

Inbreeding in Dutch cattle

For 10 Dutch cattle breeds, the average inbreeding per year of birth is given in graph 1. The selected breeds are Holstein Friesian, Blonde d'Aquitaine, Blaarkop, MRY, Limousine, Dutch Friesian, Jersey, Belgian Blue, Brandrood, Verbeterd Roodbont and Fleckvieh. Holstein Friesian include black & white and red & white animals.

The selected breeds had a minimum of 200 animals in 2019.

Note that the level of inbreeding depends on the amount of pedigree which is available for animals in the population. For the first years of birth there is limited information available on ancestry of many animals.

The average inbreeding per year of birth per breed can also be viewed in figure 1.

Graph 1. Average inbreeding per year of birth for Dutch cattle breeds.

Birthyear	Holstein Friesian	Blonde d'Aquitaine	Blaarkop	MRY	Limousine	Dutch Friesian	Jersey	Belgian Blue	Brandrood	Verbeterd Roodbont	Fleckvieh
1990	2.84	0.34	2.96	2.04	0.23	3.04	0.97	1.10		0.38	
1991	3.10	0.37	3.55	2.14	0.33	3.56	1.50	1.03		0.00	
1992	3.26	0.44	3.38	2.16	0.33	3.62	0.82	1.30		0.00	
1993	3.25	0.60	3.13	2.31	0.41	3.79	0.98	1.65		0.30	
1994	3.15	0.60	3.33	2.57	0.60	3.97	1.08	1.90		0.10	
1995	3.22	0.90	3.66	3.03	0.53	4.29	1.61	2.28		0.26	
1996	3.46	0.89	3.35	3.25	0.39	4.42	1.22	2.72		0.58	
1997	3.77	0.95	3.79	3.57	0.67	4.85	1.67	3.09		0.46	
1998	4.04	1.14	3.89	3.92	0.80	4.51	2.03	3.31		1.02	
1999	4.27	1.11	4.15	3.87	0.68	4.55	2.61	3.50		0.85	
2000	4.43	1.13	4.56	3.80	0.95	4.71	2.80	3.61		0.56	
2001	4.53	1.36	4.59	4.11	0.59	4.87	2.51	4.04		0.99	
2002	4.69	1.43	5.14	4.34	0.92	5.12	2.36	4.17		0.68	
2003	4.78	1.61	4.99	4.75	0.75	4.78	2.16	4.36		0.82	
2004	4.78	1.31	4.81	4.60	0.79	4.71	2.43	4.27		0.90	
2005	4.79	1.21	5.24	4.63	0.72	5.16	3.22	4.34		1.09	
2006	4.76	0.98	5.24	4.64	0.61	5.00	3.37	4.53		0.91	
2007	4.71	1.08	5.57	4.84	0.65	4.30	3.04	4.58		0.89	
2008	4.72	1.05	5.77	4.55	0.83	4.39	2.93	4.62	1.59	1.53	1.51
2009	4.70	1.14	7.49	4.64	1.13	3.89	3.15	4.73	1.16	1.32	1.68
2010	4.66	1.03	5.81	4.89	1.06	4.49	3.60	4.72	1.94	1.24	1.37
2011	4.60	1.19	5.60	4.98	0.83	4.52	4.10	4.88	0.98	1.67	1.28
2012	4.67	1.20	5.85	4.81	0.96	4.67	3.99	4.73	0.62	1.18	1.67
2013	4.82	1.00	5.79	5.20	0.85	4.81	4.24	4.90	1.00	1.67	1.86
2014	4.99	0.96	5.81	5.15	0.73	4.50	4.82	4.87	1.38	1.20	1.95
2015	5.22	0.97	5.29	4.93	0.67	4.01	4.74	4.79	1.91	1.52	2.13
2016	5.44	0.97	5.14	4.90	0.89	4.08	4.78	4.90	2.02	1.60	2.30
2017	5.65	1.00	5.09	4.88	0.87	3.84	4.77	4.80	2.01	1.52	2.22
2018	5.89	1.06	4.80	4.86	0.77	3.67	5.15	5.05	1.80	1.22	2.36
2019	6.07	0.99	4.90	5.00	0.84	4.02	5.36	4.96	2.33	2.20	2.33
2020	6.26	0.96	5.24	5.09	1.04	3.54	5.34	4.88	2.12	2.21	2.21

