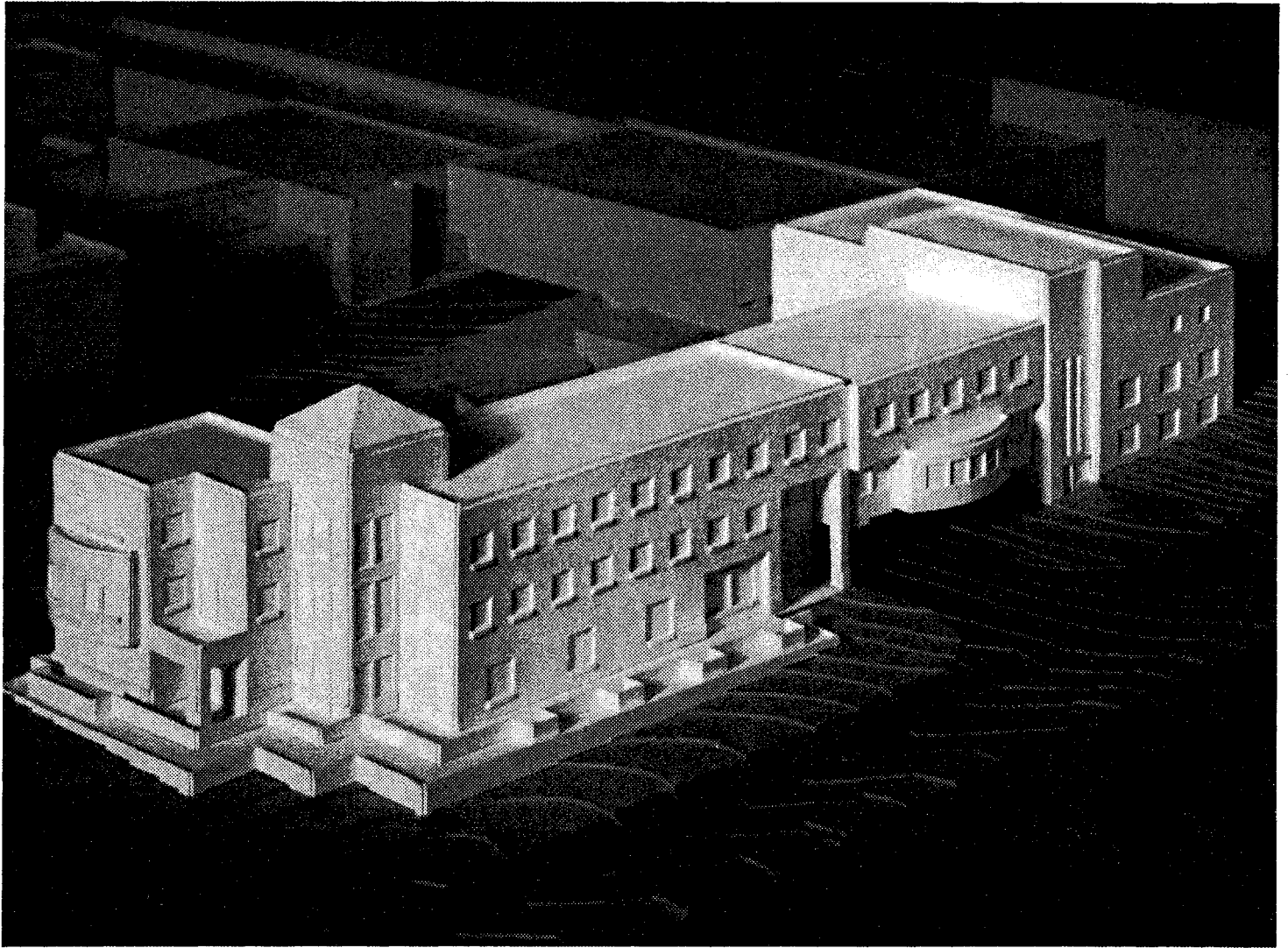


Annual Report of the Minnesota Veterinary Diagnostic Laboratory – 1991

Animal Health in Minnesota



UNIVERSITY OF MINNESOTA

Miscellaneous Publication 73 – 1991
Minnesota Agricultural Experiment Station

Animal Health in Minnesota

**Annual Report of the Minnesota
Veterinary Diagnostic Laboratory
1991**

**Department of Veterinary Diagnostic Medicine
College of Veterinary Medicine
University of Minnesota**

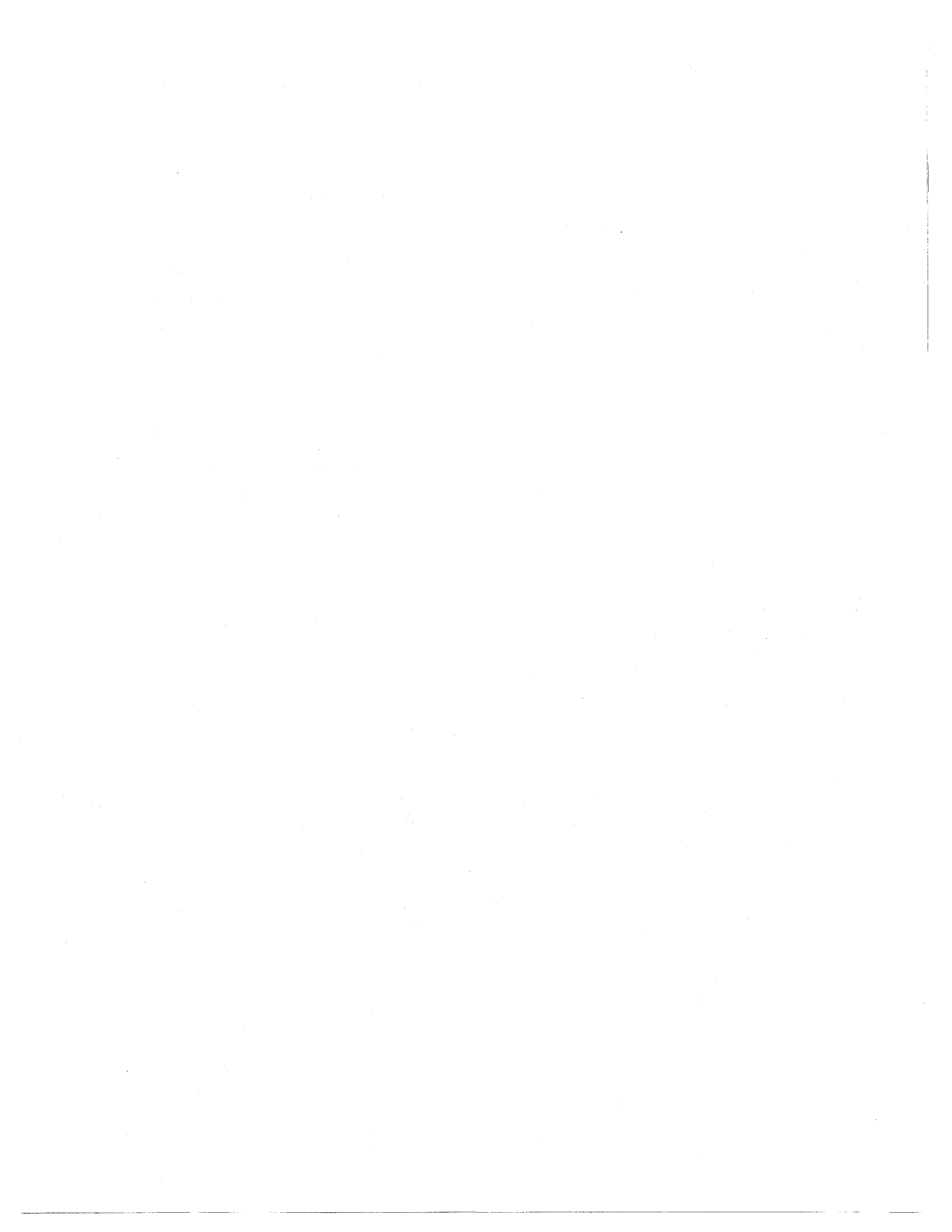
and

The Minnesota Board of Animal Health

**Miscellaneous Report 73-1991
Minnesota Agricultural Experiment Station
University of Minnesota**

St. Paul, Minnesota

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FOREWORD

This report is a summary of activities of the Minnesota Veterinary Diagnostic Laboratory for July 1, 1990 - June 30, 1991. Its main purpose is to provide a record of the animal diseases for which diagnostic assistance was requested by veterinary practitioners and animal owners. The information presented here in brief summary is maintained in a computer-based data system, which enables analysis of the information to monitor changing patterns of animal disease and to detect new animal health problems as they emerge.

The Veterinary Diagnostic Laboratory was established in 1904 in the Agricultural Experiment Station of the University of Minnesota to satisfy the need for accurate diagnosis of animal diseases that threaten Minnesota's livestock and poultry industries, wildlife and human health. As the official laboratory of the Minnesota Board of Animal Health, it provides laboratory support to the state's animal disease control programs.

The laboratory was integrated with the College of Veterinary Medicine in 1947. In 1982, the Department of Veterinary Diagnostic Investigation was established in the College. The faculty and staff of the department maintain a diagnostic medical program that is focused on public service, but with an appropriate balance of research and education. The department also has provided diagnostic services for the Minnesota Racing Commission since 1985.

Many people from all departments of the college participate in the diagnostic medical program. Among the contributions of collaborating faculty and staff are clinical chemistry, cytology, hematology, endocrinology, cytogenetics, immunopathology, urolith analysis, dermatopathology, parasitology, avian microbiology, avian health consultation and porcine microbiology.

The 1990 Minnesota Legislature authorized \$7.9 million to construct a new addition to the Laboratory. The ground breaking ceremony was held June 6, 1991 and construction began on June 8. The completed project will meet essential health and safety requirements and allow the program to be evaluated for full accreditation by the American Association of Veterinary Laboratory Diagnosticians.

Acknowledgement is given to Mary Thurn and Dr. James Collins for compiling the data for the report, and to Larry Etkin of Educational Development System for editorial assistance.

Martin E. Bergeland
Director

Correspondence related to this publication, to the Department or to the Veterinary Diagnostic Laboratory should be addressed to: Minnesota Veterinary Diagnostic Laboratory, University of Minnesota, 1943 Carter Avenue, St. Paul, MN 55108, Phone: 612-625-8787

**Department of Veterinary Diagnostic Medicine
College of Veterinary Medicine
University of Minnesota**

DEPARTMENTAL MISSION

The faculty and staff of the Department have the following responsibilities ranked in order of priority.

1. Help reduce loss from disease in Minnesota's livestock, poultry, wildlife, and companion animals and help protect the public health by providing accurate and timely discipline-related animal health diagnostic services through the Minnesota Veterinary Diagnostic Laboratory, and by providing official laboratory services for the Minnesota Board of Animal Health and the Minnesota Racing Commission.
2. Teach veterinary students the principles of diagnostic medicine and prepare them to utilize the Diagnostic Laboratory as a resource for diagnostic assistance and continuing education throughout their professional careers.
3. Advance knowledge in veterinary medicine by conducting animal health research and communicating the results through publications in scientific journals and presentations at scientific meetings.
4. Provide continuing education for veterinary practitioners and animal owners by consultation, diagnostic investigation, and participation in continuing education programs of professional organizations and the College of Veterinary Medicine.
5. Prepare students for a career in diagnostic medicine through residency and graduate training programs.
6. Support other programs of the University by providing various laboratory services for the Veterinary Teaching Hospital, research projects, and other University departments.
7. Serve the veterinary profession by participating in local, state, national, and international professional organizations and by providing consultation to local, state and federal governments.
8. Serve the University community through committees and other activities.

Approved by the VDI faculty December 19, 1985

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Personnel

Martin E. Bergeland, DVM, PhD (ACVP)	Director, Department Chair
Donald M. Barnes, DVM, PhD (ACVP)	Professor
Harold J. Kurtz, DVM, PhD (ACVP)	Professor
Glen H. Nelson, DVM	Professor, Assistant Chair
George R. Ruth, DVM, PhD (ACVP)	Professor
Ronald E. Werdin, DVM, PhD	Professor
James E. Collins, DVM, PhD (ACVP)	Associate Professor
Lawrence J. Felice, MS, PhD	Associate Professor
Sagar M. Goyal, BVSc, PhD (SM-AAM)	Associate Professor
Ashok K. Singh, MS, PhD	Associate Professor
Michael J. Murphy, DVM, PhD (ABVT)	Assistant Professor
Daniel P. Shaw, DVM, PhD (ACVP)	Assistant Professor
Sanjay Kapil, MVSc	Research Assistant
Khalid Naeem, DVM, MS	Research Assistant
Lance Buoen, BA	Senior Scientist
Diane Cook, DVM, MS	Scientist
Kem Pomeroy, BS, PhD	Scientist
Jerome Fahrman, BS	Sr. Med. Tech./Sr. Cl. Lab. Tech.
Mildred Hakomaki, BS, MT (ASCP)	Sr. Med. Tech./Sr. Cl. Lab. Tech.
Mary Ito, BS, MT (ASCP)	Med. Tech./C. Lab. Tech.
Tom Arendt, BS	Junior Scientist
Pin King, BS, MS	Junior Scientist
Usha Mishra, BS, MS	Assistant Scientist
Douglas Chech, CLT	Principal Laboratory Technician
Elizabeth Ellert, CLA	Principal Laboratory Technician
Kae Granley	Principal Laboratory Technician
Christine Johnston, HT	Principal Laboratory Technician
Londa Kroone, CLA	Principal Laboratory Technician
Traci Laughlin, BS	Principal Laboratory Technician
Cynthia Lindeman, BS	Principal Laboratory Technician
Beth Lokensgard, BA	Principal Laboratory Technician
Beverly Morin, VT	Principal Laboratory Technician
Karen Olsen, BS	Principal Laboratory Technician
Karen Roy, BS	Principal Laboratory Technician
Christopher Thurn, BA	Principal Laboratory Technician
Deb Bell	Senior Laboratory Technician
Judith Brees	Senior Laboratory Technician
Alan Ducommun, BA	Senior Laboratory Technician
James Glenn, B.S.	Senior Laboratory Technician
Tanda Gretz, BA	Senior Laboratory Technician
Cheryl Oeljenbruns, BS	Senior Laboratory Technician
Ann Pohl, CVT	Senior Laboratory Technician
Rebecca White, BA	Laboratory Technician
Jennifer Heath, BS	Junior Laboratory Technician
Yin Jiang, BS, MS	Junior Laboratory Technician
Anita Franson, AHT	Laboratory Animal Care Technician
Ron Joki, BA	Laboratory Animal Care Technician
Richard Roback, AA	Laboratory Animal Care Technician
Connie Strand, BS, MA	Accounts Supervisor
Jean Paavala	Senior Accounts Specialist
Gayle Anderson	Senior Accounts Assistant
Richard Combs	Senior Accounts Assistant
Kimberly Lueck, BS	Senior Accounts Assistant
Brenda Juvrud, AA	Senior Accounts Assistant
Blanche Washington	Senior Accounts Assistant
Mary Thurn	Executive Secretary
Janelle Gerlach	Senior Secretary

Personnel (continued)

Bonnie Gagne	Senior Secretary
Jeri Walseth, BS	Senior Secretary
Patricia Smith, AA	Office Specialist
Dorene Coles	Senior Office Assistant
Toni Adams	Office Assistant

Student Assistants

Maryann Anderson	Student Laboratory Technician
Xiaoqin Chen	Student Junior App. Programmer
Mark Christenson	Student Laboratory Technician
Erik Danley	Student Office Assistant
Mark Debner	Student Laboratory Technician
Trisha Delhamer	Student Laboratory Technician
Katie Dettman-Jones	Student Senior Laboratory Technician
Shawn Eliason	Student Laboratory Technician
Jane Goggin	Student Laboratory Technician
Vipin Goyal	Student Laboratory Attendant
Samantha Heffron	Student Laboratory Attendant
Janet Helms	Student Laboratory Technician
Esther Hope	Student Senior Laboratory Technician
Iftikhar Hussain	Graduate Student Laboratory Attendant
Yin Jiang	Student Laboratory Technician
Debora Johnson	Student Junior App. Programmer
Daniel Keil	Student Laboratory Technician
Scott Likely	Student Laboratory Attendant
Brent Megarry	Student Laboratory Technician
Khalid Naeem	Student Laboratory Attendant
Robert Orr	Student Laboratory Animal Technician
K. Radmanesh	Student Laboratory Technician
Gurdial Randhawa	Student Laboratory Attendant
Tracy Rubietta	Student Laboratory Technician
Paul Sorenson	Student Office Assistant
David Stagg	Student Office Assistant
Li-Ping Tang	Student Senior Laboratory Technician
Terri Tyson	Student Laboratory Technician
Lisa Udland	Student Laboratory Attendant
My Vu	High School Apprentice
Phillip Wahlberg	Student Laboratory Technician
Thomas White	Student Laboratory Technician
Tingqing Zhang	Student Senior Laboratory Technician

Accessions by Month			
July	3,505	February	3,472
August	3,836	March	3,937
September	3,189	April	4,346
October	3,384	May	4,278
November	2,929	June	4,297
December	2,614		
January	3,634	FY 1991 Total	43,421

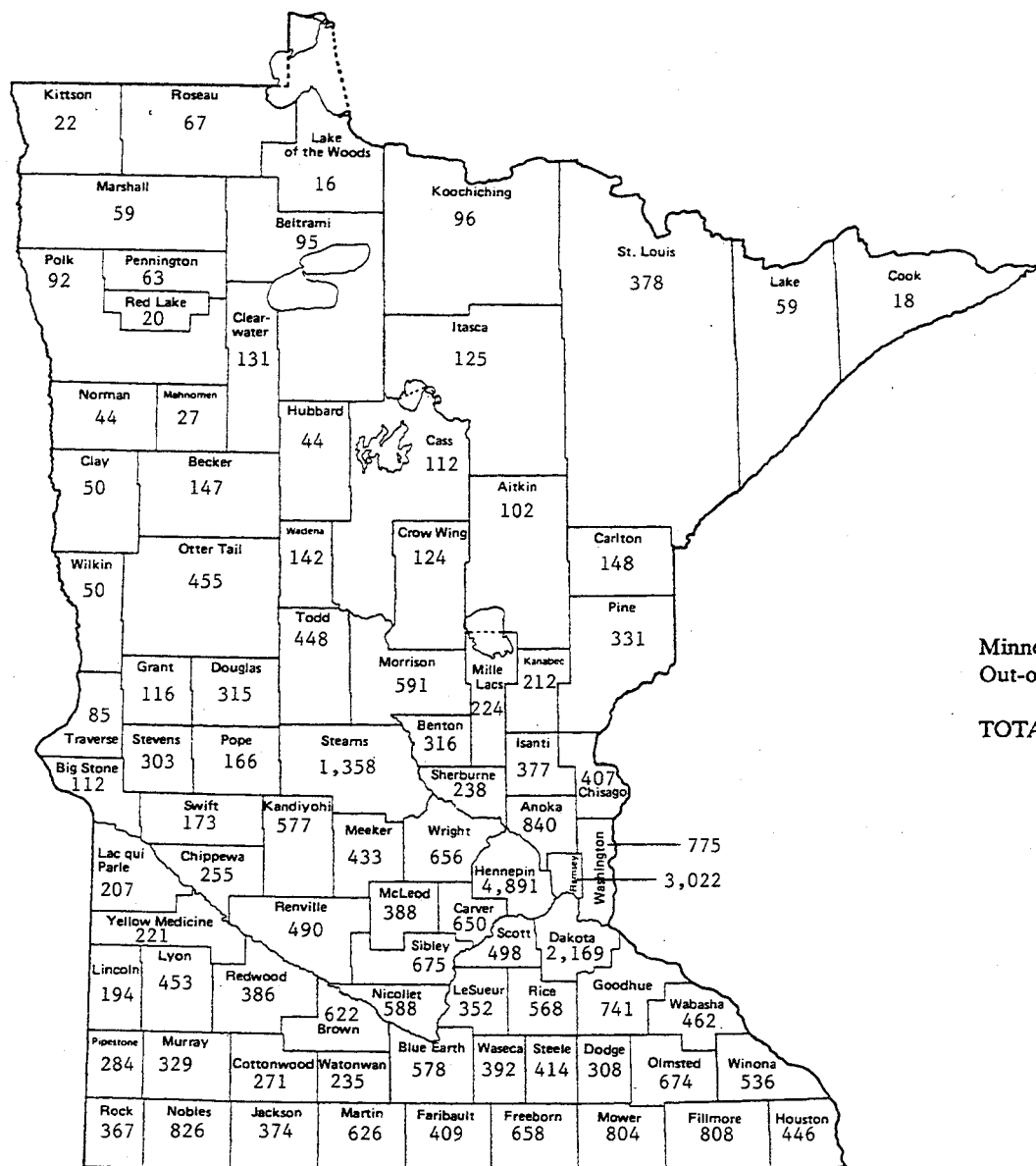
Accessions - Prior Fiscal Years			
1960	3,277	1975	7,593
1961	3,450	1976	8,782
1962	3,285	1977	8,953
1963	2,635	1978	10,591
1964	4,225	1979	12,803
1965	2,635	1980	14,668
1966	3,166	1981	15,580
1967	3,680	1982	18,064
1968	4,581	1983	20,668
1969	5,552	1984	20,184
1970	6,451	1985	22,836
1971	6,926	1986	21,748
1972	7,951	1987	24,390
1973	10,527	1988	30,899
1974	8,635	1989	35,233
		1990	37,093

Accessions by Species by Month

Species	July	August	September	October	November	December	January
Avian- Chicken	10	11	7	15	13	12	25
Avian- Miscellaneous	67	46	46	50	78	52	46
Avian- Turkey	17	27	28	16	8	9	23
Bovine	574	733	699	758	652	502	765
Canine	944	1,031	831	1,014	823	712	964
Caprine	19	20	31	24	2	10	8
Equine	206	219	184	165	115	67	88
Feline	255	252	195	230	225	186	261
Fish-Amphibian-Reptile	8	7	10	9	8	6	9
Miscellaneous Mammal	120	154	115	118	113	77	86
Miscellaneous Specimen	4	8	12	5	7	8	12
Ovine	33	29	18	16	19	18	24
Porcine	1,248	1,299	1,013	964	866	955	1,323
TOTAL	3,505	3,836	3,189	3,384	2,929	2,614	3,634

Species	February	March	April	May	June	Total	Percent Total
Avian- Chicken	20	27	17	18	18	193	0.4
Avian- Miscellaneous	38	56	34	57	59	629	1.4
Avian- Turkey	15	19	22	8	26	218	0.5
Bovine	702	736	636	592	522	7,871	18.1
Canine	866	880	1,023	1,082	952	11,122	25.6
Caprine	16	19	9	22	22	202	0.5
Equine	117	190	245	268	177	2,041	4.7
Feline	201	218	234	233	266	2,756	6.3
Fish-Amphibian-Reptile	13	10	4	7	6	97	0.2
Miscellaneous Mammal	68	111	127	130	128	1,347	3.1
Miscellaneous Specimen	9	9	20	7	14	115	0.3
Ovine	32	27	33	18	24	291	0.7
Porcine	1,375	1,635	1,942	1,836	2,083	16,539	38.1
TOTAL	3,472	3,937	4,346	4,278	4,297	43,421	100.0

Accessions by County



Minnesota Total 38,910
 Out-of-State Total 4,511

TOTAL: 43,421

OUT OF STATE:

Alaska	29	Indiana	58	New Hampshire	15	Tennessee	3
Arizona	5	Iowa	920	New Jersey	1	Texas	7
Arkansas	6	Kansas	71	New York	6	Utah	2
California	27	Kentucky	1	North Carolina	9	Vermont	55
Colorado	32	Maryland	2	North Dakota	82	Virginia	11
Connecticut	4	Massachusetts	4	Ohio	62	Washington	3
Florida	14	Michigan	64	Okalahoma	39	West Virginia	2
Georgia	2	Missouri	72	Oregon	1	Wisconsin	2,297
Hawaii	1	Montana	12	Pennsylvania	32	Wyoming	2
Idaho	3	Nebraska	40	South Carolina	5		
Illinois	156	Nevada	2	South Dakota	263		

INTERNATIONAL: Canada 89

Disease Diagnoses by Animal Species

Diagnoses for each animal species are listed in alphabetical order under various organ systems, which are arranged as follows in accordance with *Standard International Veterinary Nomenclature*:

- 0 Body as a Whole (multisystemic diseases and all toxicoses)
- 1 Integumentary (including mammary gland)
- 2 Musculoskeletal
- 3 Respiratory (including nasal passages)
- 4 Cardiovascular
- 5 Hemic and Lymphatic
- 6 Digestive (including lip, oral structures, liver, and pancreas)
- 7 Urogenital (including prepuce, scrotum, and vulva)
- 8 Endocrine
- 9 Nervous
- X Special Senses (including eyelid and pinna)

*NOS = Not otherwise specified

 AVIAN

CHICKEN	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>0 Body as a Whole</u>													
Anomaly	1	1	-	-	-	-	-	-	-	-	-	-	-
Cannibalism	3	-	-	-	-	-	-	-	1	1	-	1	-
Dehydration	1	-	-	-	1	-	-	-	-	-	-	-	-
Effusion, Peritoneal	3	-	-	-	-	-	-	-	-	-	-	1	2
Emaciation	3	-	-	-	-	1	1	-	-	-	-	-	1
Gout	10	-	1	-	2	-	1	2	1	1	2	-	-
Health Evaluation, Normal	11	-	-	-	-	1	1	6	-	1	-	1	1
Marek's Disease	6	-	1	-	-	1	-	1	-	1	1	1	-
Mortality, Increased	3	1	-	-	-	-	-	-	1	-	-	-	1
Mycotoxicosis, Zearalenone	1	-	-	-	-	-	-	-	-	-	-	-	1
Obesity	2	-	-	-	-	-	1	-	1	-	-	-	-
Peritonitis	7	1	-	-	2	1	1	-	-	1	-	-	1
Peritonitis, Egg Yolk	13	-	-	-	1	1	2	3	-	-	4	2	-
Septicemia, Erysipelothrix	1	-	-	-	-	-	-	-	-	1	-	-	-
Septicemia, <i>Escherichia coli</i>	3	-	1	-	-	-	-	-	-	-	-	-	2
Septicemia, <i>Pasteurella hemolytica</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Septicemia, <i>Pasteurella multocida</i>	2	-	-	-	-	-	1	-	1	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	6	1	-	-	-	1	-	1	-	1	-	1	1
Septicemia, <i>Staphylococcus sp.</i>	4	-	-	-	-	-	-	-	1	-	2	-	1
Septicemia, <i>Streptococcus sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Sudden Unexpected Death	3	-	-	-	-	-	-	-	-	1	1	-	1
Virus Infection, Pox	4	-	-	-	1	-	1	-	1	-	-	1	-
Weakness	1	-	-	-	-	-	1	-	-	-	-	-	-
Yolk Sac Infection	3	1	-	-	-	-	-	-	-	2	-	-	-
<u>1 Integumentary</u>													
Cellulitis	4	-	-	-	-	-	-	-	1	1	1	1	-
Feather Loss	1	-	-	-	-	-	-	1	-	-	-	-	-
Parasitism, Lice	1	-	-	-	-	-	1	-	-	-	-	-	-
Parasitism, Mites	1	-	-	-	-	-	-	-	-	-	-	-	1
Virus Infection, Pox	10	-	-	-	-	1	1	2	-	3	3	-	-
<u>2 Musculoskeletal</u>													
Bone-Fracture	4	-	-	-	-	-	-	1	-	-	1	2	-
Bone-Malformation	1	-	-	-	-	-	-	-	-	-	1	-	-
Bone-Osteomalacia	16	-	-	1	3	1	3	-	1	2	1	3	1
Bone-Osteomyelitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Bone-Perosis	1	-	-	-	-	-	-	-	-	1	-	-	-
Synovitis	1	-	-	-	-	-	-	1	-	-	-	-	-

CHICKEN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
3 Respiratory													
Infectious Laryngotracheitis	4	-	-	-	1	-	-	1	1	1	-	-	-
Larynx-Laryngitis	2	-	-	-	2	-	-	-	-	-	-	-	-
Sinus-Sinusitis	3	-	-	-	-	1	-	-	-	1	-	1	-
Trachea-Neoplasm (NOS)	2	-	-	-	-	-	-	-	2	-	-	-	-
Trachea-Tracheitis	19	-	1	-	4	3	2	4	1	2	-	1	1
4 Cardiovascular													
Heart-Myocarditis	1	-	1	-	-	-	-	-	-	-	-	-	-
Heart-Pericarditis	1	-	-	-	-	-	-	-	-	-	-	1	-
5 Hemic and Lymphatic													
Blood-Hemorrhage, Generalized	1	-	-	-	-	-	-	-	-	1	-	-	-
Neoplasm, Leukosis	8	-	-	-	-	1	-	1	1	1	2	2	-
6 Digestive													
Cloaca-Prolapse	7	-	-	-	-	-	1	-	3	-	1	2	-
Crop-Ingluvitis, Mycotic	1	-	-	-	1	-	-	-	-	-	-	-	-
Feces-Microbiologic Examination	3	-	1	-	2	-	-	-	-	-	-	-	-
Intestine-Enteritis, Necrotic	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Enteritis, Reovirus	1	-	-	-	-	-	-	1	-	-	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	2	-	-	1	-	-	-	1	-	-	-	-	-
Intestine-Parasitism, Coccidia	12	-	1	1	1	2	-	2	1	2	1	1	-
Intestine-Parasitism, Nematode	2	-	1	-	-	-	1	-	-	-	-	-	-
Liver-Hepatitis	3	-	-	-	1	-	-	-	-	-	-	1	1
Liver-Lipidosis	4	1	1	-	1	-	-	-	-	1	-	-	-
Stomach-Ventriculitis	2	-	-	-	-	-	-	1	1	-	-	-	-
7 Urogenital													
Egg Production Decreased	2	-	1	-	1	-	-	-	-	-	-	-	-
Kidney-Nephritis	1	-	-	-	-	-	-	-	-	1	-	-	-
Kidney-Nephrosis	17	-	1	-	1	1	2	3	2	5	2	-	-
Kidney-Urolithiasis	2	-	-	-	1	-	-	-	-	-	1	-	-
Oviduct-Impaction	1	-	-	-	-	-	-	-	-	-	-	-	1
9 Nervous													
Brain-Encephalitis, Suppurative	1	-	-	-	-	-	-	-	1	-	-	-	-
Brain-Encephalomalacia	1	-	-	-	-	-	-	-	-	1	-	-	-
Neurological Disorder, Idiopathic	2	-	1	-	-	-	-	-	-	-	-	1	-

