

# Deutscher Club für Nordische Hunde e.V.



## Annual report 2013

The 19<sup>th</sup> International seminar for  
the Icelandic Sheepdog  
Väddö 24<sup>th</sup>-26<sup>th</sup> October 2014



## Club information

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### Board members

Chairman:

Guido Schäfer	Koblenzer Str. 4d 56759 Kaisersesch eMail: <a href="mailto:DCNH-Vorsitzender@t-online.de">DCNH-Vorsitzender@t-online.de</a> 02653 911264

Vice Chairman:

Steffen Kopsch	Elbufer Str. 44a 21423 Winsen EMail: <a href="mailto:dcnh-kopsch@web.de">dcnh-kopsch@web.de</a> 0163 6145559

Treasurer:

Petra Schnupp	Freiheit 19a 53721 Siegburg eMail: <a href="mailto:petra.schnupp@arcor.de">petra.schnupp@arcor.de</a> 02241-1270638
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Secretary:

Jenny Zeimetz	Dortebachstr. 11 56759 Kaisersesch eMail: <a href="mailto:Geschaeftsstelle@dcnh.de">Geschaeftsstelle@dcnh.de</a> 02653 914554
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### Commitees

Breeding comittee	Nicole Klose	Winsenerstr. 51 29323 Wietze eMail: <a href="mailto:dcnh-fb-zucht@t-online.de">dcnh-fb-zucht@t-online.de</a> 05146 929685
representative for hunting-, herding- and Japanese dogs	Steffen Kopsch	Elbufer Str. 44a 21423 Winsen eMail: <a href="mailto:dcnh-kopsch@web.de">dcnh-kopsch@web.de</a>

### Others

Breeding representative Icelandic Sheepdog	Susanne Schütte	Im Mühlental 12 <b>58642 Iserlohn</b> Tel. 0049-2374-914246 eMail: <a href="mailto:Susanne-Schuette@t-online.de">Susanne-Schuette@t-online.de</a> or <a href="mailto:Susanne-Schuette@islandhund.com">Susanne-Schuette@islandhund.com</a>
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## Club information

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### Club members

	<b>2013</b> 31 <sup>th</sup> December	<b>2012</b> 31 <sup>th</sup> December	<b>2011</b> 31 <sup>th</sup> December	<b>2010</b> 31 <sup>th</sup> December	<b>2009</b> 31 <sup>th</sup> December
<b>Members</b>					
<b>New members this year</b>					

### Summary

No project for icelandic sheepdogs in 2013

### Summary

2013 54 eye-examinations have been made

We found 2 dogs with cataract and 4 with MPP, 1 dog with suspicion for PRA. This dog was free in 2014!

10 dogs were checked a second time

2014 until 17<sup>th</sup> September

29 eye-examinations have been made

9 dogs were checked a second time

2013 48 dogs were x-rayed, 42 were free (A+B), 6 (C;D;E)

2014 until 17<sup>th</sup> September

15 dogs were x-rayed, 13 were free (A+B), 2 (C;D;E)

Susanne Schütte, breedrepresentative DCNH for herding dogs

## Statistics overview and comments, registrations

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### Litters

	2013	2012	2011	2010	2009	2008
Litters	13	12	16	17	7	8
Puppies registered	70	61	88	79 (80)	32 (33)	48 (51)
Average size of litters	5,39	5,08	5,5	4,65	4,57	6
Average inbreeding %	0,89	0,53	0,9	0,79	0,93	2,16

#### Generation Interval

Father – Son	4,5 years
Father – Daughter	4,5 years
Mother – Son	4,0 years
Mother – Daughter	4,3 years

### Imports

	2013	2012	2011	2010	2009
Iceland		2	2	2	1
Sweden			1	1	
Danmark	1			1	1
Swiss			2		
Finland		1	1		
Netherland		1			3
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.

