

## Overall Breed Trends

## AVERAGE ESTIMATED BREEDING VALUES OVER YEARS (GENETIC TREND) - WEIGHTS

AVERAGE EBVs for CALVES								YEAR	AVERAGE EBVs for DAMS							
Birth Weight Avg	200-day Milk Avg	200-day Growth Avg	400-day Weight Avg	600-day Weight Avg	Number of Calves	Mature Cow Weight No	Mature Cow Weight Avg		Number of Dams	Birth Weight Avg	200-day Milk Avg	200-day Growth Avg	400-day Weight Avg	600-day Weight Avg	Mature Cow Weight No	Mature Cow Weight Avg
0.6	3.1	8.6	14.7	18.0	5139	5139	18.8	1984	4968	0.5	2.6	7.9	13.7	16.8	4967	17.9
0.6	3.0	8.7	14.8	18.1	6581	6581	19.0	1985	6375	0.5	2.6	7.9	13.7	16.7	6372	17.8
0.6	3.0	8.8	14.9	18.2	8404	8401	18.9	1986	8166	0.5	2.7	8.1	14.0	17.1	8162	18.2
0.6	3.0	8.9	15.0	18.2	8572	8567	18.8	1987	8350	0.5	2.8	8.3	14.2	17.4	8348	18.4
0.7	3.0	9.1	15.2	18.5	8746	8742	19.0	1988	8560	0.6	2.8	8.4	14.4	17.5	8557	18.4
0.7	3.0	9.3	15.3	18.7	8933	8932	19.2	1989	8717	0.6	2.9	8.6	14.5	17.6	8714	18.4
0.8	3.1	9.6	15.9	19.4	9897	9890	19.8	1990	9563	0.6	2.9	8.7	14.7	17.9	9562	18.7
0.8	3.1	9.8	16.0	19.6	10028	10024	20.1	1991	9787	0.6	2.9	8.8	14.8	18.1	9786	18.8
0.9	3.1	10.2	16.5	20.2	9442	9435	20.7	1992	9222	0.7	3.0	9.1	15.2	18.6	9221	19.3
0.9	3.0	10.4	16.9	20.8	8924	8923	21.4	1993	8707	0.7	3.1	9.4	15.6	19.2	8706	20.0
0.9	3.1	10.5	16.8	20.6	10984	10984	21.2	1994	10635	0.8	3.1	9.5	15.8	19.4	10633	20.0
1.0	2.9	10.6	17.0	20.9	11808	11807	21.6	1995	11527	0.8	3.1	9.7	16.0	19.6	11527	20.3
1.0	3.0	10.7	17.2	21.1	11822	11820	22.1	1996	11514	0.8	3.1	9.9	16.3	20.0	11507	20.6
1.0	2.9	11.2	17.8	21.9	12023	12001	22.9	1997	11725	0.9	3.1	10.2	16.7	20.5	11689	21.1
1.1	2.9	11.5	18.3	22.6	12378	12369	23.6	1998	12115	0.9	3.1	10.5	17.1	21.1	12081	21.8
1.1	2.9	11.6	18.4	22.7	12903	12901	23.6	1999	12597	1.0	3.1	10.7	17.3	21.3	12579	22.2
1.1	2.9	11.8	18.8	23.1	12605	12605	23.8	2000	12335	1.0	3.1	10.9	17.7	21.8	12314	22.7
1.2	2.9	12.2	19.3	23.8	12560	12560	24.8	2001	12296	1.1	3.1	11.4	18.2	22.5	12283	23.6
1.2	2.8	12.4	19.6	24.1	12674	12674	25.3	2002	12459	1.1	3.1	11.5	18.5	22.9	12458	24.0
1.2	2.7	12.3	19.5	24.0	12747	12747	25.1	2003	12507	1.1	3.1	11.7	18.7	23.1	12507	24.2
1.2	2.7	12.7	20.0	24.7	13352	13352	26.1	2004	13046	1.1	3.0	12.0	19.1	23.7	13046	24.9
1.2	2.7	12.9	20.4	25.2	14062	14061	26.4	2005	13738	1.1	3.0	12.0	19.2	23.8	13738	25.0

