ICELANDIC SHEEPDOG ASSOCIATION OF AMERICA

Annual report for the year 2017



The 23th International Seminar for The Icelandic Sheepdog Copenhagen 26th-28th October 2018



Club Information

Mission Statement

The Icelandic Sheepdog Association of America (I.S.A.A.) is organized for the express purpose of promoting and preserving the welfare of the Icelandic Sheepdog in America. Towards this end, the ISAA is dedicated to serving the best interest of the Icelandic Sheepdog through increasing public awareness, establishing a resource network, and promoting proper husbandry and breeding practices of the Icelandic Sheepdog in America.

Board Members

Email: isaabod@gmail.com

2018 Officers

President: Terry Warnock

email: terry.dragonflyfarm@gmail.com

Vice-President: Tina Carney

email: tinalynncarney@comcast.net

Membership Secretary: Jennifer Sanders email: isaamembership@gmail.com

Treasurer: Judi Vittetoe

email: pjvittetoe@comcast.net

Recording Secretary: Stewart Marsh email: stu_marsh@hotmail.com

2018 Directors

Kathy Birnie

email: kjbirnie@gmail.com

Gail Hill

email: kalima@thehillshouse.org

2018 AKC Delegate

Pat Putman

Email: patputman42@gmail.com

Club Information

2018 Non-BOD Positions

Consultants/Past Presidents: Spike Williamson

Donna "Jamie" McDermott

Internet and ISAA Website: Kimberly Carestia http://www.icelanddogs.com

Liaison to Iceland: Maggý Pease

IS Pedigrees Website: Craig White

Newsletter: Peg Johnson

AKC Breed Column: Donna "Jamie" McDermott

ISAA/ISIC Annual Reports: Kathy Birnie/Terry Warnock

2018 Committees

Titles and Events: Kathy Birnie, Chair

Budget: Spike Williamson

Liaison to Iceland: Maggy Pease

Constitution and By Laws: Spike Williamson, Chair

Breeding Compliance and Review Committee (BRCC): Peg Johnson, Chair

email: brccc@gmail.com

Judges Education: Thordur Runolfsson, Chair

2019 National Specialty: Tina Carney, Chair

Calendar: Gail Hill, Chair

Health and Genetics: Joan Dow, Chair

Nominating: Thordur Runolfsson, Chair

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	2017 Dec. 31st	2016 Dec. 31st	2015 Dec. 31 st	2014 Dec. 31st	2013 Dec. 31st	2012 Dec. 31st	2011 Dec. 31st	2010 Dec. 31st	2009 Dec. 31 st	2008 Dec. 31st
Members	189	227	204	236	258	268	270	219	241	237
New members this year	30	38	20	48	46	51	79	25	56	81

Club Report

BOARD MEETINGS: The ISAA Board of Directors held four quarterly meetings in 2017-February, May, August and November. The minutes are posted on our club website on the About ISAA page under the meeting minutes tab. http://www.icelanddogs.com/Meeting-Minutes.html

ANNUAL MEETING: Our annual meeting was held on May 28th, 2017, as part of our National in Kalamazoo. The quorum was met. The minutes are posted on our club website as noted above.

AKC GAZETTE BREED COLUMN: We provide quarterly columns for AKC Gazette each year. Our AKC breed columnist, Jamie McDermott, contributed an article for the March issue on temperament while three guest columnists contributed our other articles. Suzanne Terrant contributed an article on lure coursing at our National for the June issue. Melo Dee Glaser contributed an article on the breed seminar at our National for the September issue. Kathy Birnie contributed an article on the Farm Dog Certification Test and its debut at our 2017 National for the December issue.

NEWSLETTER: Our Spring, Summer, Fall and Winter newsletters were distributed in March, June, August and December as Volume 18 Numbers 1-4.

NATIONAL SPECIALTY: Our 2017 National Specialty events were held May 25-29 in Kalamazoo, Michigan with the actual national specialty held on Saturday, May 27 as a concurrent specialty with International breed expert Hans-Ake Sperne as the judge. There were supported entries all 5 days. Farm Dog testing was on Thursday May 25th. Our "designated" obedience/rally day was on Friday May 26th. Peg Johnson was our show chair. Judge Sperne also offered an educational seminar on Sunday May 28th which was very well received by members and judges alike.

