	2	5	6	4	7	8	7
Atlas	0	0	0	0	0	0	0	0	0	0
Axis	0	0	0	0	0	0	0	0	0	0
Scapula	3	9	8	7	5	7	5	9	13	20
Humerus P	1	1	2	3	1	0	0	3	8	5
Humerus D	3	8	3	6	4	7	6	9	18	14
Radius P	1	3	3	2	4	4	6	8	8	11
Radius D	0	5	2	4	1	5	3	5	6	6
Ulna	3	2	2	2	5	4	6	7	8	12
Mtc P	1	4	0	2	3	2	8	8	8	9
Mtc D	1	2	1	2	2	1	3	4	6	8
Pelvis	4	3	3	5	7	3	6	5	7	15
Femur P	4	3	3	5	4	4	3	5	8	11
Femur D	4	3	3	6	3	2	5	2	8	7
Patella	1	2	1	2	1	0	3	1	0	5
Tibia P	2	2	2	2	3	2	3	3	3	5
Tibia D	2	4	2	5	4	6	6	8	11	12
Fibula	0	0	0	0	0	0	0	0	0	0
Calcaneus	7	5	5	4	3	8	11	14	13	18
Astragalus	4	2	3	5	4	7	8	8	18	14
Mtt P	2	3	4	2	1	4	3	8	5	10
Mtt D	1	1	1	1	1	2	1	2	6	8
Maximum	7	9	8	7	7	8	11	14	18	20

Table 16: Pig element frequency data for selected Phase 3 assemblages, calculated in terms of MNE.

Element	Pit278	F748	F1140	Pit101	F198	F380	F575	Pit346	Ph3amalg	F1013
Maxilla	2	4	3	3	4	2	5	6	12	15
Mandible	3	1	5	4	5	7	6	4	8	12
Atlas	0	0	0	0	0	0	0	0	0	0
Axis	0	0	0	0	0	0	0	0	0	0
Scapula	4	4	3	4	5	5	10	10	24	23
Humerus P	2	1	2	2	2	2	1	2	9	4
Humerus D	3	2	2	2	7	5	8	10	21	16
Radius P	1	0	2	2	3	3	2	5	6	6
Radius D	1	1	3	3	1	1	1	1	2	2
Ulna	3	2	10	2	3	3	3	9	7	9
Mtc 2	0	0	0	0	1	0	0	0	1	1
Mtc 3	2	1	1	2	0	1	3	3	6	5
Mtc 4	1	0	0	3	0	4	3	5	3	4
Mtc 5	0	1	0	0	1	1	2	0	1	1
Pelvis	5	2	7	7	8	4	8	4	14	21
Femur P	3	2	3	1	0	3	2	3	3	5
Femur D	1	2	5	1	2	3	7	2	5	10
Patella	1	0	0	0	0	0	1	0	2	0
Tibia P	1	1	2	3	3	2	2	0	4	4
Tibia D	3	2	1	2	5	1	2	3	8	10
Fibula	2	0	1	1	0	0	0	2	3	9
Calcaneus	3	2	2	2	3	0	6	4	13	10
Astragalus	2	2	3	1	1	1	2	2	8	6
Mt 2	2	0	0	0	1	0	1	0	1	2
Mtt 3	2	1	3	0	1	3	1	2	4	3
Mtt 4	2	0	2	3	0	2	1	2	2	5
Mtt 5	1	1	0	3	3	0	1	0	1	2
Maximum	5	4	10	7	8	7	10	10	24	23

Table 17: Sheep/Goat element frequency data for selected Phase 3 assemblages, calculated in terms of MNE.

0	Pit278	F748	F1140	Pit101	F198	F380	F575	Pit346	Ph3amalg	F1013
Horn	1	2	0	0	2	2	0	1	1	2
Maxilla	0	2	1	0	1	3	1	1	2	2
Mandible	2	1	2	4	1	2	1	3	8	7
Atlas	0	0	0	0	0	0	0	0	0	0
Axis	0	0	0	0	0	0	0	0	0	0
Scapula	0	4	2	4	3	4	2	2	9	6
Humerus P	0	0	3	1	0	3	1	1	4	3
Humerus D	2	6	4	1	7	3	3	2	8	8
Radius P	0	5	2	1	2	2	3	1	7	6
Radius D	2	2	2	1	3	3	2	2	9	3
Ulna	1	1	1	0	3	3	2	0	4	2
Mtc P	1	1	1	3	1	1	3	3	7	5
Mtc D	1	1	0	1	1	3	2	3	4	5
Pelvis	1	3	3	4	3	4	4	3	6	5
Femur P	1	2	0	1	2	3	3	1	4	4
Femur D	1	1	2	1	1	2	2	1	4	5
Patella	0	0	0	0	1	0	0	1	2	0
Tibia P	0	2	1	0	1	3	1	2	6	0
Tibia D	1	4	2	1	2	4	1	3	6	7
Fibula	0	0	0	0	0	0	0	0	0	0
Calcaneus	1	1	1	0	1	1	2	2	5	4
Astragalus	0	4	0	0	2	2	1	1	4	1
Mtt P	0	2	2	0	2	2	2	1	4	5
Mtt D	0	1	1	1	2	1	1	1	3	3
Maximum	2	6	4	4	7	4	4	3	9	8