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Birth Weight Avg	200-day Milk Avg	200-day Growth Avg	400-day Weight Avg	600-day Weight Avg	Number of Calves	Mature Cow Weight No	Mature Cow Weight Avg		Number of Dams	Birth Weight Avg	200-day Milk Avg	200-day Growth Avg	400-day Weight Avg	600-day Weight Avg	Mature Cow Weight No	Mature Cow Weight Avg
1.3	2.7	13.1	20.6	25.5	14144	14143	26.8	2006	13760	1.2	3.0	12.2	19.4	24.1	13760	25.2
1.3	2.7	13.1	20.8	25.8	15010	15010	27.1	2007	14676	1.2	2.9	12.4	19.6	24.3	14676	25.6
1.3	2.7	13.7	21.5	26.7	15117	15117	28.1	2008	14778	1.2	2.9	12.7	20.1	24.9	14778	26.2
1.4	2.7	14.0	21.9	27.3	14398	14398	28.3	2009	14148	1.2	2.9	12.9	20.3	25.2	14148	26.4
1.4	2.8	14.2	22.2	27.7	14599	14599	28.5	2010	14374	1.3	2.9	13.1	20.6	25.6	14374	26.7
1.4	2.8	14.4	22.6	28.2	14405	14405	29.2	2011	14203	1.3	2.8	13.2	20.8	25.8	14203	26.9
1.4	2.7	14.2	22.6	28.2	2168	2168	29.2	2012	2163	1.3	2.7	13.3	21.2	26.4	2163	27.6

## Overall Breed Trends

## AVERAGE ESTIMATED BREEDING VALUES OVER YEARS (GENETIC TREND) - CARCASE

AVERAGE EBVs for CALVES							YEAR	AVERAGE EBVs for DAMS						
Rib Fat (mm) Avg	Rump Fat (mm) Avg	EMA (sq cm) Avg	RBV% Avg	IMF% Avg	Carcase Weight Avg	Number of Calves		Number of Dams	Rib Fat (mm) Avg	Rump Fat (mm) Avg	EMA (sq cm) Avg	RBV% Avg	IMF% Avg	Carcase Weight Avg
0.1	0.2	0.1	0.0	0.0	11.6	5128	1984	4757	0.1	0.2	0.1	0.0	0.0	11.0
0.1	0.2	0.1	0.0	0.0	11.6	6571	1985	6179	0.1	0.2	0.1	0.0	0.0	11.0
0.1	0.2	0.1	0.0	0.0	11.7	8393	1986	8003	0.1	0.2	0.1	0.0	0.0	11.2
0.1	0.2	0.1	0.0	0.0	11.7	8554	1987	8215	0.1	0.2	0.1	0.0	0.0	11.3
0.1	0.1	0.1	0.0	0.0	11.7	8734	1988	8429	0.1	0.2	0.1	0.0	0.0	11.4
0.1	0.1	0.1	0.0	0.0	11.7	8918	1989	8633	0.1	0.2	0.1	0.0	0.0	11.4
0.1	0.1	0.1	0.0	0.0	12.0	9854	1990	9504	0.1	0.2	0.1	0.0	0.0	11.5
0.1	0.2	0.1	0.0	0.0	12.1	9999	1991	9727	0.1	0.2	0.1	0.0	0.0	11.6
0.1	0.1	0.1	0.0	0.0	12.3	9403	1992	9170	0.1	0.2	0.1	0.0	0.0	11.7
0.1	0.1	0.1	0.0	0.0	12.5	8902	1993	8648	0.1	0.1	0.1	0.0	0.0	11.9
0.1	0.2	0.1	0.0	0.0	12.4	10943	1994	10557	0.1	0.2	0.1	0.0	0.0	11.9
0.1	0.2	0.1	0.0	0.0	12.5	11768	1995	11431	0.1	0.2	0.1	0.0	0.0	12.1
0.1	0.2	0.1	0.0	0.0	12.7	11807	1996	11417	0.1	0.2	0.1	0.0	0.0	12.2
0.1	0.2	0.1	0.0	0.0	12.9	11977	1997	11619	0.1	0.2	0.1	0.0	0.0	12.3
0.1	0.1	0.2	0.0	0.0	13.2	12346	1998	12014	0.1	0.2	0.1	0.0	0.0	12.6
0.1	0.2	0.1	0.0	0.0	13.3	12874	1999	12526	0.1	0.2	0.1	0.0	0.0	12.7
0.1	0.2	0.2	0.0	0.0	13.4	12574	2000	12279	0.1	0.2	0.1	0.0	0.0	12.9
0.1	0.2	0.2	0.0	0.0	13.8	12534	2001	12237	0.1	0.2	0.1	0.0	0.0	13.2
0.1	0.2	0.2	0.0	0.0	14.0	12632	2002	12358	0.1	0.2	0.1	0.0	0.0	13.3
0.1	0.2	0.2	0.0	0.0	14.0	12701	2003	12442	0.1	0.2	0.1	0.0	0.0	13.4
0.1	0.2	0.2	0.0	0.0	14.2	13310	2004	12992	0.1	0.2	0.1	0.0	0.0	13.7
0.1	0.1	0.2	0.0	0.0	14.4	13963	2005	13707	0.1	0.2	0.1	0.0	0.0	13.8

