

Appendix 9: Beef sample data produced during FS515009

country	2 letter PC	slaughter date	age of cattle [month]	² H/ ¹ H [‰] vs V-SMOW	¹³ C/ ¹² C [‰] vs V-PDB	¹⁵ N/ ¹⁴ N [‰] vs AIR	³⁴ S/ ³² S [‰] vs V-CDT	Pb ratios			⁸⁷ Sr/ ⁸⁶ Sr
								206/207	208/207	208/206	
Scotland	AB	15/05/2014	25	-102.7	-25.04	6.33	8.99				0.709976
Scotland	AB	15/05/2014	22	-104.4	-25.80	5.50	9.86				0.708913
Scotland	DD	20/05/2014	15	-103.0	-25.96	6.38	11.67	1.1449	2.4263	2.2193	0.708830
Scotland	IV	20/05/2014	14	-103.6	-24.55	5.36	6.71	1.1424	2.4244	2.2176	0.708815
Scotland	AB	20/05/2014	22	-98.7	-25.06	4.76	9.52				0.709459
Scotland	IV	13/05/2014	15	-103.5	-26.29	7.10	7.57	1.1410	2.4354	2.2277	0.709159
Scotland	EH	09/05/2014	25	-109.4	-25.98	6.38	6.18				0.708491
Scotland	KW	06/05/2014	24	-101.4	-26.15	6.70	11.90	1.1425	2.4274	2.2203	0.708366
Scotland	KY	07/05/2014	25	-106.2	-26.50	6.49	7.02				0.708906
Scotland	DD	06/05/2014	22	-106.2	-26.19	6.77	6.74				0.708717
Scotland	AB	06/05/2014	23	-102.7	-26.24	6.92	10.66	1.1441	2.4239	2.2171	0.708219
Scotland	KA	15/05/2014	16	-103.0	-24.65	7.95	5.90				0.709913
Scotland	DG	22/05/2014	24	-107.7	-26.20	7.28	8.68				0.708523
Scotland	PA	21/05/2014	32	-99.2	-26.04	8.14	5.44	1.1484	2.4313	2.2239	0.708124
Scotland	ML	21/05/2014	33	-105.0	-23.83	7.54	6.01				0.709475
Scotland	KA	19/05/2014	20	-102.1	-25.62	8.07	5.75				0.708554
Scotland	EH	08/05/2014	25	-107.3	-27.48	8.82	7.44				0.708436
Scotland	FK	22/05/2014	16	-102.9	-21.36	5.54	5.52				0.709206
Scotland	G6	15/05/2014	26	-100.6	-23.41	8.57	7.05				0.708842
Scotland	DG	08/05/2014	42	-105.3	-26.30	8.46	7.01				0.708674
Scotland	PH	08/05/2014	110	-106.9	-25.69	5.96	7.03				0.708712
Scotland	FK	14/05/2014	24	-100.5	-24.81	8.59	5.98				0.708864
Scotland	PH	08/05/2014	27	-106.7	-25.71	7.24	6.74				0.709057
Scotland	ML	08/05/2014	19	-104.1	-26.35	7.44	8.11	1.1400	2.4162	2.2101	0.708195
Scotland	PA	23/05/2014	23	-103.1	-24.75	6.47	6.14				0.707983
Scotland	TD	08/05/2014	24	-105.6	-25.71	6.82	7.22	1.1358	2.4109	2.2053	0.707934
Scotland	FK	08/05/2014	17	-106.1	-25.59	7.32	6.04	1.1445	2.4194	2.2130	0.708197
Scotland	DG	16/05/2014	33	-100.3	-24.15	8.24	6.32				0.708745
Scotland	G6	19/05/2014	15	-106.8	-25.65	6.60	4.70	1.1336	2.4149	2.2090	0.708066
Scotland	KW	03/06/2014	22	-102.1	-26.91	8.05	12.92				0.708874
Scotland	DD	03/06/2014	21	-109.2	-25.47	7.10	7.03				0.708674
Scotland	AB	03/06/2014	23	-105.6	-25.99	7.06	7.79				0.708442
Scotland	EH	11/06/2014	13	-107.9	-24.19	6.71	5.00				0.709218
Scotland	KY	04/06/2014	20	-103.9	-25.17	6.35	6.74				0.708355
Scotland	IV	04/06/2014	23	-106.4	-25.95	6.59	7.83	1.1434	2.4351	2.2274	0.708947
Scotland	KA	09/06/2014	26	-100.8	-24.96	8.95	6.57				0.708442
