Deutscher Club für Nordische Hunde e.V.

Annual report

2014

The 20th International seminar for the Icelandic Sheepdog
Reykjavik 23th-25th October 2015

Board members

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Breeding comittee	Henry Kleemann	Forster Str. 20 03149 Groß Schacksdorf eMail: henry-kleemann@t-online.de 035695443
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Others

Breeding representative Icelandic Sheepdog	Susanne Schütte	Im Mühlental 12 **58642 Iserlohn** Tel. 0049-2374-914246 eMail: Susanne-Schuette@t-online.de or Susanne-Schuette@islandhund.com

Summary

2014 we have an international meeting for Icelandic sheepdogs in the south of Germany, together with the clubs from Austria and Switzerland.

Summary

2014 46 eye-examinations have been made
All dogs were free!

13 dogs were checked a second time

2015 until 13th September
30 eye-examinations have been made

12 dogs were checked a second time

2014 33 dogs were x-rayed, 31 were free (A+B), 2 (C;D;E)
2015 until 13th September
22 dogs were x-rayed, 19 were free (A+B), 3 (C;D;E)

Susanne Schütte, breedrepresentative DCNH for herding dogs

Litters

	2014	2013	2012	2011	2010	2009
Litters	18	13	12	16	17	7
Puppies registrated	92	70	61	88	79 (80)	32 (33)
Average size of litters	5,12	5,39	5,08	5,5	4,65	4,57
Average inbreeding %	0,87	0,89	0,53	0,9	0,79	0,93

Generation Interval

Father – Son	**4,2 years**
Father – Daughter	**4,7 years**
Mother – Son	**4 years**
Mother – Daughter	**4,3 years**

Imports

	2014	2013	2012	2011	2010
Iceland		1	2	2	2
Sweden				1	1
Danmark		1			1
Switzerland				2	
Finland			1	1	
Netherland	2	1	1		
Norway			1		
USA		1	1	1	

Further comments:

It is not easy to get information about imports, because it is only necessary to registrate in DCNH studbook when the dog is a breeding dog.

Stud dogs

Who have reached – or are close – to the "ISIC breeding limit"

Males – Matadors in Germany calculated with Lathunden 2005-2014

ID Nr.	Name	Birth	Inbreeding	Litter	Children	grandchildren
IH 00140/00	Fjalla Breki	07.03.99	4,4	13	67	105
IH 00293/03	Eldur of Brooks Range	29.06.03	2,7	8	38	21
ICH 00268/03	Cleo vom Lechfeld	07.01.03	4,3	7	38	34
IH 00351/04	Kersins Katur	16.12.02	4,3	6	35	96
IH 00415/05	Tinni	04.10.03	2,4	8	34	21
IH 00443/06	Isdalurs Askur	04.07.06	0,8	7	34	29
IH 00123/99	Leirubakka Smari	11.03.98	4,2	9	27	16
ICH 00602/09	Isdalurs Conrad	16.06.09	0		24	0
IH 00225/02	Blikki vom Lindenweberhof	12.04.02	3,6	8	23	0
IH 00306/03	Filou v.h. Reutse Veld	28.09.01	10,8	3	20	7
IH 00853/13	Fjarhundis Andri	21.04.11	1,1	3	20	0
IH 00219/02	Afram frá Gull Lyklinum	01.04.00	5,9	5	16	49
ICH 00598/09	Fagur fra Klettakoti	18.05.09	0	3	15	0
ICH 00496/07	Bjarki von der Kinnwies	11.05.07	0	3	15	0
IH 00159/00	Tyri vom Schloss Neubronn	30.11.00	3,6	5	15	47

Females					
Reg nr.	**Name of the dog**	**Year of birth**	**No. of Litters**	**No. of Puppies**	**No of grandchildren**
DCNH IH 00137/99	Saeta vom Schloss Neubronn	1999	6	34	26
DCNH IH 00132/99 castrated	Askja vom Lechfeld	1999	7	33	78
DCNH IH 00425/06	Ansvor-Smilla von der Kinnwies	2006	4	29	22
DCNH IH 00340/04	C-Fjalla Skjona vom Lindenweberhof	2004		28	17
DCNH IH 00161/00 dead	Toa vom Schloss Neubronn	2000	5	26	69
DCNH IH 00277/03	Assy vom Schloss Neubronn	2003		26	8
DCNH IH R 279/07	Arora Kylja vom Zusameck	2007	4	24	24
DCNH IH 00377/05	Stjörnuljosa Mana Syn	2003	3	23	63
DCNH IH 00102/98	Puma vom Schloss Neubronn	1998	4	24	113
DCNH IH R 237/98 dead	Aishe fra Bjarkarlundi	1998		23	38
DCNH IH 00560/08	Bleika vom Rensberg	2008		22	7
DCNH IH 00453/06	Jarpblesa vom Lechfeld	2006		21	10
DCNH IH 00582/08	Kvik vom Schloss Neubronn	2008		20	0
DCNH IH 00284/03	Dyrgja of Brooks Range	2003	3	11	61
DCNH IH 00148/00	A-Hjördis of Brooks Range	2000	3	17	59