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AVERAGE EBVs for CALVES							YEAR	AVERAGE EBVs for DAMS						
Rib Fat (mm) Avg	Rump Fat (mm) Avg	EMA (sq cm) Avg	RBV% Avg	IMF% Avg	Carcase Weight Avg	Number of Calves		Number of Dams	Rib Fat (mm) Avg	Rump Fat (mm) Avg	EMA (sq cm) Avg	RBV% Avg	IMF% Avg	Carcase Weight Avg
0.1	0.2	0.2	0.0	0.0	14.6	14042	2006	13723	0.1	0.2	0.2	0.0	0.0	13.9
0.1	0.2	0.2	0.0	0.0	14.7	14932	2007	14648	0.1	0.2	0.2	0.0	0.0	14.1
0.1	0.1	0.2	0.0	0.0	15.1	15021	2008	14670	0.1	0.2	0.2	0.0	0.0	14.3
0.1	0.1	0.2	0.0	0.0	15.3	14283	2009	13931	0.1	0.2	0.2	0.0	0.0	14.4
0.1	0.2	0.2	0.0	0.0	15.5	14526	2010	14143	0.1	0.2	0.2	0.0	0.0	14.5
0.1	0.1	0.3	0.0	0.0	15.7	14345	2011	13921	0.1	0.2	0.2	0.0	0.0	14.7
0.1	0.1	0.3	0.0	0.0	15.9	2168	2012	2146	0.1	0.2	0.2	0.0	0.0	15.0

## Overall Breed Trends

## AVERAGE VALUES OVER YEARS (GENETIC TREND) - FERTILITY &amp; CALVING

AVERAGE EBVs				AVERAGE EBVs									
YEAR	DAYS TO CALVING (days)		SCROTAL SIZE (cms)		YEAR	BIRTH WT (kg)		GESTATION LENGTH (day)		CALVING EASE (%)			
	No.	Avg	No.	Avg		No.	Avg	No.	Avg	Direct		Daughters	
										No.	Avg	No.	Avg
1984	0		5137	0.4	1984	5139	0.6	5138	-0.7	0		0	
1985	0		6576	0.4	1985	6581	0.6	6580	-0.6	0		0	
1986	0		8400	0.4	1986	8404	0.6	8403	-0.6	0		0	
1987	0		8565	0.4	1987	8572	0.6	8572	-0.5	0		0	
1988	0		8740	0.4	1988	8746	0.7	8746	-0.5	0		0	
1989	0		8930	0.4	1989	8933	0.7	8931	-0.5	0		0	
1990	0		9884	0.4	1990	9897	0.8	9893	-0.5	0		0	
1991	0		10024	0.4	1991	10028	0.8	10027	-0.5	0		0	
1992	0		9434	0.4	1992	9442	0.9	9441	-0.4	0		0	
1993	0		8918	0.4	1993	8924	0.9	8923	-0.4	0		0	
1994	0		10981	0.4	1994	10984	0.9	10981	-0.5	0		0	
1995	0		11799	0.4	1995	11808	1.0	11807	-0.4	0		0	
1996	0		11819	0.4	1996	11822	1.0	11820	-0.4	0		0	
1997	0		12000	0.4	1997	12023	1.0	12022	-0.4	0		0	
1998	0		12362	0.4	1998	12378	1.1	12377	-0.4	0		0	
1999	0		12901	0.4	1999	12903	1.1	12903	-0.4	0		0	
2000	0		12603	0.4	2000	12605	1.1	12605	-0.4	0		0	
2001	0		12559	0.4	2001	12560	1.2	12560	-0.4	0		0	
2002	0		12670	0.4	2002	12674	1.2	12674	-0.4	0		0	
2003	0		12747	0.4	2003	12747	1.2	12747	-0.4	0		0	
2004	0		13351	0.4	2004	13352	1.2	13352	-0.4	0		0	
2005	0		14060	0.5	2005	14062	1.2	14061	-0.4	0		0	

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AVERAGE EBVs				
YEAR	DAYS TO CALVING (days)		SCROTAL SIZE (cms)	
	No.	Avg	No.	Avg
	2006	0		14142
2007	0		15010	0.5
2008	0		15117	0.5
2009	0		14393	0.5
2010	0		14599	0.5
2011	0		14404	0.5
2012	0		2168	0.5

AVERAGE EBVs								
YEAR	BIRTH WT (kg)		GESTATION LENGTH (day)		CALVING EASE (%)			
	No.	Avg	No.	Avg	Direct		Daughters	
	No.	Avg	No.	Avg	No.	Avg	No.	Avg
2006	14144	1.3	14143	-0.4	0		0	
2007	15010	1.3	15010	-0.4	0		0	
2008	15117	1.3	15117	-0.4	0		0	
2009	14398	1.4	14398	-0.5	0		0	
2010	14599	1.4	14598	-0.5	0		0	
2011	14405	1.4	14405	-0.5	0		0	
2012	2168	1.4	2168	-0.4	0		0	