Scotland	G6	03/06/2014	14	-100.8	-23.65	6.76	5.17	1.1270	2.4154	2.2094	0.710016
Scotland	EH	09/06/2014	26	-99.3	-24.31	7.94	5.95				0.708541
Scotland	FK	03/06/2014	25	-102.0	-25.90	8.58	4.74				0.710017
Scotland	DD	03/06/2014	13	-103.8	-24.51	6.16	6.36				0.708720
Scotland	PA	19/06/2014	26	-99.8	-26.82	7.24	9.19				0.708549
Scotland	G7	25/06/2014	21	-97.9	-24.91	8.06	4.68	1.1392	2.4197	2.2133	0.709021
Scotland	DG	25/06/2014	15	-102.7	-25.30	7.64	7.20	1.1420	2.4314	2.2240	0.709302
Scotland	ML	25/06/2014	26	-106.1	-25.89	6.84	7.90	1.1367	2.4065	2.2012	0.706590
Scotland	TD	24/05/2014	13	-101.3	-22.71	6.17	7.05				0.709690
Scotland	KA	25/06/2014	23	-102.2	-25.41	8.08	7.58	1.1373	2.4211	2.2146	0.707407
Scotland	DD	24/06/2014	25	-100.0	-25.61	6.65	9.01	1.1272	2.4070	2.2017	0.709559
Scotland	AB	29/05/2014	25	-99.5	-26.10	7.27	9.54				0.709155
Scotland	IV	29/05/2014	30	-106.7	-25.79	6.90	8.43				0.708393
Scotland	IV	29/05/2014	25	-101.4	-25.66	8.03	7.24				0.708439
Scotland	IV	25/06/2014	19	-108.3	-25.56	6.27	6.70				0.708680
Scotland	EH	04/06/2014	26	-108.4	-25.90	6.57	6.46				0.708341
Scotland	PA	18/06/2014	27	-105.9	-26.04	5.80	6.13				0.709628
Scotland	PH	26/06/2014	61	-108.2	-26.49	7.10	9.58				0.710052
Scotland	TD	09/06/2014	14	-106.3	-24.69	6.31	6.35				0.709781
Scotland	KA	19/06/2014	14	-103.7	-26.09	7.22	5.56				0.708356
Scotland	DG	04/06/2014	12	-101.4	-25.28	7.44	6.60				0.708658
Scotland	EH	12/06/2014	35	-104.6	-24.09	7.48	6.15				0.709534
Scotland	ZE	27/05/2014	24	-98.7	-26.09	5.87	10.98	1.1404	2.4239	2.2171	0.707438
Scotland	ZE	24/06/2014	38	-95.8	-27.25	7.34	15.92				0.709293
Scotland	ZE	03/06/2014	32	-97.4	-27.00	7.19	14.07				0.709352
Scotland	ZE	03/06/2014	27	-97.3	-27.25	6.62	13.72	1.1328	2.4187	2.2124	0.708881
Scotland	ZE	10/06/2014	107	-100.9	-27.11	7.13	13.73	1.1138	2.4051	2.2000	0.708889

country	2 letter PC	slaughter date	age of cattle [month]	² H/ ¹ H [‰] vs V-SMOW	¹³ C/ ¹² C [‰] vs V-PDB	¹⁵ N/ ¹⁴ N [‰] vs AIR	³⁴ S/ ³² S [‰] vs V-CDT	Pb ratios			⁸⁷ Sr/ ⁸⁶ Sr
								206/207	208/207	208/206	
Scotland	IV	02/07/2014	15	-107.6	-25.89	6.85	8.82	1.1376	2.4121	2.2063	0.710229
Scotland	AB	03/07/2014	23	-108.7	-25.65	5.50	8.54	1.1484	2.4372	2.2293	0.708062
Scotland	AB	03/07/2014	27	-103.0	-25.32	5.65	7.95	1.1456	2.4337	2.2261	0.709076
Scotland	KY	02/07/2014	14	-107.2	-24.30	7.30	5.43	1.1425	2.4273	2.2202	0.708668
Scotland	KW	08/07/2014	25	-103.7	-27.71	8.33	12.79	1.1430	2.4317	2.2243	0.708942
Scotland	DD	02/07/2014	29	-105.4	-25.03	7.15	7.22	1.1508	2.4346	2.2269	0.708334
Scotland	EH	08/07/2014	14	-102.2	-22.55	7.36	5.88	1.1427	2.4342	2.2266	0.707841
Scotland	DD	01/07/2014	26	-104.5	-25.63	7.38	7.30	1.1402	2.4196	2.2132	0.708857
Scotland	G6	01/07/2014	25	-98.5	-23.67	8.43	6.50	1.1336	2.4105	2.2049	0.707945