Further comments:

Hip Dysplasia (HD)

Total number of x-rayed dogs	2014	2013	2012	2011	2010
A	21(63,64%)	31(64,59%)	19 (51,35%)	17 (53,13%)	6 (37,5%)
B	10(30,31%)	11(22,92%)	12 (32,43%)	9 (28,13%)	7 (43,75%)
A+B	**31(93,94%)**	**42(87,5%)**	**31 (83,78%)**	**26 (81,25%)**	**13 (81,25%)**
C	1 (3,03%)	5(10,42%)	5 (13,51%)	4 (12,5%)	3 (18,75%)
D	1 (3,03%)	1(2,09)	0	1 (3,13%)	0
E	0	0	1 (2,7%)	1 (3,13%)	0
C+D+E	**2 (6,06%)**	**6(12,5%)**	**6 (16,22%)**	**6 (18,75%)**	**3 (18,75%)**
In total	**33**	**48**	**37**	**32**	**16**

Further comments:

Elbow dysplasia (ED)

Total number of x-rayed dogs	2014	2013	2012	2011	2010
Level 0					
Level 1					
Level 2					
Level 3					
In total					

Further comments:

Patella luxation:

Total number of x-rayed dogs	2014	2013	2012	2011	2010
Level 0					
Level 1					
Level 2					
Level 3					
In total					

Further comments:

Eye examinations

Total number of x-rayed dogs	2014	2013	2012	2011	2010
Unaffected signifies (free)	46	48	27	30	17
Hereditary Cataract	0	2	0	0	0
Cornea Distrophe	0	0	0	0	0
Distichiatis	0	0	0	1	0
Others (see below)	0	4	2	5	0
In total	46	54	29	36	17

Other hereditary eye diseases:

Further comments:

Health, optional testing

	2014	2013	2012	2011	2010
BEAR (Hearing diseases)					
Heart diseases					
Kidney diseases					

Further comments:

Mentality descriptions

	2014	2013	2012	2011	2010
Descripted dogs					
In total					

Further comments:

Working abilities (herding) descriptions

	2014	2013	2012	2011	2010
Descripted dogs					
In total					

Further comments:

Shows

	2014	2013	2012	2011	2010
Number of shows					
Number of dogs					
In total (dogs)					

Further comments:

Events

International Icelandic Sheepdog Meeting in May 2014

Litters

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Litters	5	5	9	10	13	7	12	10	15	8	7	17	16	12	13	18
Puppies	29 (30)	25 (26)	51 (53)	55 (57)	64 (68)	30	63 (65)	47 (48)	68 (71)	48 (51)	32 (33)	79 (80)	88	61	70	92
Average size of litters	5,8 (6,0)	5,0 (5,2)	5,7 (5,9)	5,5 (5,7)	4,93 (5,23)	4,29	5,3 (5,4)	4,7 (4,8)	4,53 (4,73	6,0 (6,38)	4,57 (4,71)	4,65 (4,71)	5,5	5,08	5,39	5,12
Average inbreeding %	4,2	2,64	4,73	4,11	3,75	5,27	5,3	2,62	3,08	2,16	0,93	0,79	0,9	0,53	0,89	0,87

Imports

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Netherland	1	6	1	0	2	1	0	0	0	0	3	0	0	1	2	2
Iceland	3	0	1	1	2	0	1	1	3	3	1	2	2	2	1	
Danmark	1	0	0	3	0	1	0	0	2	0	1	1	0	0	1	
Sweden	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	
Norway	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	
Finland	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	
France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Switzerland	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	
USA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	

Hip Dysplasia (HD)

Total number of x-rayed dogs	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
A	1	15	6	6	5	7	4	2	4	5	6	6	17	19	31	21
B	2	2	2	7	4	6	5	6	6	8	6	7	9	12	11	10
A+B	**3**	**17**	**8**	**13**	**9**	**13**	**9**	**8**	**10**	**13**	**12**	**13**	**26**	**31**	**42**	**31**
C	0	1	3	1	1	7	3	2	3	4	2	3	4	5	5	1
D	1	2	1	3	3	1	0	1	1	1	1	0	1	0	1	1
E	1	1	0	0	1	0	1	0	0	0	2	0	1	1	0	0
C+D+E	**2**	**4**	**4**	**4**	**5**	**8**	**4**	**3**	**4**	**5**	**5**	**3**	**6**	**6**	**6**	**2**
In total	**5**	**21**	**12**	**17**	**14**	**21**	**13**	**11**	**14**	**18**	**17**	**16**	**32**	**37**	**48**	**33**

