



**Canadian Centre
for Swine Improvement Inc.**

*Canadian Swine Improvement Program:
Number of litters and pigs tested in 2004*

Region	Breed	Number of herds	Number of litters tested	Number of pigs tested
Atlantic	Yorkshire	4	384	1458
	Landrace	7	138	601
	Duroc	5	108	551
	Others	1	1	5
	All	7	631	2615
Québec	Yorkshire	42	2799	15291
	Landrace	34	1821	10142
	Duroc	29	1131	5987
	Others	2	49	373
	All	47	5800	31793
Ontario	Yorkshire	24	1904	7415
	Landrace	20	1485	5794
	Duroc	20	576	2507
	Others	5	45	147
	All	26	4010	15863
West	Yorkshire	20	3307	14326
	Landrace	21	2870	13108
	Duroc	17	804	4070
	Others	2	254	865
	All	23	7235	32369
Total	Yorkshire	90	8394	38490
	Landrace	82	6314	29645
	Duroc	71	2619	13115
	Others	10	349	1390
	All	103	17676	82640

*Canadian Swine Improvement Program:
Genetic trends 2003-2004*

Yorkshire

Trait	2003		2004		change
	#pigs	EBV average	#pigs	EBV average	
Sire Line Index	41764	96	38480	105	9 pts
Dam Line Index	41756	94	38480	107	14 pts
Lean Yield	41764	-0.04	38480	0.04	0.08 %
Loin Eye Area	41764	-0.1	38480	0.1	0.2 sq cm
Age	41764	0.64	38480	-0.75	-1.4 days
Feed Conversion	41764	0.009	38480	-0.01	-0.019 kg/kg
Backfat	41764	0.05	38480	-0.06	-0.1 mm
Lean Depth	41764	-0.07	38480	0.07	0.1 mm
Number Born	41766	-0.184	38480	0.233	0.42 pigs
Sire Line Index	41756	-2	38480	2	4 \$
Dam Line Index	41756	-3	38480	4	7 \$

Landrace

Trait	2003		2004		change
	#pigs	EBV average	#pigs	EBV average	
Sire Line Index	29860	97	29655	103	6 pts
Dam Line Index	29852	96	29644	106	10 pts
Lean Yield	29860	-0.04	29655	0.04	0.08 %
Loin Eye Area	29860	-0.1	29655	0.1	0.2 sq cm
Age	29860	0.44	29655	-0.54	-1 days
Feed Conversion	29860	0.007	29655	-0.007	-0.014 kg/kg
Backfat	29860	0.07	29655	-0.07	-0.1 mm
Lean Depth	29860	-0.07	29655	0.12	0.2 mm
Number Born	29861	-0.102	29644	0.146	0.25 pigs
Sire Line Index	29852	-1	29644	2	3 \$
Dam Line Index	29852	-2	29644	3	5 \$