Scotland	G6	04/07/2014	24	-98.8	-23.29	9.09	6.26	1.1314	2.4127	2.2069	0.708548
Scotland	EH	09/07/2014	26	-103.1	-25.88	8.02	5.87				0.707776
Scotland	FK	14/07/2014	25	-101.8	-24.39	6.74	5.38	1.1348	2.4286	2.2214	0.709374
Scotland	FK	21/07/2014	62	-105.0	-27.01	7.11	8.08	1.1369	2.4221	2.2155	0.708827
Scotland	TD	24/07/2014	14	-103.4	-24.60	6.48	6.02	1.1383	2.4188	2.2125	0.708806
Scotland	KA	23/07/2014	39	-106.1	-27.56	7.98	8.61	1.1329	2.4163	2.2030	0.708352
Scotland	PA	25/07/2014	28	-101.9	-25.86	6.10	6.14	1.1357	2.4192	2.2056	0.709380
Scotland	DG	25/07/2014	15	-100.1	-24.69	6.76	8.06	1.1378	2.4246	2.2178	0.708562
Scotland	EH	18/07/2014	12	-101.7	-24.19	8.85	5.70	1.1366	2.4123	2.2065	0.708565
Scotland	PH	21/07/2014	28	-103.7	-24.79	7.05	6.51	1.1394	2.4235	2.2168	0.708559
Scotland	KA	24/07/2014	30	-98.0	-21.14	7.64	8.43	1.1299	2.4117	2.2060	0.707841
Scotland	KY	25/07/2014	26	-99.0	-23.81	7.36	6.74				0.707994
Scotland	ZE	08/07/2014	27	-98.3	-27.33	7.33	14.32				0.708884
Scotland	ZE	22/07/2014	121	-101.0	-26.88	8.20	14.90	1.1328	2.4151	2.2091	0.708746
Scotland	ML	04/08/2014	35	-100.8	-24.61	8.89	6.80				0.708577
Scotland	PA	04/08/2014	52	-103.9	-26.19	5.45	6.55	1.1312	2.4044	2.1993	0.709718
Scotland	EH	06/08/2014	26	-105.6	-26.44	6.23	7.01				0.708345
Scotland	DG	08/08/2014	28	-102.2	-26.01	8.13	6.26	1.1385	2.4236	2.2169	0.709327
Scotland	KA	08/08/2014	16	-103.0	-26.00	9.52	6.94				0.708018
Scotland	AB	07/08/2014	14	-100.1	-24.97	7.72	8.91				0.709484
Scotland	IV	07/08/2014	18	-103.0	-24.91	5.95	6.78				0.709783
Scotland	AB	07/08/2014	27	-105.1	-26.01	5.32	7.96				0.707714
Scotland	DD	11/08/2014	19	-104.7	-27.49	5.78	9.67	1.1300	2.4171	2.2109	0.707954
Scotland	KW	05/08/2014	27	-98.7	-27.16	8.61	10.83	1.1463	2.4188	2.2125	0.710244
Scotland	KY	06/08/2014	29	-106.5	-27.46	8.64	5.82				0.708817
Scotland	IV	06/08/2014	15	-106.6	-25.84	5.03	6.41				0.709228
Scotland	td	08/08/2014	15	-102.9	-21.60	6.95	6.41				0.708686
Scotland	dd	08/08/2014	31	-105.4	-25.62	7.04	5.50				0.708349
Scotland	pa	21/08/2014	16	-100.4	-26.97	7.53	10.35	1.1255	2.3980	2.1935	0.709719
Scotland	dg	21/08/2014	27	-106.3	-25.74	7.86	7.41				0.708887
Scotland	DG	26/08/2014	23	-101.8	-27.38	7.61	9.16				0.708779
Scotland	KA	26/08/2014	29	-101.3	-27.35	7.58	8.95				0.708880
Scotland	TD	07/08/2014	15	-105.8	-25.97	8.32	5.52	1.1191	2.3926	2.1885	0.709220
Scotland	DD	01/09/2014	17	-102.5	-25.08	6.31	7.11	1.1323	2.4014	2.1965	0.708298
Scotland	IV	01/09/2014	24	-100.9	-26.76	8.24	7.27	1.1095	2.3821	2.1789	0.707557
Scotland	DD	05/09/2014	30	-103.8	-26.49	9.52	8.56	1.0916	2.3712	2.1690	0.709083
Scotland	KW	09/09/2014	27	-100.6	-26.82	8.89	10.32				0.709016
Scotland	KW	23/09/2014	28	-100.8	-27.40	7.48	11.29				0.709398