WEBSITE, DATABASE AND IS PEDIGREES Our webmaster and IS Pedigree person are in place and making substantial progress in revamping the ISAA website and in adding information to IS pedigrees. We anticipate that these projects will be up to date and/or completed by the end of 2018.

ISIC PINS FUNDRAISER: We made a \$200 contribution to ISIC in September from the sale of the ISIC pins.

ISAA 20th ANNIVERSARY ITEMS: 2017 marked our club's 20th anniversary. We distributed 20th anniversary logo pins to current members to celebrate. We also sold some celebratory items that generated \$246.73 profit in 2017.

Club information

PARENT CLUB HEALTH STATEMENT: AKC asked for a new health statement defining and explaining the health testing requirements or recommendations for each breed. They asked that the statement be written for the general public who are looking at the breed for the first time and noted a format that they can post on their website. The board revised and approved a statement in keeping with our breeding guidelines posted on our website.

AKC NATIONAL CHAMPIONSHIP PARENT CLUB MEDALLIONS: We sponsored medallions for conformation, agility and obedience.

AKC SURVEY ABOUT VARIETIES: We were asked to complete a short survey to help the AKC to better understand individual breeds in order to properly propose groupings of breeds into groups. The board responded "no" to the question, "Do you believe your breed should be divided into varieties? How would you determine those varieties? size; coat color; coat type; other".

Summary

The good news is that we have made significant inroads on getting data on Icelandic Sheepdogs born in the United States into the ISIC database. We have gone from 600+ entries to 1300+ entries over the past year. This means that all of the dogs born in the United States that we are aware of have been entered with the exception of those with ancestors in Canada who are not in the ISIC database. We have been working to get those dogs entered with our Canadian partners.

Since we have made no progress on getting litter registration information from AKC, we continue to solicit information from breeders in the United States.

Estimated number of Icelandic Sheepdogs in our country

2017	2016	2015	2014	2013	2012	2011	2010
1641	1506	1398	1256	1128	1004	866	751

Comment: These numbers are taken from the AKC studbook, which was initiated in 2010 with our foundation dogs. AKC tracks litter registrations by breed and adds dogs to the studbook when they have their first litter. Our numbers here reflect the AKC calculation adding the total dogs registered each year. This number will, therefore, include deceased dogs as it is the total number of dogs AKC registered in the United States.

Litter Registrations:

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
AKC Litter Info	28	32	34	30	28	33	28	27	19	26
AKC Ave Litter Size	4.68	3.97	4.56	4.30	4.46	4.45	4.25	4.78	4.00	4.35
ISAA Litter Info	24	32	33	22	21	31	24	24	18	23
Puppies	114	127	142	90	92	146	104	115	66	102
Average Litter Size	4.75	3.97	4.30	4.09	4.38	4.71	4.33	4.79	3.67	4.43
Average inbreeding	1.83	2.97	1.81	0.87	1.29	1.09	3.47	1.64	2.92	2.09
Female puppies	51	63	71	51	31	71	55	55	34	60
Male Puppies	63	69	71	63	61	75	49	60	32	42

We are now receiving aggregate numbers of AKC registrations going back to 2008. We do not receive any identifying information and so must gather any specific litter information ourselves. We have to use that information to determine number of males and females and IC scores. Please see Appendix A and B for additional information regarding litter registrations.

Imports

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
(Iceland)		2	1	3	1	1	4	8	7	4
(Canada)		0	0	0	0	0	2	9	7	9
(Denmark)	1	0	0	1	0	0	1	1	1	0
(Norway)		0	0	0	0	0	1	2	0	0
(Sweden)		0	0	0	0	0	1	3	0	0
(Netherlands)		0	0	0	0	0	1	1	0	0
(German) y		0	2	0	0	0	1	1	1	0
(Switzerland)		0	0	0	0	0	1	1	1	0

Since we rely on self-reporting our data is incomplete.

Breeding Dogs

Male or female dogs that have reached or are close to the ISIC breeding limit, which is 35 puppies for males and 25 puppies for females, with the number of grandchildren no more than twice the number of offspring during the life of the dog.