Duroc

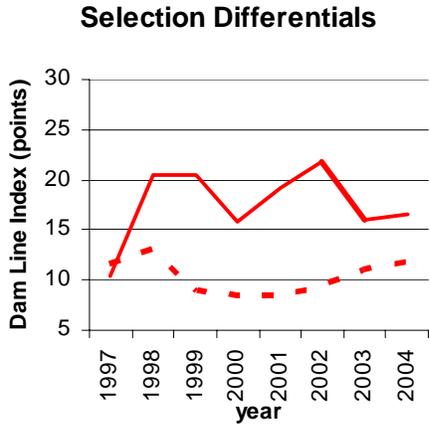
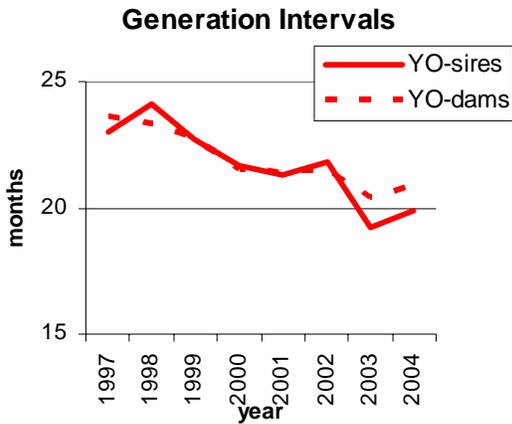
Trait	2003		2004		change
	#pigs	EBV average	#pigs	EBV average	
Sire Line Index	14445	94	13312	108	14 pts
Dam Line Index	14445	96	13283	106	11 pts
Lean Yield	14445	-0.11	13312	0.16	0.27 %
Loin Eye Area	14445	-0.2	13312	0.3	0.5 sq cm
Age	14445	0.7	13312	-0.9	-1.6 days
Feed Conversion	14445	0.012	13312	-0.015	-0.027 kg/kg
Backfat	14445	0.2	13312	-0.3	-0.5 mm
Lean Depth	14445	-0.1	13312	0.2	0.3 mm
Number Born	14445	0.014	13283	0.026	0.01 pigs
Sire Line Index	14445	-4	13283	5	9 \$
Dam Line Index	14445	-1	13283	2	3 \$

Commercial Value of Genetic Improvement in Canada from 2003 to 2004

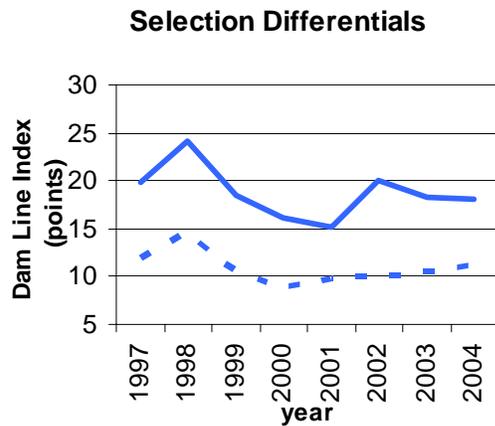
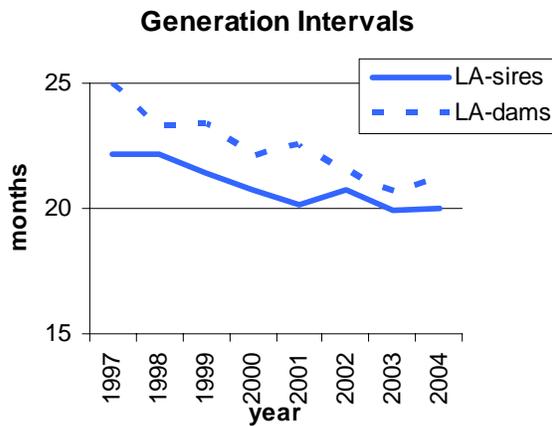
Change in Commercial Sows (F1s) and Hogs due to genetic improvement in Canada from 2003 to 2004					
Trait	Sire Line Duroc	Dam Line			Market Hogs
		Yorkshire	Landrace	F1s	
Sire Line Index	14				
Dam Line Index		14	10	12	
Lean Yield	0.27	0.08	0.08	0.08	0.17 %
Loin Eye Area	0.5	0.2	0.2	0.2	0.4 sq cm
Age	-1.6	-1.4	-1	-1.2	-1.4 days
Feed Conversion	-0.027	-0.019	-0.014	-0.016	-0.021 kg/kg
Backfat	-0.5	-0.1	-0.1	-0.1	-0.3 mm
Lean Depth	0.3	0.1	0.2	0.2	0.2 mm
Number Born		0.42	0.25	0.33 pigs	
Sire Line Index	\$ 9				
Dam Line Index		\$ 7	\$ 5	\$ 12	

*Canadian Swine Improvement Program:
Generation intervals and selection differentials*

