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Appendix 1 Number of records (N), mean inbreeding coefficient and standard deviation (SD) of Large White (LW) and Landrace (LR) sows sorted across year of birth

Year of birth	LW sows			LR sows		
	N	Mean	SD	N	Mean	SD
1994	323	0	0	167	0	0
1995	388	0.03	0.6	161	0.15	1.4
1996	286	0.35	1.7	151	0.10	1.1
1997	236	1.21	2.8	147	0.80	1.9
1998	262	2.04	2.8	143	0.80	1.8
1999	296	2.84	2.8	167	1.11	2.3
2000	295	3.39	2.9	203	1.77	3.0
2001	279	3.42	2.9	211	1.40	2.5
2002	279	4.53	3.8	344	1.40	1.9
2003	80	5.74	3.5	86	2.70	3.9

Appendix 2 Number of records (N), mean inbreeding coefficient and standard deviation (SD) of Large White (LW) and Landrace (LR) litters sorted across year of birth.

Year of birth	LW litters			LR litters		
	N	Mean F	SD	N	Mean F	SD
1995	129	0.2	1.6	76	0.8	3.0
1996	337	0.8	2.9	226	0.2	1.3
1997	446	1.4	3.1	325	1.1	2.8
1998	460	2.2	3.1	353	1.2	3.1
1999	427	3.0	3.4	337	1.3	2.7
2000	421	3.7	3.3	373	2.1	3.3
2001	400	3.9	3.3	328	2.0	3.3
2002	360	4.3	3.7	311	1.7	2.3
2003	329	5.0	3.2	299	2.2	2.7

Appendix 3 Number of sows and litters in different inbreeding coefficient (F) groups at the nucleus and multiplier herds for the Large White breed

Group	Level of F	Large White sows		
		Nucleus		Multiplier Sow F Class
		Sow F Class	Litter F Class	
1	0 to 3 %	972	1,915	1,886
2	3 to 6 %	163	823	451
3	6 to 9 %	84	379	231
4	9 to 12 %	14	71	46
5	12 to 15 %	13	89	31
6	15 to 18 %	2	22	7
7	18 to 21 %	.	3	3
8	21 to 24 %	.	1	.
9	24 to 27 %	.	5	

Appendix 4 Number of sows and litters in different inbreeding coefficient (F) groups at the nucleus and multiplier herds for the Landrace breed

Group	Level of F	Landrace sows		
		Nucleus		Multiplier Sow F Class
		Sow F Class	Litter F Class	
1	0 to 3 %	869	2,139	1,529
2	3 to 6 %	62	264	129
3	6 to 9 %	29	140	63
4	9 to 12 %	2	12	6
5	12 to 15 %	3	62	23
6	15 to 18 %	.	6	2
7	18 to 21 %	.	.	.
8	21 to 24 %	.	.	.
9	24 to 27 %	.	5	.

Appendix 5 Standard deviations of Dam estimated breeding values(EBVs)

EBVs	Dam Breed	
	Large White	Landrace
NBA	0.70	0.53
AvBW	0.09	0.08
Av21dW	0.17	0.17
NWea	0.33	0.07

Appendix 6 Mean, standard deviation, minimums and maximum values of NBA EBVs at different groups from Piggeries ‘A’ and ‘B’ for the Large White breed. Number of records (N), mean reproductive performance of each group, and standard error (se)

	Groups	Piggery ‘B’ Large White									
		1	2	3	4	5	6	7	8	9	10
Dams’ NBA EBV	Mean	-0.97	-0.51	-0.26	-0.08	0.09	0.28	0.45	0.7	1	1.41
	SD	0.26	0.09	0.07	0.04	0.06	0.05	0.07	0.08	0.09	0.28
	Min	-1.91	-0.68	-0.36	-0.16	0	0.18	0.36	0.58	0.86	1.14
	Max	-0.69	-0.36	-0.16	0	0.18	0.35	0.58	0.86	1.13	2.38
F1 NBA	N	719	657	771	835	830	675	509	574	611	573
	Mean	10.46	11.31	10.96	11.06	11.08	11.52	11.37	11.09	11.47	11.63
	se	0.11	0.12	0.11	0.11	0.11	0.12	0.13	0.13	0.13	0.13
F1 Nwea	N	719	657	771	835	830	675	509	574	611	573
	Mean	9.58	9.47	9.58	9.58	9.58	9.65	9.51	9.43	9.51	9.47
	se	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07
F1 AvBW	N	62	35	61	51	55	61	52	71	77	80
	Mean	1.58	1.60	1.56	1.59	1.62	1.53	1.57	1.57	1.59	1.47
	se	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
F1 AvWW	N	49	31	47	45	38	53	41	54	60	67
	Mean	7.44	7.14	6.97	7.07	6.96	6.93	7.07	7.04	7.14	6.84
	se	0.14	0.17	0.15	0.15	0.15	0.15	0.16	0.14	0.14	0.14
Piggery ‘A’ Large White											
Dams’ NBA EBV	Mean	-0.93	-0.53	-0.27	-0.1	0.06	0.24	0.44	0.72	1.01	1.31
	SD	0.16	0.11	0.06	0.05	0.05	0.05	0.05	0.09	0.1	0.11
	Min	-1.3	-0.66	-0.36	-0.15	0.01	0.18	0.36	0.61	0.86	1.15
	Max	-0.71	-0.37	-0.16	0	0.17	0.35	0.58	0.84	1.14	1.72
F1 NBA	N	42	46	74	35	85	92	123	53	81	70
	Mean	9.78	10.25	10.58	11.24	11.25	10.86	11.35	11.62	11.38	11.10
	se	0.47	0.45	0.38	0.51	0.36	0.34	0.30	0.43	0.36	0.39
F1 Nwea	N	42	46	74	35	85	92	123	53	81	70
	Mean	9.03	9.04	9.26	10.03	9.41	9.43	9.65	9.45	9.47	9.68
	se	0.33	0.31	0.26	0.36	0.25	0.23	0.21	0.30	0.25	0.27
F1 AvBW	N	42	45	74	35	85	90	122	53	80	69
	Mean	1.45	1.55	1.58	1.54	1.55	1.56	1.58	1.54	1.49	1.49
	se	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.04	0.03	0.04
F1 AvWW	N	38	43	70	33	76	85	116	51	77	66
	Mean	6.15	6.22	6.14	6.22	6.39	6.38	6.18	6.30	6.28	6.14
	se	0.17	0.16	0.13	0.18	0.13	0.12	0.11	0.15	0.12	0.14