## Statistics overview and comments, registrations

### Stud dogs

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

Males – Matadors in Germany calculated with Lathunden						
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	16
ICH 00268/03	Cleo vom Lechfeld	07.01.03	4,3	7	38	25
IH 00351/04	Kersins Katur	16.12.02	4,3	6	35	92
IH 00415/05	Tinni	04.10.03	2,4	8	34	17
IH 00443/06	Isdalurs Askur	04.07.06	0,8	7	34	16
IH 00123/99	Leirubakka Smari	11.03.98	4,2	9	27	16
IH 00225/02	Blikki vom Lindenweberhof	12.04.02	3,6	8	23	0
ICH 00602/09	Isdalurs Conrad	16.06.09	0		20	0
IH R0246/00	Mouk van Het Reutse Veld	19.10.98	12,5	6	20	23
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
IS 05149/98	Laekjamots Katur	17.08.98	4,8		1	34

## Statistics overview and comments, registrations

<b>Females</b>					
<b>Reg nr.</b>	<b>Name of the dog</b>	<b>Year of birth</b>	<b>No. of Litters</b>	<b>No. of Puppies</b>	<b>No of grandchildren</b>
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	10
DCNH IH 00340/04	C-Fjalla Skjona vom Lindenweberhof	2004		28	10
DCNH IH 00161/00 dead	Toa vom Schloss Neubronn	2000	5	26	65
DCNH IH 00277/03	Assy vom Schloss Neubronn	2003		26	8
DCNH IH 00377/05	Stjörnuljosa Mana Syn	2003	3	23	59
DCNH IH 00102/98	Puma vom Schloss Neubronn	1998	4	24	113
DCNH IH 00148/00	A-Hjördis of Brooks Range	2000	3	17	59
DCNH IH R0238/98 castrated	Agnea fra Bjarkarlundi	1998	2	14	46
NHSB 1924639 dead	Fina fra Thytur Stadir	1994	3	14	65
DCNH IH 00284/03	Dyrgja of Brooks Range	2003	3	11	56

**Further comments:**

### Hip Dysplasia (HD)

Total number of x-rayed dogs	2013	2012	2011	2010	2009
A	31(64,59%)	19 (51,35%)	17 (53,13%)	6 (37,5%)	6 (33,33%)
B	11(22,92%)	12 (32,43%)	9 (28,13%)	7 (43,75%)	7 (38,89%)
A+B	42(87,5%)	31 (83,78%)	26 (81,25%)	13 (81,25%)	13 (72,22%)
C	5(10,42%)	5 (13,51%)	4 (12,5%)	3 (18,75%)	2 (11,11%)
D	1(2,09)	0	1 (3,13%)	0	1 (5,55%)
E	0	1 (2,7%)	1 (3,13%)	0	2 (11,11%)
C+D+E	6(12,5%)	6 (16,22%)	6 (18,75%)	3 (18,75%)	5 (27,78%)
In total	48	37	32	16	18

Further comments:

### Elbow dysplasia (ED)

Total number of x-rayed dogs	2013	2012	2010	2009	2008
Level 0					
Level 1					
Level 2					
Level 3					
In total					

Further comments:

### Patella luxation:

Total number of x-rayed dogs	2013	2012	2010	2009	2008
Level 0					
Level 1					
Level 2					
Level 3					
In total					

Further comments:



### Eye examinations

Total number of x-rayed dogs	2013	2012	2011	2010	2009
Unaffected signifiers (free)	48	27	30	17	22
Hereditary Cataract	2	0	0	0	0
Cornea Distrophe	0	0	0	0	0
Distichiatis	0	0	1	0	0
Others (see below)	4	2	5	0	0
<b>In total</b>	<b>54</b>	<b>29</b>	<b>36</b>	<b>17</b>	<b>22</b>

Further comments:

### Health, optional testing

	2013	2012	2010	2009	2008
BEAR (Hearing diseases)					
Heart diseases					
Kidney diseases					

Further comments:

## Mentality descriptions

	2013	2012	2011	2010	2009
Descripted dogs					
In total					

Further comments:

## Working abilities (herding) descriptions

	2013	2012	2011	2010	2009
Descripted dogs					
In total					

Further comments:

## Shows

	2013	2012	2011	2010	2009
Number of shows					
Number of dogs					
In total (dogs)					

Further comments:

## Events

## Appendix

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### Litters

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Litters</b>	6	5	5	9	10	13	7	12	10	15	8	7	17	16	12	13
<b>Puppies</b>	32 (34)	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
<b>Average size of litters</b>	5,3 (5,7)	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
<b>Average inbreeding %</b>	3,88	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

### Imports

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Netherland	4	1	6	1	0	2	1	0	0	0	0	3	0	0	1	0
Iceland	3	3	0	1	1	2	0	1	1	3	3	1	2	2	2	0
Danmark	1	1	0	0	3	0	1	0	0	2	0	1	1	0	0	1
Sweden	0	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	0	1	0	0	0	1	0
Finland	0	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	0
Switzerland	0	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	0	1	1	1