CHICKEN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>X Special Senses</u>													
Eye-Conjunctivitis	3	-	-	-	-	2	-	-	-	-	1	-	-
Eye-Ophthalmitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Eyelid-Blepharitis	3	-	-	-	-	-	-	-	3	-	-	-	-
<hr/>													
<u>TURKEY</u>													
<hr/>													
<u>0 Body as a Whole</u>													
Obesity	1	-	-	-	-	-	-	-	-	-	-	-	1
Parasitism, <i>Histomonas sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Peritonitis	4	-	2	-	-	-	1	-	-	-	1	-	-
Peritonitis, Egg Yolk	2	-	-	-	-	-	-	-	-	-	-	-	2
Septicemia, <i>Erysipelothrix</i>	8	-	2	1	-	-	-	1	2	-	-	-	2
Septicemia, <i>Escherichia coli</i>	20	1	2	4	2	-	-	3	-	1	2	1	4
Septicemia, <i>Pasteurella hemolytica</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Pasteurella multocida</i>	17	2	2	1	3	-	1	2	1	2	1	-	2
Septicemia, <i>Salmonella sp.</i>	26	2	4	1	3	3	-	1	3	1	3	1	4
Septicemia, <i>Staphylococcus sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Starvation	3	-	-	-	-	-	-	-	-	-	3	-	-
Sudden Unexpected Death	2	-	-	-	1	-	-	1	-	-	-	-	-
Trauma	1	-	-	-	-	-	-	-	1	-	-	-	-
Tuberculosis	1	-	-	-	-	-	-	1	-	-	-	-	-
Virus Infection, Adenovirus	6	1	-	-	1	-	-	-	-	3	1	-	-
Yolk Sac Infection	2	-	-	-	-	-	1	-	-	-	-	-	1
<u>2 Musculoskeletal</u>													
Bone-Dyschondroplasia	2	-	-	-	-	-	-	-	1	1	-	-	-
Bone-Fracture	3	-	-	-	1	-	-	-	1	1	-	-	-
Bone-Malformation	1	-	1	-	-	-	-	-	-	-	-	-	-
Bone-Neoplasm	1	-	-	-	-	-	-	-	-	1	-	-	-
Bone-Osteomalacia	3	-	-	-	-	-	-	-	-	-	2	-	1
Bone-Osteomyelitis	7	-	1	1	1	1	-	-	1	2	-	-	-
Muscle-Degeneration	1	-	-	-	-	-	-	-	-	-	1	-	-
Synovium-Synovitis	2	-	-	-	1	1	-	-	-	-	-	-	-
<u>3 Respiratory</u>													
Air Sac-Airsacculitis	11	-	1	-	2	1	-	1	2	2	1	-	1
Aspergillosis	8	-	1	1	-	-	-	2	-	1	-	2	1
Lung-Congestion	1	-	-	-	-	-	-	-	-	-	-	-	1

TURKEY (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Lung-Pneumonia, Broncho	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Escherichia coli</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	2	-	-	1	1	-	-	-	-	-	-	-	-
Sinus-Sinusitis	5	-	1	1	1	1	-	-	-	-	-	-	1
Trachea-Parasitism, <i>Syngamoustrachei</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Trachea-Tracheitis	3	-	-	-	1	1	-	-	-	-	-	-	1
Trachea-Tracheitis, <i>Bordetella avium</i>	3	-	-	2	1	-	-	-	-	-	-	-	-
<u>4 Cardiovascular</u>													
Blood Vessel-Aortic Rupture	8	-	-	1	-	-	1	2	2	1	1	-	-
Blood Vessel-Hypertensive Angiopathy	11	-	-	2	1	-	1	1	1	1	3	1	-
Heart-Cardiomyopathy	3	-	-	-	-	1	-	-	1	-	1	-	-
Heart-Myocardial Degeneration	1	-	-	-	-	-	-	-	-	-	1	-	-
Heart-Pericarditis	3	-	1	2	-	-	-	-	-	-	-	-	-
Heart-Round Heart Disease	5	-	-	3	-	-	1	-	-	-	1	-	-
<u>5 Hemic and Lymphatic</u>													
Spleen-Splenitis	1	-	-	-	-	-	1	-	-	-	-	-	-
<u>6 Digestive</u>													
Crop-Ingluvitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Feces-Microbiologic Examination	2	-	-	1	-	-	-	-	-	1	-	-	-
Intestine-Enteritis, Adenovirus	2	-	-	-	1	-	-	1	-	-	-	-	-
Intestine-Enteritis, Idiopathic	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, Necrotic	2	2	-	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, Reovirus	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Enteritis, Rotavirus	26	1	7	3	1	-	2	3	-	3	2	1	3
Intestine-Enteritis, <i>Salmonella sp.</i>	11	1	1	-	-	-	2	1	1	2	-	-	3
Intestine-Enteritis, Specimen Unsuitable	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Parasitism (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Ascaris</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Parasitism, <i>Coccidia</i>	14	1	-	3	-	-	-	1	-	4	2	-	3
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	2	-	-	1	-	-	-	-	-	-	1	-	-
Intestine-Parasitism, Nematode	1	-	-	-	1	-	-	-	-	-	-	-	-
Liver-Hepatitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Liver-Hepatosi	1	1	-	-	-	-	-	-	-	-	-	-	-
Ventriculus-Impaction	2	-	-	-	-	-	2	-	-	-	-	-	-
<u>7 Urogenital</u>													
Kidney-Nephrosis	1	-	-	-	-	-	-	-	-	-	-	-	1

TURKEY (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>9 Nervous</u>													
Brain-Encephalitis, Non-suppurative	2	-	-	2	-	-	-	-	-	-	-	-	-
Brain-Encephalomalacia	3	-	-	1	-	-	-	-	-	2	-	-	-
Neurologic Disorder, Idiopathic	1	-	-	-	-	-	-	-	-	-	1	-	-
<u>X Special Senses</u>													
Eye-Conjunctivitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Eyelid-Blepharitis	1	-	-	-	-	1	-	-	-	-	-	-	-
MISCELLANEOUS AVIAN SPECIES													
<u>Canary</u>													
Bone-Fracture	1	-	-	-	-	1	-	-	-	-	-	-	-
Eye-Conjunctivitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Feces-Microbiologic Examination	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Bronchitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Leukosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Starvation	1	-	-	-	-	-	-	1	-	-	-	-	-
Sudden Unexpected Death	2	-	-	-	-	-	-	2	-	-	-	-	-
Trauma	1	-	-	-	-	1	-	-	-	-	-	-	-
<u>Cockatoo</u>													
Bone Marrow-Neoplasm (NOS)	1	-	-	-	-	-	-	-	1	-	-	-	-
Dermatitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Genital-Bacteriologic Examination	1	1	-	-	-	-	-	-	-	-	-	-	-
Gout	1	-	-	-	-	1	-	1	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	-	1	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Liver-Hemosiderosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Liver-Hepatitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Liver-Lipidosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Spleen-Splenitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	1	-	-	-	-	-
<u>Duck (Domestic)</u>													
Blood-Anemia	1	-	-	-	-	-	-	-	-	-	1	-	-
Blood-Parasitism, <i>Leukocytozoon sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Emaciation	1	-	-	-	-	-	-	-	-	-	1	-	-
Liver-Lipidosis	1	-	-	-	-	-	-	-	-	1	-	-	-
Lung-Pneumonia, Broncho	1	-	-	-	-	-	-	-	-	-	-	1	-
Septicemia, <i>Escherichia coli</i>	1	1	-	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Duck (Wild)													
Amyloidosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Blood-Parasitism, <i>Leukocytozoon sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Dehydration	1	-	-	-	-	-	-	-	-	-	-	-	1
Dermatitis, Podo	1	1	-	-	-	-	-	-	-	-	-	-	-
Esophagus-Esophagitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Esophagus-Obstruction "Choke"	1	-	1	-	-	-	-	-	-	-	-	-	-
Granulomas, Generalized	1	-	-	-	-	-	-	-	-	-	-	-	1
Heart-Myocardial Degeneration	1	-	-	-	-	-	-	-	-	-	-	-	1
Heart-Myocarditis	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Parasitism, Cestode	1	-	-	-	-	-	-	-	1	-	-	-	-
Liver-Hepatitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Liver-Lipidosis	2	-	-	-	-	-	-	-	-	-	-	-	2
Lung-Pneumonia	1	-	-	-	-	-	-	-	1	-	-	-	-
Meninges-Meningitis, Suppurative	1	1	-	-	-	-	-	-	-	-	-	-	-
Mortality, Increased	2	2	-	-	-	-	-	-	-	-	-	-	-
Peritonitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	2	1	1	-	-	-	-	-	-	-	-	-	-
Ventriculitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	-	-	1	-
Thyroid-Thyroiditis	1	-	-	-	-	-	-	-	-	1	-	-	-
Weakness	1	-	1	-	-	-	-	-	-	-	-	-	-
Eagle													
Blood Vessel-Arteriosclerosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Blood-Coagulation Disorder	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone-Fracture	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone-Osteomyelitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Brain-Encephalopathy	1	-	-	-	-	-	-	-	-	-	-	-	1
Heart-Cardiomyopathy	1	-	-	-	-	-	-	1	-	-	-	-	-
Heart-Myocardial Degeneration	2	-	-	-	-	-	-	-	-	-	-	1	1
Liver-Hepatitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Toxicosis, Lead	3	-	-	-	-	-	-	1	-	-	-	1	1
Trachea-Tracheitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Falcon													
Air Sac-Airsacculitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Aspergillosis	1	-	-	-	-	-	-	-	-	-	-	1	-
Feces-Microbiologic Examination	1	1	-	-	-	-	-	-	-	-	-	-	-
Granulomas, Generalized	1	-	-	-	-	-	-	-	-	-	-	-	1
Leukosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Parasitism	1	1	-	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>Falcon (cont.)</u>													
Septicemia, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	-	-	-	1
Toxicosis, Lead	1	-	-	-	-	-	-	-	-	-	-	1	-
Tuberculosis	1	-	-	-	-	-	-	-	-	1	-	-	-
<u>Goose</u>													
Amyloidosis	2	-	-	-	-	-	-	-	2	-	-	-	-
Anomaly	1	-	-	-	-	-	-	1	-	-	-	-	-
Botulism	1	-	-	1	-	-	-	-	-	-	-	-	-
Genital-Bacteriologic Examination	1	-	-	-	-	1	-	-	-	-	-	-	-
Intestine-Enteritis, Necrotic	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Nephrosis	2	1	-	-	-	1	-	-	-	-	-	-	-
Lung-Pneumonia	1	-	-	-	-	-	-	1	-	-	-	-	-
Paralysis	1	-	-	-	-	-	-	-	-	-	-	1	-
Sudden Unexpected Death	2	-	-	-	-	-	-	1	-	-	-	-	1
Toxicosis (NOS)	1	-	-	1	-	-	-	-	-	-	-	-	-
<u>Grouse</u>													
Starvation	1	-	-	-	-	-	-	-	-	-	-	-	1
<u>Gull</u>													
Sudden Unexpected Death	1	-	-	-	1	-	-	-	-	-	-	-	-
<u>Hawk</u>													
Adrenal-Adrenitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Air Sac-Airsacculitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Aspergillosis	1	-	-	-	-	-	-	-	-	-	1	-	-
Cloaca-Prolapse	1	-	-	-	-	-	-	-	1	-	-	-	-
Esophagus-Esophagitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Gout	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Enteritis, Necrotic	1	-	-	-	-	-	-	-	-	-	-	-	1
Kidney-Nephrosis	2	-	-	-	-	-	-	-	1	-	-	-	1
Liver-Hepatitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Muscle-Degeneration	1	-	-	-	-	-	-	-	-	-	1	-	-
Pancreas-Pancreatitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Tuberculosis	1	-	-	-	-	-	-	-	-	-	1	-	-
<u>Loon</u>													
Aspergillosis	1	-	-	-	-	-	-	-	-	1	-	-	-
Blood-Coagulation Disorder	1	-	-	-	-	1	-	-	-	-	-	-	-
Bone-Fracture	3	-	-	-	-	-	-	-	-	2	1	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>Loon (cont.)</u>													
Bone-Osteomalacia	1	-	-	-	-	-	-	-	-	1	-	-	-
Emaciation	2	-	-	-	-	-	-	-	-	1	1	-	-
Esophagus-Esophagitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Esophagus-Obstruction "Choke"	1	1	-	-	-	-	-	-	-	-	-	-	-
Eye-Conjunctivitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Gout	2	1	-	-	-	1	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Intestine-Obstruction	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Parasitism, Cestode	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Parasitism, Nematode	1	-	-	-	-	-	-	-	-	1	-	-	-
Kidney-Nephritis	1	1	-	-	-	-	-	-	-	-	-	-	-
Kidney-Nephritis, Interstitial	1	1	-	-	-	-	-	-	-	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	-	-	-	1	-	-
Liver-Lipidosis	3	2	-	-	-	1	-	-	-	-	-	-	-
Thymus-Neoplasm, Thymoma	1	1	-	-	-	-	-	-	-	-	-	-	-
Trachea-Tracheitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Trauma	2	-	-	-	-	-	-	-	-	1	1	-	-
<u>Lorikeet</u>													
Liver-Hepatitis	1	-	-	-	-	-	-	-	-	-	-	-	1
<u>Miscellaneous Avian Species</u>													
Aspergillosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Blood Vessel-Atherosclerosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Bone Marrow-Neoplasm, Myeloproliferative Disorder	1	-	-	-	-	1	-	-	-	-	-	-	-
Bone-Fracture	1	-	-	-	-	1	-	-	-	-	-	-	-
Chlamydiosis	1	1	-	-	-	-	-	-	-	-	-	-	-
Eye-Cataract	1	-	-	-	-	1	-	-	-	-	-	-	-
Gout	1	-	-	-	-	-	-	-	-	-	1	-	-
Heart-Epicarditis	1	-	-	-	-	1	-	-	-	-	-	-	-
Intestine-Enteritis, Reovirus	1	-	1	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Liver-Hemosiderosis	3	-	-	-	-	1	-	-	-	1	-	1	-
Liver-Lipidosis	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Foreign Body	1	-	-	-	-	-	-	-	-	-	-	-	1
Muscle-Myositis	1	-	-	-	-	-	-	-	-	1	-	-	-
Pancreas-Pancreatitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Sudden Unexpected Death	6	1	1	-	1	-	-	-	2	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>Miscellaneous Avian Species (cont.)</u>													
Toxicosis, Lead	1	-	-	1	-	-	-	-	-	-	-	-	-
Weakness	1	-	-	-	-	1	-	-	-	-	-	-	-
<u>Ostrich</u>													
Air Sac-Airsacculitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Bone-Fracture	1	-	-	-	-	-	-	-	-	-	1	-	-
Egg Production Decreased	1	-	1	-	-	-	-	-	-	-	-	-	-
Heart-Epicarditis	1	-	-	-	-	-	-	-	-	-	-	1	-
Lung-Hemorrhage	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	1	-	-	-	-	-	-	-	-	-	-	1	-
Nasal-Rhinitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	-	-	-	1
<u>Owl</u>													
Kidney-Mineralization	1	-	-	-	-	-	-	1	-	-	-	-	-
Liver-Infarction	1	-	-	-	-	-	-	1	-	-	-	-	-
Leukosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Peritonitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Tuberculosis	1	-	-	-	-	-	-	-	-	-	-	-	1
<u>Partridge</u>													
Air Sac-Airsacculitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Aspergillosis	14	-	-	-	3	6	-	-	-	5	-	-	-
Feces-Microbiologic Examination	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Enteropathy, Atrophic	1	-	-	-	-	1	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Capillaria sp.</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, Coccidia	1	-	-	1	-	-	-	-	-	-	-	-	-
Kidney-Nephritis	1	-	-	-	-	-	-	-	-	1	-	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	-	-	1	-	-	-
Liver-Hepatitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Liver-Lipidosis	1	-	-	-	-	-	-	-	-	1	-	-	-
Lung-Pneumonia, Broncho	2	-	-	-	-	1	-	-	-	1	-	-	-
Mineralization	1	-	-	-	-	-	-	-	-	1	-	-	-
Mycosis (NOS)	1	-	-	1	-	-	-	-	-	-	-	-	-
Neonatal Death	1	1	-	-	-	-	-	-	-	-	-	-	-
Parasitism, <i>Histomonas sp.</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Septicemia, Erysipelothrix	1	-	-	1	-	-	-	-	-	-	-	-	-
Septicemia, <i>Pasteurella multocida</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Sudden Unexpected Death	2	-	-	-	-	1	-	1	-	-	-	-	-
Virus Infection, Adenovirus	1	-	-	1	-	-	-	-	-	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Peacock													
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Liver-Abscess	1	-	1	-	-	-	-	-	-	-	-	-	-
Parasitism, Lice	1	-	1	-	-	-	-	-	-	-	-	-	-
Sinus-Sinusitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Pelican													
Intestine-Parasitism, Nematode	1	-	-	1	-	-	-	-	-	-	-	-	-
Parasitism, Lice	1	-	-	1	-	-	-	-	-	-	-	-	-
Pheasant													
Air Sac-Airsacculitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Amyloidosis	1	-	-	-	-	-	-	-	-	-	-	1	-
Arthritis, <i>Staphylococcus aureus</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Aspergillosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Blood Vessel-Aortic Rupture	1	-	-	-	-	-	-	-	-	-	-	1	-
Bone-Osteomalacia	1	-	-	-	-	-	-	-	-	-	-	1	-
Cannibalism	1	-	-	-	-	-	-	-	-	-	-	1	-
Eye-Conjunctivitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Enteritis, Rotavirus	1	-	-	-	-	-	-	-	-	-	-	1	-
Intestine-Parasitism, Coccidia	2	-	-	-	-	-	-	-	-	-	-	-	2
Kidney-Neoplasm, Carcinoma	1	1	-	-	-	-	-	-	-	-	-	-	-
Mortality, Increased	2	-	-	-	-	-	-	-	-	-	-	2	-
Peritonitis, Egg Yolk	1	-	-	-	-	-	-	-	-	-	1	-	-
Septicemia, <i>Salmonella sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Sinus-Sinusitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Trachea-Tracheitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Tuberculosis	1	-	-	-	1	-	-	-	-	-	-	-	-
Pigeon/Dove													
Blood-Hemorrhage, Generalized	2	1	-	1	-	-	-	-	-	-	-	-	-
Emaciation	1	-	1	-	-	-	-	-	-	-	-	-	-
Eye-Conjunctivitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Eye-Ophthalmitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Feces-Microbiologic Examination	3	1	-	-	-	-	-	1	-	-	-	1	-
Intestine-Enteritis, Idiopathic	1	1	-	-	-	-	-	-	-	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Liver-Hepatitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Liver-Hepatositis	1	-	-	-	-	1	-	-	-	-	-	-	-
Muscle-Degeneration	1	-	-	-	-	-	-	-	-	1	-	-	-
Oral Cavity-Stomatitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	2	-	-	1	-	-	-	1	-	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>Pigeon/Dove (cont.)</u>													
Virus Infection, Herpes	1	1	-	-	-	-	-	-	-	-	-	-	-
Weakness	1	-	-	1	-	-	-	-	-	-	-	-	-
<u>Psittacine-Miscellaneous</u>													
Air Sac-Airsacculitis	3	-	-	-	-	-	-	1	-	2	-	-	-
Blood Vessel-Atherosclerosis	1	-	1	-	-	-	-	-	-	-	-	-	-
Blood-Coagulation Disorder	1	-	-	-	-	-	-	-	-	-	1	-	-
Brain-Encephalomalacia	1	-	-	-	-	-	-	-	-	-	1	-	-
Brain-Encephalopathy	1	-	-	-	-	-	1	-	-	-	-	-	-
Brain-Hemorrhage	1	-	-	1	-	-	-	-	-	-	-	-	-
Cellulitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Chlamydiosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Cloaca-Impaction	1	-	-	-	1	-	-	-	-	-	-	-	-
Crop-Ingluvitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Crop-Ingluvitis, Mycotic	3	-	-	-	-	1	-	-	1	-	-	1	-
Dermatitis, Granulomatous	1	-	-	-	-	1	-	-	-	-	-	-	-
Emaciation	3	-	-	-	-	-	-	-	-	-	1	1	1
Esophagus-Esophagitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Feces-Microbiologic Examination	21	3	1	1	2	2	1	-	1	4	-	2	4
Gout	2	-	-	2	-	-	-	-	-	-	-	-	-
Health Evaluation, Normal	2	-	-	-	1	-	-	-	-	1	-	-	-
Heart-Heart Failure, Chronic	1	-	-	-	1	-	-	-	-	-	-	-	-
Heart-Myocardial Degeneration	6	-	1	-	1	1	1	-	1	1	-	-	-
Heart-Myocarditis	1	-	-	1	-	-	-	-	-	-	-	-	-
Hematoma *	2	-	-	1	-	-	-	-	1	-	-	-	-
Intestine-Enteritis, Idiopathic	1	-	-	-	-	1	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Intestine-Obstruction	1	-	-	-	-	1	-	-	-	-	-	-	-
Intestine-Parasitism, Cestode	1	-	-	-	-	-	-	-	1	-	-	-	-
Kidney-Mineralization	1	-	1	-	-	-	-	-	-	-	-	-	-
Kidney-Nephritis	2	-	-	-	-	1	-	-	-	-	-	-	1
Kidney-Nephrosis	12	1	-	4	1	3	1	-	-	-	2	-	-
Kidney-Urolithiasis	1	-	-	1	-	-	-	-	-	-	-	-	-
Liver-Cirrhosis	3	1	-	-	-	-	1	-	-	-	-	1	-
Liver-Hemosiderosis	1	-	-	1	-	-	-	-	-	-	-	-	-
Liver-Hepatitis	4	1	1	1	-	1	-	-	-	-	-	-	-
Liver-Hepatositis	2	-	-	-	1	-	-	-	-	-	-	1	-
Liver-Lipidosis	4	-	2	-	-	-	1	-	-	-	-	1	-
Lung-Congestion	1	-	1	-	-	-	-	-	-	-	-	-	-
Lung-Hemorrhage	1	-	-	-	1	-	-	-	-	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>Psittacine-Miscellaneous (cont.)</u>													
Lung, Pneumonia, Broncho	2	-	-	1	-	1	-	-	-	-	-	-	-
Lung-Pneumonia, Foreign Body	4	-	-	1	-	1	-	-	-	1	-	-	1
Mineralization	1	-	-	1	-	-	-	-	-	-	-	-	-
Muscle-Degeneration	1	-	1	-	-	-	-	-	-	-	-	-	-
Muscle-Myositis	1	-	-	-	-	-	-	-	-	1	-	-	-
Neoplasm, Lipoma	3	-	-	1	-	-	1	-	-	-	-	-	1
Neoplasm, Sarcoma, Anaplastic	1	1	-	-	-	-	-	-	-	-	-	-	-
Neurologic Disorder, Idiopathic	1	-	-	-	-	-	-	1	-	-	-	-	-
Oral Cavity-Neoplasm, Squamous Papilloma	1	-	-	1	-	-	-	-	-	-	-	-	-
Peritonitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Pituitary-Neoplasm, Adenoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Psittacine Wasting Disease	4	2	-	1	1	-	-	-	-	-	-	-	-
Septicemia, Bacterial (NOS)	1	-	1	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Escherichia coli</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Klebsiella sp.</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Septicemia, <i>Pasteurella multocida</i>	1	-	-	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Sinus-Sinusitis	3	2	-	-	-	-	-	-	-	-	-	-	1
Spleen-Nodular Hyperplasia	2	-	-	2	-	-	-	-	-	-	-	-	-
Sudden Unexpected Death	10	-	-	1	2	1	1	1	1	-	1	1	1
Testis-Neoplasm, Seminoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Thymus-Neoplasm, Thymoma	2	-	-	1	-	-	1	-	-	-	-	-	-
Toxicosis, Lead	7	1	-	-	2	1	-	-	-	1	1	-	1
Trachea-Obstruction	1	-	-	-	-	-	1	-	-	-	-	-	-
Trachea-Tracheitis	2	-	-	-	-	-	2	-	-	-	-	-	-
Trauma	2	-	1	-	-	-	-	1	-	-	-	-	-
Tuberculosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Virus Infection, Herpes	2	-	-	-	-	-	2	-	-	-	-	-	-
Virus Infection, Papovavirus	4	-	-	1	1	1	1	-	-	-	-	-	-
Virus Infection, Pox	1	-	-	1	-	-	-	-	-	-	-	-	-
Xanthoma	1	-	-	1	-	-	-	-	-	-	-	-	-
<u>Quail</u>													
Intestine-Enteritis, <i>Clostridium colinum</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
<u>Roadrunner</u>													
Cellulitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Neoplasm, Intracutaneous													
Cornifying Epithelioma	1	-	-	-	-	1	-	-	-	-	-	-	-

MISCELLANEOUS AVIAN (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>Songbird</u>													
Mortality, Increased	1	1	-	-	-	-	-	-	-	-	-	-	-
<u>Swan</u>													
Amyloidosis	1	-	-	-	-	-	-	-	-	-	1	-	-
Aspergillosis	1	-	-	-	-	-	-	-	-	-	1	-	-
Granulomas, Generalized	1	-	1	-	-	-	-	-	-	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	1	-	-	-	-	-
Liver-Hepatitis	1	-	-	-	-	-	-	-	-	-	-	1	-
Toxicosis, Ethylene Glycol	1	-	-	-	-	-	-	1	-	-	-	-	-
Toxicosis, Lead	1	-	-	-	-	-	-	-	-	1	-	-	-
<u>Toucan</u>													
Liver-Hemosiderosis	1	-	-	-	-	-	-	-	-	-	-	1	-
<u>Unidentified Avian Species</u>													
Blood-Coagulation Disorder	1	1	-	-	-	-	-	-	-	-	-	-	-
Brain-Encephalitis, Suppurative	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Enteritis, Rotavirus	2	-	-	2	-	-	-	-	-	-	-	-	-
Lung-Edema	1	-	-	-	-	1	-	-	-	-	-	-	-
Septicemia, <i>Staphylococcus sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
<u>Woodpecker</u>													
Bone-Fracture	1	-	-	-	-	-	-	-	-	-	-	1	-
Intestine-Parasitism, Coccidia	1	-	-	-	-	-	-	-	-	-	-	1	-

BOVINE

O <u>Body as a Whole</u>													
Amyloidosis	2	-	-	-	-	-	-	-	-	1	-	1	-
Anomaly	5	1	2	1	-	-	-	-	-	-	-	-	1
Bovine Viral Diarrhea	40	3	3	-	1	1	5	7	6	3	3	5	3
Deficiency, Copper	4	-	-	1	2	-	1	-	-	-	-	-	-
Deficiency, Vitamin E	4	-	1	-	-	-	1	1	-	1	-	-	-
Downer Cow Syndrome	7	-	1	1	1	-	1	-	2	-	1	-	-
Emaciation	22	1	-	-	-	3	2	4	7	5	-	-	-
Grain Overload	7	-	-	1	-	1	1	-	-	-	1	2	1
Growth Retardation	1	-	-	-	-	-	1	-	-	-	-	-	-