Scotland	AB	04/09/2014	20	-105.9	-26.73	6.31	7.75	1.1405	2.4106	2.2050	0.708176
Scotland	AB	04/09/2014	28	-97.6	-26.12	6.13	9.24	1.1063	2.3783	2.1754	0.708703
Scotland	IV	09/09/2014	21	-103.2	-25.56	6.86	6.84	1.1125	2.3934	2.1893	0.707945
Scotland	IV	09/09/2014	15	-106.5	-25.73	5.98	5.86	1.1361	2.4195	2.2131	0.709872
Scotland	PH	02/09/2014	33	-97.6	-24.08	7.07	6.85	1.1376	2.4137	2.2079	0.708422
Scotland	TD	02/09/2014	13	-104.1	-24.84	6.46	5.57				0.70839
Scotland	G6	22/09/2014	25	-99.6	-26.54	8.50	6.32	1.1124	2.3897	2.1858	0.708348
Scotland	EH	24/09/2014	28	-103.3	-27.12	9.59	5.31	1.0897	2.3648	2.1631	0.709061
Scotland	G6	15/09/2014	16	-103.4	-25.81	7.69	5.49	1.1071	2.3780	2.1752	0.708245
Scotland	fk	15/09/2014	28	-104.8	-26.57	7.53	7.57	1.1054	2.3821	2.1789	0.708252
Scotland	DD	15/09/2014	17	-101.5	-25.63	6.81	6.57	1.0934	2.3628	2.1612	0.70816
Scotland	PH	17/09/2014	125	-106.0	-25.71	6.37	7.69				0.708498
Scotland	ML	22/09/2014	26	-104.8	-25.57	8.68	6.76	1.1118	2.3981	2.1935	0.710003
Scotland	KW	25/09/2014	18	-99.2	-27.66	6.26	12.79				0.708407
Scotland	KA	26/09/2014	17	-99.1	-25.11	6.38	7.60	1.1167	2.3958	2.1914	0.707963
Scotland	ML	24/09/2014	29	-103.9	-27.25	7.64	7.40	1.1234	2.3993	2.1946	0.708933
Scotland	ML	07/10/2014	136	-108.2	-27.49	6.71	8.74				0.708121
Scotland	PA	02/10/2014	29	-100.6	-27.50	7.33	9.86				0.708573
Scotland	FK	02/10/2014	12	-106.1	-24.04	5.45	6.76				0.70858
Scotland	FK	14/10/2014	15	-105.3	-21.83	5.55	5.93	1.1379	2.4182	2.2119	0.708317
Scotland	G6	14/10/2014	21	-102.2	-25.64	7.42	6.81	1.1314	2.4037	2.1987	0.709426
Scotland	IV	03/10/2014	17	-105.3	-25.95	5.95	7.73				0.709311
Scotland	IV	03/10/2014	29	-108.0	-26.72	6.05	8.00				0.7080028

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								206/207	208/207	208/206	
Scotland	AB	03/10/2014	24	-103.2	-26.59	5.48	10.20				0.709266
Scotland	KY	06/10/2014	29	-99.9	-26.24	6.77	6.65	1.1234	2.3761	2.1735	0.707878
Scotland	DD	06/10/2014	18	-106.5	-25.41	6.62	7.13				0.708776
Scotland	DD	06/10/2014	23	-101.3	-25.06	6.91	6.77	1.1236	2.3994	2.1948	0.708702
Scotland	KW	21/10/2014	30	-96.1	-27.84	8.05	12.43				0.708282
Scotland	DD	23/10/2014	26	-102.3	-26.81	7.72	7.35				0.708287
Scotland	DG	03/10/2014	31	-99.1	-25.47	6.84	7.90				0.708794
Scotland	PA	09/10/2014	22	-97.5	-27.12	8.85	9.17	1.1403	2.4138	2.2079	0.708705
Scotland	EH	14/10/2014	16	-105.0	-23.71	7.93	6.99	1.1379	2.4162	2.2101	0.709313
Scotland	TD	16/10/2014	18	-104.0	-26.63	6.90	8.07				0.709218
Scotland	HS	15/10/2014	66	-99.9	-26.71	7.56	14.61	1.1410	2.4276	2.2205	0.708902
Scotland	HS	15/10/2014	54	-101.0	-26.50	6.07	13.61				0.709617
Scotland	HS	22/10/2014	27	-103.2	-27.17	7.20	15.85				0.709385
Scotland	HS	22/10/2014	16	-100.1	-27.08	7.39	14.23				0.709641