Males					
		Birth	#	#	#
Reg. #	Dog's Name	Year	Litters	Puppies	Grandchildren
DN07514406	Alaskastadirs Korpur	2004	8	36	81
DN18776402	Arbakki Magni	2007	5	21	46
DN23596804	Enska Puck	2008	5	24	29
DN21481602	Foothills Laki	2008	8	48	55
DN15616601	Frostfyres Roskur	2006	4	18	33
DN15694301	Gerplu Spori	2003	8	37	67
DN07215701	Gunnar of Sherwood Forest	2001	8	33	15
DN14013502	Heimskauts Reike	2006	6	28	41
DN05912701	Hofshesta Gloi	2003	7	36	94
DN16111001	Isi Kaffisukkolathi	2006	2	10	37
DN15949601	Isi Kappusino	2006	2	11	98
DN08101001	Lavandels Benedikt	2004	7	33	36
DN14294102	Lonestar Ansel	2006	4	16	42
DN07173701	Loki fra Palmahaus	1993	8	28	77
DN05909701	Loki fra Sherwood	2003	9	36	95
DL75415001	Virkis Tyri	1995	6	28	79
DL91681901	Vittetoes Kutur Hjaltisson	2001	4	20	87

Females					
		Birth	#	#	#
Reg. #	Dog's Name	Year	Litters	Puppies	Grandchildren
DN06629401	Aldebaran Gryla	2001	4	17	43
DN17276401	Audurs Dimmalim	2006	4	22	41
DN21731805	Audurs Kamilla	2008	4	20	8
DN15154601	Birta	2004	3	18	65
DN05911601	Blackstar Perla	2002	6	15	52
DN07207602	Blueridge Ylfa	2004	3	19	43
DN12267404	Emerald Isle Grima	2005	4	21	52
DN02544101	Frelsi Farms Belle	2002	4	24	71
DL86572102	Istolt Aska	2001	2	14	33
DN16101111	Lavandels Kyssa	2006	3	17	38
DN242740005	Lavandels Vera	2008	4	24	25
DN24736402	Pinnacle Brook Elska	2009	4	18	29
DN07804901	Thordunu Kria	2004	3	19	43
DN23549302	Valhalla's Heart O'Gold	2008	4	19	49

Other Breeding Statistics

Unique Dogs Use	ed in B	reedir	ng							
Statistics provided by AKC	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Unique Bitches Bred	26	18	26	28	30	26	28	33	31	28
Unique Dogs Bred	21	17	12	23	28	24	27	29	27	24
Total Dogs Bred	47	35	38	51	58	50	55	62	58	52

Health Summary

The Icelandic Sheepdog Association of America (ISAA) joins the country of origin, other recognized breed clubs and the Icelandic Sheepdog International Cooperation (ISIC) to work together to protect and maintain breed health. This includes encouraging health testing and sharing results in the Orthopedic Foundation for Animals (OFA) registry as participating in studies and research. Additionally, contributing to the Canine Health Information Center (CHIC) DNA Repository, co-sponsored by the OFA and the AKC/Canine Health Foundation (CHF) is encouraged as they collect and store canine DNA samples along with corresponding genealogic and phenotypic information to facilitate future research and testing aimed at reducing the incidence of inherited disease in dogs.

Hip Dysplasia (HD)

Two methods of hip testing are done in the United States: PennHip and OFA.

PennHip: This method recommends breeding only dogs with an above average score, so starting at the 60th percentile is recommended. The scores that correlate with the different percentiles may change as genetic progress is made from one generation to the next, moving the breed average towards tighter hips.

PennHip	2016*	2015	2014	2013	2012	2011	2009	2007
Total Dogs Tested	200	404	404	404	475	407	407	00
(cumulative)	206	191	191	181	175	167	137	96
Minimum Score (tightest hips)	0.22	0.24	0.24	0.24	0.24	0.24	0.25	0.25
Maximum Score (loosest hips)	0.96	0.96	0.96	0.96	0.96	0.96	0.94	0.83
25th percentile	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
50th percentile	0.52	0.53	0.53	0.53	0.53	0.53	0.53	0.50
60th percentile	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.47
75th percentile	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44

^{*}Numbers provided from PennHip through 8/16.