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Metabolic Imbalance, Serum Electrolytes	1	-	-	-	-	-	-	-	1	-	-	-	-
Mineralization	1	-	-	-	-	-	-	1	-	-	-	-	-
Neonatal Death	15	1	-	1	2	-	2	2	2	2	-	-	3
Neonatal Weakness	7	-	-	1	-	-	1	-	1	2	1	1	-
Neoplasm, Carcinoma	1	1	-	-	-	-	-	-	-	-	-	-	-
Neoplasm, Mesothelioma	1	-	-	-	-	-	-	-	1	-	-	-	-
Omphalitis	9	-	2	1	-	-	2	-	1	-	1	1	1
Peritonitis	17	1	-	2	1	2	2	2	2	2	2	-	1
Septicemia, <i>Actinomyces pyogenes</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, Bacterial (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Septicemia, <i>Clostridium chauvoei</i>	5	-	-	-	-	-	-	-	-	-	2	3	-
Septicemia, <i>Clostridium novyi</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Septicemia, <i>Clostridium septicum</i>	4	1	-	-	-	-	-	-	-	-	3	-	-
Septicemia, <i>Escherichia coli</i>	16	2	-	2	1	2	1	2	-	2	1	2	1
Septicemia, <i>Klebsiella sp.</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Septicemia, <i>Pasteurella haemolytica</i>	1	-	-	-	-	-	-	-	-	-	-	1	-
Septicemia, <i>Salmonella sp.</i>	81	6	6	7	11	12	4	5	5	8	5	8	4
Septicemia, <i>Staphylococcus sp.</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Starvation	13	1	-	-	-	-	2	8	-	-	2	-	-
Sudden Unexpected Death	93	7	11	10	10	7	4	11	4	9	12	6	2
Tetanus	1	-	-	1	-	-	-	-	-	-	-	-	-
Toxicosis (NOS)	3	1	1	-	-	-	-	1	-	-	-	-	-
Toxicosis, Arsenic	1	-	-	-	-	-	-	-	-	-	-	-	1
Toxicosis, Ionophore	1	-	-	-	1	-	-	-	-	-	-	-	-
Toxicosis, Lead	17	2	1	3	1	1	-	-	-	-	1	2	6
Toxicosis, Organophosphate	3	1	-	-	-	-	-	-	-	-	-	1	1
Toxicosis, Plant	2	-	-	-	-	-	-	-	-	-	-	-	2
Toxicosis, Selenium	1	-	-	-	-	-	-	-	-	-	-	1	-
Toxicosis, Urea	1	-	-	-	-	-	-	1	-	-	-	-	-
Toxicosis, Zearalenone	1	-	-	-	-	-	-	-	-	-	-	1	-
Toxicosis, Zinc Phosphide	1	-	-	-	-	-	-	-	-	-	-	1	-
Trauma	3	-	-	-	-	-	-	-	1	-	1	1	-
Weakness	2	-	-	-	1	-	-	-	-	1	-	-	-
1 <u>Integumentary</u>													
Abscess	2	-	2	-	-	-	-	-	-	-	-	-	-
Cellulitis	4	1	1	-	-	-	-	-	-	-	1	-	1
Dermatitis, Bacterial (NOS)	1	-	-	-	-	1	-	-	-	-	-	-	-
Dermatitis, Dermatophilus	1	-	-	-	1	-	-	-	-	-	-	-	-
Dermatitis, Focal	5	-	-	1	2	-	1	-	1	-	-	-	-
Dermatitis, Granulomatous	1	-	-	-	-	-	-	-	-	-	-	-	1

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Dermatitis, Mycotic	1	-	-	-	-	-	1	-	-	-	-	-	-
Mammary-Mammillitis	2	-	-	-	-	-	-	-	1	-	1	-	-
Mammary-Mastitis	225	19	31	18	19	14	18	17	23	19	22	13	12
Mammary-Mastitis, <i>Actinomyces pyogenes</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Mammary-Mastitis, <i>Staphylococcus aureus</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Milk-Bulk Tank, Bacteriologic Examination	374	25	33	31	41	30	31	31	33	34	30	31	24
Neoplasm, Melanoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Neoplasm, Papilloma	1	-	-	-	-	-	-	-	-	-	-	1	-
Parasitism, Lice	1	-	-	-	-	-	-	-	-	-	-	1	-
Parasitism, Mites	1	-	-	-	1	-	-	-	-	-	-	-	-
Skin-Microbiologic Examination	1	1	-	-	-	-	-	-	-	-	-	-	-
2 Musculoskeletal													
Arthritis	1	-	-	-	-	-	-	-	1	-	-	-	-
Arthritis, <i>Actinomyces pyogenes</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Arthritis, <i>Streptococcus sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Arthritis, Suppurative	1	-	1	-	-	-	-	-	-	-	-	-	-
Bone-Fracture	2	-	-	-	-	-	-	-	-	2	-	-	-
Bone-Osteomalacia	2	-	1	-	-	-	-	-	-	1	-	-	-
Muscle-Degeneration	2	-	-	-	-	-	1	-	-	-	-	-	1
Muscle-Myositis	5	-	-	1	1	1	-	-	1	-	-	-	1
Muscle-Neoplasm (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Muscle-White Muscle Disease	1	-	-	-	-	-	-	-	-	-	-	1	-
Synovitis	1	-	-	-	-	-	-	-	-	1	-	-	-
3 Respiratory													
Respiratory Disorders, Total Cases	380	16	26	17	36	45	35	58	42	37	28	26	14
Lung-Abscess	10	-	-	-	-	-	-	3	4	2	-	1	-
Lung-Bronchitis	2	-	-	-	-	1	-	1	-	-	-	-	-
Lung-Edema	23	2	-	-	5	1	2	3	2	4	1	2	1
Lung-Emphysema	4	-	1	-	-	1	-	1	-	-	-	1	-
Lung-Hemorrhage	2	-	1	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia	2	-	-	-	-	-	-	1	-	-	-	1	-
Lung-Pneumonia, <i>Actinomyces pyogenes</i>	33	-	4	2	2	4	3	4	5	3	1	3	2
Lung-Pneumonia, Atypical Interstitial	11	-	1	-	1	2	4	3	-	-	-	-	-
Lung-Pneumonia, Bovine Respiratory Syncytial Virus	28	1	-	-	1	6	6	4	4	2	2	1	1
Lung-Pneumonia, Broncho	72	6	7	4	6	7	5	10	4	7	6	9	1
Lung-Pneumonia, <i>Escherichia coli</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Lung-Pneumonia, Foreign Body	3	-	-	-	-	-	-	1	-	-	1	-	1
Lung-Pneumonia, <i>Haemophilus somnus</i>	39	-	3	4	3	4	3	6	4	6	3	1	2
Lung-Pneumonia, IBR	2	-	1	-	-	-	-	-	-	-	-	1	-

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Lung-Pneumonia, Interstitial	11	-	1	-	-	3	1	-	4	-	1	-	1
Lung-Pneumonia, <i>Klebsiella sp.</i>	2	1	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, Mycotic	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Pneumonia, Parainfluenza-3	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella hemolytica</i>	92	3	6	5	15	13	5	12	11	7	8	5	2
Lung-Pneumonia, <i>Pasteurella multocida</i>	94	1	6	7	11	8	11	12	9	11	9	5	4
Lung-Pneumonia, <i>Streptococcus sp.</i>	2	-	-	-	-	1	-	-	-	-	1	-	-
Lung-Pneumonia, Swine Influenza	1	-	-	-	-	-	-	-	-	-	1	-	-
Lung-Thrombosis	2	-	1	-	-	-	1	-	-	-	-	-	-
Nasal-Rhinitis	2	1	1	-	-	-	-	-	-	-	-	-	-
Nasal-Rhinitis, <i>Pasteurella hemolytica</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Nasal-Rhinitis, <i>Pasteurella multocida</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Pleura-Pleuritis	7	1	-	-	1	-	-	2	1	1	-	1	-
Respiratory Infection (NOS)	3	-	-	-	1	-	-	-	1	1	-	-	-
Respiratory Infection, <i>Pasteurella haemolytica</i>	3	-	-	-	1	-	-	1	-	-	-	-	1
Respiratory Infection, <i>Pasteurella multocida</i>	6	-	-	-	1	-	1	3	-	1	-	-	-
Trachea-Tracheitis	5	-	-	-	-	3	-	1	-	-	1	-	-
4 Cardiovascular													
Blood Vessel-Arteritis	1	-	1	-	-	-	-	-	-	-	-	-	-
Heart-Cardiomyopathy	3	1	-	1	-	-	-	-	-	-	-	1	-
Heart-Endocarditis	2	-	-	-	2	-	-	-	-	-	-	-	-
Heart-Heart Failure, Chronic	3	-	-	-	-	-	-	1	-	-	2	-	-
Heart-Myocardial Degeneration	5	-	-	1	-	-	-	2	-	1	-	1	-
Heart-Myocarditis	6	-	-	1	-	1	1	1	-	-	-	1	1
5 Hemic and Lymphatic													
Blood-Anemia	3	1	-	-	-	-	-	1	-	-	-	1	-
Blood-Coagulation Disorder	4	-	-	3	-	-	-	-	-	-	-	1	-
Blood-Hemorrhage, Focal	1	-	-	-	-	-	-	-	1	-	-	-	-
Blood-Hemorrhage, Generalized	8	1	1	2	-	-	2	-	-	1	-	-	1
Blood-Parasitism, <i>Anaplasma sp.</i>	3	-	-	1	1	-	-	-	-	1	-	-	-
Bone Marrow-Neoplasm, Myeloproliferative Disorder	1	-	-	1	-	-	-	-	-	-	-	-	-
Immune System-Hypogammaglobulinemia	2	-	1	1	-	-	-	-	-	-	-	-	-
Lymph Node-Atrophy	1	-	-	1	-	-	-	-	-	-	-	-	-
Lymph Node-Hyperplasia	1	-	-	-	1	-	-	-	-	-	-	-	-
Lymph Node-Lymphadenitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Lymph Node-Neoplasm, Lymphosarcoma	6	-	1	-	1	1	-	1	-	-	-	-	2
Spleen-Infarct	1	-	-	-	-	-	-	-	1	-	-	-	-
Spleen-Neoplasm (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Spleen-Splenitis	1	-	1	-	-	-	-	-	-	-	-	-	-

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
6 Digestive													
Esophagus-Esophagitis	8	2	1	-	-	-	1	1	2	-	-	-	1
Feces-Microbiologic Examination	245	14	11	17	18	14	31	36	13	27	26	21	17
Intestine-Colitis	4	-	-	-	-	-	-	-	1	-	3	-	-
Intestine-Enteritis, Total Cases	736	32	56	51	65	71	57	98	58	73	88	52	35
Intestine-Enteritis, Adenovirus	2	-	1	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, Bovine Viral Diarrhea	30	1	2	1	0	0	1	2	4	7	4	3	4
Intestine-Enteritis, Coronavirus	122	-	3	6	4	21	13	19	8	15	24	6	3
Intestine-Enteritis, <i>Escherichia coli</i>	56	3	6	6	6	7	1	8	1	3	8	5	2
Intestine-Enteritis, Hemorrhagic	4	-	-	-	1	-	1	1	-	-	-	-	1
Intestine-Enteritis, Idiopathic	53	9	2	3	7	2	2	10	2	8	4	3	1
Intestine-Enteritis, <i>Klebsiella sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Mycobacterium paratuberculosis</i> (Johne's)	74	3	11	9	7	3	3	5	6	7	6	8	6
Intestine-Enteritis, Necrotic	49	2	6	6	6	6	1	5	6	4	2	2	3
Intestine-Enteritis, Rotavirus	268	7	9	16	19	25	23	42	25	32	36	23	11
Intestine-Enteritis, <i>Salmonella sp.</i>	83	3	15	10	13	9	9	7	6	3	1	3	4
Intestine-Enteritis, Specimen Unsuitable	31	4	2	-	2	1	2	4	3	3	6	3	1
Intestine-Enteropathy, Atrophic	10	1	1	0	1	0	1	0	3	0	0	2	1
Intestine-Hemorrhage	2	-	-	-	-	1	-	1	-	-	-	-	-
Intestine-Infarction	3	-	-	2	-	-	-	-	-	-	-	-	1
Intestine-Obstruction	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Parasitism, Cestode	3	-	1	1	-	-	-	-	1	-	-	-	-
Intestine-Parasitism, Coccidia	53	3	3	5	4	6	4	3	2	2	3	6	12
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	393	14	21	27	34	40	36	64	35	38	39	24	21
Intestine-Parasitism, Nematode	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Parasitism, <i>Nematodirus sp.</i>	2	-	1	1	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, Strongyles (unidentified)	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Parasitism, <i>Trichostrongyle sp.</i>	6	-	1	2	-	-	1	1	-	-	-	-	1
Intestine-Torsion	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Volvulus	2	1	-	-	-	-	1	-	-	-	-	-	-
Lip-Chelitis	2	-	-	-	-	1	-	-	-	-	1	-	-
Liver-Abscess	4	-	1	-	-	-	-	2	-	1	-	-	-
Liver-Cirrhosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Liver-Hepatitis	8	-	1	-	2	1	1	-	-	-	2	1	-
Liver-Hepatositis	5	-	-	-	-	-	-	-	-	3	-	1	1
Liver-Lipidosis	21	2	-	2	3	-	2	1	5	2	-	2	2
Liver-Neoplasm, Adenocarcinoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Liver-Parasitism, <i>Fascioloides sp.</i>	3	-	1	-	-	-	-	-	-	1	-	1	-
Oral Cavity-Stomatitis	3	-	-	-	1	-	1	-	1	-	-	-	-
Oral Cavity-Stomatitis, Eosinophilic Granuloma	1	-	1	-	-	-	-	-	-	-	-	-	-

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Rectum-Proctitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Stomach-Abomasal Ulcer	2	-	-	-	-	-	1	-	1	-	-	-	-
Stomach-Abomasal Volvulus	3	-	-	-	-	-	-	-	1	2	-	-	-
Stomach-Abomasitis	5	-	-	-	-	3	-	-	1	1	-	-	-
Stomach-Abomasitis, Mycotic	12	1	2	-	1	4	1	1	1	1	-	-	-
Stomach-Rumen Tympany (Bloat)	6	-	-	-	1	2	-	1	-	1	-	-	1
Stomach-Rumenitis	2	-	-	-	-	1	-	-	-	-	-	1	-
Stomach-Rupture	2	-	-	-	-	-	1	-	-	-	1	-	-
Stomach-Ulcer	2	-	-	-	2	-	-	-	-	-	-	-	-
7 Urogenital													
Abortion, Total Cases	540	62	47	48	48	45	35	46	49	46	38	42	34
Abortion, Anasarca	1	-	-	-	-	1	-	-	-	-	-	-	-
Abortion, Anomaly	10	-	-	1	1	1	1	1	2	2	1	-	-
Abortion, Bacterial (NOS)	5	1	-	-	-	-	-	-	4	-	-	-	-
Abortion, Bacterial, <i>Actinomyces pyogenes</i>	27	5	2	3	4	1	1	-	-	1	2	3	5
Abortion, Bacterial, <i>Bacillus sp.</i>	17	1	-	2	3	2	-	3	1	2	1	2	-
Abortion, Bacterial, <i>Escherichia coli</i>	6	2	-	-	1	1	-	-	-	1	-	1	-
Abortion, Bacterial, <i>Leptospira sp.</i>	2	-	-	-	-	-	-	1	1	-	-	-	-
Abortion, Bacterial, <i>Listeria sp.</i>	5	-	-	-	-	2	-	2	-	-	1	-	-
Abortion, Bacterial, <i>Pasteurella multocida</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Abortion, Bacterial, <i>Pasteurella haemolytica</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Abortion, Bacterial, <i>Salmonella sp.</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Abortion, Bacterial, <i>Staphylococcus aureus</i>	6	1	1	-	-	-	-	-	-	2	-	-	2
Abortion, Bacterial, <i>Staphylococcus sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Abortion, Bacterial, <i>Streptococcus sp.</i>	4	-	1	-	1	-	-	-	1	1	-	-	-
Abortion, Circulatory Failure	8	-	-	-	1	1	-	1	3	1	-	1	-
Abortion, Encephalitis	4	-	-	-	-	-	-	1	1	1	-	-	1
Abortion, Hepatitis	4	-	-	-	-	-	-	-	-	3	1	-	-
Abortion, Hepatopathy	1	-	-	1	-	-	-	-	-	-	-	-	-
Abortion, Hepatosis	1	-	-	1	-	-	-	-	-	-	-	-	-
Abortion, Idiopathic	278	38	30	31	26	20	18	23	22	18	21	16	15
Abortion, Mummified Fetus	9	-	-	1	1	2	-	2	-	1	-	2	-
Abortion, Mycotic Placentitis	17	-	1	3	-	1	4	2	1	1	2	1	1
Abortion, Myocarditis	41	4	1	-	1	3	6	5	5	6	4	4	2
Abortion, Placentitis	59	6	7	4	7	5	3	4	9	2	3	4	5
Abortion, Pneumonia	8	1	-	1	2	-	1	1	-	-	-	2	-
Abortion, Specimen Unsuited	8	1	1	-	1	2	1	-	1	-	-	1	-
Abortion, Twins	5	1	-	-	-	2	-	1	-	-	1	-	-
Abortion, Viral, Bovine Viral Diarrhea	13	3	4	-	-	-	-	1	-	1	1	3	-
Abortion, Viral, Infectious Bovine Rhinotracheitis	7	-	-	-	-	-	-	-	-	2	-	3	2

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Abortion, Viral, Parvovirus	1	-	-	-	-	-	-	-	-	-	-	1	-
Genital Anomaly, Freemartin	5	-	1	-	1	-	1	1	-	-	-	1	-
Genital Anomaly	1	-	-	-	-	-	-	-	-	-	-	1	-
Genital-Bacteriologic Examination	39	3	1	3	4	9	-	5	1	4	6	2	1
Genital-Infertility	2	-	-	-	-	-	2	-	-	-	-	-	-
Kidney-Infarction	1	-	-	-	-	-	-	-	-	1	-	-	-
Kidney-Mineralization	5	-	1	1	-	2	-	-	-	1	-	-	-
Kidney-Nephritis	6	-	-	-	1	-	-	-	1	-	1	2	1
Kidney-Nephritis, Glomerulo	2	-	1	-	1	-	-	-	-	-	-	-	-
Kidney-Nephritis, Interstitial	4	1	-	-	2	-	-	1	-	-	-	-	-
Kidney-Nephritis, Pyelo	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Nephrosis	15	-	-	2	1	3	-	1	3	-	2	3	-
Penis-Neoplasm, Papilloma	1	-	-	-	-	-	-	-	-	-	-	-	1
Stillbirth, Idiopathic	18	-	1	3	3	2	-	1	1	2	2	2	1
Urinary Bladder-Neoplasm, Rhabdomyosarcoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Urinary Bladder-Rupture	1	-	-	-	-	-	-	-	-	-	1	-	-
Urinary Bladder-Urolithiasis	1	-	-	-	-	-	-	-	-	1	-	-	-
Urine-Bacteriologic Examination	3	-	-	-	-	-	1	-	-	-	-	-	2
Uterus-Metritis	8	-	-	-	-	-	1	3	2	-	1	-	1
Vagina-Neoplasm, Fibrosarcoma	1	-	-	-	1	-	-	-	-	-	-	-	-
Vagina-Neoplasm, Leiomyoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Vas Deferens-Normal	1	-	-	-	-	-	-	-	-	-	1	-	-
9 Nervous													
Neurological Disorders, Total Cases	111	7	6	7	3	11	10	13	9	11	8	16	10
Brain-Abscess	3	-	-	-	-	1	1	-	1	-	-	-	-
Brain-Encephalitis, Eosinophilic	1	-	-	-	-	-	-	-	-	-	-	1	-
Brain-Encephalitis, <i>Haemophilus somnus</i>	7	-	1	-	-	1	-	2	1	1	-	-	1
Brain-Encephalitis, <i>Listeria sp.</i>	14	-	-	-	-	3	1	2	3	1	2	1	1
Brain-Encephalitis, Non-Suppurative	4	1	-	1	1	1	-	-	-	-	-	-	-
Brain-Encephalitis, Pseudorabies	1	-	-	-	-	-	-	-	-	-	1	-	-
Brain-Encephalitis, Rabies	37	4	2	-	1	1	3	2	5	4	-	9	6
Brain-Encephalomalacia	3	-	-	1	-	-	1	1	-	-	-	-	-
Brain-Encephalopathy	2	-	-	-	-	-	-	-	-	-	-	-	2
Brain-Hemorrhage	1	-	-	-	-	-	-	-	-	-	-	1	-
Brain-Polioencephalomalacia	11	-	-	2	-	2	1	2	1	1	-	1	1
Meninges-Meningitis, <i>Escherichia coli</i>	3	1	-	-	-	-	1	-	-	-	1	-	-
Meninges-Meningitis, Non-Suppurative	2	-	-	-	-	-	-	-	-	1	1	-	-
Meninges-Meningitis, Suppurative	6	1	1	-	-	-	-	2	-	-	2	-	-
Neurologic Disorder, Idiopathic	33	2	4	3	1	3	2	2	2	5	1	6	2
Spinal Cord-Myelitis, Non-Suppurative	1	-	-	-	-	-	1	-	-	-	-	-	-

BOVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
X Special Senses													
Ear-Hematoma	1	-	-	-	-	-	-	1	-	-	-	-	-
Ear-Neoplasm, Hemangioma	1	-	-	-	-	-	-	1	-	-	-	-	-
Eye-Conjunctivitis	3	1	-	-	-	-	-	1	-	1	-	-	-
Eye-Keratitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Eye-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	-	-	-	1	-	-	-	-
Eyelid-Neoplasm, Squamous Cell Carcinoma	3	-	-	1	-	-	-	-	-	-	1	1	-

CANINE

O Body as a Whole													
Abdomen-Hematoma	1	-	-	-	1	-	-	-	-	-	-	-	-
Abscess	2	-	-	-	1	-	-	-	1	-	-	-	-
Amyloidosis	4	-	-	1	-	-	1	-	-	-	1	-	1
Anomaly	2	-	-	-	1	-	-	-	-	-	-	1	-
Canine Distemper	1	-	1	-	-	-	-	-	-	-	-	-	-
Effusion, Peritoneal	1	-	-	-	-	-	-	1	-	-	-	-	-
Effusion, Pleural	2	-	-	-	-	-	-	1	-	-	-	1	-
Effusion, Pyothorax	3	-	-	-	-	1	-	-	1	-	1	-	-
Emaciation	1	-	-	-	-	-	-	-	-	1	-	-	-
Hernia, Diaphragmatic	2	1	-	-	-	-	1	-	-	-	-	-	-
Mineralization	2	-	-	1	-	-	-	-	-	1	-	-	-
Mycosis, <i>Blastomyces sp.</i>	12	2	1	-	1	1	-	2	-	2	2	1	-
Mycosis, <i>Cryptococcus sp.</i>	3	-	-	-	-	1	1	-	-	1	-	-	-
Mycosis, <i>Histoplasma sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Neonatal Death	9	2	-	-	1	2	1	2	1	-	-	-	-
Neonatal Weakness	1	-	-	1	-	-	-	-	-	-	-	-	-
Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	1	-	-	-
Neoplasm, Carcinoma	5	2	1	-	-	-	-	-	1	-	-	-	1
Neoplasm, Carcinoma, Metastatic	3	-	2	-	-	-	-	1	-	-	-	-	-
Neoplasm, Hemangiosarcoma	3	-	2	-	-	-	-	-	1	-	-	-	-
Neoplasm, Hemangiosarcoma, Metastatic	1	-	-	-	1	-	-	-	-	-	-	-	-
Neoplasm, Melanoma, Metastatic	2	-	1	-	1	-	-	-	-	-	-	-	-
Neoplasm, Mesothelioma	3	-	-	1	1	-	-	1	-	-	-	-	-
Neoplasm, Sarcoma	7	-	2	2	-	-	-	-	-	-	1	2	-
Neoplasm, Sarcoma, Metastatic	1	-	-	-	-	-	-	-	-	-	-	1	-
Obesity	1	-	1	-	-	-	-	-	-	-	-	-	-
Omphalitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Peritonitis	7	3	-	1	-	-	-	1	-	1	-	1	-
Septicemia, Bacterial (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Septicemia, <i>Escherichia coli</i>	3	-	-	-	-	-	-	1	-	-	1	1	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Septicemia, <i>Pasteurella multocida</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Septicemia, <i>Streptococcus sp.</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Starvation	3	-	-	-	-	-	-	2	-	-	-	1	-
Steatitis	2	-	-	-	2	-	-	-	-	-	-	-	-
Sudden Unexpected Death	55	4	8	-	3	3	3	5	7	6	5	4	7
Toxicosis (NOS)	1	-	-	-	-	-	-	-	1	-	-	-	-
Toxicosis, Algae	1	-	1	-	-	-	-	-	-	-	-	-	-
Toxicosis, Anticoagulant	22	-	2	2	3	3	1	3	2	2	-	1	3
Toxicosis, Carbon Monoxide	1	-	-	-	-	-	-	-	-	1	-	-	-
Toxicosis, Ethylene Glycol	6	-	-	-	1	1	-	-	2	1	-	1	-
Toxicosis, Lead	9	-	2	3	1	1	-	-	1	1	-	-	-
Toxicosis, Organophosphate	2	-	-	-	-	-	-	-	-	-	1	1	-
Toxicosis, Strychnine	7	1	-	-	-	-	2	-	1	1	2	-	-
Trauma	9	1	-	-	1	-	1	1	2	-	2	-	1
Virus Infection, Adenovirus	2	-	1	-	-	-	-	-	-	-	-	1	-
Virus infection, Herpes	3	-	-	-	-	-	-	1	-	-	1	1	-
Virus Infection, Pseudorabies	2	-	-	-	-	-	-	-	-	1	1	-	-
Weakness	1	-	1	-	-	-	-	-	-	-	-	-	-
1 Integumentary													
Abscess	13	-	2	1	-	3	-	2	1	2	1	-	1
Alopecia	4	-	-	1	1	-	-	-	1	-	1	-	-
Calcinosis Circumscripta	11	-	-	1	1	3	2	1	1	-	2	-	-
Cellulitis	42	2	4	1	4	4	1	8	5	3	4	3	3
Cyst, Adnexal	137	14	13	11	15	9	6	13	17	16	7	8	8
Cyst, Apocrine	9	-	-	-	-	-	3	1	1	1	1	2	-
Cyst, Epidermal	1	1	-	-	-	-	-	-	-	-	-	-	-
Dermal Fibrosis	53	4	6	1	2	10	4	4	3	4	5	7	3
Dermatitis, Acral Lick Granuloma	8	-	2	-	-	1	1	1	-	1	-	1	1
Dermatitis, Allergic	59	3	3	11	8	2	6	8	2	4	2	6	4
Dermatitis, Bacterial (NOS)	14	1	1	-	2	1	2	2	1	2	-	2	-
Dermatitis, Diffuse	22	2	1	2	2	2	3	-	2	3	2	1	2
Dermatitis, Eosinophilic	2	-	-	1	-	-	-	-	-	-	-	-	1
Dermatitis, Eosinophilic Granuloma	2	1	-	-	-	-	-	-	-	-	-	1	-
Dermatitis, Focal	128	13	11	6	17	11	9	13	8	7	14	11	8
Dermatitis, Folliculitis	11	-	2	2	2	1	2	-	-	1	1	-	-
Dermatitis, Granulation Tissue	13	-	-	1	1	-	1	2	-	3	2	-	3
Dermatitis, Granulomatous	136	11	10	13	20	12	9	15	7	8	8	14	9
Dermatitis, Lupus Erythematosus	2	-	-	-	-	-	-	-	-	-	-	-	2
Dermatitis, Mycotic	6	-	-	1	2	1	2	-	-	-	-	-	-
Dermatitis, Pemphigus	3	1	-	-	-	-	1	1	-	-	-	-	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Dermatitis, Podo	29	2	2	3	4	1	2	-	4	2	5	3	1
Dermatitis, Ulcerative	1	-	1	-	-	-	-	-	-	-	-	-	-
Dermatosis, Endocrine	19	2	1	3	2	3	1	2	-	1	1	2	1
Hematoma	10	-	-	2	1	2	-	1	1	-	-	1	2
Mammary-Duct Ectasia	4	2	-	-	-	-	-	-	-	-	1	-	1
Mammary-Hyperplasia	9	1	1	-	-	2	-	-	2	1	1	-	1
Mammary-Mamillitis	2	1	-	-	-	-	-	-	1	-	-	-	-
Mammary-Mastitis	5	-	-	1	-	1	-	-	1	-	-	-	2
Mammary-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	-	-	-	1
Mammary-Neoplasm, Adenocarcinoma	116	6	11	9	16	8	8	6	7	8	9	10	18
Mammary-Neoplasm, Adenoma	77	4	4	8	9	10	7	7	5	4	7	3	7
Mammary-Neoplasm, Duct Carcinoma	2	-	-	-	-	-	1	-	-	-	-	1	1
Mammary-Neoplasm, Mastocytoma	1	-	-	-	-	-	-	-	-	-	1	-	-
Mammary-Neoplasm, Mixed, Benign	37	1	5	7	4	1	4	5	1	1	3	-	5
Mammary-Neoplasm, Mixed, Malignant	18	2	-	-	3	-	2	1	1	-	7	2	-
Mammary-Neoplasm, Osteosarcoma	2	-	-	-	-	-	-	-	-	-	-	1	1
Mammary-Neoplasm, Sarcoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Mammary-Neoplasm, Myoepithelioma	1	-	-	-	-	-	-	-	-	-	-	-	1
Nail Bed-Neoplasm (NOS)	7	-	-	-	3	-	1	1	-	-	2	-	-
Nail Bed-Neoplasm, Melanoma	12	-	1	-	2	1	1	3	1	1	1	-	1
Neoplasm (NOS)	16	1	1	1	1	2	-	3	-	2	2	1	2
Neoplasm, Adenocarcinoma	6	-	2	1	-	-	-	-	-	-	1	1	1
Neoplasm, Adenoma	4	-	-	-	1	-	-	-	-	-	2	1	-
Neoplasm, Anal Sac Carcinoma	4	-	-	-	-	1	-	-	-	1	1	-	1
Neoplasm, Apocrine Adenocarcinoma	8	-	-	-	-	-	-	1	2	1	2	1	1
Neoplasm, Basal Cell Tumor	63	7	5	4	5	5	5	7	4	3	11	5	2
Neoplasm, Carcinoma	6	-	-	-	-	-	1	1	-	-	1	1	2
Neoplasm, Fibroma	39	-	2	2	7	2	2	6	1	3	6	6	2
Neoplasm, Fibropapilloma	9	-	1	2	1	-	-	1	1	-	-	2	1
Neoplasm, Fibrosarcoma	36	-	3	3	7	3	3	2	2	6	2	5	-
Neoplasm, Hemangioma	55	5	4	6	6	6	3	9	6	4	2	3	1
Neoplasm, Hemangiopericytoma	42	4	5	2	7	3	4	2	3	1	3	4	4
Neoplasm, Hemangiosarcoma	15	-	2	-	2	1	-	2	1	1	4	2	-
Neoplasm, Histiocytoma	196	13	24	10	18	15	12	22	20	16	21	17	8
Neoplasm, Intracutaneous Cornifying Epithelioma	19	-	1	2	2	1	1	-	3	2	1	2	4
Neoplasm, Leiomyoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Neoplasm, Lipoma	83	6	4	9	5	12	4	10	6	4	11	7	5
Neoplasm, Liposarcoma	4	2	-	1	-	-	-	-	-	-	-	1	-
Neoplasm, Lymphangioma	2	-	-	-	1	-	-	-	-	-	-	1	-
Neoplasm, Mastocytoma	202	20	27	9	15	21	13	26	16	14	10	17	14
Neoplasm, Melanoma	68	6	5	5	5	4	6	7	7	2	5	9	7
Neoplasm, Myxosarcoma	8	1	-	1	-	-	1	-	1	1	-	1	2