Scotland	DG	05/11/2014	14	-101.7	-25.86	5.16	7.84				0.709888
Scotland	DG	31/10/2014	18	-99.7	-25.96	7.07	8.87				0.709612
Scotland	G7	31/10/2014	17	-107.0	-26.11	6.74	5.84	1.1514	2.4283	2.2211	0.70937
Scotland	PH	04/11/2014	68	-110.4	-26.29	6.64	7.49	1.1052	2.3816	2.1785	0.709307
Scotland	PH	04/11/2014	24	-104.3	-25.42	7.19	6.11				0.708634
Scotland	KA	04/11/2014	21	-104.5	-27.34	8.18	7.12				0.707011
Scotland	ML	19/11/2014	28	-102.9	-26.42	7.78	6.76	1.1175	2.3910	2.1870	0.709027
Scotland	EH	19/11/2014	27	-102.1	-24.71	6.57	6.38				0.708535
Scotland	KA	19/11/2014	19	-95.7	-25.06	6.62	7.44	1.1115	2.4008	2.1961	0.707945
Scotland	DG	20/11/2014	55	-106.1	-27.98	7.81	10.70				0.707987
Scotland	IV	30/10/2014	20	-105.7	-26.26	6.76	6.98	1.1067	2.3854	2.1819	0.70898
Scotland	IV	30/10/2014	31	-107.5	-25.39	8.39	8.44				0.709679
Scotland	AB	04/11/2014	18	-104.4	-26.16	6.01	8.18	1.1038	2.3881	2.1777	0.709036
Scotland	AB	05/11/2014	17	-109.4	-26.56	6.09	7.98	1.1226	2.4107	2.2051	0.709465
Scotland	AB	03/11/2014	28	-101.2	-26.59	7.51	8.82	1.0924	2.3654	2.1636	0.708705
Scotland	DD	05/11/2014	16	-105.0	-26.74	5.98	7.83				0.708316
Scotland	DD	05/11/2014	18	-101.9	-25.12	6.80	6.77	1.1113	2.3936	2.1894	0.708553
Scotland	EH	10/11/2014	28	-103.6	-26.26	8.60	6.74	1.1053	2.3898	2.1860	0.70867
Scotland	KY	19/11/2014	29	-100.2	-25.64	6.05	7.54	1.0939	2.3756	2.1730	0.707935
Scotland	PH	04/11/2014	20	-98.2	-26.01	6.84	7.63	1.1289	2.4255	2.2186	0.707316
Scotland	G7	04/11/2014	25	-99.6	-23.24	8.69	6.18	1.1014	2.3792	2.1763	0.706452
Scotland	DG	04/11/2014	28	-105.0	-27.29	8.23	8.56	1.1271	2.3987	2.1941	0.709037
Scotland	TD	17/11/2014	19	-101.0	-25.39	7.86	6.16	1.1078	2.3893	2.1855	0.709566
Scotland	DD	17/11/2014	13	-101.2	-24.30	7.72	6.37	1.0885	2.3640	2.1624	0.708714
Scotland	HS	27/11/2014	30	-98.9	-26.54	7.09	13.65	1.0921	2.3692	2.1671	0.709889
Scotland	HS	25/11/2014	140	-93.0	-25.02	6.75	12.23	1.1048	2.3795	2.1765	0.709595
Scotland	HS	12/11/2014	30	-97.1	-25.13	5.66	13.16	1.1256	2.3912	2.1873	0.709277
Scotland	EH	03/12/2014	16	-101.0	-25.28	6.82	7.45				0.707706
Scotland	DD	03/12/2014	20	-101.7	-25.05	6.37	9.28				0.708654
Scotland	DD	03/12/2014	19	-104.7	-26.75	5.19	8.15				0.707771
Scotland	KY	09/12/2014	18	-103.8	-25.53	6.05	6.69				0.708222
Scotland	FK	04/12/2014	26	-100.4	-26.75	8.11	6.79	1.0855	2.3624	2.1609	0.708691
Scotland	TD	04/12/2014	19	-103.2	-26.66	6.51	7.40				0.708569
Scotland	EH	04/12/2014	19	-106.6	-26.44	6.51	7.70	1.1379	2.4129	2.2071	0.708361
Scotland	ML	04/12/2014	13	-100.8	-26.16	6.51	3.46	1.0882	2.3583	2.1572	0.708265
Scotland	TD	08/12/2014	27	-104.4	-26.16	6.51	7.72				0.707641
Scotland	KW	10/12/2014	21	-98.4	-27.32	7.57	13.27	1.1242	2.4010	2.1962	0.708429
Scotland	KA	26/11/2014	23	-102.6	-23.83	7.32	6.04	1.1226	2.3997	2.1950	0.708931