## Appendix

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### Hip Dysplasia (HD)

Total number of x-rayed dogs	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
A	2	1	15	6	6	5	7	4	2	4	5	6	6	17	19	31
B	2	2	2	2	7	4	6	5	6	6	8	6	7	9	12	11
A+B	4	3	17	8	13	9	13	9	8	10	13	12	13	26	31	42
C	0	0	1	3	1	1	7	3	2	3	4	2	3	4	5	5
D	0	1	2	1	3	3	1	0	1	1	1	1	0	1	0	1
E	0	1	1	0	0	1	0	1	0	0	0	2	0	1	1	0
C+D+E	0	2	4	4	4	5	8	4	3	4	5	5	3	6	6	6
In total	4	5	21	12	17	14	21	13	11	14	18	17	16	32	37	48

### Elbow dysplasia (ED)

Total number of x-rayed dogs	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Level 0																
Level 1																
Level 2																
Level 3																
In total																

## Appendix

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### Patella luxation:

Total number of x-rayed dogs	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Level 0																
Level 1																
Level 2																
Level 3																
In total																

### Eye examinations

Total number of x-rayed dogs	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Unaffected signifies (free)	4	6	17	15	26	18	21	20	22	25	24	22	17	30	27	48
Hereditary Cataract						1				1						2
Cornea Dystrophe																
Distichiasis				1										1		
Others								1 MPP	2 *					5 MPP	2 MPP	4
In total	4	6	17	16	26	19	21	21	24	26	24	22	17	36	29	54
*suspicion for cataract																

## Appendix

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### Imports

2013

USA-Mc Emeros Kiva  
Danmark – Ganti Doni

2012

USA- Runamuck Lipurta Disa (Eyjahunda Bragi X Runamuck Litla Hvisla)  
Finnland – Katimon Mundilfari (Katimon Mergur X Lonestar Kira)  
Norwegen-Fjarhundis Andri (Icetops Noi X Wadsteinas Wäna Wilja)  
Iceland- Gerplu Loki Tröll (Gerplu Snata Tryggur X Leirubakka Sollilje Dögg)  
Iceland – Istjarna Esja (Stefsstellis Skrudur X Bjarkarkots Dimma Nott)  
Netherland – Bingo van de Wadenborgh (Kopasker fra Thytur Stadir X Freyja van de Wadenborgh)

2011

Finland – Ginfaxi Ifill (Vuoreksen Zimba X Netla fra Blönduos)  
Iceland – Isskogar Ronja Katla (Amastada Askur X Stefsstellis Moa)  
Iceland – Gerplu Thorkatla Thumalina (Amastada Snati X Gerplu Ynja)  
Switzerland – Gantropps Kari (Gladur Glampi X Ayla fra Esjubergi)  
Switzerland – Gantropps Fina (Thordunu Leppur X Dimma Dora vom Schloss Neubronn)  
USA – Nocona (Gerplu Spori X Lavandels Vorros)  
Schweden – Astvinur Jorunn Kolbra (Meester Ridge Gisli Viking X Fältstigen Salka)

2010

Iceland – Snjofells Freydis (Kersins Svarti Petur X Eldhamars Freyja)  
Iceland – Töfra Tigla Vina (Töfra Kloi Hektorson X Kersins Skella)  
Sweden – Svenska Engardens Kristall (Ullálvas Dofri X Hofshesta Fjara)  
Danmark – Tritla (Geislandi Bessi X Gladur Bryja)

2009

Danmark – Surtseys F-Fjalladis (Geysirs Doni X Ishundurs Gaefa)  
Netherland – Silly fra Olafsfjörður (Indi fra Bjarkarlundi X Grima fra Fuglatorgi)  
Netherland – Jodis India fra Olafsfjörður (Indi fra Bjarkarlundi X Grima fra Fuglatorgi)  
Iceland – Kersins Kappi (Thordunu Surtur X Tyra)  
Netherland – Ardi (Baloe fra Thytur Stadir X Una fra Thytur Stadir)

## Appendix

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2008

Iceland – Sindra Jökull (Lagafells Mani X Kersins Sindra)  
Iceland – Kersins Kani (Arnastada Bersi X Kersins Tibra Töfradis)  
Iceland – Stefsstells Selma Spesia (Kolgrimur X Stefsstells Aska Spesia)  
Switzerland – Gantropps Busla (Dyri fra Klettakoti X Dimma Dora vom Schloss Neubronn)  
Norway – Samur av Isheim (Tolli X Bersa av Isheim)