Orthopedic Foundation for animals (OFA): According to OFA "The <u>phenotypic</u> evaluation of hips done by OFA falls into seven different categories. Those categories are Normal (Excellent, Good, Fair), Borderline, and Dysplastic (Mild, Moderate, Severe). Once each of the radiologists classifies the hip into one of the 7 phenotypes above, the final hip grade is decided by a consensus of the 3 independent outside evaluations."

OFA HD (HIP DYSPLASIA) STATISTICS:

CUMULATIVE RESULTS THROUGH DECEMBER 31ST 2017

All Data					Born 2011-2015			
<u>Breed</u>	Rank	Number of Evaluations	Percent Excellent	Percent Dysplastic			Percent Dysplastic	
Icelandic Sheepdog	53	548	12.8	17.9	246	13.8	15.9	

2017 OFA HD (Hip Dysplasia) Test Results

Total Dogs Tested	61
Excellent	15
Good	37
Fair	5
Mild	2
Mild Unilateral Left	1
Mild Unilateral Right	1

HD (Hip Dysplasia) Comparison of Various Testing Measures: (Provided by OFA)

OFA	FCI (European)	BVA (UK/Australia)	SV (Germany)
Excellent	A-1	0-4 (no > 3/hip)	Normal
Good	A-2	5-10 (no > 6/hip)	Normal
Fair	B-1	11-18	Normal
Borderline	B-2	19-25	Fast Normal
Mild	С	26-35	Noch Zugelassen
Moderate	D	36-50	Mittlere
Severe	Е	51-106	Schwere

Hip Dysplasia (HD)

Total number of					
x-rayed dogs	2017	2016	2015	2014	2013
A (OFA Excellent	52	42	39	33	40
and OFA Good)					
B (OFA Fair and	5	10	2	11	8
OFA Borderline)					
A+B	57	52	41	44	48
C (OFA Mild)	4	3	1	4	4
D (OFA Moderate)	0	0	0	0	0
E (OFA Severe)	0	1	0	0	0
C+D+E	4	4	1	4	4
In total	61	56	42	48	52

Further comments: We also have dogs tested with the PennHIP method but they are not included in this calculation.

Eye Examinations

There are eye diseases in the dog for which there is evidence of a genetic or heritable cause. The American College of Veterinary Ophthalmologists has listed ten of these diseases as automatic "fails" (this means the affected dog is ineligible to receive an eye certification) because of the significance of the condition to vision and/or the very strong evidence of heritability. These are conditions which frequently result in blindness and for which there is definite evidence of heritability in one or more breeds.

*Note: The prudent approach to these disorders is to assume they are hereditary except in cases specifically known to be associated with trauma, other causes of ocular inflammation, specific metabolic diseases or nutritional deficiencies.

- 1. Keratoconjunctivitis sicca (KCS) Breeding is not recommended for any animal demonstrating keratitis consistent with KCS. See above note.
- 2. Cataract Breeding is not recommended for any animal demonstrating partial or complete opacity of the lens or its capsule unless the examiner has also checked the space for "significance of above cataract unknown" or unless specified otherwise for the particular breed. See above note.
- 3. Lens luxation or subluxation See above note.
- 4. Glaucoma See above note.
- 5. Persistent hyperplastic primary vitreous (PHPV)
- 6. Retinal detachment See above note.
- 7. Retinal dysplasia geographic or detached forms See above note.
- 8. Optic nerve coloboma
- 9. Optic nerve hypoplasia
- 10. Progressive Retinal Atrophy (PRA) Breeding is not advised for any animal demonstrating bilaterally symmetric retinal degeneration (considered to be PRA unless proven otherwise).