Scotland	PA	27/11/2014	29	-102.6	-27.33	8.39	9.93				0.70835
Scotland	DG	10/12/2014	35	-101.1	-26.12	8.23	7.66				0.708861
Scotland	AB	01/12/2014	18	-104.3	-26.27	6.04	7.97				0.706979
Scotland	AB	01/12/2014	19	-105.3	-26.61	5.03	8.64				0.709258
Scotland	AB	08/12/2014	20	-106.6	-26.26	4.37	8.08				0.708846
Scotland	IV	12/12/2014	19	-107.9	-26.67	6.37	8.76				0.707873
Scotland	FK	08/01/2015	28	-100.6	-25.13	8.09	5.55	1.0936	2.3654	2.1637	0.708392
Scotland	DG	08/01/2015	21	-99.0	-26.34	7.46	7.17	1.0647	2.3354	2.1362	0.708698
Scotland	DG	08/01/2015	40	-101.6	-25.37	7.84	7.15	1.0912	2.3675	2.1656	0.707604
Scotland	PH	08/01/2015	15	-101.8	-25.22	6.30	5.36				0.707646
Scotland	G6	09/01/2015	26	-104.5	-26.40	9.15	6.11	1.0855	2.3621	2.1607	0.708224
Scotland	KA	09/01/2015	20	-96.8	-25.34	7.34	7.10				0.707656
Scotland	IV	08/01/2015	23	-103.1	-26.30	6.62	5.94	1.1123	2.3740	2.1715	0.709992
Scotland	IV	08/01/2015	18	-105.1	-26.08	6.84	7.72				0.708894
Scotland	IV	08/01/2015	21	-106.9	-25.30	6.48	6.65				0.708012
Scotland	AB	05/01/2015	20	-102.8	-26.27	6.71	9.21	1.0831	2.3634	2.1618	0.708974
Scotland	DD	07/01/2015	16	-103.4	-26.67	5.16	8.15				0.707930
Scotland	IV	09/01/2015	25	-98.2	-25.20	7.57	7.40				0.708878
Scotland	DD	14/01/2015	21	-104.8	-26.64	6.33	9.19				0.708201
Scotland	KY	16/01/2015	14	-94.3	-26.26	7.18	5.01				0.708120

country	2 letter PC	slaughter date	age of cattle [month]	² H/ ¹ H [‰] vs V-SMOW	¹³ C/ ¹² C [‰] vs V-PDB	¹⁵ N/ ¹⁴ N [‰] vs AIR	³⁴ S/ ³² S [‰] vs V-CDT	Pb ratios			⁸⁷ Sr/ ⁸⁶ Sr
								206/207	208/207	208/206	
Scotland	DD	20/01/2015	25	-100.4	-25.33	7.02	6.51	1.1203	2.3950	2.1907	0.708213
Scotland	PA	05/01/2015	29	-94.8	-22.16	8.04	5.78				0.708120
Scotland	DG	05/01/2015	29	-95.3	-26.25	7.38	7.57				0.707226
Scotland	TD	06/01/2015	19	-94.9	-26.08	7.18	7.91	1.1183	2.4020	2.1904	0.708540
Scotland	G6	08/01/2015	12	-100.0	-25.60	7.33	6.38	1.1021	2.3737	2.1712	0.708738
Scotland	TD	08/01/2015	17	-106.7	-25.42	6.86	6.04	1.0929	2.3750	2.1724	0.708437
Scotland	KW	21/01/2015	23	-91.4	-27.04	9.72	10.29	1.0846	2.3539	2.1167	0.708449
Scotland	PH	02/02/2015	35	-108.1	-26.89	5.66	6.95	1.1409	2.4208	2.2143	0.708352
Scotland	DG	02/02/2015	22	-100.8	-25.81	7.07	7.45	1.1144	2.3877	2.1840	0.708255
Scotland	DG	02/02/2015	22	-102.5	-26.42	7.27	7.43	1.1014	2.3664	2.1280	0.708797
Scotland	KA	03/02/2015	24	-104.6	-25.84	8.18	6.08				0.707982
Scotland	TD	10/02/2015	34	-107.5	-26.61	7.84	7.33				0.708691
Scotland	EH	11/02/2015	13	-103.4	-24.89	5.19	6.07	1.1193	2.3977	2.1932	0.709179
Scotland	IV	09/02/2015	27	-108.6	-26.67	6.48	7.65				0.709258
Scotland	IV	09/02/2015	24	-110.8	-26.05	6.47	7.03				0.709043
Scotland	AB	16/02/2015	21	-105.8	-26.54	5.19	8.29	1.1185	2.3955	2.1912	0.708956