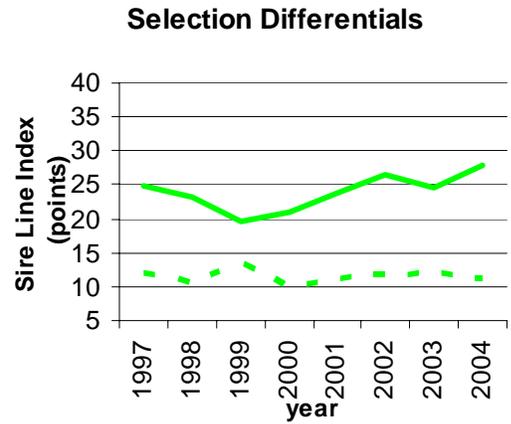
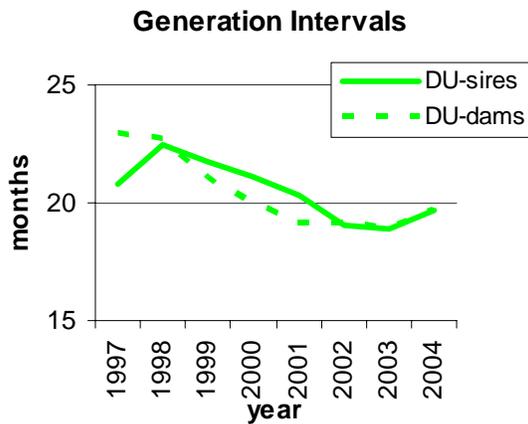
YORKSHIRE



LANDRACE

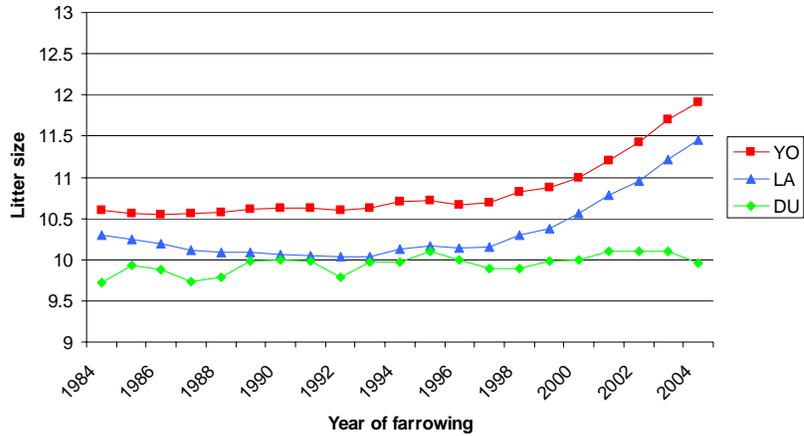


DUROC

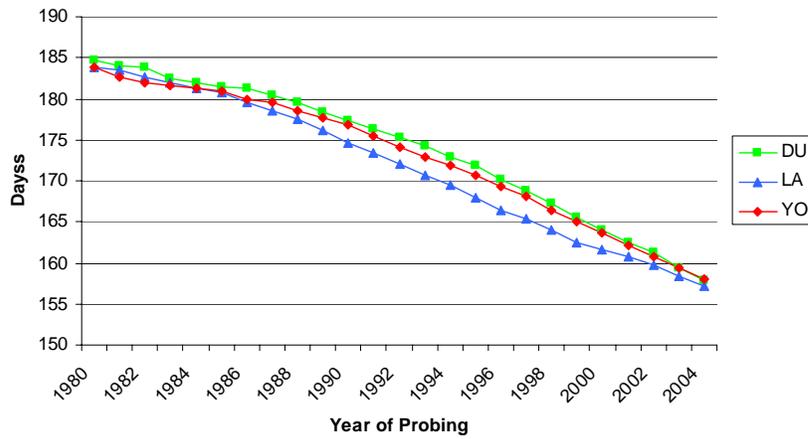


Canadian Swine Improvement Program: Genetic trends 1980-2004

Genetic Trends for Litter Size



Genetic Trends for Age



Genetic Trends for Fat