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Neoplasm, Neurofibrosarcoma	4	-	-	-	-	1	-	-	-	1	1	1	-
Neoplasm, Papilloma	27	2	1	5	3	1	1	2	2	5	2	1	2
Neoplasm, Perianal Gland Adenoma	93	7	13	10	6	11	3	8	5	11	4	9	6
Neoplasm, Perianal Gland Carcinoma	22	1	-	4	-	1	2	1	1	1	4	4	3
Neoplasm, Pilomatrixoma	7	1	-	1	-	-	2	1	1	1	-	-	-
Neoplasm, Plasmacytoma	2	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Rhabdomyosarcoma	2	-	-	-	-	2	-	-	-	-	-	-	-
Neoplasm, Sarcoma, Anaplastic	40	3	5	1	2	1	5	1	3	4	4	9	2
Neoplasm, Sebaceous Gland Adenoma	105	6	3	7	9	10	13	13	12	10	9	7	6
Neoplasm, Sebaceous Gland Adenocarcinoma	3	-	-	-	-	-	-	2	-	1	-	-	-
Neoplasm, Squamous Cell Carcinoma	19	3	1	-	1	1	3	1	-	2	1	2	4
Neoplasm, Trichoepithelioma	43	-	2	6	5	3	4	4	4	3	3	3	6
Parasitism (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Parasitism, Mites	8	1	-	1	-	1	-	-	3	-	1	-	1
Scar	1	-	-	-	-	-	1	-	-	-	-	-	-
Seroma	1	-	-	-	1	-	-	-	-	-	-	-	-
Skin-Hyperkeratosis	6	-	-	-	-	-	1	1	2	1	-	1	-
Skin-Parakeratosis	2	-	-	-	-	-	-	1	1	-	-	-	-
Steatitis	40	4	2	5	1	5	-	3	5	5	6	3	1
2 Musculoskeletal													
Arthritis	2	-	-	-	-	-	-	-	-	-	2	-	-
Arthritis, Non-Suppurative	2	2	-	-	-	-	-	-	-	-	-	-	-
Arthrosis	2	-	-	-	-	1	-	-	-	-	-	1	-
Bone-Fracture	6	-	-	-	-	2	-	-	1	-	1	-	2
Bone-Neoplasm, Chondroma	2	-	-	-	-	1	-	-	-	-	1	-	-
Bone-Neoplasm, Chondrosarcoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Bone-Neoplasm, Fibrosarcoma	1	-	-	-	1	-	-	-	-	-	-	-	-
Bone-Neoplasm, Osteoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Bone-Neoplasm, Osteosarcoma	19	-	2	2	1	4	1	-	1	2	2	1	3
Bone-Neoplasm, Sarcoma	4	-	1	1	-	-	1	-	-	-	1	-	-
Bone-Osteitis	2	-	1	-	-	-	-	-	-	-	1	-	-
Bone-Osteomalacia	2	-	2	-	-	-	-	-	-	-	-	-	-
Bone-Osteomyelitis	3	-	-	-	-	-	1	1	1	-	-	-	-
Bone-Perosis	1	-	-	-	-	-	-	-	-	-	1	-	-
Muscle-Degeneration	3	-	-	1	-	-	-	-	-	-	1	-	1
Muscle-Myositis	4	2	-	-	-	-	-	-	-	-	1	-	1
Muscle-Neoplasm, Rhabdomyosarcoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Synovium-Synovitis	3	-	-	1	-	-	-	-	1	1	-	-	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
3 Respiratory													
Respiratory Disorders, Total Cases	99	15	11	8	5	6	5	10	9	5	8	11	6
Aspergillosis	2	-	-	-	-	-	-	1	-	1	-	-	-
Larynx-Laryngitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Lung-Congestion	2	1	-	1	-	-	-	-	-	-	-	-	-
Lung-Edema	9	2	-	1	-	1	1	2	1	-	-	1	-
Lung-Hemorrhage	7	2	1	-	-	1	1	-	-	-	-	2	-
Lung-Neoplasm (NOS)	3	-	-	1	-	-	-	-	-	-	1	1	-
Lung-Neoplasm, Adenocarcinoma	2	-	-	1	-	-	-	-	-	-	-	-	1
Lung-Neoplasm, Carcinoma	4	-	-	1	-	1	-	1	1	-	-	-	-
Lung-Neoplasm, Sarcoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Lung-Parasitism (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia	2	-	-	-	-	-	-	-	1	-	1	-	-
Lung-Pneumonia, Adenovirus	1	-	-	-	-	-	-	-	-	-	-	1	-
Lung-Pneumonia, <i>Bordetella bronchiseptica</i>	7	-	-	1	-	-	-	-	2	1	2	1	-
Lung-Pneumonia, <i>Bordetella sp.</i>	2	1	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, Broncho	24	6	3	-	4	1	1	1	2	1	-	2	3
Lung-Pneumonia, <i>Escherichia coli</i>	6	1	1	-	-	1	-	-	-	-	3	-	-
Lung-Pneumonia, Foreign Body	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Interstitial	4	-	3	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, <i>Klebsiella sp.</i>	2	-	2	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Mycotic	1	-	-	-	-	-	-	1	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	2	-	-	-	-	-	-	-	-	-	-	2	-
Lung-Pneumonia, <i>Streptococcus sp.</i>	2	-	-	-	-	-	-	-	-	1	1	-	-
Lung-Thrombosis	2	-	-	-	-	1	1	-	-	-	-	-	-
Nasal-Neoplasm (NOS)	3	-	-	-	-	-	-	2	-	-	-	-	1
Nasal-Neoplasm, Adenocarcinoma	3	-	-	1	-	-	-	2	-	-	-	-	-
Nasal-Rhinitis	2	-	-	-	-	-	-	-	-	1	-	1	-
Pleura-Pleuritis	3	1	-	-	1	-	-	-	-	-	-	1	-
Sinus-Sinusitis	3	-	1	1	-	-	-	1	-	-	-	-	-
Trachea-Tracheitis	1	-	-	-	-	-	-	-	1	-	-	-	-
6 Cardiovascular													
Blood Vessel-Aortic Rupture	1	-	-	-	-	-	-	1	-	-	-	-	-
Blood Vessel-Arteriosclerosis	2	-	-	-	1	1	-	-	-	-	-	-	-
Blood Vessel-Arteritis	2	-	-	-	1	-	1	-	-	-	-	-	-
Blood Vessel-Neoplasm, Chemodectoma	1	-	-	-	1	-	-	-	-	-	-	-	-
Heart-Anomaly	3	1	-	-	-	-	-	-	-	1	1	-	-
Heart-Cardiomyopathy	9	1	1	-	1	-	1	1	2	-	1	1	-
Heart-Endocardiosis	8	1	-	-	-	-	3	1	-	1	2	-	-
Heart-Endocarditis	3	-	-	-	-	-	-	1	1	-	-	1	-
Heart-Heart Failure, Acute	6	-	1	-	-	-	-	-	1	-	2	1	1

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Heart-Heart Failure, Chronic	13	1	-	2	1	-	3	1	1	1	2	1	-
Heart-Myocardial Degeneration	5	-	-	-	1	-	-	1	-	2	1	-	-
Heart-Neoplasm, Hemangiosarcoma	5	-	1	1	-	-	-	1	-	1	1	-	-
Heart-Parasitism, <i>Dirofilaria sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
5 Hemic and Lymphatic													
Blood-Anemia	3	1	-	-	-	-	-	-	-	-	2	-	-
Blood-Anemia, Hemolytic	10	2	1	1	1	-	-	1	2	1	-	-	1
Blood-Coagulation Disorder	1	-	-	-	-	-	-	-	-	-	1	-	-
Blood-Hemorrhage, Focal	3	3	-	-	-	-	-	-	-	-	-	-	-
Blood-Hemorrhage, Generalized	11	-	4	1	-	-	1	-	1	1	3	-	-
Blood-Parasitism, <i>Hemobartonella sp.</i>	1	-	-	-	-	-	1	-	-	-	-	-	-
Bone Marrow-Neoplasm (NOS)	2	-	-	-	1	1	-	-	-	-	-	-	-
Bone Marrow-Neoplasm, Multiple Myeloma	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone Marrow-Neoplasm, Myeloproliferative Disorder	5	-	1	-	1	-	-	-	2	-	-	1	-
Lymph Node-Hyperplasia	16	1	1	2	2	3	2	-	1	-	-	3	1
Lymph Node-Lymphadenitis	9	3	1	1	-	2	-	1	-	-	-	1	-
Lymph Node-Neoplasm, Lymphosarcoma	162	12	16	7	25	9	10	13	14	12	8	14	22
Lymph Node-Neoplasm, Metastatic	5	1	1	-	-	1	1	1	-	-	-	-	-
Spleen-Hematoma	8	-	2	-	2	2	1	-	-	1	-	-	-
Spleen-Infarct	3	-	-	1	-	1	-	-	-	-	1	-	-
Spleen-Neoplasm (NOS)	4	-	-	-	-	1	-	-	1	1	-	1	-
Spleen-Neoplasm, Hemangioma	3	-	-	-	-	1	-	1	-	1	-	-	-
Spleen-Neoplasm, Hemangiosarcoma	14	-	1	-	-	2	4	2	-	-	3	1	1
Spleen-Neoplasm, Leiomyosarcoma	2	-	-	-	-	-	-	1	1	-	-	-	-
Spleen-Nodular Hyperplasia	5	-	-	1	-	-	-	1	1	-	2	-	-
Spleen-Siderotic Plaque	2	-	-	-	-	-	-	1	-	-	-	-	1
Spleen-Splenitis	2	-	1	-	-	-	-	1	-	-	-	-	-
Thymus-Neoplasm, Lymphosarcoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Tonsil-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	-	-	1	-	-	-	-	-
6 Digestive													
Bile Duct-Neoplasm, Carcinoma	1	-	-	-	1	-	-	-	-	-	-	-	-
Esophagus-Esophagitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Esophagus-Obstruction "Choke"	1	-	-	-	-	-	-	1	-	-	-	-	-
Feces-Microbiologic Examination	95	12	13	11	7	5	3	8	6	11	6	7	6
Intestine-Colitis	6	-	1	-	1	1	-	-	-	-	2	-	1
Intestine-Enteritis, Adenovirus	1	-	1	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, Coronavirus	7	-	2	-	1	-	-	-	3	1	-	-	-
Intestine-Enteritis, Eosinophilic	2	-	1	-	-	-	-	-	1	-	-	-	-
Intestine-Enteritis, <i>Escherichia coli</i>	3	2	-	-	-	-	-	-	1	-	-	-	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Intestine-Enteritis, Idiopathic	16	3	1	-	1	2	2	-	1	2	2	1	1
Intestine-Enteritis, Necrotic	3	-	2	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, Parvovirus	152	22	12	17	11	11	8	14	14	13	12	6	12
Intestine-Enteritis, Rotavirus	4	1	-	-	-	-	-	1	-	-	-	2	-
Intestine-Enteritis, <i>Salmonella</i> sp.	5	2	1	-	-	1	-	1	-	-	-	-	-
Intestine-Hemorrhage	2	1	-	-	-	1	-	-	-	-	-	-	-
Intestine-Infarction	2	-	-	-	-	-	-	-	-	-	-	2	-
Intestine-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	-	-	1	-
Intestine-Neoplasm, Adenocarcinoma	3	1	1	-	-	-	-	1	-	-	-	-	-
Intestine-Neoplasm, Carcinoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Neoplasm, Leiomyoma	2	-	-	1	-	-	-	-	-	-	-	-	1
Intestine-Neoplasm, Leiomyosarcoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Neoplasm, Polyp	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Obstruction	2	-	-	1	-	-	-	1	-	-	-	-	-
Intestine-Parasitism, <i>Ancylostoma</i> sp.	3	1	-	-	-	-	-	-	1	1	-	-	-
Intestine-Parasitism, <i>Ascaris</i>	7	-	-	-	2	1	-	-	1	-	1	1	1
Intestine-Parasitism, Coccidia	14	1	3	-	3	1	-	1	1	-	1	3	-
Intestine-Parasitism, <i>Giardia</i> sp.	2	-	-	-	1	-	-	-	-	1	-	-	-
Intestine-Parasitism, Nematode	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, Stongyles (NOS)	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Volvulus	7	-	2	-	2	-	1	-	1	-	-	1	-
Lip-Chelitis	8	-	1	-	-	2	-	2	1	-	1	1	-
Lip-Chelitis, Eosinophilic Granuloma	1	-	-	-	1	-	-	-	-	-	-	-	-
Lip-Neoplasm (NOS)	6	-	1	-	-	-	1	1	1	1	-	1	-
Lip-Neoplasm, Basal Cell Tumor	3	1	-	-	-	-	-	1	-	-	1	-	-
Lip-Neoplasm, Carcinoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Lip-Neoplasm, Fibroma	1	-	-	-	1	-	-	-	-	-	-	-	-
Lip-Neoplasm, Histiocytoma	18	-	1	2	1	-	2	3	3	-	4	2	-
Lip-Neoplasm, Mastocytoma	3	-	-	-	-	-	2	-	-	1	-	-	-
Lip-Neoplasm, Melanoma	15	-	3	3	1	-	-	-	3	1	-	2	2
Lip-Neoplasm, Sarcoma	4	-	1	1	1	-	-	-	-	1	-	-	-
Liver-Cirrhosis	7	1	-	-	-	1	-	1	-	1	1	2	-
Liver-Hepatitis	5	-	-	-	1	3	-	-	-	-	1	-	-
Liver-Hepatopathy	2	-	-	-	-	1	-	-	-	-	1	-	-
Liver-Hepatositis	26	3	3	4	4	-	1	2	1	-	2	6	-
Liver-Lipidosis	22	4	1	-	2	2	2	1	3	-	2	2	3
Liver-Neoplasm (NOS)	6	-	-	-	2	1	1	1	1	-	-	-	-
Liver-Neoplasm, Hepatoma	2	-	-	-	-	-	-	-	-	1	-	-	1
Liver-Nodular Hyperplasia	5	-	-	-	2	1	-	-	-	1	-	-	1
Oral Cavity-Gingivitis	3	-	-	-	1	-	-	-	1	-	-	1	-
Oral Cavity-Glossitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Oral Cavity-Neoplasm (NOS)	11	1	1	1	1	1	-	-	1	1	1	2	1

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Oral Cavity-Neoplasm, Carcinoma	1	1	-	-	-	-	-	-	-	-	-	-	-
Oral Cavity-Neoplasm, Epulis	103	8	7	5	8	5	2	11	6	9	14	15	13
Oral Cavity-Neoplasm, Fibrosarcoma	9	1	1	-	1	-	-	2	1	-	1	1	1
Oral Cavity-Neoplasm, Hemangioma	1	-	-	1	-	-	-	-	-	-	-	-	-
Oral Cavity-Neoplasm, Mastocytoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Oral Cavity-Neoplasm, Melanoma	28	1	-	2	7	1	2	3	2	3	3	3	1
Oral Cavity-Neoplasm, Odontoma	1	-	1	-	-	-	-	-	-	-	-	-	-
Oral Cavity-Neoplasm, Osteosarcoma	7	-	-	2	-	-	3	-	-	2	-	-	-
Oral Cavity-Neoplasm, Sarcoma	4	-	-	2	-	-	-	2	-	-	-	-	-
Oral Cavity-Neoplasm, Squamous Cell Carcinoma	19	-	2	-	3	-	-	1	2	3	3	5	-
Oral Cavity-Neoplasm, Squamous Papilloma	1	-	1	-	-	-	-	-	-	-	-	-	-
Oral Cavity-Stomatitis	39	4	2	5	1	1	6	7	3	1	2	7	-
Oral Cavity-Stomatitis, Eosinophilic Granuloma	2	-	-	-	-	-	-	2	-	-	-	-	-
Pancreas-Neoplasm, Adenocarcinoma	3	-	-	-	-	-	2	1	-	-	-	-	-
Pancreas-Pancreatitis	7	-	-	-	-	-	1	1	2	-	-	3	-
Rectum-Neoplasm, Adenocarcinoma	5	-	-	1	1	-	-	-	1	-	2	-	-
Rectum-Neoplasm, Leiomyosarcoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Rectum-Neoplasm, Polyp	11	-	3	-	3	3	-	-	-	-	-	-	2
Rectum-Proctitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Salivary Gland-Cyst	3	-	1	-	-	-	-	-	-	-	2	-	-
Salivary Gland-Neoplasm, Carcinoma	3	-	2	-	-	-	-	-	-	-	-	1	-
Salivary Gland-Sialoadenitis	3	-	-	-	-	1	-	-	-	1	1	-	-
Stomach-Gastritis	1	-	1	-	-	-	-	-	-	-	-	-	-
Stomach-Neoplasm (NOS)	2	-	-	-	-	1	-	1	-	-	-	-	-
Stomach-Neoplasm, Adenocarcinoma	2	-	-	-	-	-	-	-	1	1	-	-	-
Stomach-Ulcer	3	1	1	-	-	-	-	1	-	-	-	-	-
Stomach-Volvulus	4	-	-	-	-	-	-	-	1	-	1	2	-
<u>7 Urogenital</u>													
Abortion, Anomaly	1	-	-	-	-	-	1	-	-	-	-	-	-
Abortion, Idiopathic	1	1	-	-	-	-	-	-	-	-	-	-	-
Abortion, Specimen Unsuitable	4	-	-	-	1	-	1	1	-	-	1	-	-
Genital-Anomaly	1	-	1	-	-	-	-	-	-	-	-	-	-
Genital-Bacteriologic Examination	77	4	3	7	3	12	6	6	7	10	5	8	6
Kidney-Cyst	2	-	-	-	-	-	-	-	1	-	-	1	-
Kidney-Dysplasia	1	-	-	1	-	-	-	-	-	-	-	-	-
Kidney-Hypoplasia	2	-	-	-	-	-	-	1	-	-	-	1	-
Kidney-Mineralization	1	-	-	-	-	-	-	1	-	-	-	-	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Kidney-Neoplasm (NOS)	2	-	-	-	-	-	-	-	1	1	-	-	-
Kidney-Neoplasm, Carcinoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Kidney-Nephritis	5	2	-	-	-	-	-	-	-	1	1	-	1
Kidney-Nephritis, End-Stage	8	-	-	2	-	-	1	-	1	2	-	1	1
Kidney-Nephritis, Glomerulo	14	-	-	2	2	1	1	2	2	2	-	2	-
Kidney-Nephritis, Interstitial	2	-	-	-	-	1	-	1	-	-	-	-	-
Kidney-Nephritis, Pyelo	2	-	-	1	-	-	-	1	-	-	-	-	-
Kidney-Nephrosis	14	2	1	-	2	1	-	-	4	1	1	2	-
Ovary-Neoplasm (NOS)	8	2	-	-	-	-	2	-	1	-	1	1	1
Penis-Neoplasm, Papilloma	1	-	-	-	-	-	1	-	-	-	-	-	-
Prepuce-Neoplasm (NOS)	1	-	-	-	1	-	-	-	-	-	-	-	-
Prostate-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	-	1	-	-
Prostate-Neoplasm, Adenocarcinoma	2	1	-	-	-	-	1	-	-	-	-	-	-
Prostate-Prostatitis	3	1	-	-	-	-	-	-	1	1	-	-	-
Stillbirth, Idiopathic	1	-	-	-	-	-	1	-	-	-	-	-	-
Testicle-Atrophy	6	2	1	-	1	-	1	-	-	-	-	-	1
Testicle-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	-	1	-	-
Testicle-Neoplasm, Interstitial Cell Tumor	19	3	1	2	-	2	1	2	-	2	1	3	2
Testicle-Neoplasm, Seminoma	26	5	2	1	2	3	2	1	4	4	-	2	-
Testicle-Neoplasm, Sertoli Cell Tumor	21	2	2	1	3	-	3	1	3	2	2	-	2
Testicle-Orchitis	6	-	2	1	1	1	-	-	-	-	-	1	-
Urinary Bladder-Neoplasm (NOS)	3	-	-	-	1	-	-	-	1	-	-	-	1
Urinary Bladder-Neoplasm, Leiomyosarcoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Urinary Bladder-Neoplasm, Polyp	7	1	-	-	1	-	1	-	-	4	-	-	-
Urinary Bladder-Neoplasm, Transitional Cell Carcinoma	11	-	1	-	2	2	-	1	1	2	1	1	-
Urinary Bladder-Urocystitis	14	2	2	-	1	1	2	1	2	-	-	-	3
Urinary Bladder-Urolithiasis	3	1	-	-	-	-	-	-	1	-	1	-	-
Urine-Bacteriologic Examination	170	15	5	9	9	7	20	19	10	26	13	19	18
Urine-Hematuria	1	-	-	1	-	-	-	-	-	-	-	-	-
Uterus-Endometrial Hyperplasia	10	1	-	1	-	1	1	3	1	1	-	1	-
Uterus-Metritis	7	1	1	-	1	-	1	-	-	-	-	2	1
Uterus-Neoplasm (NOS)	2	-	-	-	-	-	-	1	-	-	1	-	-
Uterus-Neoplasm, Leiomyoma	2	-	-	-	-	1	-	-	-	-	1	-	-
Vagina-Neoplasm (NOS)	6	-	2	1	1	-	1	-	-	-	1	-	-
Vagina-Neoplasm, Carcinoma	1	-	-	-	-	-	-	1	-	-	-	-	-
Vagina-Neoplasm, Fibroleiomyoma	4	-	-	-	-	-	1	-	1	-	1	1	-
Vagina-Neoplasm, Leiomyoma	4	-	-	-	-	-	-	1	2	-	-	1	-
Vagina-Vaginitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Vulva-Neoplasm (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
8 Endocrine													
Adrenal-Atrophy	4	1	-	-	-	-	-	-	1	1	1	-	-
Adrenal-Hyperplasia	2	-	-	-	-	-	2	-	-	-	-	-	-
Adrenal-Necrosis	2	-	-	-	1	-	-	-	-	-	1	-	-
Adrenal-Neoplasm, Carcinoma	3	-	-	-	1	-	-	-	1	-	-	-	1
Thyroid-Atrophy	2	-	-	-	1	-	-	-	1	-	-	-	-
Thyroid-Hypothyroidism	1	1	-	-	-	-	-	-	-	-	-	-	-
Thyroid-Neoplasm, Carcinoma	9	1	1	-	1	1	1	-	-	2	-	2	-
Thyroid-Thyroiditis	1	-	-	-	-	-	-	1	-	-	-	-	-
9 Nervous													
Neurological Disorders, Total Cases	65	7	5	2	5	2	5	7	8	3	13	2	6
Brain-Anomaly	9	-	-	1	2	-	1	2	-	-	2	1	-
Brain-Encephalitis, Distemper	20	4	2	-	-	-	2	1	3	1	5	-	2
Brain-Encephalitis, Granulomatous	4	-	-	-	-	-	-	-	-	-	3	1	-
Brain-Encephalitis, Non-Suppurative	1	-	-	-	-	-	-	1	-	-	-	-	-
Brain-Encephalitis, Pseudorabies	1	-	-	-	-	-	-	-	1	-	-	-	-
Brain-Encephalitis, Rabies	16	4	1	1	2	1	1	2	-	2	-	1	1
Brain-Encephalitis, Reticulosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Brain-Encephalomalacia	3	-	-	1	1	-	-	1	-	-	-	-	-
Brain-Encephalopathy	1	-	-	-	-	-	-	1	-	-	-	-	-
Brain-Hemorrhage	2	-	-	-	-	-	-	-	2	-	-	-	-
Brain-Neoplasm (NOS)	1	-	-	-	-	-	-	-	1	-	-	-	-
Meninges-Meningitis, Non-Suppurative	3	-	-	-	2	-	-	-	-	-	1	-	-
Meninges-Meningitis, Suppurative	4	1	1	-	-	1	-	-	-	-	-	-	1
Neurological Disorders, Idiopathic	13	1	2	-	-	-	2	1	1	2	1	-	3
X Special Senses													
Ear-Dermatitis	3	-	-	-	1	-	-	-	1	1	-	-	-
Ear-Neoplasm (NOS)	4	1	-	-	-	-	-	1	-	-	1	-	1
Ear-Neoplasm, Basal Cell Tumor	8	-	-	-	1	-	-	1	-	1	1	2	2
Ear-Neoplasm, Carcinoma	3	-	-	-	-	-	-	2	-	-	1	-	-
Ear-Neoplasm, Ceruminous Gland Adenoma	2	1	-	-	-	-	-	1	-	-	-	-	-
Ear-Neoplasm, Ceruminous Gland Carcinoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Ear-Neoplasm, Histiocytoma	36	1	3	1	5	4	3	5	3	3	4	4	-
Ear-Neoplasm, Intraocular													
Cornifying Epithelioma	1	-	-	-	-	-	-	-	-	1	-	-	-
Ear-Neoplasm, Mastocytoma	1	-	-	-	-	-	-	1	-	-	-	-	-
Ear-Neoplasm, Melanoma	4	-	-	1	-	-	-	-	-	-	-	-	3
Ear-Neoplasm, Papilloma	2	-	-	-	-	-	-	-	-	-	2	-	-
Ear-Neoplasm, Sarcoma	3	-	-	1	-	-	-	-	1	-	1	-	-

CANINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Ear-Neoplasm, Sebaceous Gland Adenoma	2	-	-	-	-	-	-	-	1	-	1	-	-
Ear-Otitis	87	12	4	3	8	5	8	8	8	6	8	12	5
Ear-Polyp	2	-	-	-	-	-	-	-	-	-	1	1	-
Eye-Conjunctivitis	8	-	-	-	2	-	1	1	1	1	2	-	-
Eye-Keratitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Eye-Neoplasm (NOS)	2	-	-	1	-	-	-	1	-	-	-	-	-
Eye-Neoplasm, Melanoma	2	-	-	-	-	-	-	-	-	-	2	-	-
Eye-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Eye-Ophthalmitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Eyelid-Blepharitis	12	2	-	1	-	-	1	2	1	-	-	3	2
Eyelid-Neoplasm	6	-	1	-	-	-	-	1	2	-	1	1	-
Eyelid-Neoplasm, Basal Cell Tumor	3	-	-	-	-	1	-	-	-	-	1	-	1
Eyelid-Neoplasm, Histiocytoma	8	-	1	1	-	-	1	2	-	2	1	-	-
Eyelid-Neoplasm, Melanoma	14	-	2	-	2	1	2	1	-	3	-	1	2
Eyelid-Neoplasm, Papilloma	8	1	1	-	-	-	1	4	-	1	-	-	-
Eyelid-Neoplasm, Sebaceous Gland Adenoma	35	3	3	1	1	3	3	3	5	4	1	5	3

CAPRINE

0 Body as a Whole

Anomaly	2	-	-	-	1	-	-	-	1	-	-	-	-
Caseous Lymphadenitis	2	-	-	-	1	-	-	-	-	-	1	-	-
Deficiency, Copper	1	-	-	-	-	-	-	1	-	-	-	-	-
Emaciation	1	-	1	-	-	-	-	-	-	-	-	-	-

1 Integumentary

Abscess	1	-	1	-	-	-	-	-	-	-	-	-	-
Dermal Fibrosis	1	-	-	1	-	-	-	-	-	-	-	-	-
Dermatitis, Diffuse	1	-	-	1	-	-	-	-	-	-	-	-	-
Dermatitis, Eosinophilic	1	-	-	-	-	-	-	-	-	-	-	1	-
Mammary-Mastitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Parasitism, Lice	1	-	-	-	-	-	-	1	-	-	-	-	-
Steatitis	1	-	-	-	-	-	-	-	-	-	-	1	-

2 Musculoskeletal

Bone-Malformation	1	-	-	-	-	-	-	-	-	1	-	-	-
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3 Respiratory

Lung-Edema	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Actinomyces pyogenes</i>	1	-	1	-	-	-	-	-	-	-	-	-	-

CAPRINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Lung-Pneumonia, Interstitial	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Moraxella sp.</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	2	-	1	-	-	-	-	-	1	-	-	-	-
4 Cardiovascular													
Heart-Heart Failure, Chronic	2	-	-	-	1	-	-	-	-	1	-	-	-
Heart-Myocardial Degeneration	1	-	-	1	-	-	-	-	-	-	-	-	-
5 Hemic and Lymphatic													
Blood-Anemia	1	-	-	-	1	-	-	-	-	-	-	-	-
Lymph Node-Lymphadenitis	1	-	-	1	-	-	-	-	-	-	-	-	-
6 Digestive													
Feces-Microbiologic Examination	3	-	-	-	-	-	-	1	-	1	-	1	-
Intestine-Enteritis, <i>Mycobacterium paratuberculosis</i>	4	1	-	-	1	-	-	-	1	-	-	-	1
Intestine-Enteritis, Rotavirus	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Parasitism, Coccidia	2	-	-	-	-	-	-	1	-	-	-	-	1
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Parasitism, Strongyles (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Liver-Lipidosis	2	-	-	1	1	-	-	-	-	-	-	-	-
Stomach-Parasitism, <i>Haemonchus sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Stomach-Rumen Tympany (Bloat)	2	-	1	-	-	-	-	-	-	-	-	-	1
7 Urogenital													
Abortion, Goiter	1	1	-	-	-	-	-	-	-	-	-	-	-
Abortion, Idiopathic	3	-	-	-	-	-	-	3	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	-	-	-	-	1	-
Kidney-Nephrosis	1	-	-	1	-	-	-	-	-	-	-	-	-
8 Endocrine													
Thyroid-Goiter	1	-	-	-	1	-	-	-	-	-	-	-	-
9 Nervous													
Brain-Encephalomalacia	1	-	-	-	-	-	1	-	-	-	-	-	-
Brain-Encephalopathy	1	-	-	-	-	-	-	-	-	1	-	-	-
Meninges-Meningitis, Suppurative	2	-	-	-	1	-	-	1	-	-	-	-	-