Elbow dysplasia (ED)

Total number of x-rayed dogs	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Level 0																
Level 1																
Level 2																
Level 3																
In total																

Patella luxation:

Total number of x-rayed dogs	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Level 0																1
Level 1																
Level 2																
Level 3																
In total																1

Eye examinations

Total number of x-rayed dogs	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Unaffected signifies (free)	6	17	15	26	18	21	20	22	25	24	22	17	30	27	48	46
Hereditary Cataract					1				1						2	
Cornea Distrophe																
Distichiasis			1										1			
Others							1 MPP	2 *					5 MPP	2 MPP	4	
In total	6	17	16	26	19	21	21	24	26	24	22	17	36	29	54	46
*suspicion for cataract																

Effective Population Size (Ne)

Icelandic Sheepdog

Calculation made on all dogs in the database.

Eliminated= Parents locked for breeding

Date of calculation = 13.09.2015

Period	Elemina-ted	All		Calculated		Avelsbas (Ne)		Inbred %	Max. no. of	Rec. no. of
		Litters	puppies	Litters	Puppies	Utilized	Available			
2010 - 2014	26	110	413	96	410	500	50	1,0	18	7
2005 - 2009	84	119	336	114	330	39	50	3,0	14	6
2000 - 2004	132	151	349	142	342	43	37	4,1	15	6

Comments

The effective population size (Ne) or the effective breeding base is not a the number of dogs used for breeding. Ne decsribes the rate of loss of genetic variation in a breed due to inbreeding. With a value Ne= 50 the breed will for example lose 50 genetic variation as fast as if only 24 males and 25 females were used for breeding in a system with random mating. When the breeding base (the effective population size Ne) reache a value about 500 it does not mean that 500 animals have been used for breeding. It tells that the increase in inbreeding per generation is the same as if 500 animals, equally distributed on sexes, were mated randomly generation after generation. Such populations may survive for centuries without any substantial loss of genetic variation.

High values for Ne may sometimes be reached also in small populations. It will happen if the inbreeding of the offspring is lower than in the parentel generation. This will normally only happen if new and unrelated animals are added to the population. The available Ne will then become lower than the utilized Ne. This reason is that no new animals can be added in the two subsequently simulated generations. Hence the relationship between breeding animals will increase again causing a higher inbreeding in the offsrping and thus an increasing loss of genetic variation.

The desired level for Ne is at least 100. At values of 50 or below the vitality of thebreed is severiously threatened due to very rapid loss of genetic variation.

Δ Genetica

Breed statistics for Icelandic Sheepdog

during 2005 to 2014

All dogs registred from 2005-2014

		i %
Total =	751	
Males =	414	55,1
Females =	337	44,9
Breeding Males =	70	16,9
Breeding females =	72	21,4
Litter size =	3,5	

Year	No.	Inbree-ding %	Litter size
2005	88	4,5	2,7
2006	62	2	2,7
2007	86	3,7	3,1
2008	59	1,5	3,1
2009	42	1,4	2,8
2010	86	0,9	3,7
2011	97	1,2	4
2012	67	0,6	3,7
2013	73	0,9	4,9
2014	91	1,2	4,8
$\overline{M}$ =	75	1,8	3,6

Generations in pedigree= 4,9

Breeding with dogs born in period

	Males	Females
Mean age 1st mating =	1175	1162
Lowest age 1st mating =	165	668
1st litter before 1 year =	1	0
1st litter before 2 year =	10	4
Average no. of progeny =	5,9	6,5
Largest no. of progeny =	34	29
Own inbreeding % =	1,6	2,4

Breeding use of "Matadors"

Max. advisable no. of pups =	7
Max acceptable no. of pups =	17
Largest no. of progeny =	68
Largest no. grandchildren =	106
"Matadors" no. =	15
"Matadors" % =	10,6
Matadors offspring in % =	44
Matadors grandchildren % =	42

GENERATION INTERVAL

	Days		Years
Father to sons =	1521,5	=	4,2
Fathers to daughters =	1720,7	=	4,7
Mothers to sons=	1471,3	=	4
Mothers to daugters =	1562,5	=	4,3
Parents to progeny =	1569	=	4,3

OBS ! the analysis includes all dogs with birth date!
When the number of dogs is low some values may be unrealistic.

Δ Genetica