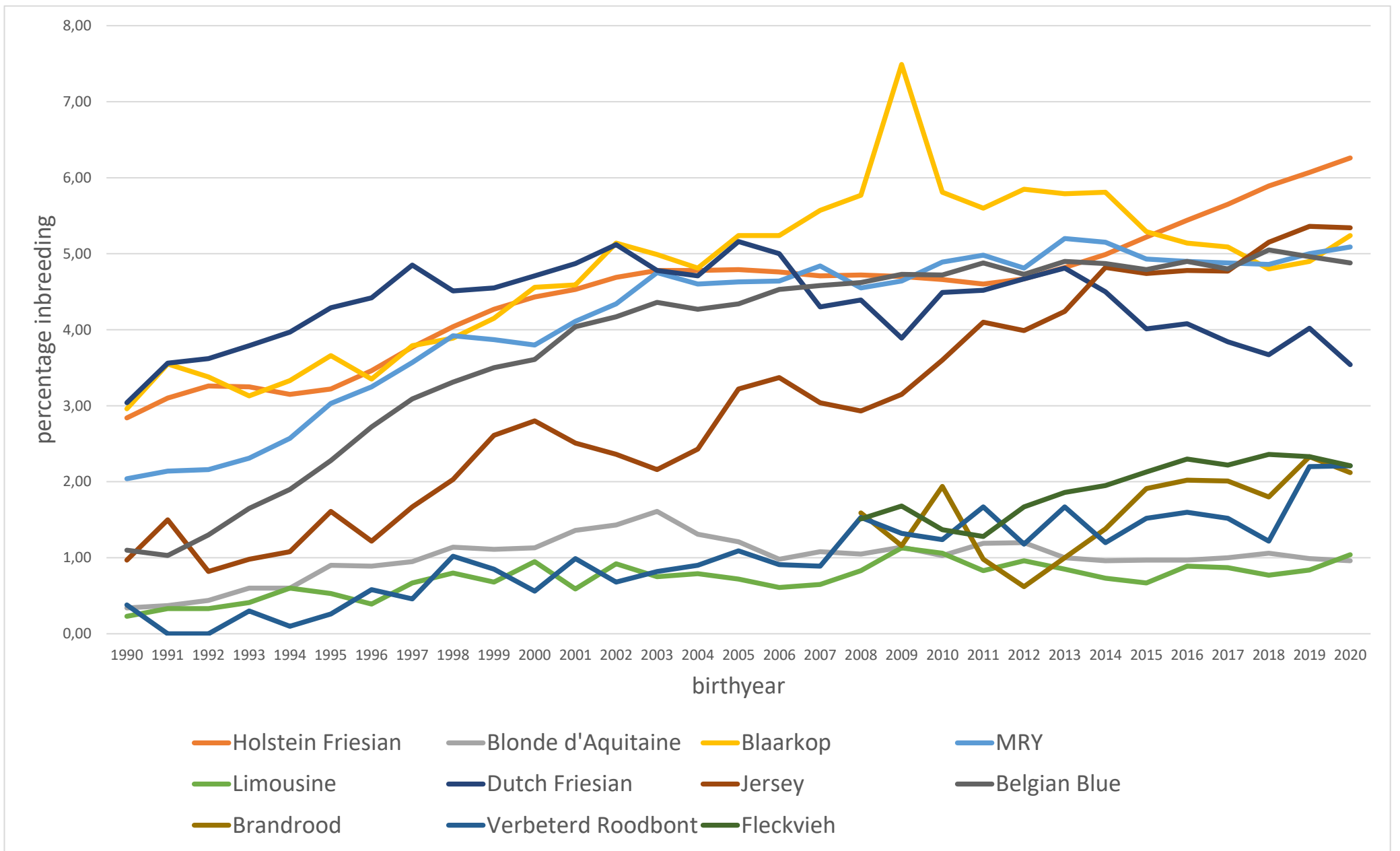


Figure 1. Average inbreeding per year of birth per breed.