Appendix 7 Mean, standard deviation, minimums and maximum values of NBA EBVs at different groups from Piggeries ‘A’ and ‘B’ for the Landrace breed. Number of records (N), mean reproductive performance of each group, and standard error (se)

	Groups	Piggery ‘B’ Landrace									
		1	2	3	4	5	6	7	8	9	10
Dams’ NBA EBV	Mean	-0.79	-0.41	-0.24	-0.11	0	0.15	0.28	0.44	0.66	1.05
	SD	0.21	0.07	0.04	0.04	0.04	0.03	0.06	0.05	0.07	0.28
	Min	-1.3	-0.53	-0.3	-0.16	-0.05	0.09	0.2	0.38	0.54	0.77
	Max	-0.54	-0.31	-0.17	-0.05	0.08	0.2	0.37	0.53	0.76	1.82
F1 NBA	N	419	232	239	308	322	345	322	344	334	184
	Mean	10.93	11.06	11.12	11.12	11.26	10.93	11.36	11.37	11.98	11.48
	se	0.15	0.20	0.19	0.17	0.17	0.16	0.17	0.16	0.16	0.22
F1 Nwea	N	419	232	239	308	322	345	322	344	334	184
	Mean	9.48	9.45	9.52	9.36	9.36	9.61	9.51	9.57	9.43	9.65
	se	0.08	0.11	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.12
F1 AvBW	N	53	40	38	36	21	47	46	39	52	19
	Mean	1.53	1.59	1.50	1.51	1.61	1.62	1.56	1.53	1.51	1.48
	se	0.04	0.05	0.05	0.05	0.06	0.04	0.04	0.05	0.04	0.06
F1 AvWW	N	44	35	33	30	14	40	39	31	39	14
	Mean	7.08	7.06	7.11	7.15	7.17	6.92	7.33	7.14	6.89	7.31
	se	0.15	0.17	0.17	0.18	0.24	0.15	0.16	0.17	0.16	0.24
Piggery ‘A’ Landrace											
Dams’ NBA EBV	Mean	-0.73	-0.37	-0.25	-0.12	-0.01	0.14	0.26	0.45	0.64	0.98
	SD	0.13	0.05	0.03	0.03	0.03	0.03	0.05	0.03	0.06	0.16
	Min	-1.01	-0.49	-0.3	-0.17	-0.05	0.09	0.21	0.39	0.54	0.77
	Max	-0.59	-0.31	-0.17	-0.06	0.05	0.19	0.35	0.52	0.72	1.45
F1 NBA	N	19	56	28	28	43	22	39	30	23	25
	Mean	11.19	10.69	11.88	10.10	10.31	10.26	10.67	11.37	10.48	11.14
	se	0.66	0.42	0.57	0.57	0.46	0.63	0.50	0.55	0.63	0.61
F1 Nwea	N	19	56	28	28	43	22	39	30	23	25
	Mean	8.92	9.42	9.30	9.31	9.07	8.86	9.43	8.81	8.61	9.52
	se	0.47	0.30	0.40	0.40	0.32	0.44	0.35	0.38	0.44	0.42
F1 AvBW	N	19	55	28	28	43	22	39	30	23	25
	Mean	1.46	1.58	1.51	1.56	1.51	1.60	1.49	1.44	1.61	1.51
	se	0.06	0.04	0.05	0.05	0.04	0.06	0.05	0.05	0.06	0.06
F1 AvWW	N	19	54	20	25	37	19	38	28	22	24
	Mean	6.26	6.29	6.25	5.99	6.26	6.12	6.47	6.20	6.20	6.55
	se	0.23	0.15	0.23	0.20	0.17	0.23	0.17	0.19	0.22	0.21