EQUINE

EQUINE	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
<u>0 Body as a Whole</u>													
Anomaly	1	-	-	-	-	-	-	-	-	1	-	-	-
Emaciation	1	-	-	-	-	-	-	-	-	1	-	-	-
Hernia, Diaphragmatic	2	-	-	-	-	-	-	-	-	1	1	-	-
Icterus	1	-	-	-	-	-	-	-	-	-	-	-	1
Mineralization	1	-	-	-	-	-	-	-	-	-	1	-	-
Neonatal Death	4	-	-	-	-	-	-	-	1	2	1	-	-
Neonatal Weakness	1	-	-	-	-	-	-	-	1	-	-	-	-
Neoplasm, Carcinoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Neoplasm, Carcinoma, Metastatic	1	1	-	-	-	-	-	-	-	-	-	-	-
Omphalitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Peritonitis	2	-	-	-	-	-	-	-	-	1	1	-	-
Septicemia, <i>Actinobacillus equuli</i>	2	-	-	-	-	-	-	-	-	1	1	-	-
Septicemia, <i>Bacillus piliformis</i> (Tyzzer's Disease)	1	-	1	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Escherichia coli</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Rhodococcus equi</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	2	-	-	-	-	1	-	-	-	-	1	-	-
Septicemia, <i>Streptococcus sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Sudden Unexpected Death	6	1	-	-	-	-	-	-	-	-	1	3	1
Trauma	5	1	-	-	-	1	1	-	1	-	1	-	-
Virus Infection, Herpes	1	-	-	-	-	-	-	-	1	-	-	-	-
<u>1 Integumentary</u>													
Abscess	1	-	-	-	-	-	-	-	-	-	-	1	-
Alopecia	1	-	-	-	-	-	-	1	-	-	-	-	-
Cellulitis	2	-	-	-	-	1	-	-	-	-	-	1	-
Cyst, Adenaxal	2	-	1	-	-	-	-	1	-	-	-	-	-
Dermal Fibrosis	3	-	-	1	-	-	-	-	1	-	-	-	1
Dermatitis, Allergic	1	-	-	-	-	-	-	-	-	-	-	1	-
Dermatitis, Bacterial (NOS)	1	-	-	-	-	-	-	-	1	-	-	-	-
Dermatitis, Diffuse	1	-	-	1	-	-	-	-	-	-	-	-	-
Dermatitis, Eosinophilic	5	1	-	1	1	-	-	-	-	1	-	1	-
Dermatitis, Focal	10	-	-	1	2	1	1	1	-	-	-	2	2
Dermatitis, Granulation Tissue	3	1	-	-	-	-	-	2	-	-	-	-	-
Dermatitis, Granulomatous	6	-	-	1	-	1	2	-	1	-	-	1	-
Dermatitis, Mycotic	2	-	1	-	-	-	-	1	-	-	-	-	-
Dermatitis, Nodular Necrobiosis	4	2	-	-	-	-	-	-	-	-	1	1	-
Dermatitis, Ulcerative	1	-	-	-	1	-	-	-	-	-	-	-	-

EQUINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Mammary-Mastitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	1	-	-	-
Neoplasm, Basal Cell Tumor	1	-	-	-	-	-	-	-	1	-	-	-	-
Neoplasm, Fibroma	3	-	-	-	-	-	-	-	1	-	1	1	-
Neoplasm, Hemangiosarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Neoplasm, Lipoma	1	-	-	-	-	-	-	-	-	-	1	-	-
Neoplasm, Mastocytoma	5	-	2	1	-	1	-	-	-	-	-	1	-
Neoplasm, Melanoma	11	1	-	1	-	1	2	-	1	-	2	1	2
Neoplasm, Neurofibrosarcoma	2	1	-	-	-	-	-	-	-	-	-	-	1
Neoplasm, Papilloma	3	1	-	-	-	-	-	-	-	-	1	1	-
Neoplasm, Sarcoid	15	1	2	1	2	1	1	-	-	-	4	1	2
Neoplasm, Squamous Cell Carcinoma	4	-	-	1	-	-	-	1	-	-	1	-	1
Skin-Hyperkeratosis	1	-	-	-	-	-	-	-	1	-	-	-	-
2 Musculoskeletal													
Bone-Fracture	1	-	-	-	-	-	1	-	-	-	-	-	-
Bone-Malformation	1	-	-	-	-	1	-	-	-	-	-	-	-
Muscle-Degeneration	1	-	-	-	-	-	-	-	-	-	-	-	1
Muscle-Myositis	1	-	1	-	-	-	-	-	-	-	-	-	-
3 Respiratory													
Respiratory Disorders, Total Cases	16	3	1	-	-	2	-	-	-	5	2	1	2
Lung-Abscess	1	-	-	-	-	-	-	-	-	-	1	-	-
Lung-Bronchitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Lung-Edema	3	-	-	-	-	-	-	-	-	2	-	1	-
Lung-Pneumonia	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	4	2	-	-	-	1	-	-	-	1	-	-	-
Lung-Pneumonia, Interstitial	1	-	-	-	-	-	-	-	-	1	-	-	-
Lung-Pneumonia, <i>Klebsiella sp.</i>	2	1	1	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Mycotic	1	-	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, <i>Streptococcus sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Nasal-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	1	-	-	-
6 Cardiovascular													
Blood Vessel-Aortic Rupture	1	-	-	-	-	-	-	-	-	-	-	-	1
Blood Vessel-Arteritis, Verminous	1	-	-	-	-	1	-	-	-	-	-	-	-
Blood Vessel-Vasculitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Heart-Anomaly	1	-	1	-	-	-	-	-	-	-	-	-	-

EQUINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
5 Hemic and Lymphatic													
Lymph Node-Hyperplasia	1	-	-	-	-	-	-	-	-	-	-	-	1
Lymph Node-Lymphadenitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Lymph Node-Neoplasm, Lymphosarcoma	1	-	-	-	-	-	-	-	-	-	-	1	-
6 Digestive													
Feces-Microbiologic Examination	30	4	3	2	3	2	1	-	-	3	9	3	-
Intestine-Colitis	4	-	-	-	1	-	1	-	-	2	-	-	-
Intestine-Colitis X	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Enteritis, Eosinophilic	1	-	1	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, Idiopathic	4	-	1	1	1	-	1	-	-	-	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	2	-	1	-	1	-	-	-	-	-	-	-	-
Intestine-Obstruction	3	-	1	-	-	-	-	-	-	2	-	-	-
Intestine-Parasitism, Ascaris	2	-	-	-	1	-	-	-	-	1	-	-	-
Intestine-Parasitism, Nematode	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Parasitism, Strongyles	2	-	-	-	1	-	-	-	1	-	-	-	-
Intestine-Parasitism, <i>Strongyloides sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Trichostrongyle sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Torsion	1	-	-	-	1	-	-	-	-	-	-	-	-
Lip-Neoplasm, Mastocytoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Liver-Hepatopathy	1	-	-	-	-	-	1	-	-	-	-	-	-
Liver-Hepatitis	2	-	-	-	1	-	-	-	-	-	-	1	-
Liver-Infarction	1	-	-	-	-	1	-	-	-	-	-	-	-
Oral Cavity-Gingivitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Oral Cavity-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	-	-	1	-	-	-	-	-
Oral Cavity-Stomatitis	3	-	-	-	1	-	-	-	-	-	1	1	-
Rectum-Neoplasm, Fibroma	1	-	-	1	-	-	-	-	-	-	-	-	-
Stomach-Ulcer	1	1	-	-	-	-	-	-	-	-	-	-	-
7 Urogenital													
Abortion, Total Cases	32	-	-	1	4	3	4	8	3	4	3	-	2
Abortion, Anomaly	1	-	-	-	1	-	-	-	-	-	-	-	-
Abortion, Bacterial (NOS)	1	-	-	-	-	-	-	-	-	-	-	-	1
Abortion, Bacterial, <i>Actinobacillus sp.</i>	2	-	-	-	-	1	-	-	-	-	-	-	1
Abortion, Bacterial, <i>Escherichia coli</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Abortion, Bacterial, <i>Streptococcus sp.</i>	4	-	-	-	-	-	1	1	-	1	-	-	1
Abortion, Equine Viral Rhinopneumonitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Abortion, Idiopathic	20	-	-	1	3	1	3	5	2	2	3	-	-
Abortion, Mummified Fetus	1	-	-	-	-	-	-	1	-	-	-	-	-
Abortion, Placentitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Abortion, Twins	1	-	-	-	-	1	-	-	-	-	-	-	-
Genital-Bacteriologic Examination	47	3	2	2	-	4	-	1	2	9	10	11	3

EQUINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Kidney-Infarction	1	-	-	-	-	1	-	-	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	-	1	-	-	-	-
Kidney-Nephritis, Interstitial	1	1	-	-	-	-	-	-	-	-	-	-	-
Kidney-Nephrosis	4	1	-	-	-	1	1	-	-	-	-	1	-
Ovary-Neoplasm, Granulosa Cell Tumor	1	-	1	-	-	-	-	-	-	-	-	-	-
Penis-Neoplasm, Squamous Cell Carcinoma	2	-	-	-	-	-	1	-	-	-	-	1	-
Prepuce-Neoplasm, Squamous Cell Carcinoma	2	-	-	-	-	-	-	1	-	-	1	-	-
Stillbirth, Idiopathic	1	-	-	-	-	-	-	-	-	-	1	-	-
Testicle-Atrophy	1	-	1	-	-	-	-	-	-	-	-	-	-
Urine-Bacteriologic Examination	1	-	-	-	-	1	-	-	-	-	-	-	-
Uterus-Endometrial Biopsy	7	1	-	-	1	1	-	1	-	-	1	2	-
Uterus-Metritis	6	1	-	-	-	-	-	-	2	-	1	2	-
Vagina-Neoplasm (NOS)	1	-	1	-	-	-	-	-	-	-	-	-	-
Vas Deferens-Normal	1	-	-	-	-	-	-	-	-	-	1	-	-
Vulva-Neoplasm, Squamous Cell Carcinoma	3	1	-	-	-	-	-	-	-	-	-	2	-
8 Endocrine													
Thyroid-Goiter	2	-	-	-	-	-	-	-	-	-	2	-	-
Thyroid-Neoplasm, Adenoma	1	-	1	-	-	-	-	-	-	-	-	-	-
9 Nervous													
Brain-Abscess	1	-	-	-	-	-	-	-	-	-	1	-	-
Brain-Encephalitis, Rabies	5	-	-	-	1	-	1	1	-	1	-	-	1
Brain-Encephalopathy	2	-	-	-	-	-	1	-	1	-	-	-	-
Neurologic Disorder, Idiopathic	5	-	1	1	-	-	-	-	-	-	-	2	1
X Special Senses													
Ear-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	-	-	-	1
Ear-Neoplasm, Fibroma	1	-	-	-	-	-	-	-	-	-	-	-	1
Ear-Neoplasm, Mastocytoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Ear-Neoplasm, Papilloma	1	-	-	-	-	-	-	-	-	-	-	1	-
Ear-Otitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Eye-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Eyelid-Neoplasm, Sarcoid	2	-	-	1	-	-	1	-	-	-	-	-	-
Eyelid-Neoplasm, Squamous Cell Carcinoma	3	-	-	-	-	-	1	-	-	-	1	-	1

FELINE

0 Body as a Whole

Amyloidosis	2	-	-	-	1	-	-	-	1	-	-	-	-
Anomaly	3	-	-	-	-	-	-	-	-	-	1	1	1
Deficiency, Zinc	1	-	-	-	-	1	-	-	-	-	-	-	-

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Effusion, Peritoneal	2	-	1	-	-	-	-	1	-	-	-	-	-
Effusion, Pleural	2	-	-	-	-	-	-	1	-	-	-	-	1
Effusion, Pyothorax	5	-	1	-	1	1	-	-	2	-	-	-	-
Emaciation	2	-	-	-	-	1	-	-	-	-	-	-	1
Feline Infectious Peritonitis	35	5	4	1	4	2	2	3	2	6	-	4	2
Feline Panleukopenia	20	-	2	-	3	2	3	4	1	1	1	2	1
Granulomas, Generalized	1	-	-	-	-	-	1	-	-	-	-	-	-
Hernia, Diaphragmatic	3	-	1	-	-	-	-	-	1	-	-	-	1
Mineralization	2	-	-	-	-	-	1	1	-	-	-	-	-
Mycosis, <i>Blastomyces sp.</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
Mycosis, <i>Cryptococcus sp.</i>	2	-	-	-	-	1	-	-	-	-	-	1	-
Neoplasm, Carcinoma, Metastatic	1	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Hemangiosarcoma, Metastatic	1	-	-	-	-	-	-	-	1	-	-	-	-
Neoplasm, Sarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Neoplasm, Sarcoma, Metastatic	1	-	-	-	-	-	-	-	-	-	-	-	1
Obesity	1	-	-	-	-	-	-	-	-	-	-	-	1
Parasitism, Toxoplasma	3	-	-	1	-	-	-	1	-	-	-	-	1
Peritonitis	5	1	1	-	1	-	-	-	-	-	1	-	1
Septicemia, Bacterial (NOS)	2	-	-	1	-	-	-	-	-	-	1	-	-
Septicemia, Erysipelothrix	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Escherichia coli</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Klebsiella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Pasteurella multocida</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Pseudomonas sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	2	-	1	-	-	-	-	-	1	-	-	-	-
Septicemia, <i>Streptococcus sp.</i>	2	-	-	-	1	-	-	-	-	-	1	-	-
Sudden Unexpected Death	20	1	1	1	2	1	3	4	2	3	1	-	1
Toxicosis (NOS)	1	-	-	-	1	-	-	-	-	-	-	-	-
Toxicosis, Ethylene Glycol	3	-	-	-	-	-	-	3	-	-	-	-	-
Toxicosis, Organophosphate	3	-	-	-	1	-	-	1	1	-	-	-	-
Toxicosis, Strychnine	1	-	-	-	-	-	-	-	-	-	-	-	1
Trauma	10	-	1	2	-	1	1	2	1	-	-	1	1
Virus Infection, Herpes	1	-	-	-	-	-	-	-	-	1	-	-	-
1 Integumentary													
Abscess	2	-	-	-	1	-	-	-	-	-	-	-	1
Alopecia	2	1	-	-	-	-	1	-	-	-	-	-	-
Cellulitis	8	-	2	-	1	1	-	-	1	1	1	1	-
Cyst, Adnexal	12	-	1	1	2	-	-	2	1	1	3	-	1
Cyst, Epidermal	1	1	-	-	-	-	-	-	-	-	-	-	-
Dermal Fibrosis	3	1	-	-	-	1	-	1	-	-	-	-	-

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Dermatitis, Allergic	17	1	1	1	-	1	1	1	-	1	3	4	3
Dermatitis, Bacterial (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Dermatitis, Diffuse	4	-	-	-	-	-	2	-	1	1	-	-	-
Dermatitis, Eosinophilic	6	-	-	-	-	-	-	3	-	1	1	1	-
Dermatitis, Eosinophilic Granuloma	15	-	1	3	1	2	1	-	-	1	3	1	2
Dermatitis, Focal	20	3	2	3	-	2	2	-	-	2	5	-	1
Dermatitis, Folliculitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Dermatitis, Granulation Tissue	2	-	-	-	-	1	-	-	-	1	-	-	-
Dermatitis, Granulomatous	7	-	-	-	1	2	1	1	-	-	1	1	-
Dermatitis, Linear Granuloma	3	-	-	1	-	-	-	-	-	2	-	-	-
Dermatitis, Mycotic	6	-	-	-	-	1	2	1	-	1	-	1	-
Dermatitis, Pemphigus	1	-	-	1	-	-	-	-	-	-	-	-	-
Deramtitis, Podo	4	-	1	-	-	1	-	1	-	1	-	-	-
Mammary-Duct Ectasia	6	1	-	1	-	2	-	-	-	-	-	1	1
Mammary-Hyperplasia	6	-	-	-	-	-	-	-	1	2	2	1	-
Mammary-Neoplasm (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Mammary-Neoplasm, Adenocarcinoma	34	2	4	3	5	1	4	3	3	3	1	2	3
Mammary-Neoplasm, Adenoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Nail Bed-Neoplasm, Melanoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Neoplasm, Adenocarcinoma	6	1	-	-	-	1	-	-	1	-	2	1	-
Neoplasm, Adenoma	2	-	-	-	-	-	-	1	-	-	-	-	1
Neoplasm, Anal Sac Carcinoma	2	-	-	1	-	1	-	-	-	-	-	-	-
Neoplasm, Apocrine Adenocarcinoma	2	-	-	-	-	-	-	1	1	-	-	-	-
Neoplasm, Basal Cell Tumor	36	3	2	2	3	3	-	2	2	4	5	6	4
Neoplasm, Carcinoma, Anaplastic	6	1	-	1	-	2	-	-	-	1	-	-	1
Neoplasm, Fibroma	4	-	2	1	-	-	-	-	1	-	-	-	-
Neoplasm, Fibropapilloma	1	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Fibrosarcoma	13	-	-	1	2	2	1	-	1	1	3	1	1
Neoplasm, Hemangioma	1	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Hemangiopericytoma	1	-	-	-	-	-	-	-	1	-	-	-	-
Neoplasm, Hemangiosarcoma	2	-	-	-	1	-	1	-	-	-	-	-	-
Neoplasm, Lipoma	5	-	-	3	-	-	-	-	-	-	1	-	1
Neoplasm, Liposarcoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Neoplasm, Lymphosarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Neoplasm, Mastocytoma	26	3	3	4	2	2	3	1	1	1	1	2	3
Neoplasm, Melanoma	5	-	2	-	-	-	-	1	1	-	-	-	1
Neoplasm, Myxosarcoma	1	-	-	-	-	-	-	-	-	-	1	-	-
Neoplasm, Neurofibrosarcoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Neoplasm, Plasmacytoma	1	-	-	-	-	-	-	-	-	-	1	-	-
Neoplasm, Sarcoma, Anaplastic	8	2	1	1	-	-	-	-	1	-	3	-	-
Neoplasm, Sebaceous Gland Adenoma	10	1	-	-	3	1	-	1	-	-	3	-	1
Neoplasm, Squamous Cell Carcinoma	6	2	-	-	-	-	-	1	-	-	1	1	1

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Neoplasm, Trichoepithelioma	1	1	-	-	-	-	-	-	-	-	-	-	-
Parasitism, Fleas	2	-	-	-	1	1	-	-	-	-	-	-	-
Parasitism, Lice	1	-	-	-	-	-	-	-	-	-	1	-	-
Parasitism, Mites	1	1	-	-	-	-	-	-	-	-	-	-	-
Seroma	1	-	1	-	-	-	-	-	-	-	-	-	-
Skin-Hyperkeratosis	1	-	-	-	-	-	-	1	-	-	-	-	-
Steatitis	10	3	2	-	-	1	1	1	-	-	1	-	1
2 Musculoskeletal													
Bone-Fracture	5	-	-	-	-	-	1	1	-	-	-	2	1
Bone-Neoplasm	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone-Neoplasm, Fibrosarcoma	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone-Neoplasm, Osteosarcoma	6	1	1	1	-	-	-	-	-	1	2	-	-
Bone-Osteitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone-Osteodystrophy	1	-	-	-	-	1	-	-	-	-	-	-	-
Bone-Osteomalacia	1	-	1	-	-	-	-	-	-	-	-	-	-
Muscle-Neoplasm, Rhabdomyosarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
3 Respiratory													
Respiratory Disorders, Total Cases	53	6	13	3	5	4	2	7	4	2	1	3	3
Feline Viral Rhinotracheitis	2	-	-	-	-	-	-	1	1	-	-	-	-
Lung-Edema	9	-	3	1	-	-	-	1	1	-	-	2	1
Lung-Hemorrhage	3	-	-	1	1	-	-	-	-	1	-	-	-
Lung-Neoplasm, Carcinoma	2	1	1	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Bordetella bronchiseptica</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
Lung-Pneumonia, <i>Bordetella sp.</i>	4	2	2	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	5	-	1	-	1	-	1	-	-	1	-	1	-
Lung-Pneumonia, Calcivirus	2	1	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, <i>Escherichia coli</i>	3	-	-	-	-	1	-	2	-	-	-	-	-
Lung-Pneumonia, Interstitial	4	-	-	-	-	1	-	-	2	-	1	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	3	-	1	-	-	1	-	1	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Streptococcus sp.</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Lung-Pneumonia, <i>Streptococcus suis</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Thrombosis	1	-	-	-	-	-	1	-	-	-	-	-	-
Nasal-Neoplasm (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Nasal-Rhinitis	4	1	1	-	1	1	-	-	-	-	-	-	-
Nasal-Rhinitis, Idiopathic	1	1	-	-	-	-	-	-	-	-	-	-	-
Nasal-Rhinitis, <i>Pasteurella multocida</i>	2	-	1	-	-	-	-	1	-	-	-	-	-
Pleura-Pleuritis	2	-	1	-	1	-	-	-	-	-	-	-	-

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Respiratory Infection (NOS)	1	-	1	-	-	-	-	-	-	-	-	-	-
Sinus-Sinusitis	2	-	-	1	1	-	-	-	-	-	-	-	-
4 Cardiovascular													
Blood Vessel-Arteriosclerosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Blood Vessel-Disorder, Idiopathic	1	-	1	-	-	-	-	-	-	-	-	-	-
Heart-Cardiomyopathy	22	3	3	3	1	2	1	1	2	2	-	3	1
Heart-Epicarditis	1	-	-	-	-	-	-	1	-	-	-	-	-
Heart-Heart Failure, Chronic	5	1	-	1	-	-	-	2	1	-	-	-	-
Heart-Myocardial Degeneration	3	-	-	-	1	-	-	1	1	-	-	-	-
Heart-Myocarditis	4	-	-	1	-	-	-	1	-	2	-	-	-
Heart-Pericarditis	1	-	1	-	-	-	-	-	-	-	-	-	-
5 Hemic and Lymphatic													
Blood-Anemia	1	1	-	-	-	-	-	-	-	-	-	-	-
Blood-Anemia, Hemolytic	2	1	-	-	-	-	-	1	-	-	-	-	-
Blood-Coagulation Disorder	1	-	-	-	-	-	-	1	-	-	-	-	-
Blood-Hemorrhage, Generalized	6	-	-	-	-	1	-	2	1	1	1	-	-
Bone Marrow-Neoplasm (NOS)	1	-	-	-	1	-	-	-	-	-	-	-	-
Bone Marrow-Neoplasm, Myeloproliferative Disorder	15	2	1	2	-	-	2	2	1	1	2	2	-
Lymph Node-Hyperplasia	8	-	1	-	1	-	1	1	-	-	-	3	1
Lymph Node-Lymphadenitis	6	-	1	-	-	2	-	-	1	-	1	-	1
Lymph Node-Neoplasm, Lymphosarcoma	31	3	2	-	3	7	3	3	-	1	1	7	1
Lymph Node-Neoplasm, Metastatic	2	-	-	-	-	-	-	2	-	-	-	-	-
Spleen-Neoplasm, Hemangiosarcoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Tonsil-Hyperplasia	1	-	-	-	-	-	-	-	-	-	1	-	-
Tonsil-Tonsilitis	3	-	-	1	-	-	-	-	-	1	-	1	-
6 Digestive													
Bile Duct-Neoplasm	1	-	1	-	-	-	-	-	-	-	-	-	-
Bile Duct-Neoplasm, Carcinoma	3	-	1	-	-	-	-	-	1	-	-	-	1
Feces-Microbiologic Examination	11	2	1	1	-	-	1	4	-	1	1	-	-
Intestine-Anomaly	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Colitis	3	-	-	-	1	-	-	-	-	-	1	-	1
Intestine-Enteritis, Coronavirus	3	-	-	-	-	-	-	-	-	1	1	1	-
Intestine-Enteritis, Enterovirus	1	-	-	1	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Escherichia coli</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, Idiopathic	4	2	-	-	1	1	1	-	-	-	-	-	1
Intestine-Enteritis, Necrotic	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Enteritis, Parvovirus	5	-	1	1	-	2	-	-	1	-	-	-	-
Intestine-Enteritis, Rotavirus	1	1	-	-	-	-	-	-	-	-	-	-	-

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Intestine-Enteritis, <i>Salmonella sp.</i>	3	-	-	-	1	-	1	-	1	-	-	-	-
Intestine-Infarction	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Intussusception	1	-	-	-	-	1	-	-	-	-	-	-	-
Intestine-Neoplasm (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Intestine-Neoplasm, Adenocarcinoma	3	1	-	1	-	-	-	1	-	-	-	-	-
Intestine-Parasitism (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, Ascaris	2	-	-	-	1	1	-	-	-	-	-	-	-
Intestine-Parasitism, Cestode	2	-	-	-	-	1	1	-	-	-	-	-	-
Intestine-Parasitism, Coccidia	2	-	-	1	-	1	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	2	1	1	-	-	-	-	-	-	-	-	-	-
Intestine-Rupture	1	-	-	-	-	-	-	-	-	-	-	-	1
Lip-Chelitis	3	-	-	-	-	-	-	-	-	-	1	1	1
Lip-Chelitis, Eosinophilic Granuloma	12	-	4	-	2	1	-	-	-	1	3	-	1
Lip-Neoplasm, Carcinoma	1	1	-	-	-	-	-	-	-	-	-	-	-
Lip-Neoplasm, Mastocytoma	2	-	1	-	1	-	-	-	-	-	-	-	-
Lip-Neoplasm, Squamous Cell Carcinoma	2	-	-	-	-	-	-	-	-	2	-	-	-
Liver-Cirrhosis	1	-	1	-	-	-	-	-	-	-	-	-	-
Liver-Hepatitis	7	1	-	-	2	-	2	-	-	1	1	-	-
Liver-Hepatopathy	2	-	-	-	-	-	2	-	-	-	-	-	-
Liver-Hepatositis	8	1	-	1	-	1	2	2	-	1	-	-	-
Liver-Lipidosis	27	3	-	4	1	3	3	1	1	2	2	1	6
Liver-Neoplasm (NOS)	2	-	-	-	-	-	1	-	-	-	-	-	1
Oral Cavity-Gingivitis	2	-	1	-	1	-	-	-	-	-	-	-	-
Oral Cavity-Glossitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Oral Cavity-Neoplasm (NOS)	2	-	-	-	-	-	-	-	-	-	1	-	1
Oral Cavity-Neoplasm, Carcinoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Oral Cavity-Neoplasm, Epulis	3	-	-	-	1	-	1	-	-	-	-	1	-
Oral Cavity-Neoplasm, Fibrosarcoma	3	-	1	-	1	1	-	-	-	-	-	-	-
Oral Cavity-Neoplasm, Osteosarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Oral Cavity-Neoplasm, Sarcoma	4	-	-	-	-	1	-	2	-	1	-	-	-
Oral Cavity-Neoplasm, Squamous Cell Carcinoma	32	1	6	3	1	1	1	2	3	2	2	6	4
Oral Cavity-Stomatitis	23	-	2	3	3	4	4	3	2	1	-	-	1
Oral Cavity-Stomatitis, Eosinophilic Granuloma	3	-	-	-	-	-	1	2	-	-	-	-	-
Pancreas-Neoplasm (NOS)	1	-	1	-	-	-	-	-	-	-	-	-	-
Pancreas-Neoplasm, Adenocarcinoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Pancreas-Pancreatitis	4	-	1	2	-	-	-	-	-	-	-	1	-
Salivary Gland-Neoplasm, Carcinoma	1	-	-	-	-	-	-	1	-	-	-	-	-
Stomach-Gastritis	2	-	1	-	-	1	-	-	-	-	-	-	-
Stomach-Neoplasm (NOS)	2	-	-	-	-	-	1	1	-	-	-	-	-
Stomach-Neoplasm, Sarcoma	1	-	-	-	-	-	-	-	-	-	-	-	1
Stomach-Ulcer	1	-	-	-	-	-	-	-	-	-	-	1	-