Scotland	AB	16/02/2015	29	-108.5	-26.87	5.04	10.05				0.707832
Scotland	AB	16/02/2015	22	-104.6	-26.27	5.13	8.14				0.709143
Scotland	EH	03/02/2015	15	-109.6	-24.50	6.61	7.83				0.709181
Scotland	PA	03/02/2015	22	-105.5	-25.99	6.50	6.19				0.708521
Scotland	TD	03/02/2015	33	-103.8	-25.87	7.14	7.60	1.1184	2.3913	2.1873	0.7088752
Scotland	PA	05/02/2015	22	-102.3	-26.04	6.91	5.97	1.1148	2.3909	2.1869	0.708265
Scotland	EH	05/02/2015	20	-102.2	-26.46	9.16	6.84	1.1289	2.3942	2.1899	0.708628
Scotland	DD	03/02/2015	20	-104.0	-26.02	7.02	6.55	1.1442	2.4154	2.2094	0.708660
Scotland	KW	03/02/2015	20	-97.4	-26.38	8.14	11.92				0.709115
Scotland	KW	03/02/2015	20	-98.5	-26.83	7.65	11.46				0.709712
Scotland	DD	03/02/2015	14	-103.0	-24.91	6.85	6.62				0.708616
Scotland	KY	11/02/2015	21	-104.1	-26.71	7.02	6.73				0.708865
Scotland	KY	11/02/2015	19	-102.6	-26.85	6.83	7.30				0.706687
Scotland	EH	03/03/2015	21	-100.4	-25.44	7.40	6.91	1.1250	2.3943	2.1901	0.707708
Scotland	PA	05/03/2015	29	-93.9	-26.63	9.78	9.57	1.1160	2.3859	2.1824	0.708683
Scotland	ML	05/03/2015	23	-99.8	-26.06	6.32	7.93				0.709066
Scotland	EH	05/03/2015	23	-102.7	-25.97	6.25	5.81	1.0822	2.3598	2.1585	0.708146
Scotland	KA	09/03/2015	30	-92.4	-23.54	7.80	6.81				0.708254
Scotland	PH	02/03/2015	29	-104.0	-25.92	6.80	6.33	1.0986	2.3783	2.1755	0.708768
Scotland	ML	04/03/2015	22	-98.9	-24.43	8.57	6.20				0.708415
Scotland	G6	05/03/2015	61	-102.9	-26.89	8.56	7.21	1.1111	2.3893	2.1788	0.708291
Scotland	FK	10/03/2015	19	-101.6	-25.85	6.76	6.71				0.708358
Scotland	AB	04/03/2015	23	-99.5	-26.16	5.64	9.80	1.1032	2.3793	2.1763	0.708689
Scotland	IV	04/03/2015	21	-100.0	-25.67	6.64	8.87	1.1303	2.4011	2.1963	0.708793
Scotland	DD	02/03/2015	21	-97.1	-25.88	6.82	8.92	1.1086	2.3864	2.1828	0.708696
Scotland	DD	02/03/2015	18	-98.6	-24.23	7.53	6.76	1.0933	2.3771	2.1743	0.708479
Scotland	KW	03/03/2015	21	-96.2	-26.99	9.17	10.34	1.1016	2.3731	2.1707	0.708600
Scotland	KY	04/03/2015	24	-99.1	-25.20	6.60	7.43	1.0902	2.3688	2.1301	0.707698
Scotland	KY	04/03/2015	14	-103.8	-25.90	6.62	5.43	1.1090	2.3787	2.1758	0.7080647

country	2 letter PC	slaughter date	age of cattle [month]	² H/ ¹ H [‰] vs V-SMOW	¹³ C/ ¹² C [‰] vs V-PDB	¹⁵ N/ ¹⁴ N [‰] vs AIR	³⁴ S/ ³² S [‰] vs V-CDT	Pb ratios			⁸⁷ Sr/ ⁸⁶ Sr
								206/207	208/207	208/206	
NI	AN	29/07/2014	15	-100.0	-18.92	6.79	6.21	1.1588	2.4503	2.2413	0.707424
NI	AR	17/07/2014	12	-99.0	-23.57	8.87	7.00				0.708299
NI	DO	16/07/2014	29	-101.0	-26.74	6.23	9.26	1.1495	2.4378	2.2226	0.708518
NI	FE	16/07/2014	170	-100.9	-23.90	7.06	9.60	1.1542	2.4410	2.2328	0.707825
NI	LD	16/07/2014	23	-96.9	-19.82	7.24	6.55				0.707886
NI	TY	17/07/2014	24	-100.2	-23.91	8.01	7.08				0.7083888
NI	AN	17/07/2014	26	-96.7	-26.04	8.42	7.58				0.706882