2007

Iceland – Thordunu Ausa (Rosi fra Husatoftum X Thordunu Eyja)  
Iceland – Thordunu Skreppur (Thordunu Surtur X Kersins Urdur)  
Iceland – Thordunu Nordan Drifa (Skessu Skolli X Kersins Urdur)  
Danmark – Solargeisli Raudur (Frøj X Solargeisli Soley)  
Danmark – Hi Lydur Vina (Surtseys Fafnir X Godrumgards Lippa)  
Finland – Tunturiketun Ljomi (Tunutriketun Ötull Arnar X Blackstar Snella Gudridur)

2006

Iceland – Frekja (Eldhamars Freyr X Hnuks Luska)

2005

Iceland – Stjörmuljosa Koltinna (Siggi X Fjola)

2004

Sweden – Mon Gards Nypa (Spori X Ullälvas Sokka)  
Sweden – Mon Gards Jarpi (Spori X Ullälvas Sokka)  
Netherland – Astrida v.h. Reutse Veld (Leirubakka Smari X Menja v.h. Reutse Veld)  
Netherland – Sergeant Peppes Lif (Kjartan v.h. Reutse Veld X Yrsa v.h. Reutse Veld)  
Danmark – Surtseys Pia (Tvaerskov Diddi X Surtseys Dana)

2003

Netherland – Filour v.h. Reutse Veld (Jaki v.h. Reutse Veld X B-Solveig von Baltshaus)  
Netherland – Akki v.h. Reutse Veld (Raki v.h. Reutse Veld X Elfi vom Pöttgesberg)  
Iceland – Stjörmuljosa Mana Syn (Tyr fra Husatoftum X Leirubakka Fjola)  
Iceland – Tinni (Laekjamots Katur X Dama)

2002

Danmark – Askjas Ofeigur (Orri av Isheim X Askjas Hrefna)  
Danmark – Vinur Vauka (Surtseys Issi Ilmason X Pila)  
Danmark – Solargeisli Eydis (Solargeisli Odur X Solargeisli Lava)

## Appendix

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Iceland – Kersins Katur (Sunnustein Canis X Melkolku Brenda)

2001

Iceland – Sindra Snaebjartur (Gerplu Mani X Töfra Stjarna)

Netherland – Kopasker fra Thytur Stadir (Jaki fra Thytur Stadir XPrydi)

2000

Netherland – Afram fra Gull Lyklinum (Castor vom Pöttgesberg X Rakel fra Thytur Stadir)

Netherland – Salka v.h. Reutse Veld (Trausti fra Thytur Stadir X Lara v.h. Reutse Veld)

Netherland – Sprækur fra Thytur Stadir (Bakur fra Thytur Stadir X Prydi)

Netherland – Raki v.h. Reutse Veld (A-Vitus fra Himnabaer X Rakel)

Netherland – Hugin v.h. Reutse Veld (Leirubakka Smari X Menja v.h. Reutse Veld)

Netherland – Snorri fra Fridarstöðum (Taktur fra Fridarstöðum X Frekja fra Fridarstöðum)

1999

Iceland – Fjalla Breki (Ulfur fra Keldnakoti X Ylfa fra Olafsvöllum)

Iceland – Eldeyjar Katla (Snaelukku Katur X Tata)

Iceland – Minni Nups Snorri (Kolur fra Husatoftum X Blida fra Olafsvöllum)

Netherland – Bjalla fra Thytur Stadir (Farandi X Björk fra Thytur Stadir)

Danmark – Töttrups Heiko (Orri av Isheim X Töttrups Hebe)

1998

Iceland – Leirubakka Smari (Yrar Akkur X Snoppa)

Iceland – Frigg (Tyr fra Husatoftum X Ölvastada Ula)

Iceland – Kappi (Tanga Somi X Ula)

Netherland – Diana fra Thytur Stadir (Farandi X Edda fra Thytur Stadir)

Netherland – Mouk v.h. Reutse Veld (Skotti fra Thytur Stadir X Rakel)

Netherland – Lagsi fra Thytur Stadir (Jaki fra Thytur Stadir X Halldora fra Thytur Stadir)

Netherland – Joschi v.h. Reutse Veld (Jaki fra Thytur Stadir X Muska fra Thytur Stadir)