OFA EYE EXAMINATION STATISTICS 2017

TOTAL DOG	S EXAMINED 2017	120					
TOTAL NOR	TOTAL NORMAL						
0	normal globe	108	90.0%				
TOTAL WITI	H DIAGNOSIS	12					
EYELIDS							
25.11	distichiasis	1	0.8%				
UVEA							
93.71	persistent pupillary membranes, iris to iris	2	1.7%				
93.75	93.75 persistent pupillary membranes,						
	lens pigment foci/no strands						
LENS							
100.21	cataract, significance unknown	2	1.7%				
100.301	punctate cataract, anterior cortex	1	0.8%				
100.321	incomplete cataract, anterior cortex	1	0.8%				
100.322	100.322 incomplete cataract, posterior cortex						
900.1	other, not inherited	5	4.2%				

Please see Appendix C for OFA Cumulative Eye Examination Statistics.

Eye examinations

Total number of					
dogs tested	2017	2016	2015	2014	2013
Unaffected					
signifies (free)	108				
Hereditary					
Cataract	1				
Cornea Distrophe					
	0				
Distichiatis					
	1				
Others					
(See above chart)	10				
In total	120				

OFA DISEASE DATABASE STATISTICS:

Cumulative (Total) Evaluations through December 2017

Registry	Rank	Evaluations	Abnormal	Normal	Carrier	Equivocal
ADVANCED CARDIAC		2	0.0%	100.0%	0.0%	0.0%
BAER HEARING TEST		11	18.2%	81.8%	0.0%	0.0%
CARDIAC		16	0.0%	93.8%	0.0%	6.3%
DEGENERATIVE MYELOPATHY		1	0.0%	100.0%	0.0%	0.0%
DENTITION DATABASE		21	14.3%	85.7%	0.0%	0.0%
ELBOW	125	153	0.0%	100.0%	0.0%	0.0%
EYES	121	526	0.8%	99.2%	0.0%	0.0%
HIPS	53	548	17.9%	80.7%	0.0%	1.5%
MULTIPLE DRUG RESISTANCE (MDR1)		1	0.0%	100.0%	0.0%	0.0%
PATELLA		9	11.1%	88.9%	0.0%	0.0%
SHOULDER		1	0.0%	100.0%	0.0%	0.0%
THYROID		11	0.0%	100.0%	0.0%	0.0%

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Elbow dysplasia (ED):

14 dogs were tested in 2017. All had normal results. **C**umulatively, 153 dogs have been tested. All results normal.

Patella luxation:

No dogs were tested in 2017. Nine dogs have been tested in previous years. 11.1% were abnormal. 89.1% had normal results.

Health, optional testing

Two dogs were tested for the dentition database in 2017. Both had full dentition. One dog had an advanced cardiac test in 2017. Results were normal.

AKC Titles of Record

The AKC provides the club with a list of New Titles of Record each month. In 2017, approximately 186 titles were awarded to ISAA-member dogs. These titles were for conformation, agility, rally, herding, lure-coursing, barn hunt, therapy dog, canine good citizen trick dog, Farm Dog Certification test, dock divingand obedience.

Member dogs also earn titles in other clubs and venues, such as United Kennel Club and the International All-Breed Canine Association, but the club relies on self-reporting by members for these titles.

ISAA Sponsored Shows

	2017	2016	2015	2014	2013	2012	2011	2010	2009
Number of shows	6	2	1	4	2	1	2	0	1
Number of dogs	287	68	36	46	51	8	33		35
In total (dogs)	287	68	36	46	52	8	33		35

ISAA Sponsored Events for 2017

February 11 AKC Meet the Breed, Pier 92, NYC, NY

May 25 - 28 ISAA National Specialty, Kalamazoo, MI

- ♦ Thursday, May 25 Farm Dog Certification Test
- ♦ Friday, May 26 Judges Education
- ♦ Saturday, May 27 Specialty Sweepstakes & Conformation,
- ♦ Sunday, May 28 Educational Seminar, Club Banquet and Auction
- ◆ Sunday, May 28 Annual Meeting, Kalamazoo, MO

May 25	Supported Entry Pontiac Kennel Club, Kalamazoo, MI
May 26	Supported Entry Holland Michigan Kennel Club, Kalamazoo, MI
May 27	Supported Entry Grand Rapids Kennel Club, Kalamazoo, MI
May 28	Supported Entry Kalamazoo Kennel Club, Kalamazoo, MI
May 29	Supported Entry Greater Muskegon Kennel Club, Kalamazoo, MI

Other Events of Note

February 13 Westminster Kennel Club

December 17 AKC/Eukanuba National Championship

December 15-17 AKC Agility Invitational

Mentality descriptions: We do not have results for mentality testing in the United States. We did have 10 dogs who earned some form of canine good citizen title as well as seven who earned a farm dog title and 3 who received a therapy dog title.