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
7 Urogenital													
Abortion, Bacterial, <i>Escherichia coli</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Abortion, Bacterial, <i>Streptococcus sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Abortion, Specimen Unsuitable	2	1	-	-	-	-	-	-	-	-	-	1	-
Dystocia	1	-	-	-	1	-	-	-	-	-	-	-	-
Kidney-Cyst	3	-	-	-	-	1	-	-	-	-	1	-	1
Kidney-Hypoplasia	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Infarction	3	1	1	-	1	-	-	-	-	-	-	-	-
Kidney-Mineralization	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Neoplasm, Carcinoma	3	-	1	-	-	-	-	1	1	-	-	-	-
Kidney-Neoplasm, Sarcoma	1	-	-	-	-	-	-	-	-	-	1	-	-
Kidney-Nephritis	1	-	-	-	-	-	-	-	-	-	-	1	-
Kidney-Nephritis, End Stage	1	-	-	-	-	-	-	1	-	-	-	-	-
Kidney-Nephritis, Glomerulo	8	1	-	-	3	1	1	-	-	1	-	-	1
Kidney-Nephritis, Interstitial	5	1	-	-	1	-	2	-	1	-	-	-	-
Kidney-Nephritis, Pyelo	1	-	-	1	-	-	-	-	-	-	-	-	-
Kidney-Nephrosis	9	-	1	-	-	1	-	4	-	-	1	1	1
Kidney-Urolithiasis	3	-	-	-	1	-	1	-	-	-	-	-	1
Urinary Bladder, Neoplasm, Polyp	1	-	-	-	-	-	-	-	-	-	1	-	-
Urinary Bladder-Neoplasm, Transitional Cell Tumor	1	-	-	-	1	-	-	-	-	-	-	-	-
Urinary Bladder-Urocystitis	9	-	2	-	-	-	-	1	1	3	1	1	-
Urinary Bladder-Urolithiasis	5	-	-	-	-	1	-	1	1	1	1	-	-
Urine-Bacteriologic Examination	71	4	1	5	4	4	7	7	4	5	12	9	6
Uterus-Endometrial Hyperplasia	5	1	-	-	-	-	-	-	-	1	-	2	1
8 Endocrine													
Pituitary-Neoplasm, Adenoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Thyroid-Goiter	1	-	-	-	-	1	-	-	-	-	-	-	-
Thyroid-Neoplasm, Adenoma	3	-	-	-	-	1	-	-	-	-	-	-	2
9 Nervous													
Neurological Disorders, Total Cases	21	3	1	1	3	2	2	2	1	-	1	-	5
Brain-Anomaly	2	-	-	-	1	-	-	-	-	-	-	-	1
Brain-Encephalitis, Non-Suppurative	3	-	-	-	-	-	-	-	1	-	-	-	2
Brain-Encephalitis, Rabies	9	-	-	1	2	1	2	1	-	1	1	-	-
Brain-Encephalomalacia	1	-	-	-	-	-	-	1	-	-	-	-	-
Meninges-Meningitis, Non-Suppurative	1	-	1	-	-	-	-	-	-	-	-	-	-
Meninges-Meningitis, Suppurative	1	-	-	-	-	1	-	-	-	-	-	-	-
Neurological Disorder, Idiopathic	12	3	-	1	2	1	1	1	-	-	1	-	2

FELINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
X Special Senses													
Ear-Neoplasm (NOS)	2	-	-	-	1	1	-	-	-	-	-	-	-
Ear-Neoplasm, Carcinoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Ear-Neoplasm, Ceruminous Gland Adenoma	2	1	-	-	1	-	-	-	-	-	-	-	-
Ear-Neoplasm, Ceruminous Gland Carcinoma	5	-	-	-	-	2	-	2	-	-	-	-	1
Ear-Neoplasm, Fibroma	1	-	-	-	-	-	-	-	-	1	-	-	-
Ear-Neoplasm, Hemangioma	1	-	-	-	-	-	-	-	-	-	1	-	-
Ear-Neoplasm, Mastocytoma	2	-	-	-	-	-	1	-	-	-	-	1	-
Ear-Neoplasm, Melanoma	1	-	-	-	-	-	-	-	-	-	1	-	-
Ear-Neoplasm, Squamous Cell Carcinoma	2	-	-	-	-	-	1	-	-	-	1	-	-
Ear-Otitis	10	-	-	1	3	1	1	-	2	2	-	-	-
Ear-Parasitism, Mites	1	-	-	1	-	-	-	-	-	-	-	-	-
Ear-Polyp	3	-	-	-	-	-	-	-	-	-	1	1	1
Eye-Conjunctivitis	7	1	-	1	-	1	-	-	-	4	-	-	-
Eye-Neoplasm, Melanoma	2	-	-	-	-	1	-	1	-	-	-	-	-
Eyelid-Neoplasm	3	-	-	-	-	-	-	-	-	1	-	2	-
Eyelid-Neoplasm, Melanoma	1	-	-	-	-	-	-	1	-	-	-	-	-
Eyelid-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	-	-	-	-	-	-	1	-

FISH, AMPHIBIANS & REPTILES

AQUARIUM FISH

Effusion, Peritoneal	1	-	-	-	1	-	-	-	-	-	-	-	-
Gill-Branchitis	4	-	-	1	1	-	-	1	-	-	-	1	-
Kidney-Nephrosis	1	-	-	-	-	-	-	1	-	-	-	-	-
Lung-Bronchitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Pancreas-Pancreatitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Septicemia, Bacterial (NOS)	1	-	-	-	-	-	-	-	-	1	-	-	-
Tuberculosis	4	-	-	2	-	-	-	-	-	-	1	1	-

FRESH WATER FISH

Virus Infection, Herpes	1	-	-	-	-	-	-	-	1	-	-	-	-
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FROG

Kidney-Neoplasm, Carcinoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	-	-	-	-	1	-
Liver-Hepatopathy	1	-	-	-	-	-	-	-	1	-	-	-	-
Septicemia, Bacterial (NOS)	1	-	-	-	-	-	-	-	1	-	-	-	-

FISH, AMPHIBIANS & REPTILES (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
LIZARD/IGUANA													
Gout	1	-	-	-	-	-	-	-	-	1	-	-	-
Heart-Myocardial Degeneration	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	2	1	-	-	-	1	-	-	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	-	-	1	-	-	-
Kidney-Nephrosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Liver-Lipidosis	2	-	-	1	-	-	-	-	-	-	-	1	-
Mineralization	3	1	-	-	-	-	1	-	-	1	-	-	-
Muscle-Degeneration	1	1	-	-	-	-	-	-	-	-	-	-	-
Muscle-Myositis	1	-	-	-	-	-	-	-	-	1	-	-	-
Oral Cavity-Stomatitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Septicemia, <i>Pseudomonas sp.</i>	1	-	-	-	-	-	1	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	1	-	-	-
Urine-Bacteriologic Examination	1	-	-	1	-	-	-	-	-	-	-	-	-
SALAMANDER													
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Parasitism (NOS)	1	-	-	-	-	-	-	-	-	-	-	-	1
Oral Cavity-Stomatitis	1	-	-	-	-	-	-	1	-	-	-	-	-
SNAKE													
Cyst, Adnexal	1	-	-	-	1	-	-	-	-	-	-	-	-
Dermatitis, Focal	1	-	1	-	-	-	-	-	-	-	-	-	-
Emaciation	2	-	-	-	-	-	-	-	2	-	-	-	-
Feces-Microbiologic Examination	2	-	-	1	-	-	-	-	-	-	-	1	-
Gout	1	1	-	-	-	-	-	-	-	-	-	-	-
Heart-Myocarditis	1	-	-	-	-	-	-	-	1	-	-	-	-
Liver-Lipidosis	1	1	-	-	-	-	-	-	-	-	-	-	-
Muscle-Degeneration	1	-	-	-	-	1	-	-	-	-	-	-	-
Septicemia, <i>Aeromonas sp.</i>	1	-	-	-	-	-	-	-	-	-	1	-	-
Septicemia, <i>Salmonella sp.</i>	3	-	-	-	-	-	-	-	1	-	1	1	-
Stomach-Ulcer	1	1	-	-	-	-	-	-	-	-	-	-	-
Urine-Bacteriologic Examination	1	-	-	-	-	-	-	-	-	-	-	-	1
TURTLE													
Feces-Microbiologic Examination	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Parasitism (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	2	1	-	-	-	1	-	-	-	-	-	-	-
Intestine-Parasitism, Nematode	2	2	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	1	-	-	-	-	-	-	-	-	1	-	-	-

FISH, AMPHIBIANS & REPTILES (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
UNKNOWN													
Air Sac-Airsacculitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Heart-Myocarditis	1	-	-	-	-	-	-	-	-	-	1	-	-
Stomach-Gastritis	1	-	-	-	-	-	-	-	-	-	1	-	-

MISCELLANEOUS MAMMALS

AMERICAN MINIATURE HORSE

Abortion, Idiopathic	2	-	-	-	-	-	-	-	-	-	-	-	2
Feces-Microbiologic Examination	1	-	-	-	-	-	-	1	-	-	-	-	-
Genital-Bacteriologic Examination	1	-	-	-	-	-	-	-	-	-	-	-	1
Stillbirth, Idiopathic	2	-	-	-	-	-	-	-	-	-	-	-	2

BAT

Bone Fracture	1	1	-	-	-	-	-	-	-	-	-	-	-
Brain-Encephalitis, Rabies	22	4	4	3	2	1	3	-	-	-	1	4	-
Heart-Myocardial Degeneration	1	-	-	-	-	-	-	-	-	1	-	-	-
Muscle-Myositis	2	-	-	-	-	-	-	-	2	-	-	-	-
Sudden Unexpected Death	2	-	1	-	-	1	-	-	-	-	-	-	-

BEAR

Feces-Microbiologic Examination	1	-	-	-	-	-	-	-	-	1	-	-	-
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BEAVER

Dermatitis, Focal	1	-	-	-	-	-	-	-	-	-	1	-	-
Vas Deferens-Normal	1	-	-	-	1	-	-	-	-	-	-	-	-

BOBCAT

Feces-Microbiologic Examination	1	-	-	-	-	-	-	-	-	-	1	-	-
Feline Panleukopenia	1	-	-	1	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, Idiopathic	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	1	1	-	-	-	-	-	-	-	-	-	-	-

CAMEL

Brain-Encephalopathy	1	-	-	-	-	-	-	-	-	-	1	-	-
Dermatitis, Granulation Tissue	1	-	-	-	-	-	-	1	-	-	-	-	-
Intestine-Parasitism, <i>Trichuris sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-

CARIBOU

Oral Cavity-Stomatitis	1	-	-	-	-	-	-	-	-	-	-	1	-
Septicemia, Bacterial (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
CHINCHILLA													
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	1	-	-	-
Urine-Bacteriologic Examination	1	-	-	-	-	-	-	1	-	-	-	-	-
CHIPMUNK													
Neurologic Disorder, Idiopathic	1	-	-	1	-	-	-	-	-	-	-	-	-
COUGAR													
Liver-Hepatopathy	1	-	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, Broncho	1	-	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, <i>Salmonella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
DEER													
Abscess	2	-	-	-	-	1	1	-	-	-	-	-	-
Bone-Osteomalacia	2	1	-	-	-	-	-	-	-	-	-	-	1
Brain-Polioencephalomalacia	1	-	-	-	-	-	-	-	-	-	-	-	1
Deficiency, Copper	1	-	-	1	-	-	-	-	-	-	-	-	-
Feces-Microbiologic Examination	4	-	-	-	-	-	-	2	-	1	1	-	-
Health Evaluation, Normal	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Enteritis, <i>Mycobacterium paratuberculosis</i>	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Enteritis, Necrotic	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Enteritis, Reovirus	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Hemorrhage	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Parasitism, Coccidia	2	1	1	-	-	-	-	-	-	-	-	-	-
Liver-Lipidosis	1	-	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, <i>Actinomyces pyogenes</i>	2	-	-	-	-	-	-	1	-	-	1	-	-
Lung-Pneumonia, Broncho	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Escherichia coli</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	2	-	-	-	-	-	-	1	-	-	1	-	-
Mineralization	1	-	-	-	-	1	-	-	-	-	-	-	-
Muscle-Degeneration	1	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Fibroma	1	-	-	-	-	-	-	-	-	-	-	-	1
Neurologic Disorder, Idiopathic	3	-	1	-	-	-	-	-	1	-	1	-	-
Septicemia, <i>Bacillus piliformis</i> (Tyzzer's Disease)	1	-	-	-	-	-	-	-	-	-	-	1	-
Stomach-Foreign Body	1	-	-	-	-	-	1	-	-	-	-	-	-
Sudden Unexpected Death	1	1	-	-	-	-	-	-	-	-	-	-	-
Thyroid-Goiter	1	-	-	-	-	-	-	-	-	1	-	-	-
Trauma	1	-	-	1	-	-	-	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
ELK													
Intestine-Enteritis, <i>Mycobacterium paratuberculosis</i>	2	-	-	-	-	-	-	-	2	-	-	-	-
Lung-Edema	1	-	-	-	1	-	-	-	-	-	-	-	-
Nasal-Rhinitis	1	-	-	-	-	1	-	-	-	-	-	-	-
FERRET													
Adrenal-Hyperplasia	4	-	-	-	-	-	-	-	1	1	-	2	-
Adrenal-Neoplasm, Adenoma	2	-	-	-	-	-	-	-	-	1	1	-	-
Alopecia	1	-	-	-	1	-	-	-	-	-	-	-	-
Bone Marrow-Neoplasm, Myeloproliferative Disorder	1	-	-	-	-	-	1	-	-	-	-	-	-
Dermal Fibrosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Dermatitis, Focal	2	-	1	-	-	-	-	-	-	-	-	-	1
Feces-Microbiologic Examination	1	-	-	-	-	-	-	1	-	-	-	-	-
Intestine-Obstruction	1	-	-	-	-	-	1	-	-	-	-	-	-
Kidney-Nephritis, Glomerulo	2	-	-	1	-	-	-	-	-	1	-	-	-
Liver-Cyst	1	-	-	1	-	-	-	-	-	-	-	-	-
Lymph Node-Neoplasm, Lymphosarcoma	1	-	-	1	-	-	-	-	-	-	-	-	-
Neonatal Death	1	-	-	-	-	-	-	-	-	-	1	-	-
Neoplasm, Anal Sac Carcinoma	1	-	-	-	-	-	-	-	1	-	-	-	-
Neoplasm, Mastocytoma	1	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Myxosarcoma	1	-	-	-	-	-	-	-	1	-	-	-	-
Neurologic Disorder, Idiopathic	1	1	-	-	-	-	-	-	-	-	-	-	-
Spleen-Hematoma	1	-	-	-	-	-	-	-	1	-	-	-	-
Urine-Bacteriologic Examination	1	-	-	-	-	-	-	-	-	-	-	-	1
FOX													
Bone-Fracture	1	-	-	-	-	-	-	-	-	1	-	-	-
Brain-Encephalitis, Distemper	1	-	-	-	-	-	-	-	-	-	-	1	-
Brain-Encephalitis, Rabies	2	-	1	-	-	-	-	-	-	-	-	1	-
Heart-Heart Failure, Chronic	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, Specimen Unsuitable	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Parasitism, Ascaris	1	-	-	-	-	-	-	-	-	-	1	-	-
Kidney-Nephrosis	1	-	-	-	-	-	-	1	-	-	-	-	-
Liver-Lipidosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Parasitism, Mites	2	1	-	-	1	-	-	-	-	-	-	-	-
Toxicosis, Anticoagulant	1	-	-	-	1	-	-	-	-	-	-	-	-
Trauma	2	-	-	-	-	-	-	-	-	1	-	1	-
Urinary Bladder-Neoplasm, Polyp	1	-	1	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
GERBIL													
Lung-Pneumonia, Interstitial	1	-	-	-	-	-	-	-	-	1	-	-	-
GUINEA PIG													
Anomaly	1	-	-	-	-	-	-	-	-	-	-	-	1
Cellulitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Liver-Hepatitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Pneumonia, Interstitial	1	-	-	-	-	-	-	-	-	-	1	-	-
Mammary-Neoplasm, Adenocarcinoma	2	-	-	-	-	-	1	-	-	1	-	-	-
Mineralization	1	-	-	-	1	-	-	-	-	-	-	-	-
Muscle-Degeneration	1	-	-	-	-	1	-	-	-	-	-	-	-
Neoplasm, Papilloma	1	-	-	-	-	-	-	-	-	-	-	-	1
Stomach-Volvulus	1	-	-	-	-	-	1	-	-	-	-	-	-
Testicle-Orchitis	1	-	-	-	-	-	-	-	-	1	-	-	-
HAMSTER													
Liver-Cyst	1	1	-	-	-	-	-	-	-	-	-	-	-
Neoplasm, Carcinoma	1	-	-	-	-	-	-	-	-	-	-	-	1
KANGAROO													
Dermatitis, Podo	1	-	-	-	-	-	-	-	-	-	-	-	1
LEMUR/LORIS													
Feces-Microbiologic Examination	1	-	-	-	-	-	-	-	1	-	-	-	-
Skin-Hyperkeratosis	1	-	-	-	-	-	-	-	1	-	-	-	-
LEOPARD													
Feces-Microbiologic Examination	1	1	-	-	-	-	-	-	-	-	-	-	-
Genital-Bacteriologic Examination	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	2	1	-	-	1	-	-	-	-	-	-	-	-
Neoplasm, Carcinoma, Metastatic	1	-	-	-	1	-	-	-	-	-	-	-	-
Oral Cavity-Stomatitis	2	-	-	-	-	-	1	1	-	-	-	-	-
Urine-Bacteriologic Examination	3	-	-	-	1	2	-	-	-	-	-	-	-
LION													
Lung-Pneumonia, <i>Escherichia coli</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Oral Cavity-Stomatitis	1	-	-	-	-	1	-	-	-	-	-	-	-
LLAMA													
Abortion, Bacterial, <i>Leptospira sp.</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Abortion, Idiopathic	4	1	1	-	1	-	-	-	-	1	-	-	-
Blood-Coagulation Disorder	1	1	-	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
LLAMA (cont.)													
Blood-Hemorrhage, Generalized	1	-	-	-	1	-	-	-	-	-	-	-	-
Brain-Encephalitis, Rabies	1	-	-	-	-	-	-	-	1	-	-	-	-
Dermatitis, Diffuse	1	-	-	-	-	-	-	-	-	-	1	-	-
Dermatitis, Mycotic	1	-	-	-	-	1	-	-	-	-	-	-	-
Effusion, Pleural	1	-	-	-	1	-	-	-	-	-	-	-	-
Emaciation	1	-	-	-	-	-	-	1	-	-	-	-	-
Feces-Microbiologic Examination	5	-	-	1	-	2	1	-	-	1	-	-	-
Genital-Bacteriologic Examination	2	-	-	-	-	-	-	-	-	-	1	1	-
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Intestine-Neoplasm, Adenocarcinoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Parasitism, <i>Trichuris sp.</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Torsion	1	-	-	-	-	-	-	-	1	-	-	-	-
Liver-Hepatitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Lung-Edema	2	1	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia	1	-	-	1	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	1	-	-	-	-	-	1	-	-	-	-	-	-
Lymph Node-Lymphadenitis	1	1	-	-	-	-	-	-	-	-	-	-	-
Parasitism, Mites	1	-	1	-	-	-	-	-	-	-	-	-	-
Peritonitis	4	1	-	-	-	-	-	-	2	-	-	1	-
Stillbirth, Idiopathic	2	-	1	-	-	-	-	-	-	-	-	-	1
Stomach-Abomasal Ulcer	1	-	-	-	-	-	-	-	1	-	-	-	-
Stomach-Foreign Body	1	-	-	-	1	-	-	-	-	-	-	-	-
Stomach-Neoplasm, Squamous Cell Carcinoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Sudden Unexpected Death	2	1	-	-	-	-	-	-	-	-	1	-	-
Toxicosis, Organophosphate	1	-	-	-	-	-	-	-	1	-	-	-	-
Trauma	1	-	-	-	-	-	1	-	-	-	-	-	-
Uterus-Metritis	1	-	-	-	-	-	-	-	1	-	-	-	-
LYNX													
Lung-Edema	1	-	1	-	-	-	-	-	-	-	-	-	-
Muscle-Myositis	1	1	-	-	-	-	-	-	-	-	-	-	-
MINK													
Alopecia	1	-	-	-	-	-	-	-	-	-	-	-	1
Effusion, Pyothorax	1	1	-	-	-	-	-	-	-	-	-	-	-
Feline Panleukopenia	1	1	-	-	-	-	-	-	-	-	-	-	-
Heart-Cardiomyopathy	2	1	-	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, Idiopathic	2	-	-	-	-	-	-	-	-	1	-	-	1
Kidney-Nephritis	2	1	-	-	-	-	-	-	-	-	-	1	-
Lung-Pneumonia	1	-	-	-	-	-	-	-	-	-	-	1	-
Mammary-Mastitis	1	-	-	-	-	-	-	-	-	-	-	-	1

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
MINK (cont.)													
Tuberculosis	1	-	-	-	-	-	-	-	1	-	-	-	-
Uterus-Metritis	1	-	-	-	-	-	-	-	1	-	-	-	-
MONKEY													
Feces-Microbiologic Examination	1	-	-	-	-	-	-	1	-	-	-	-	-
Heart-Myocarditis	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Hemorrhage	1	-	-	1	-	-	-	-	-	-	-	-	-
Neonatal Death	1	-	-	-	-	-	-	-	-	1	-	-	-
Septicemia, <i>Streptococcus suis</i>	1	-	-	-	-	-	-	-	-	-	1	-	-
Sudden Unexpected Death	1	-	-	-	1	-	-	-	-	-	-	-	-
Vas Deferens-Normal	1	-	-	-	-	-	-	-	-	-	1	-	-
Virus Infection, Herpes	2	2	-	-	-	-	-	-	-	-	-	-	-
MOOSE													
Eyelid-Blepharitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Feces-Microbiologic Examination	2	-	-	-	-	-	-	-	-	2	-	-	-
MOUSE													
Lung-Edema	1	-	-	-	1	-	-	-	-	-	-	-	-
Steatitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	-	-	-	1
OPOSSUM													
Heart-Endocarditis	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Salmonella sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	-	1	-	-
Thyroid-Neoplasm, Adenoma	1	-	-	-	-	1	-	-	-	-	-	-	-
OTTER													
Feces-Microbiologic Examination	1	-	-	-	-	-	-	-	-	-	1	-	-
Liver-Lipidosis	1	-	-	-	-	-	-	-	-	-	1	-	-
Muscle-Degeneration	1	-	-	-	-	-	-	-	-	-	1	-	-
OX													
Abscess	2	-	-	1	-	1	-	-	-	-	-	-	-
Feces-Microbiologic Examination	2	-	-	-	2	-	-	-	-	-	-	-	-
Intestine-Intussusception	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Trichostrongyle sp.</i>	1	-	-	-	1	-	-	-	-	-	-	-	-
Kidney-Nephritis	1	-	1	-	-	-	-	-	-	-	-	-	-
Kidney-Nephritis, Interstitial	2	-	-	-	1	1	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	1	-	-	-	1	-	-	-	-	-	-	-	-
Polyserositis	1	-	1	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
PORCUPINE													
Trauma	1	-	-	1	-	-	-	-	-	-	-	-	-
PUMA													
Mammary-Hyperplasia	1	-	-	-	-	1	-	-	-	-	-	-	-
Sudden Unexpected Death	1	-	-	-	-	-	-	-	-	-	-	-	1
RABBIT													
Arthritis, <i>Staphylococcus sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Blood Vessel-Atherosclerosis	1	-	-	-	-	-	1	-	-	-	-	-	-
Blood-Coagulation Disorder	1	-	1	-	-	-	-	-	-	-	-	-	-
Blood-Hemorrhage, Generalized	1	1	-	-	-	-	-	-	-	-	-	-	-
Bone-Fracture	1	-	-	-	-	-	-	-	-	1	-	-	-
Brain-Hemorrhage	1	-	-	1	-	-	-	-	-	-	-	-	-
Dermatitis, Granulomatous	2	1	-	-	1	-	-	-	-	-	-	-	-
Ear-Otitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Ear-Parasitism, Mites	1	-	-	1	-	-	-	-	-	-	-	-	-
Effusion, Pyothorax	1	-	-	-	-	1	-	-	-	-	-	-	-
Eye-Keratitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Feces-Microbiologic Examination	2	1	-	1	-	-	-	-	-	-	-	-	-
Heart-Myocardial Degeneration	2	-	1	-	-	-	-	-	-	1	-	-	-
Heart-Myocarditis	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Colitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Enteritis, Idiopathic	3	-	-	-	-	-	-	-	1	1	1	-	-
Intestine-Enteritis, Parvovirus	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Parasitism, Coccidia	6	-	1	2	1	2	-	-	-	-	-	-	-
Kidney-Nephritis	1	-	1	-	-	-	-	-	-	-	-	-	-
Liver-Hepatitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Liver-Hepatosi	2	-	1	-	-	-	-	-	-	1	-	-	-
Liver-Torsion	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Edema	2	-	-	-	-	-	-	-	-	1	1	-	-
Lung-Pneumonia, Broncho	1	-	1	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	2	-	-	-	-	-	-	-	1	1	-	-	-
Mammary-Neoplasm, Adenoma	1	-	1	-	-	-	-	-	-	-	-	-	-
Meninges-Meningitis, Suppurative	3	-	1	-	-	-	-	1	-	1	-	-	-
Muscle-Degeneration	1	-	-	-	-	1	-	-	-	-	-	-	-
Neoplasm, Basal Cell Tumor	3	-	1	-	-	-	1	-	-	-	1	-	-
Neoplasm, Papilloma	1	-	-	-	-	-	-	-	1	-	-	-	-
Neoplasm, Sebaceous Gland Adenoma	1	-	-	-	-	-	-	-	-	-	-	1	-
Ovary-Neoplasm (NOS)	1	-	-	-	-	-	-	1	-	-	-	-	-
Respiratory Infection (NOS)	1	-	-	-	-	-	1	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
RABBIT (cont.)													
Respiratory Infection, <i>Pasteurella multocida</i>	1	-	-	-	-	-	1	-	-	-	-	-	-
Salivary Gland-Sialoadenitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Septicemia, <i>Bacillus piliformis</i> (Tyzzer's Disease)	1	-	-	-	-	-	-	-	-	-	-	1	-
Septicemia, <i>Pasteurella multocida</i>	3	-	-	-	1	-	-	-	-	1	-	-	1
Stillbirth, Idiopathic	1	-	-	-	-	-	-	-	1	-	-	-	-
Stomach-Rupture	1	-	1	-	-	-	-	-	-	-	-	-	-
Stomach Impaction	1	-	-	-	-	-	-	-	-	-	-	-	1
Trachea-Tracheitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Trauma	2	-	-	-	-	1	-	1	-	-	-	-	-
Uterus-Metritis	1	-	-	1	-	-	-	-	-	-	-	-	-
Uterus-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	-	1	-	-
Uterus-Neoplasm, Adenocarcinoma	1	-	-	-	-	-	-	1	-	-	-	-	-
RACCOON													
Brain-Encephalitis, Distemper	6	-	-	-	-	1	-	1	1	-	2	-	-
Brain-Encephalomalacia, Parasitism	1	-	-	-	1	-	-	-	-	-	-	-	-
Brain-Encephalopathy	1	-	-	-	-	-	1	-	-	-	-	-	-
Brain-Polioencephalomalacia	1	-	-	-	1	-	-	-	-	-	-	-	-
Emaciation	2	-	-	-	-	-	-	-	1	-	-	-	1
Intestine-Enteritis, Parvovirus	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, Rotavirus	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, Ascaris	2	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	1	-	-	-	-	-	-	-	-	-	-	-	1
Lung-Pneumonia, Foreign Body	1	-	-	-	1	-	-	-	-	-	-	-	-
Septicemia, <i>Escherichia coli</i>	1	-	-	-	-	-	-	-	-	-	-	1	-
Septicemia, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Toxicosis, Lead	1	-	-	-	-	-	1	-	-	-	-	-	-
RAT													
Dermatitis, Focal	1	-	-	1	-	-	-	-	-	-	-	-	-
Feces-Microbiologic Examination	2	-	-	-	-	-	-	-	-	-	-	2	-
Lung-Bronchitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Neoplasm, Fibroma	1	-	-	-	-	-	-	-	-	1	-	-	-
REINDEER													
Eye-Conjunctivitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Lip-Chelitis	1	-	-	-	-	-	-	-	-	-	1	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
SHREW													
Eye-Ophthalmitis	1	-	-	-	-	1	-	-	-	-	-	-	-
Kidney-Nephrosis	1	-	-	-	-	1	-	-	-	-	-	-	-
Lung-Edema	1	-	-	-	-	1	-	-	-	-	-	-	-
Mammary-Neoplasm, Adenocarcinoma	2	-	-	-	-	1	-	1	-	-	-	-	-
SKUNK													
Brain-Encephalitis, Distemper	1	-	-	-	-	-	-	-	-	-	1	-	-
Brain-Encephalitis, Pseudorabies	1	-	-	-	-	-	-	-	-	-	1	-	-
Brain-Encephalitis, Rabies	133	14	18	5	8	6	6	13	5	8	20	13	17
Kidney-Nephritis, Glomerulo	1	-	-	-	1	-	-	-	-	-	-	-	-
Liver-Cirrhosis	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Pneumonia, <i>Actinomyces pyogenes</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Bordetella bronchiseptica</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Haemophilus parasuis</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Lymph Node-Neoplasm, Lymphosarcoma	1	-	-	1	-	-	-	-	-	-	-	-	-
SQUIRREL													
Abscess	1	-	-	-	-	-	-	-	-	-	-	-	1
Liver-Hepatitis	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Hemorrhage	1	-	-	-	1	-	-	-	-	-	-	-	-
Lymph Node-Neoplasm, Lymphosarcoma	1	-	-	-	-	-	-	-	-	1	-	-	-
Sudden Unexpected Death	1	-	-	-	1	-	-	-	-	-	-	-	-
TAHR													
Abscess	1	-	-	-	1	-	-	-	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	-	1	-	-	-	-
TIGER													
Adrenal-Hyperplasia	1	-	-	-	-	-	-	1	-	-	-	-	-
Feces-Microbiologic Examination	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Enteritis, Eosinophilic	1	-	-	-	-	-	-	1	-	-	-	-	-
Lung-Edema	2	-	-	-	1	-	-	1	-	-	-	-	-
Lymph Node-Lymphadenitis	1	-	-	-	-	-	-	1	-	-	-	-	-
Urine-Bacteriologic Examination	2	-	-	-	-	1	1	-	-	-	-	-	-
WOLF													
Lung-Edema	1	-	1	-	-	-	-	-	-	-	-	-	-
Parasitism, Lice	1	-	1	-	-	-	-	-	-	-	-	-	-