NI	AR	29/07/2014	67	-94.6	-22.57	7.50	6.65	1.1521	2.4426	2.2343	0.7086287
NI	DO	16/07/2014	25	-96.0	-26.85	5.92	9.94				0.708768
NI	FE	14/07/2014	21	-92.7	-22.38	7.01	7.62				0.708335
NI	LD	07/08/2014	23	-97.6	-21.54	8.49	8.38	1.1506	2.4364	2.2285	0.7079685
NI	TY	07/08/2014	172	-97.5	-25.50	8.71	8.47				0.7087631
NI	AN	01/10/2014	27	-99.3	-25.95	7.07	7.45	1.0739	2.3601	2.1588	0.707395
NI	AR	01/10/2014	17	-100.3	-25.65	7.06	8.03				0.707835
NI	DO	01/10/2014	29	-100.4	-26.66	7.61	7.33				0.707942
NI	FE	11/09/2014	40	-104.1	-27.03	6.59	7.29				0.708528
NI	TY	11/09/2014	28	-91.8	-19.94	8.75	7.42				0.708291
NI	AN	01/10/2014	29	-99.9	-26.41	8.38	8.53				0.707079
NI	AR	01/10/2014	29	-101.8	-26.83	7.53	5.67	1.0843	2.3636	2.1620	0.708417
NI	DO	08/10/2014	14	-102.1	-25.10	7.41	7.42	1.1300	2.3876	2.1840	0.708294
NI	FE	08/10/2014	23	-101.1	-26.57	7.41	9.10	1.1321	2.3986	2.1940	0.707445
NI	LD	01/10/2014	20	-105.8	-27.23	8.14	10.05				0.708034
NI	TY	01/10/2014	30	-95.5	-21.82	8.40	5.80	1.0819	2.3644	2.1627	0.708523
NI	AN	06/10/2014	67	-105.9	-24.86	7.96	6.51	1.1035	2.3786	2.1757	0.707551
NI	AR	06/11/2014	29	-102.9	-24.91	8.48	6.98	1.1014	2.3817	2.1719	0.708894
NI	DO	06/11/2014	28	-99.8	-26.29	9.12	6.97	1.0781	2.3639	2.1622	0.708407
NI	FE	06/11/2014	23	-100.3	-26.11	9.22	5.62				0.708344
NI	LD	18/11/2014	77	-108.4	-27.77	8.26	8.46	1.0932	2.3705	2.1683	0.708547
NI	TY	18/01/2014	10	-93.5	-24.70	7.44	6.62				0.708381
NI	AN	08/12/2014	26	-99.7	-24.77	7.11	8.64				0.708222
NI	AR	08/12/2014	29	-102.5	-22.75	8.34	6.82	1.0933	2.3728	2.1704	0.708240
NI	DO	10/02/2015	32	-96.6	-24.94	7.09	8.74	1.0787	2.3561	2.1187	0.708166
NI	FE	10/12/2014	29	-96.3	-25.98	8.09	6.87				0.707553
NI	LD	10/12/2014	27	-100.9	-24.58	6.65	8.33	1.1205	2.3907	2.1868	0.708285
NI	TY	05/01/2015	29	-96.6	-21.27	8.56	6.40	1.0980	2.3796	2.1766	0.708057
NI	AN	06/01/2015	44	-94.4	-24.07	8.15	7.52	1.0996	2.3790	2.1761	0.707969
NI	AR	05/01/2015	31	-103.1	-24.97	7.73	6.34	1.1016	2.3801	2.1771	0.708624
NI	DO	06/02/2015	11	-92.4	-17.10	6.78	4.78				0.708569
NI	FE	09/02/2015	21	-96.2	-25.57	7.89	6.63	1.0839	2.3694	2.1673	0.707605
NI	LD	03/02/2015	30	-101.0	-20.53	7.16	6.70				0.708215
NI	TY	03/02/2015	27	-99.4	-23.74	7.46	6.48	1.1269	2.4069	2.2016	0.708477
NI	AN	06/02/2015	27	-97.0	-24.31	8.11	7.11				0.706770
NI	AR	06/02/2015	10	-94.7	-18.13	5.96	6.16				0.708305
NI	DO	10/02/2015	31	-100.1	-24.65	5.96	8.33	1.1144	2.3950	2.1907	0.708415
NI	FE	05/03/2015	29	-94.5	-21.00	7.32	7.25				0.707905
NI	LD	05/03/2015	21	-101.8	-23.10	8.51	8.16	1.0959	2.3688	2.1668	0.707800
NI	TY	05/03/2015	14	-95.8	-18.22	5.84	6.40	1.1034	2.3858	2.1823	0.708504
NI	AN	23/03/2015	34	-100.3	-23.14	7.45	7.58				0.708006
NI	AR	23/03/2015	131	-105.0	-27.04	8.09	6.71				0.708708