Working abilities (herding) descriptions: We do not have results for herding in the United States. One dog did receive a herding tested title in 2017.

Appendix

Appendix A: Litters

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Litters	28	32	34	30	28	33	28	27	19	26	27	30	18	18	10
Puppies	131	127	155	129	125	147	119	129	76	113	125	130	97	81	47
Average litter size	4.68	3.97	4.56	4.3	4.46	4.45	4.25	4.78	4	4.35	4.63	4.3	5.4	4.5	4.7
Average inbreeding %	(24) 1.83	(32) 2.97	(33) 1.81	(27) 0.87	(21) 1.29	(31) 1.09	(24) 3.47	(24) 1.64	(18) 2.92	(23) 2.09					

Note: For the years 2003 through 2007, the numbers are numbers counted by our ISAA breeding committee. From 2008 through the present, the numbers are those counted by AKC. We started calculating IC scores in 2008. They are based on the litters we captured (in parentheses) rather than the full AKC numbers, which are a bit higher.

Appendix B: 2017 Litter Information

	Date	Sire	Dam	F	М	Total	IC%
1	15-Jan	Gypsy Wind's Undri	Haustlita's Birgitta Orradottar	3	3	6	2.59
2	10-Apr	Kross Gola Kelinn	Elva Aus Vinkona	2	3	5	1.71
3	7-Apr	McEremons Sako of Arcticridge	Kross Gola Enja of Arcticridge	3	2	5	2.00
4	28-Apr	Arcticridge Barret	Mceremon's Heart Breaker	4	3	7	6.93
5	3-May	Hasten Heartbreaker	Tri-Star Leika	2	4	6	0.78
6	9-May	Stokk-Sels Bjorn Bangsi	Arbakki Sigga	6	2	8	0.00
7	12-May	Runamuck Himna Arkturus	Kanina-Alspora Fra Kerlingarfjoll	0	5	5	0.20
8	3-Jun	Mceremons Crown of Thorns	Brosandi Tryna Snorrasdottir	2	2	4	0.39
9	5-Jul	Tri-Star Gander	Tri-Star Elly	4	1	5	0.00
10	14-Jul	Fox Meadow Thora Kari	Brosandi Svara Snorrasdottir	2	5	7	0.78
11	24-Jul	Isneista Fjari	Bayshore Katla of Avatar	0	4	4	2.15
12	10-Aug	Brosandi Thorbjorn Snorrason	Lappevennens Runa Embla	2	3	5	0.20
13	14-Aug	Isneista Alspora Snati of Bayshoi	Blackstar Lotta	1	3	4	0.15
14	4-Sep	Isneista Alspora Snati of Bayshor	Caradoc's Wicked	3	2	5	0.76
15	14-Sep	Hidow Thrymheim Tryggur	Tri-Star Kalla	4	0	4	0.49
16	1-Oct	Mceremons Sako of Arcticridge	Mceremons Rosa	1	3	4	14.36
17	14-Oct	Runestone Gammur	Fox Meadow Himintelgja Gunnars		5	6	2.69
18	21-Oct	Nordic Gold Araedinn Vallari	Iseyjar Mjoll	3	1	4	0.00
19	5-Dec	Stubborn Elm's Oskasteina Skipt	McEremons Rose Garden	0	4	4	3.13
20	21-Dec	Lagsi Fra Olafsfjordur	Kanina-Alspora Fra Kerlingarfjoll	2	0	2	0.00
21	5-Feb	Enska Puck Of Caradoc	Caradoc's Wicked	1	3	4	1.51
22	15-Feb	Fagrahvamms Njordur	Gantoppas Flipa	2	2	4	2.34
23	3-Jun	Stokk-Sels Vinur	Sand Creek Kaffon	2	2	4	0.78
24	2-Jul	Solsteinn Keisari At Whitetail	Stokk-Sels Lauffey	1	1	2	0.00
				51	63	114	1.83
		2017 Litter Information for USA E	Born Litters				
		Number of Litters				24	
		Number of Female Puppies				51	
		Number of Male Puppies				63	
		Total Number of Puppies				114	
		Average Litter Size				4.75	
		Average 5 Gen Inbreeding Co-Ef	ficient			1.83	