Danmark – Töttrups Tau (Trym av Holteheia X Töttrups Hebe)

1997

Netherland – Fatima fra Thytur Stadir (Kormak fra Thytur Stadir X Prydi)

Netherland – Mani v.h. Reutse Veld (Jaki fra Thytur Stadir X Rakel)

1996



## Appendix

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Netherland – Steinnun fra Thytur Stadir (Farandi X Dufa fra Thytur Stadir)  
Netherland – Bjor fra Thytur Stadir (Agnar fra Thytur Stadir X Dufa fra Thytur Stadir)  
Netherland – Skotti fra Thytur Stadir (Jaki fra Thytur Stadir X Halldora fra Thytur Stadir)  
France – Magni (Gladur D acca Laurentia X Perla)  
Iceland- Harka (Vaskur X Tryna)  
Iceland – Hörku Biskup (Spori X Stjörnu Pila)

## Effective Population Size ( Ne )

Icelandic Sheepdog

Calculation made on all dogs in the database.

Eliminated= Parents locked for breeding

Date of calculation = 13.09.2013

Period	Eliminated	All		Calculated		Avelsbas (Ne)		Inbred %	Max. no. of	Rec. no. of
		Litters	puppies	Litters	Puppies	Utilized	Available			
2008 - 2012	44	89	336	87	336	500	33	1,1	14	6
2003 - 2007	107	131	356	125	350	37	32	3,9	15	6
1998 - 2002	150	139	316	130	309	500	20	4,3	13	5

### Comments

The effective population size (Ne) or the effective breeding base is not the number of dogs used for breeding. Ne describes 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) reaches 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 parental 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 offspring 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 the breed is severely threatened due to very rapid loss of genetic variation.



## Breed statistics for Icelandic Sheepdog during 2003 to 2012

### All dogs registered from 2003-2012

Total =	<input type="text" value="695"/>	i %
Males =	<input type="text" value="372"/>	<input type="text" value="53,5"/>
Females =	<input type="text" value="323"/>	<input type="text" value="46,5"/>
Breeding Males =	<input type="text" value="65"/>	<input type="text" value="17,5"/>
Breeding females =	<input type="text" value="74"/>	<input type="text" value="22,9"/>
Litter size =	<input type="text" value="3,2"/>	

Year	No.	Inbreeding %	Litter size
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Year	No.	Inbreeding %	Litter size
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
2003	84	4,4	2,5
2004	49	3,9	2,3
<b>M</b> =	<b>38</b>	<b>1,4</b>	<b>3,3</b>

Generations in pedigree =

### Breeding with dogs born in period

	<u>Males</u>	<u>Females</u>
Mean age 1st mating =	<input type="text" value="1129"/>	<input type="text" value="1144"/>
Lowest age 1st mating =	<input type="text" value="165"/>	<input type="text" value="652"/>
1st litter before 1 year =	<input type="text" value="2"/>	<input type="text" value="0"/>
1st litter before 2 year =	<input type="text" value="15"/>	<input type="text" value="5"/>
Average no. of progeny =	<input type="text" value="5,7"/>	<input type="text" value="5,8"/>
Largest no. of progeny =	<input type="text" value="38"/>	<input type="text" value="28"/>
Own inbreeding % =	<input type="text" value="2,1"/>	<input type="text" value="3,6"/>

### Breeding use of "Matadors"

Max. advisable no. of pups =	<input type="text" value="5"/>
Max acceptable no. of pups =	<input type="text" value="14"/>
Largest no. of progeny =	<input type="text" value="68"/>
Largest no. grandchildren =	<input type="text" value="106"/>
"Matadors" no. =	<input type="text" value="20"/>
"Matadors" % =	<input type="text" value="14,6"/>
Matadors offspring in % =	<input type="text" value="54"/>
Matadors grandchildren % =	<input type="text" value="55"/>

### GENERATION INTERVAL

	<u>Days</u>	=	<u>Years</u>
Father to sons =	<input type="text" value="1638"/>	=	<input type="text" value="4,5"/>
Fathers to daughters =	<input type="text" value="1731,8"/>	=	<input type="text" value="4,7"/>
Mothers to sons =	<input type="text" value="1461,4"/>	=	<input type="text" value="4"/>
Mothers to daughters =	<input type="text" value="1589,7"/>	=	<input type="text" value="4,4"/>
Parents to progeny =	<input type="text" value="1605"/>	=	<input type="text" value="4,4"/>

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