MISCELLANEOUS MAMMALS (cont.)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
WOLVERINE													
Eye-Keratitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Parasitism, Cestode	1	-	-	-	-	1	-	-	-	-	-	-	-
Thyroid-Goiter	1	-	-	-	-	-	-	-	-	1	-	-	-
WOODCHUCK/GROUNDHOG													
Brain-Encephalitis, Eosinophilic	1	-	-	-	-	-	-	-	-	-	-	-	1
Lymph Node-Neoplasm, Lymphosarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Trauma	1	-	1	-	-	-	-	-	-	-	-	-	-
ZEBRA													
Neurologic Disorder, Idiopathic	1	-	-	-	-	-	-	1	-	-	-	-	-
MISCELLANEOUS													
Blood-Coagulation Disorder	1	-	1	-	-	-	-	-	-	-	-	-	-
Dermatitis, Focal	3	-	-	-	-	2	1	-	-	-	-	-	-
Feces-Microbiologic Examination	2	-	-	-	-	-	-	1	-	1	-	-	-
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	-	1	-	-	-	-	-	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	-	-	-	1	-	-	-
Lameness	1	-	-	-	-	-	-	-	-	1	-	-	-
Liver-Hepatitis	1	-	-	-	-	-	-	-	-	1	-	-	-
Liver-Lipidosis	1	-	-	-	-	-	1	-	-	-	-	-	-
Lung-Edema	2	-	-	-	-	-	-	1	1	-	-	-	-
Lung-Pneumonia	1	-	-	-	-	-	-	-	-	1	-	-	-
Muscle-Degeneration	1	1	-	-	-	-	-	-	-	-	-	-	-
Nasal-Rhinitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Neonatal Death	1	-	-	-	-	-	1	-	-	-	-	-	-
Peritonitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Sudden Unexpected Death	2	1	-	-	1	-	-	-	-	-	-	-	-

OVINE

0 Body as a Whole

Caseous Lymphadenitis	5	-	-	1	-	2	-	-	-	-	-	2	-
Contagious Ecthyma	1	-	-	-	-	-	-	-	-	-	1	-	-
Deficiency, Copper	2	1	-	-	1	-	-	-	-	-	-	-	-
Grain Overload	3	-	-	-	-	-	-	-	-	-	-	2	1
Mycotoxicosis, Zearalenone	1	-	-	-	-	-	-	-	-	-	-	-	1
Neonatal Death	1	-	-	1	-	-	-	-	-	-	-	-	-

OVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Neonatal Weakness	2	-	-	-	-	-	-	-	2	-	-	-	-
Neoplasm, Carcinoma, Metastatic	1	-	-	-	1	-	-	-	-	-	-	-	-
Peritonitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Polyserositis	1	-	-	-	-	-	-	-	-	1	-	-	-
Pregnancy Toxemia	2	-	-	-	-	-	-	1	-	1	-	-	-
Septicemia, Bacterial (NOS)	2	1	-	-	-	1	-	-	-	-	-	-	-
Septicemia, <i>Clostridium perfringens</i>	2	-	-	-	-	-	1	-	-	-	-	1	-
Septicemia, <i>Clostridium septicum</i>	1	-	-	-	-	-	-	-	-	-	1	-	-
Septicemia, <i>Escherichia coli</i>	2	-	-	-	-	-	-	-	-	1	1	-	-
Septicemia, <i>Salmonella sp.</i>	3	-	1	-	1	-	-	-	-	1	-	-	-
Starvation	1	-	-	-	-	1	-	-	-	-	-	-	-
Sudden Unexpected Death	5	-	1	-	-	1	1	-	-	-	1	1	-
Toxicosis (NOS)	1	-	-	-	-	-	-	-	-	1	-	-	-
Toxicosis, Copper	8	1	2	1	-	-	1	-	1	-	2	-	-
Trauma	1	-	-	-	-	-	-	-	-	-	1	-	-
<u>1 Integumentary</u>													
Abscess	1	-	-	-	-	-	-	-	1	-	-	-	-
Dermatitis, <i>Staphylococcus sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Mammary-Mastitis, <i>Staphylococcus aureus</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
<u>2 Musculoskeletal</u>													
Bone-Dyschondroplasia	1	-	-	-	-	-	-	-	1	-	-	-	-
Bone-Osteomalacia	1	-	-	-	-	-	-	-	-	1	-	-	-
Muscle-White Muscle Disease	1	1	-	-	-	-	-	-	-	-	-	-	-
<u>3 Respiratory</u>													
Respiratory Disorders, Total Cases	41	5	4	3	2	1	5	2	3	2	4	4	6
Lung-Abscess	1	-	-	-	-	-	1	-	-	-	-	-	-
Lung-Congestion	1	-	1	-	-	-	-	-	-	-	-	-	-
Lung-Edema	6	-	2	-	-	-	1	2	-	-	-	-	1
Lung-Hemorrhage	2	-	-	1	-	-	-	-	-	1	-	-	-
Lung-Pneumonia, <i>Actinobacillus sp.</i>													
Lung-Pneumonia, <i>Actinomyces pyogenes</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Broncho	5	2	-	-	-	-	-	-	1	-	-	-	2
Lung-Pneumonia, <i>Corynebacterium pseudotuberculosis</i>	1	-	-	-	-	-	-	-	-	-	-	1	-
Lung-Pneumonia, Foreign Body	1	-	-	-	1	-	-	-	-	-	-	-	-
Lung-Pneumonia, Interstitial	1	-	-	-	-	-	-	-	-	-	1	-	-
Lung-Pneumonia, Ovine Progressive	4	-	-	1	-	1	2	-	-	-	-	-	-
Lung-Pneumonia, <i>Pasteurella hemolytica</i>	7	-	-	2	-	-	-	-	2	-	2	-	1
Lung-Pneumonia, <i>Pasteurella multocida</i>	10	2	1	-	1	-	1	-	-	-	-	3	2
Lung-Thrombosis	1	-	-	-	-	-	1	-	-	-	-	-	-

OVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Nasal-Neoplasm (NOS)	1	-	-	-	-	-	-	-	-	1	-	-	-
Pleura-Pleuritis	2	-	-	-	-	-	1	-	-	-	1	-	-
4 Cardiovascular													
Heart-Myocardial Degeneration	3	1	-	-	-	-	-	-	-	1	-	-	1
5 Hemic and Lymphatic													
Blood-Anemia	3	1	1	-	-	-	-	-	-	-	1	-	-
Lymph Node-Lymphadenitis	1	-	-	-	-	-	1	-	-	-	-	-	-
6 Digestive													
Feces-Microbiologic Examination	2	-	-	-	-	-	-	-	-	1	-	-	1
Intestine-Colitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Intestine-Enteritis, <i>Clostridium perfringens</i>	1	-	-	-	-	-	1	-	-	-	-	-	-
Intestine-Enteritis, Idiopathic	3	-	-	-	-	-	-	1	-	-	-	1	1
Intestine-Enteritis, <i>Mycobacterium paratuberculosis</i>	3	-	-	-	-	1	-	1	-	-	1	-	-
Intestine-Enteritis, Necrotic	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Enteritis, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Parasitism, Cestode	2	1	-	-	-	-	1	-	-	-	-	-	-
Intestine-Parasitism, Coccidia	8	2	2	-	-	-	-	-	-	-	1	1	2
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Intestine-Parasitism, <i>Haemonchus sp.</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
Intestine-Parasitism, <i>Oesophagostomum sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Parasitism, Strongyles (NOS)	1	-	1	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Trichostrongyle sp.</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, <i>Trichuris sp.</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Lip-Chelitis	1	-	-	-	-	-	-	-	-	-	1	-	-
Liver-Abscess	1	-	-	-	-	1	-	-	-	-	-	-	-
Liver-Hepatitis	2	-	-	1	-	-	-	-	-	-	1	-	-
Liver-Hepatositis	1	-	-	-	-	-	-	-	-	-	1	-	-
Liver-Lipidosis	2	-	-	-	-	-	-	1	-	-	-	-	1
Liver-Parasitism, <i>Fascioloides sp.</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
Oral Cavity-Stomatitis	1	-	-	-	-	-	-	-	-	-	-	1	-
Stomach-Abomasitis	2	-	1	-	-	-	-	-	-	-	1	-	-
Stomach-Parasitism, <i>Haemonchus sp.</i>	5	2	1	1	-	-	-	-	-	-	1	-	-
Stomach-Ulcer	1	-	-	-	-	-	-	-	-	-	-	-	1
7 Urogenital													
Abortion, Total Cases	39	-	-	-	1	1	2	9	11	8	7	-	-
Abortion, Anomaly	1	-	-	-	-	-	1	-	-	-	-	-	-
Abortion, Bacterial, <i>Campylobacter sp.</i>	4	-	-	-	-	-	-	1	1	1	1	-	-

OVINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Abortion, Bacterial, Chlamydia	1	-	-	-	-	-	-	-	-	-	1	-	-
Abortion, Bacterial, <i>Escherichia coli</i>	2	-	-	-	-	-	1	-	1	-	-	-	-
Abortion, Bacterial, <i>Pasteurella haemolytica</i>	2	-	-	-	-	-	-	1	-	1	-	-	-
Abortion, Bacterial, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	1	-	-	-	-	-
Abortion, Goiter	1	-	-	-	-	-	-	-	1	-	-	-	-
Abortion, Idiopathic	21	-	-	-	1	-	-	5	7	5	3	-	-
Abortion, Mummified Fetus	3	-	-	-	-	-	-	1	-	1	1	-	-
Abortion, Parasitism, <i>Toxoplasma sp.</i>	2	-	-	-	-	1	-	-	-	-	1	-	-
Abortion, Twins	1	-	-	-	-	-	-	-	1	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	-	-	1	-	-	-	-	-	-
Kidney-Nephritis, Interstitial	1	-	-	-	-	-	-	-	-	-	-	-	1
Kidney-Nephrosis	2	-	-	-	-	-	-	-	-	1	-	1	-
Ovary-Neoplasm (NOS)	1	-	-	-	-	-	1	-	-	-	-	-	-
Stillbirth, Idiopathic	4	-	-	-	-	-	-	1	-	1	2	-	-
Uterus-Metritis	1	-	-	-	-	-	1	-	-	-	-	-	-
Vas Deferens-Normal	4	2	-	-	1	1	-	-	-	-	-	-	-
<u>8 Endocrine</u>													
Thyroid-Goiter	1	-	-	-	-	-	-	-	-	-	1	-	-
<u>9 Nervous</u>													
Neurological Disorders, Total Cases	10	3	-	-	-	-	3	1	-	1	-	2	-
Brain-Encephalomalacia	2	-	-	-	-	-	1	1	-	-	-	-	-
Brain-Leukoencephalomalacia	1	-	-	-	-	-	1	-	-	-	-	-	-
Brain-Polioencephalomalacia	5	2	-	-	-	-	-	-	-	1	-	2	-
Meninges-Meningitis, Suppurative	1	1	-	-	-	-	-	-	-	-	-	-	-
Neurological Disorder, Idiopathic	1	-	-	-	-	-	1	-	-	-	-	-	-
<u>X Special Senses</u>													
Eye-Conjunctivitis	2	-	1	-	1	-	-	-	-	-	-	-	-

PORCINE

0 Body as a Whole

Abscess	1	-	-	-	1	-	-	-	-	-	-	-	-
Edema Disease	24	5	5	1	-	1	1	1	6	2	1	1	-
Emaciation	4	1	-	1	-	-	-	1	1	-	-	-	-
Growth Retardation	6	-	-	-	1	1	-	1	1	-	1	-	1
Hernia, Inguinal	2	-	1	-	-	-	-	-	-	-	-	-	1
Icterus	2	-	-	1	-	-	-	-	-	-	-	1	-

PORCINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Mineralization	1	-	-	-	-	-	-	1	-	-	-	-	-
Neonatal Death	9	-	2	1	-	-	2	2	-	-	1	1	-
Neonatal Weakness	29	1	2	1	2	4	7	3	2	3	1	1	2
Omphalitis	4	2	-	-	-	-	-	-	-	-	-	1	1
Peritonitis	15	2	3	1	3	1	-	1	2	1	1	-	-
Polyserositis	16	1	2	-	2	1	1	2	3	3	-	1	-
Porcine Stress Syndrome	15	-	2	1	2	2	1	4	-	-	1	2	-
Puffer Sow Syndrome	1	-	-	-	-	-	-	-	-	-	-	-	1
Septicemia, <i>Actinobacillus equuli</i>	4	1	-	1	-	-	-	1	-	-	-	1	-
Septicemia, <i>Actinobacillus sp.</i>	4	-	-	-	1	-	-	-	1	1	1	-	-
Septicemia, <i>Actinomyces pyogenes</i>	4	2	-	-	-	-	-	-	-	1	1	-	-
Septicemia, Bacterial (NOS)	5	2	1	-	-	-	-	-	1	1	-	-	-
Septicemia, <i>Clostridium septicum</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Septicemia, <i>Erysipelothrix</i>	42	4	9	7	3	2	1	5	4	1	-	1	5
Septicemia, <i>Escherichia coli</i>	32	2	1	4	3	1	3	1	3	3	3	2	6
Septicemia, <i>Haemophilus parasuis</i>	14	-	-	3	3	4	-	-	1	1	2	-	-
Septicemia, <i>Klebsiella sp.</i>	1	-	-	-	-	-	-	-	-	-	1	-	-
Septicemia, <i>Pasteurella haemolytica</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Septicemia, <i>Pasteurella multocida</i>	10	1	-	-	-	-	-	-	5	1	2	1	-
Septicemia, <i>Salmonella sp.</i>	175	14	17	15	34	13	11	15	13	17	6	7	12
Septicemia, <i>Staphylococcus sp.</i>	2	-	-	-	-	-	-	-	1	-	1	-	-
Septicemia, <i>Streptococcus sp.</i>	11	2	-	1	1	1	2	1	2	-	1	-	-
Septicemia, <i>Streptococcus suis</i>	67	2	4	8	2	2	2	5	14	7	11	7	3
Starvation	12	-	-	3	2	-	-	4	1	2	-	-	-
Sudden Unexpected Death	109	8	17	6	9	10	5	13	8	14	9	4	6
Toxicosis, Anticoagulant	1	-	-	-	-	1	-	-	-	-	-	-	-
Toxicosis, Ethylene Glycol	1	-	1	-	-	-	-	-	-	-	-	-	-
Toxicosis, Iron	1	-	-	1	-	-	-	-	-	-	-	-	-
Toxicosis, Selenium	1	-	-	-	-	-	-	1	-	-	-	-	-
Toxicosis, Sodium (Water Deprivation)	5	-	-	1	2	-	-	-	-	-	-	1	1
Trauma	4	-	-	-	1	-	-	1	-	2	-	-	-
Virus Infection, Pseudorabies	25	1	6	2	1	-	5	4	2	2	1	-	1
Weakness	1	-	-	-	-	1	-	-	-	-	-	-	-
1 Integumentary													
Abscess	5	-	-	-	2	-	-	-	-	2	-	1	-
Dermatitis, Allergic	1	-	1	-	-	-	-	-	-	-	-	-	-
Dermatitis, Bacterial (NOS)	1	-	1	-	-	-	-	-	-	-	-	-	-
Dermatitis, Diffuse	1	-	-	-	-	-	-	-	-	-	-	-	1
Dermatitis, Exudative Epidermitis	17	1	1	2	2	1	1	1	2	2	1	2	1
Dermatitis, Focal	4	-	-	-	2	-	-	-	1	-	-	-	1

PORCINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Dermatitis, Podo	1	-	-	-	-	-	-	-	-	-	-	1	-
Dermatitis, <i>Staphylococcus sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Mammary-Mastitis	1	-	-	1	-	-	-	-	-	-	-	-	-
Neoplasm, Hemangiosarcoma	1	-	-	-	-	-	1	-	-	-	-	-	-
Parasitism, Lice	1	-	-	-	-	-	-	-	-	-	-	1	-
2 Musculoskeletal													
Arthritis	1	-	-	-	-	-	-	-	-	-	1	-	-
Arthritis, <i>Actinomyces pyogenes</i>	4	1	1	-	-	-	-	-	-	-	-	1	1
Arthritis, <i>Escherichia coli</i>	2	-	-	-	-	-	-	1	-	-	-	-	1
Arthritis, <i>Staphylococcus sp.</i>	6	2	-	1	1	1	-	-	1	-	-	-	-
Arthritis, <i>Streptococcus sp.</i>	8	3	1	-	1	1	-	-	-	-	-	2	-
Arthritis, <i>Streptococcus suis</i>	5	-	-	1	1	-	-	-	-	1	-	1	1
Arthritis, Suppurative	2	-	-	-	-	-	-	-	-	-	-	1	1
Lameness	1	-	-	-	-	-	1	-	-	-	-	-	-
Muscle-Myositis	2	1	-	-	-	-	-	-	-	-	-	-	1
Splayleg	1	1	-	-	-	-	-	-	-	-	-	-	-
Synovium-Synovitis	3	-	-	2	-	-	-	-	-	1	-	-	-
3 Respiratory													
Respiratory Disorders, Total Cases	870	44	57	57	87	80	83	109	89	81	62	74	47
Lung-Abscess	3	-	-	-	-	1	-	-	2	-	-	-	-
Lung-Bronchitis	12	1	-	-	2	1	2	3	1	-	1	1	-
Lung-Congestion	1	-	-	1	-	-	-	-	-	-	-	-	-
Lung-Edema	15	2	1	-	1	2	1	2	-	2	3	-	1
Lung-Hemorrhage	2	-	-	-	-	-	-	-	1	1	-	-	-
Lung-Parasitism (NOS)	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Parasitism, <i>Ascaris</i> (Larvae)	2	-	-	-	1	-	-	-	1	-	-	-	-
Lung-Pneumonia	4	-	-	-	3	-	-	-	-	-	1	-	-
Lung-Pneumonia, <i>Actinobacillus pleuropneumoniae</i>	112	5	6	13	11	9	8	15	11	9	12	9	4
Lung-Pneumonia, <i>Actinobacillus sp.</i>	6	-	-	1	-	-	1	2	-	-	2	-	-
Lung-Pneumonia, <i>Actinomyces pyogenes</i>	64	1	10	5	2	6	6	7	6	6	4	5	6
Lung-Pneumonia, <i>Bordetella bronchiseptica</i>	46	-	-	6	6	4	2	10	3	5	6	-	4
Lung-Pneumonia, <i>Bordetella sp.</i>	9	2	2	-	1	-	1	1	-	1	-	1	-
Lung-Pneumonia, Broncho	121	14	12	8	14	10	11	9	11	9	9	8	6
Lung-Pneumonia, <i>Escherichia coli</i>	1	1	-	-	-	-	-	-	-	-	-	-	-
Lung-Pneumonia, Foreign Body	5	1	-	1	1	-	-	-	1	1	-	-	-
Lung-Pneumonia, <i>Haemophilus parasuis</i>	104	4	4	1	7	10	16	21	12	10	6	8	5
Lung-Pneumonia, <i>Haemophilus sp.</i>	1	-	-	-	-	-	-	-	-	1	-	-	-
Lung-Pneumonia, Interstitial	52	1	3	3	-	3	10	4	8	7	1	10	2
Lung-Pneumonia, <i>Klebsiella sp.</i>	1	-	-	1	-	-	-	-	-	-	-	-	-

PORCINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Lung-Pneumonia, <i>Mycoplasma hyopneumoniae</i>	22	-	1	2	2	1	-	1	2	2	2	7	2
Lung-Pneumonia, <i>Pasteurella hemolytica</i>	3	-	1	-	-	-	-	-	2	-	-	-	-
Lung-Pneumonia, <i>Pasteurella multocida</i>	319	9	13	20	31	38	28	39	37	35	23	31	15
Lung-Pneumonia, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	-	1	-	-	-	-
Lung-Pneumonia, <i>Staphylococcus sp.</i>	2	-	-	-	-	-	1	1	-	-	-	-	-
Lung-Pneumonia, <i>Streptococcus sp.</i>	25	2	3	-	1	4	2	4	2	2	-	3	2
Lung-Pneumonia, <i>Streptococcus suis</i>	293	15	19	14	29	26	27	38	26	29	26	21	23
Lung-Pneumonia, Swine Influenza	35	1	-	3	2	6	11	2	3	2	1	2	2
Lung-Thrombosis	2	-	-	1	-	-	-	-	-	-	-	1	-
Nasal-Rhinitis	11	-	-	2	2	-	3	1	2	-	1	-	-
Nasal-Rhinitis, <i>Actinomyces pyogenes</i>	2	-	-	-	-	-	-	1	-	-	1	-	-
Nasal-Rhinitis, Atrophic	7	1	-	-	-	-	-	2	1	1	2	-	-
Nasal-Rhinitis, <i>Bordetella sp.</i>	3	1	-	-	-	-	-	-	-	-	-	2	-
Nasal-Rhinitis, Cytomegalovirus	6	-	-	1	-	-	3	-	1	-	-	1	-
Nasal-Rhinitis, <i>Haemophilus parasuis</i>	4	-	-	-	-	-	-	1	1	2	-	-	-
Nasal-Rhinitis, <i>Pasteurella multocida</i>	11	-	-	1	-	-	1	3	1	2	1	2	-
Nasal-Rhinitis, <i>Streptococcus suis</i>	7	-	-	1	-	-	1	2	1	1	-	-	-
Pleura-Pleuritis	5	-	-	2	-	-	-	-	1	-	1	1	-
Respiratory Infection (NOS)	3	-	-	-	-	-	-	-	1	1	1	-	-
Respiratory Infection, <i>Pasteurella multocida</i>	3	-	-	-	1	-	-	-	-	1	1	-	-
Trachea-Tracheitis	2	-	-	-	-	-	-	-	-	-	2	-	-
4 Cardiovascular													
Blood Vessel-Arteritis	1	-	-	-	1	-	-	-	-	-	-	-	-
Heart-Anomaly	1	-	-	-	-	-	1	-	-	-	-	-	-
Heart-Cardiomyopathy	1	-	1	-	-	-	-	-	-	-	-	-	-
Heart-Endocarditis	19	2	1	2	1	-	-	2	4	1	4	1	1
Heart-Epicarditis	7	-	-	1	2	-	-	1	-	2	-	1	-
Heart-Heart Failure, Acute	3	-	1	-	-	-	1	-	-	-	-	1	-
Heart-Heart Failure, Chronic	8	1	-	-	-	2	-	1	1	1	1	1	-
Heart-Mulberry Heart Disease	39	-	3	1	7	1	4	3	3	6	3	4	4
Heart-Myocardial Degeneration	7	-	1	1	1	-	-	-	1	1	2	-	-
Heart-Myocarditis	23	1	3	4	2	3	1	1	1	2	1	1	3
Heart-Pericarditis	13	-	1	2	1	2	-	1	1	3	1	-	1
5 Hemic and Lymphatic													
Blood-Anemia	12	2	-	-	-	-	-	1	3	3	3	-	-
Blood-Anemia, <i>Eperythrozoon sp.</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Blood-Coagulation Disorder	3	1	-	-	1	-	-	-	-	1	-	-	-

PORCINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Blood-Hemorrhage, Generalized	2	-	-	-	1	-	-	-	-	-	-	-	1
Immune System-Hypogammaglobulinemia	1	-	-	-	1	-	-	-	-	-	-	-	-
Lymph Node-Neoplasm, Lymphosarcoma	1	-	-	-	-	1	-	-	-	-	-	-	-
Spleen-Infarct	1	-	-	-	-	1	-	-	-	-	-	-	-
Spleen-Splenitis	1	-	-	-	-	-	-	-	1	-	-	-	-
6 Digestive													
Feces-Microbiologic Examination	47	2	7	14	3	1	3	5	2	5	4	1	-
Intestine-Colitis	30	2	3	3	5	-	1	3	3	1	2	2	5
Intestine, Enteritis, Nursing, Total Cases	644	47	60	63	65	46	42	61	65	60	56	42	37
Intestine, Enteritis, Older, Total Cases	237	17	21	14	32	14	16	30	14	19	26	20	14
Intestine-Enteritis, Adenovirus	8	3	3	-	-	1	1	-	-	-	-	-	-
Intestine-Enteritis, <i>Clostridium perfringens</i> Type C	11	-	3	1	2	-	-	-	2	1	1	1	-
Intestine-Enteritis, <i>Clostridium perfringens</i>	6	-	1	-	1	-	2	-	-	1	-	-	1
Intestine-Enteritis, Coronavirus	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Enteritis, Enterovirus	1	-	-	-	1	-	-	-	-	-	-	-	-
Intestine-Enteritis, Eosinophilic	1	-	-	-	-	-	-	-	-	-	-	-	1
Intestine-Enteritis, <i>Escherichia coli</i> , Nursing	218	20	19	40	25	16	9	12	15	22	16	16	8
Intestine-Enteritis, <i>Escherichia coli</i> , Weaned	67	7	4	1	8	4	6	9	3	4	9	8	4
Intestine-Enteritis, Hemorrhagic	4	-	-	1	2	-	-	-	-	-	-	1	-
Intestine-Enteritis, Idiopathic	88	11	7	2	6	4	7	12	11	10	7	5	6
Intestine-Enteritis, Necrotic	43	1	8	4	6	5	3	5	3	2	1	2	3
Intestine-Enteritis, Porcine Proliferative	66	4	10	6	15	3	1	5	3	5	5	5	4
Intestine-Enteritis, Rotavirus	185	9	18	6	14	12	16	26	19	20	20	10	15
Intestine-Enteritis, <i>Salmonella sp.</i>	29	1	3	8	5	-	-	4	2	-	3	2	1
Intestine-Enteritis, Specimen Unsuitable	37	2	4	3	2	1	5	4	3	4	4	5	-
Intestine-Enteritis, <i>Streptococcus sp.</i>	2	-	-	-	-	-	-	-	-	1	1	-	-
Intestine-Enteritis, Swine Dysentery	42	6	2	5	6	2	3	3	5	3	4	1	2
Intestine-Enteritis, Transmissible Gastroenteritis	68	1	1	3	8	8	6	7	12	8	9	5	-
Intestine-Enteropathy, Atrophic	72	5	3	6	3	5	2	8	7	10	9	9	5
Intestine-Hemorrhage	5	-	-	-	-	-	-	-	1	1	1	1	1
Intestine-Hemorrhage Syndrome	5	1	-	-	-	-	-	1	-	-	2	1	-
Intestine-Intussusception	1	-	-	-	-	-	-	-	-	-	1	-	-
Intestine-Parasitism (NOS)	1	-	-	1	-	-	-	-	-	-	-	-	-
Intestine-Parasitism, Ascaris	6	-	1	-	-	1	-	2	-	-	1	-	-
Intestine-Parasitism, Coccidia	88	6	10	14	9	3	3	5	4	11	11	7	5
Intestine-Parasitism, <i>Cryptosporidium sp.</i>	8	-	-	1	-	2	-	3	1	-	-	-	1
Intestine-Parasitism, <i>Trichuris sp.</i>	2	-	-	1	1	-	-	-	-	-	-	-	-
Intestine-Rupture	1	-	-	-	-	-	-	-	1	-	-	-	-
Intestine-Volvulus	3	-	-	1	-	-	-	-	-	1	-	-	1

PORCINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Liver-Abscess	1	-	-	-	-	1	-	-	-	-	-	-	-
Liver-Cirrhosis	1	-	1	-	-	-	-	-	-	-	-	-	-
Liver-Hepatitis	9	-	1	1	-	1	-	-	1	2	2	1	-
Liver-Hepatosi	11	1	2	1	1	-	-	2	2	-	1	1	-
Liver-Infarction	1	-	-	1	-	-	-	-	-	-	-	-	-
Liver-Lipidosis	1	1	-	-	-	-	-	-	-	-	-	-	-
Liver-Parasitism, Ascaris (Larvae)	23	2	1	2	2	2	2	2	3	1	3	3	-
Pancreas-Pancreatitis	1	-	1	-	-	-	-	-	-	-	-	-	-
Rectum-Proctitis	1	-	-	-	-	-	-	-	1	-	-	-	-
Rectum-Stricture	1	-	-	-	-	-	-	-	-	-	-	1	-
Stomach-Gastritis, Mycotic	2	1	-	-	1	-	-	-	-	-	-	-	-
Stomach-Ulcer	9	-	-	3	2	-	-	-	2	-	-	2	-
7 Urogenital													
Abortion, Total Cases	362	34	25	49	33	45	28	32	38	22	17	24	15
Abortion, Anomaly	1	-	-	1	-	-	-	-	-	-	-	-	-
Abortion, Bacterial (NOS)	3	1	-	1	-	-	-	-	1	-	-	-	-
Abortion, Bacterial, <i>Actinobacillus sp.</i>	11	1	1	5	-	-	1	-	-	-	-	2	1
Abortion, Bacterial, <i>Actinomyces pyogenes</i>	2	-	-	-	-	-	-	-	1	-	-	1	-
Abortion, Bacterial, <i>Erysipelothrix sp.</i>	2	-	1	1	-	-	-	-	-	-	-	-	-
Abortion, Bacterial, <i>Escherichia coli</i>	9	1	-	-	-	-	-	-	1	2	4	-	1
Abortion, Bacterial, <i>Leptospira sp.</i>	5	-	-	1	1	2	-	1	-	-	-	-	-
Abortion, Bacterial, <i>Nocardia sp.</i>	1	-	-	-	-	-	1	-	-	-	-	-	-
Abortion, Bacterial, <i>Pasteurella multocida</i>	2	-	1	-	-	-	-	-	-	-	-	1	-
Abortion, Bacterial, <i>Salmonella sp.</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
Abortion, Bacterial, <i>Staphylococcus sp.</i>	5	-	1	-	-	1	2	1	-	-	-	-	-
Abortion, Bacterial, <i>Streptococcus sp.</i>	21	2	1	2	-	4	3	1	3	-	1	3	1
Abortion, Hepatitis	1	-	-	-	-	-	-	-	-	-	-	1	-
Abortion, Idiopathic	209	22	15	28	18	26	15	22	19	12	8	14	10
Abortion, Mummified Fetus	44	3	1	4	7	4	3	4	8	6	2	1	1
Abortion, Mycotic Placentitis	1	-	-	-	-	-	1	-	-	-	-	-	-
Abortion, Myocarditis	6	-	1	2	-	-	1	-	1	1	-	-	-
Abortion, Placentitis	10	1	1	2	-	1	-	1	1	-	1	2	-
Abortion, Pneumonia	5	2	-	-	-	1	1	-	1	-	-	-	-
Abortion, Specimen Unsuitable	1	-	-	-	-	-	-	-	-	1	-	-	-
Abortion, Viral, Parvovirus	25	1	2	3	6	6	1	2	2	-	1	1	-
Abortion, Viral, Pseudorabies	2	-	-	-	1	-	-	-	-	-	-	1	-
Genital-Bacteriologic Examination	7	-	-	-	1	1	-	1	1	1	1	-	1
Genital-Infertility	5	-	1	-	1	1	-	-	-	2	-	-	-
Kidney-Infarction	1	-	-	-	-	-	-	-	-	-	-	1	-
Kidney-Neoplasm, Carcinoma	1	-	-	-	-	-	-	-	-	-	-	-	1