Appendix C: Cumulative OFA EYE STATISTICS Through (2/1/2018)

3 () .	•	1991	-99	2000-	09	2019-1	.6	2017	
TOTAL DOGS EXAMI	NED	23		865		1206		120	
EYELIDS									
24	entropion,								
21	unspecified	0		5	0.6%	0		0	
25.11	distichiasis	1	4.3%	9	1.0%	8	0.7%	1	0.8%
CORNEA									
70.22	pigmentary keratitis	0		0		1	0.1%	0	
70.7	corneal dystrophy	0		2	0.2%	7	0.6%	0	
UVEA		•		_			0.0,1	-	
93.11	iris hypoplasia	0		0		2	0.2%	0	
55.11	persistent pupillary	U		U		2	0.276	U	
93.71	membranes, iris to								
	iris	0		55	6.4%	53	4.4%	2	1.7%
	persistent pupillary								
93.72	membranes, iris to								
	lens	0		1	0.1%	0		0	
	persistent pupillary								
93.73	membranes, iris to	_		_		_		_	
	cornea	0		3	0.3%	0		0	
93.75	persistent pupillary	^		0		1	0.10/	1	0.00/
	membranes, lens pigment foci/no	0		0		1	0.1%	1	0.8%
	strands								
LENS	stranus								
LLIVS	cataract, significance								
100.21	unknown	2	8.7%	14	1.6%	37	3.1%	2	1.7%
100 004	punctate cataract,								
100.301	anterior cortex	0		0		5	0.4%	1	0.8%
100.302	punctate cataract,								
100.302	posterior cortex	0		1	0.1%	4	0.3%	0	
100.303	punctate cataract,								
	equatorial cortex	0		1	0.1%	0		0	
100.304	punctate cataract,	^		0		1	0.10/	0	
	anterior sutures	0		0		1	0.1%	0	
100.305	punctate cataract, posterior sutures	0		0		9	0.7%	0	
	incipient cataract,	U		U		,	0.770	U	
100.311	anterior cortex	1	4.3%	0		2	0.2%	0	
400 242	incipient cataract,								
100.312	posterior cortex	1	4.3%	3	0.3%	10	0.8%	0	
100.313	incipient cataract,								
100.515	equatorial cortex	1	4.3%	1	0.1%	1	0.1%	0	
100.315	incipient cataract,								
	posterior sutures	0		4	0.5%	4	0.3%	0	
100.317	incipient cataract,	^		4	0.40/	4	0.10/	0	
	capsular	0		1	0.1%	1	0.1%	0	

Appendix

100.321	incomplete cataract, anterior cortex	0		0		1	0.1%	1	0.8%
100.322	incomplete cataract, posterior cortex	0		0		3	0.2%	1	0.8%
100.33	generalized/complete cataract	0		1	0.1%	0		0	
VITREOUS									
110.12	persistent hyaloid artery/remnant	0		1	0.1%	2	0.2%	0	
110.32	vitreous degeneration syneresis	0		1	0.1%	3	0.2%	0	
RETINA	•								
120.17	retinal dysplasia, folds	1	4.3%	7	0.8%	1	0.1%	0	
120.18	retinal dysplasia, geographic	0		1	0.1%	0		0	
120.31	generalized progressive retinal atrophy (PRA)	0		0		1	0.1%	0	
OPTIC NERVE									
130.15	optic disc coloboma	0		0		2	0.2%	0	
OTHER									
900	other, unspecified	0		9	1.0%	16	1.3%	0	
900.1	other, not inherited	0		31	3.6%	33	2.7%	5	4.2%
900.11	other, suspected as inherited	0		1	0.1%	0		0	
NORMAL									
0	normal globe	18	78.3%	805	93.1%	1075	89.1%	108	90.0%