PORCINE (continued)	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
Kidney-Nephritis	10	1	2	-	1	-	-	-	1	-	1	4	-
Kidney-Nephritis, End Stage	4	-	1	-	1	-	1	-	1	-	-	-	-
Kidney-Nephritis, Glomerulo	1	-	-	-	1	-	-	-	-	-	-	-	-
Kidney-Nephritis, Interstitial	8	-	-	-	1	-	-	-	-	1	1	3	2
Kidney-Nephritis, Pyelo	2	-	-	1	-	1	-	-	-	-	-	-	-
Kidney-Nephrosis	13	3	2	-	-	1	-	1	2	2	2	-	-
Stillbirth, Idiopathic	80	2	5	3	8	2	13	11	6	8	8	11	3
Urinary Bladder-Neoplasm, (NOS)	1	-	-	1	-	-	-	-	-	-	-	-	-
Urinary Bladder-Rupture	1	-	-	-	-	-	-	-	-	-	-	1	-
Urinary Bladder-Urocystitis	9	1	1	1	-	1	-	2	2	-	1	-	-
Urine-Bacteriologic Examination	1	-	-	-	-	-	-	-	-	1	-	-	-
Uterus-Metritis	17	2	1	1	1	1	1	1	4	1	2	1	1
9 Nervous													
Neurological Disorders, Total Cases	238	15	22	23	21	12	13	26	32	25	20	10	19
Brain-Abscess	2	1	-	-	-	-	-	-	-	1	-	-	-
Brain-Anomaly	1	-	-	-	-	-	-	1	-	-	-	-	-
Brain-Encephalitis, <i>Actinomyces pyogenes</i>	1	-	1	-	-	-	-	-	-	-	-	-	-
Brain-Encephalitis, Eosinophilic	1	-	-	-	1	-	-	-	-	-	-	-	-
Brain-Encephalitis, <i>Haemophilus sp.</i>	1	-	-	-	-	1	-	-	-	-	-	-	-
Brain-Encephalitis, Non-Suppurative	24	1	3	4	-	2	3	3	1	4	2	-	1
Brain-Encephalitis, Pseudorabies	31	-	4	2	1	-	4	4	3	9	2	2	-
Brain-Encephalitis, Suppurative	1	-	-	-	-	-	-	-	-	-	-	-	1
Brain-Encephalomalacia	3	-	-	1	1	-	-	1	-	-	-	-	-
Brain-Leukoencephalomalacia	1	-	1	-	-	-	-	-	-	-	-	-	-
Brain-Polioencephalomalacia	1	-	-	-	-	-	-	-	1	-	-	-	-
Brain-Toxicosis, Sodium (Water Deprivation)	5	-	-	1	2	-	-	-	-	-	-	1	1
Brain-Vasculitis	2	-	-	1	-	-	-	-	-	1	-	-	-
Congenital Tremor	3	1	-	-	-	-	-	2	-	-	-	-	-
Edema Disease	11	3	2	1	-	-	-	-	2	2	1	-	-
Meninges-Meningitis	2	-	-	-	-	-	-	-	1	-	-	1	-
Meninges-Meningitis, <i>Actinomyces pyogenes</i>	4	-	-	-	-	-	-	-	3	-	1	-	-
Meninges-Meningitis, <i>Escherichia coli</i>	6	-	1	1	-	-	1	-	1	-	1	1	-
Meninges-Meningitis, <i>Haemophilus parasuis</i>	6	1	-	-	-	1	-	1	1	1	-	-	1
Meninges-Meningitis, Non-suppurative	4	-	1	1	1	-	-	-	1	-	-	-	-
Meninges-Meningitis, <i>Streptococcus sp.</i>	5	-	-	2	1	-	-	-	-	-	-	1	1
Meninges-Meningitis, <i>Streptococcus suis</i>	57	3	6	3	6	4	1	4	10	4	7	4	5
Meninges-Meningitis, Suppurative	40	1	2	3	4	3	2	7	5	2	6	3	2
Neurologic Disorder, Idiopathic	31	4	1	5	2	1	2	3	4	1	1	-	7

MISCELLANEOUS SPECIMENS

MISCELLANEOUS SPECIMENS	Total	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn
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FEED

Mycotoxycosis, Vomitoxin	1	-	-	-	-	-	1	-	-	-	-	-	-
Toxicosis (NOS)	1	-	-	-	1	-	-	-	-	-	-	-	-
Toxicosis, Nitrate	3	-	-	1	-	1	-	1	-	-	-	-	-
Toxicosis, Plant	1	-	-	-	-	-	-	-	-	-	1	-	-

MISCELLANEOUS SPECIMENS

Toxicosis, Algae	1	1	-	-	-	-	-	-	-	-	-	-	-
Toxicosis, Lead	1	-	-	-	-	-	-	-	-	-	-	1	-

Laboratory Procedures Summary

I.	Pathology	
	A. Necropsies (whole animals)	6,300
	B. Tissues from field necropsies (accessions)	5,189
	C. Formalin-fixed tissues (surgical or necropsy)	4,258
	D. Cytology (accessions)	1,018
	E. Electron Microscopy (thin sections)	6
	F. Hematology (specimens)	545
	G. Histopathology	
	1) Slides - H & E stain	25,490
	2) Slides - special stain	1,209
	H. Rabies (specimens)	<u>2,286</u>
	Sub-total	46,301
II.	Bacteriology/Mycology	
	A. Specimens cultured (aerobic)	26,078
	B. Specimens cultured (anaerobic)	694
	C. Specimens cultured (special procedures)	
	1) Campylobacter	633
	2) Milk - quarter samples	2,738
	3) Milk - bulk tank	374
	4) <i>Mycobacterium paratuberculosis</i>	412
	D. Direct tissue examinations	
	1) Darkfield/phase contrast (specimens)	264
	2) Immunofluorescence - Chlamydia	82
	3) Immunofluorescence - <i>Clostridium sp.</i>	144
	4) Immunofluorescence - <i>E. coli pili</i>	1,976
	5) Immunofluorescence - <i>Leptospira</i>	1,050
	6) Immunofluorescence - <i>Mycoplasma</i>	878
	E. Microbial susceptibility (cultures = 5,838; drugs = 70,056)	5,838
	F. Mycology (specimens)	2,132
	G. Serotyping	
	1) <i>Actinobacillus pleuropneumoniae</i> (cultures)	116
	2) <i>Pasteurella multocida</i> (cultures)	45
	3) <i>Salmonella spp.</i> (cultures)	533
	3) <i>Streptococcus suis</i> (cultures)	<u>466</u>
	Sub-total	44,453
III.	Genetics (specimens karyotyped)	661
III.	Immunology/Serology	
	A. Immunology (specimens)	1,143
	B. Serology (tests)	<u>292,425</u>
	Sub-total	293,568
IV.	Parasitology	
	A. Direct Smears - Cryptosporidium	1,259
	B. Direct Smears - Other	1,975
	C. Flotation Fecal Exams	367
	D. Trichomonas Cultures	24
	E. Parasite Identification	<u>96</u>
	Sub-total	3,721
V.	Toxicology/Clinical Chemistry/Endocrinology	
	A. Analytical toxicology (analyses)	2,543
	B. Clinical chemistry (specimens)	1,456
	C. Endocrinology (specimens)	<u>2,488</u>
	Sub-total	6,487
VI.	Virology	
	A. Electron microscopy (fecal/tissue specimens)	2,948
	B. Tissue immunofluorescence (tests)	18,826
	C. Virus isolation (specimens)	<u>4,801</u>
	Sub-total	26,575
	TOTAL LABORATORY PROCEDURES	421,766

Necropsies (Accessions/Whole Animals)

Species	July	August	September	October	November	December	(continued below)
Avian- Chicken	6/40	6/32	2/28	13/85	7/83	11/62	
Avian- Miscellaneous	20/50	17/22	10/16	9/14	11/14	6/7	
Avian- Turkey	5/19	16/117	16/83	15/78	5/26	8/131	
Bovine	46/49	41/50	47/67	48/53	40/49	49/55	
Canine	41/45	35/35	17/18	28/29	23/37	25/28	
Caprine	1/1	2/2	2/2	3/3	0/0	1/1	
Equine	7/7	4/4	3/2	4/4	5/7	6/6	
Feline	23/27	21/20	17/16	23/24	20/22	20/19	
Fish-Amphibian-Reptile	3/2	1/1	4/15	1/1	0/0	2/2	
Miscellaneous Mammal	16/20	15/23	9/9	17/28	6/7	7/9	
Ovine	6/9	3/7	3/3	2/3	2/3	3/7	
Porcine	58/153	59/158	79/190	75/212	67/236	55/170	
TOTAL	232/422	220/470	209/449	238/534	186/484	193/497	

Species	January	February	March	April	May	June	Total
Avian- Chicken	19/169	15/119	12/171	14/119	8/35	14/54	127/997
Avian- Miscellaneous	10/9	9/8	12/28	15/19	16/36	16/80	151/303
Avian- Turkey	17/83	12/88	9/48	17/135	3/14	21/114	144/936
Bovine	65/78	54/74	60/71	61/66	50/58	40/43	601/713
Canine	36/37	44/47	25/32	39/39	32/33	26/26	371/406
Caprine	4/5	1/3	3/4	1/2	0/0	3/3	21/26
Equine	7/7	6/6	11/11	10/10	3/3	5/5	71/72
Feline	22/22	20/21	22/22	7/7	15/13	24/23	234/236
Fish-Amphibian-Reptile	3/3	6/7	1/1	3/4	2/2	0/0	26/37
Miscellaneous Mammal	8/18	11/15	9/16	15/22	7/11	12/14	132/192
Ovine	9/4	14/16	13/27	14/23	5/8	5/7	79/127
Porcine	75/186	75/235	83/208	56/163	59/187	56/156	797/2254
TOTAL	275/631	267/639	260/639	253/610	200/400	222/525	2755/6300

Tissue Accessions		
Species	Tissues from Field Necropsies	Formalin Fixed Tissues Only (Surgical or Necropsy)
Avian- Chicken	23	11
Avian- Miscellaneous	49	131
Avian- Turkey	29	17
Bovine	2,117	42
Canine	401	3,109
Caprine	12	3
Equine	76	145
Feline	93	600
Fish-Amphibian-Reptile	12	17
Miscellaneous Mammal	75	97
Ovine	87	19
Porcine	2,211	66
TOTAL	5,189	4,258

Positive Rabies Cases														
Species	Jl	Ag	Sp	Oc	Nv	Dc	Jn	Fb	Mr	Ap	My	Jn	Total	Percent Total
Bat	4	4	3	2	1	3	-	-	-	1	4	-	22	9.9
Bovine	4	2	-	1	1	3	2	5	4	-	9	6	37	16.4
Canine	4	1	1	2	1	1	2	-	2	-	1	1	16	7.1
Equine	-	-	-	1	-	1	1	-	1	-	-	1	5	2.2
Feline	-	-	1	2	1	2	1	-	1	1	-	-	9	4.0
Fox	-	1	-	-	-	-	-	-	-	-	1	-	2	0.9
Llama	-	-	-	-	-	-	-	1	-	-	-	-	1	0.4
Skunk	14	18	5	8	6	6	13	5	8	20	13	17	133	59.1
TOTAL	26	26	10	16	10	16	19	11	16	22	28	25	225	100.0

Rabies Examinations*

Species	Human Exposure				Non-Human Exposure				Grand Total
	Pos	Neg	No Test	Total	Pos	Neg	No Test	Total	
Bat	14	90	3	107	8	78	4	90	197
Beaver	0	1	-	1	-	1	-	1	2
Bovine	19	50	-	69	18	93	-	111	180
Canine	16	499	2	517	-	64	-	64	581
Caprine	-	1	-	1	-	2	-	2	3
Chipmunk	-	7	-	7	-	1	-	1	8
Coyote	-	1	-	1	-	1	-	1	2
Deer	-	2	-	2	-	2	-	2	4
Equine	2	14	-	16	3	5	-	8	24
Feline	8	664	4	676	1	85	-	86	762
Ferret	-	9	-	9	-	1	-	1	10
Fox	1	16	-	17	1	17	-	18	35
Gopher	-	6	-	6	-	-	-	-	6
Hamster	-	6	-	6	-	-	-	-	6
Llama	-	3	-	3	1	2	-	3	6
Mink	-	2	-	2	-	-	-	-	2
Mole	-	1	-	1	-	-	-	-	1
Mouse	-	17	1	18	-	-	-	-	18
Muskrat	-	4	-	4	-	8	-	8	12
Oppossum	-	6	-	6	-	6	-	6	12
Ovine	-	2	1	3	-	3	-	3	6
Porcine	-	-	-	-	-	3	-	3	3
Rabbit	-	12	-	12	-	4	-	4	16
Raccoon	-	84	-	84	-	65	-	65	149
Rat	-	3	-	3	-	1	-	1	4
Shrew	-	4	-	4	-	-	-	-	4
Skunk	18	7	1	26	115	38	2	155	181
Squirrel	-	22	-	22	-	5	-	5	27
Vole	-	1	-	1	-	-	-	-	1
Wolf	-	-	-	-	-	1	-	1	1
Woodchuck	-	10	-	10	-	12	-	12	22
Zebra	-	-	-	-	-	1	-	1	1
TOTAL	78	1,544	12	1,634	147	499	6	652	2,286

*Fluorescent antibody testing performed by the Minnesota Department of Health

Cytology Laboratory Summary*

Species	Specimens
Avian	6
Bovine	4
Canine	778
Equine	17
Feline	200
Fish-Amphibian-Reptile	1
Miscellaneous Mammals	12
TOTAL	1,018

*Dr. Doug Weiss, Supervisor

Genetics Laboratory Summary

Species/Breed	Specimens Karyotyped	Number with Abnormal Chromosomes	Chromosomal Defect
Bovine/Holstein	105	20	Freemartin
Bovine/Charolais	139	59	1/29 Robertsonian Translocation
Bovine/Simmental	342	2 123	1/29 Robertsonian Translocation 14/20 Robertsonian Translocation
Canine	47	1	Sex Chromosome Abnormality
Equine	16	1	Sex Chromosome Abnormality
Feline	12	1	Sex Chromosome Abnormality
TOTAL	661	207	

Hematology Laboratory Summary*									
Species	Activated Partial Thromboplast	Coagulation Profile	Complete Blood Count	Crossmatch	Differential	EPE Screen	Fibrin Split Products	Fibrinogen	Hemo-bartonella
Avian	-	-	1	-	-	-	-	-	-
Bovine	-	-	23	-	4	-	-	-	-
Canine	2	9	157	2	6	-	2	-	-
Caprine	-	-	-	-	-	-	-	-	-
Equine	1	1	38	-	1	-	-	3	-
Feline	-	2	47	-	5	-	-	-	2
Misc. Mammal	-	-	55	-	1	74	-	-	-
Ovine	-	1	1	-	-	1	-	-	-
Porcine	5	-	4	-	-	1	-	-	-
TOTAL	8	13	326	2	17	76	2	3	2

Species	Hemoglobin	Packed Cell Volume	Partial Hemogram	Platelet Count	Prothrombin Time	Reticulocyte Count	Thrombin Time	Total Plasma Protein	White Blood Cell Count
Avian	-	-	-	-	-	-	-	-	-
Bovine	-	3	5	-	-	-	-	-	4
Canine	2	1	-	33	6	4	1	1	-
Caprine	-	-	-	-	-	-	-	-	-
Equine	1	-	-	-	-	-	-	-	1
Feline	-	-	-	1	1	3	1	-	-
Misc. Mammal	1	2	-	-	-	-	-	-	-
Ovine	-	-	-	-	-	-	-	-	-
Porcine	12	1	-	2	7	-	2	1	-
TOTAL	16	7	5	36	14	7	4	2	5

*Dr. Doug Weiss, Laboratory Supervisor

Histotechnique Laboratory Summary			
Slides (H&E Stain)	Special Stains (Slides)	Recut Blocks	Decalcification
25,490	1,209	412	276

Bacterial Cultures/Susceptibilities				
Species	Accessions	Aerobic Cultures	Anaerobic Cultures	Microbial Susceptibility
Avian-Chicken	150	933	-	94
Avian-Miscellaneous	267	716	20	123
Avian-Turkey	148	1,099	-	128
Bovine	2,880	6,762	72	1,031
Canine	2,217	2,778	360	1,316
Caprine	52	144	6	14
Equine	451	724	57	170
Feline	651	861	68	237
Fish-Amphibian-Reptile	63	118	17	55
Miscellaneous Mammal	267	682	27	97
Miscellaneous Specimen	55	222	4	14
Ovine	168	498	7	62
Porcine	2,978	10,541	56	2,497
TOTAL	10,347	26,078	694	5,838

Bacterial Cultures - Special Procedures										
Species	<i>Campylobacter spp.</i>								<i>Mycobacterium paratuberculosis</i>	
	Specimens	coli	jejuni	upsal.	hyoint.	sputorum	fecalis	Misc.	Specimens	Positive
Avian-Chicken	3	-	1	-	-	-	-	-	-	-
Avian-Miscellaneous	1	-	-	-	-	-	-	-	-	-
Avian-Turkey	6	5	-	-	-	-	-	-	-	-
Bovine	405	-	-	-	1	6	9	1	401	91
Canine	144	12	3	29	-	-	-	-	-	-
Equine	2	-	-	-	-	-	-	-	-	-
Feline	23	1	-	3	-	-	-	-	-	-
Miscellaneous Mammal	4	-	1	-	-	-	-	-	3	1*
Ovine	41	1	3	-	-	-	-	-	5	3
Porcine	1	1	-	-	-	-	-	-	-	-
TOTAL	633	20	8	32	1	6	9	2	412	97

*Elk

Bacterial Immunofluorescence in Tissues* - Clostridia

Species	Accessions	Specimens	<i>C. chauvoei</i> Positive	<i>C. septicum</i> Positive	<i>C. novyi</i> Positive
Bovine	36	43	7	8	9
Ovine	1	1	-	1	-
Porcine	2	4	-	-	3
TOTAL	39	48	7	9	12

*Frozen Section or Tissue Imprints

Bacterial Immunofluorescence in Tissues* - Escherichia coli Pilus Antigens

Species	Accessions	K88		K99		987P	
		Tests	Positive	Tests	Positive	Tests	Positive
Bovine	389	-	-	451	50	-	-
Porcine	643	584	306	478	26	463	18
TOTAL	1,032	584	306	929	76	463	18

*Frozen Section or Tissue Imprints

Bacterial Immunofluorescence in Tissues* - Chlamydia, Leptospira and Mycoplasma

Species	<i>Chlamydia psittaci</i>				<i>Leptospira sp.</i>				<i>Mycoplasma hyopneumoniae</i>				
	Accessions	Samples	Pos	Neg	Accessions	Samples	Pos	Neg	Accessions	Samples	Pos	Neg	
Avian- Chicken	-	-	-	-	-	-	-	-	-	-	-	-	-
Avian- Miscellaneous	6	10	0	10	-	-	-	-	-	-	-	-	-
Avian- Turkey	1	8	0	8	-	-	-	-	-	-	-	-	-
Bovine	2	3	0	3	13	18	0	18	-	-	-	-	-
Caprine	-	-	-	-	1	2	0	2	-	-	-	-	-
Equine	-	-	-	-	2	6	0	6	-	-	-	-	-
Feline	30	47	0	47	-	-	-	-	-	-	-	-	-
Llama	-	-	-	-	5	6	0	6	-	-	-	-	-
Ovine	3	7	0	7	4	5	0	5	-	-	-	-	-
Porcine	4	7	0	7	440	1,013	13	1,000	587	878	48	830	
TOTAL	46	82	0	82	465	1,050	13	1,037	587	878	48	830	

*Frozen Section or Tissue Imprints

Bovine Mastitis Cultures

Number of Bovine Mastitis Cultures: 2,738
 Number with Significant Isolates: 1,207 (44%)
 Number with No growth: 1,531 (56%)
 Number of Bulk Tank Samples: 374

Isolate	Number Isolated	Number of Isolates Tested	Percent Susceptible		
			Amikacin	Ampicillin	Cephalothin
<i>Actinomyces pyogenes</i>	13	2	100	100	100
<i>Bacillus sp.</i>	3	3	100	0	67
<i>Citrobacter spp.</i>	4	4	100	0	75
<i>Corynebacterium spp.</i>	25	0	-	-	-
<i>Enterobacter spp.</i>	3	3	100	33	67
<i>Enterococcus sp.</i>	22	22	18	86	55
<i>Escherichia coli</i>	38	33	97	61	52
<i>Flavobacterium sp.</i>	4	3	100	67	100
<i>Klebsiella sp.</i>	14	14	100	7	93
<i>Pasteurella multocida</i>	5	5	80	80	100
<i>Pseudomonas spp.</i>	1	1	100	0	0
<i>Proteus sp.</i>	3	3	100	33	33
<i>Salmonella sp.</i>	1	1	100	100	100
<i>Serratia spp.</i>	8	8	100	50	0
<i>Staphylococcus aureus</i>	436	248	96	60	98
<i>Staphylococcus spp.- coag. neg.</i>	193	140	98	66	100
<i>Streptococcus agalactiae</i>	289	4	25	100	100
<i>Streptococcus bovis</i>	30	26	23	92	92
<i>Streptococcus dysgalactiae</i>	48	31	42	97	97
<i>Streptococcus uberis</i>	113	91	15	88	98
Yeasts	-	-	-	-	-

(continued)

Bovine Mastitis Cultures (continued)

Isolate	Percent Susceptible				
	Cloxacillin	Erythromycin	Gentamicin	Neomycin	Novobiocin
<i>Actinomyces pyogenes</i>	-	100	100	100	100
<i>Bacillus sp.</i>	-	100	100	100	33
<i>Citrobacter spp.</i>	-	0	100	100	0
<i>Corynebacterium spp.</i>	-	-	-	-	-
<i>Enterobacter spp.</i>	-	0	100	67	0
<i>Enterococcus spp.</i>	-	41	64	18	0
<i>Escherichia coli</i>	-	0	97	33	0
<i>Flavobacterium sp.</i>	-	0	100	100	0
<i>Klebsiella spp.</i>	-	0	93	57	0
<i>Pasteurella multocida</i>	-	60	80	20	80
<i>Proteus sp.</i>	-	0	100	67	0
<i>Pseudomonas spp.</i>	-	0	100	100	0
<i>Salmonella sp.</i>	-	0	100	100	0
<i>Serratia spp.</i>	-	0	100	88	0
<i>Staphylococcus aureus</i>	99	74	100	83	89
<i>Staphylococcus spp.- coag. neg.</i>	98	83	98	93	76
<i>Streptococcus agalactiae</i>	-	75	25	0	0
<i>Streptococcus bovis</i>	-	85	62	23	38
<i>Streptococcus dysgalactiae</i>	-	48	84	13	16
<i>Streptococcus uberis</i>	-	57	56	14	8
Yeasts	-	-	-	-	-

Isolate	Percent Susceptible				
	Penicillin	Streptomycin	Vetasulid	Tetracycline	Triple Sulfa
<i>Actinomyces pyogenes</i>	100	50	0	50	0
<i>Bacillus sp.</i>	0	100	67	100	67
<i>Citrobacter spp.</i>	0	100	0	100	0
<i>Corynebacterium spp.</i>	-	-	-	-	-
<i>Enterobacter spp.</i>	0	67	67	33	67
<i>Enterococcus spp.</i>	41	5	5	41	0
<i>Escherichia coli</i>	0	58	55	61	45
<i>Flavobacterium sp.</i>	0	100	100	100	100
<i>Klebsiella spp.</i>	0	36	43	64	43
<i>Pasteurella multocida</i>	60	40	60	80	60
<i>Proteus sp.</i>	0	67	67	0	0
<i>Pseudomonas spp.</i>	0	0	0	100	0
<i>Salmonella sp.</i>	0	100	100	0	0
<i>Serratia spp.</i>	0	38	75	0	88
<i>Staphylococcus aureus</i>	60	84	52	94	35
<i>Staphylococcus spp.- coag. neg.</i>	66	83	43	84	31
<i>Streptococcus agalactiae</i>	100	0	50	75	50
<i>Streptococcus bovis</i>	92	8	27	27	19
<i>Streptococcus dysgalactiae</i>	97	45	45	19	45
<i>Streptococcus uberis</i>	88	9	11	48	11
Yeasts	-	-	-	-	-

Actinobacillus pleuropneumoniae Serotyping*

Type	Accessions	Percent
1	97	84
5	9	8
7	4	3
Untypable	6	5
TOTAL	116	100

*Serotyping conducted by Dr. Carlos Pijoan

Pasteurella multocida Serotyping*

Type	Avian	Bovine	Chicken	Porcine	Turkey	Total
A	-	3	-	8	-	11
1	-	-	-	-	-	0
3	1	3	-	3	-	7
3x4	1	1	-	8	-	10
3x4x5	-	-	-	1	-	1
Untypable	-	1	-	1	-	2
D	-	-	14	-	-	14
TOTAL	2	5	22	13	3	45

*Serotyping conducted by Dr. K. Nagaraja

Salmonella Serotyping													
Serotype	Avian-Chicken	Avian-Misc.	Avian-Turkey	Bovine	Canine	Equine	Feline	Fish/Amphib/Reptile	Misc. Mammals	Misc. Specimen	Ovine	Porcine	Total
adelaide	-	-	1	-	-	-	-	-	-	-	-	-	1
afiao	-	-	1	-	-	-	-	-	-	-	-	1	2
agona	-	1	-	6	-	-	-	-	-	-	-	10	17
anatum	-	-	2	2	-	-	1	-	-	-	-	3	8
arizona	1	-	-	3	-	-	-	8	-	-	4	-	16
bern	-	-	-	-	-	-	-	-	1	-	-	-	1
blockley	-	-	1	-	-	-	-	-	-	-	-	-	1
braenderup	1	-	-	-	-	-	-	-	-	-	-	-	1
brandenberg	1	-	-	1	-	-	-	-	-	-	-	-	2
bredney	-	-	5	1	-	-	-	-	-	-	-	3	9
chameleon	-	-	-	-	-	-	-	1	-	-	-	-	1
champaign	-	-	-	-	-	-	1	-	-	-	-	-	1
cholerasuis/kunzendorf	-	-	-	1	-	-	-	-	-	-	-	169	170
derby	-	-	-	2	-	-	-	-	-	-	-	16	18
dublin	-	-	-	42	-	1	-	-	-	-	-	2	45
enteriditis	-	-	-	14	-	1	-	-	-	-	1	2	18
florida	-	-	-	-	-	-	-	1	-	-	-	-	1
give	-	-	-	2	-	-	-	-	-	-	-	-	2
hadar	2	4	5	5	2	-	-	-	-	-	-	-	18
heidelberg	1	-	6	-	1	1	-	-	-	-	-	1	10
indiana	-	-	2	-	-	-	-	-	-	-	-	-	2
infantis	2	-	-	1	-	-	-	-	-	1	-	7	11
janowani	1	-	-	-	-	-	-	-	-	-	-	-	1
kentucky	1	-	-	-	-	-	-	-	-	-	-	-	1
litchfield	-	-	-	-	-	1	-	-	-	-	-	-	1
livingstone	-	-	-	-	-	-	1	-	-	-	-	-	1
mbandana	-	-	-	1	-	-	-	-	-	-	1	1	3
meleagridis	-	-	1	-	-	-	-	-	-	-	-	-	1
minnesota	-	-	-	-	-	1	-	-	-	-	-	-	1
montevideo	1	-	9	1	-	-	1	-	-	-	-	1	13
muechen	-	-	1	-	-	-	-	-	-	-	-	-	1
new brunswick	-	-	-	1	-	-	-	-	-	-	-	-	1
newport	-	-	-	-	-	1	-	-	1	-	-	-	2
ohio	-	-	-	-	1	-	-	-	-	-	-	1	2
othmarschen	-	-	-	1	-	-	-	1	-	-	-	-	2
st. paul	-	-	3	-	-	-	-	-	-	-	-	1	4
san diego	-	-	-	-	-	-	-	-	1	-	-	1	2
seftenberg	1	-	2	-	1	-	-	-	-	-	-	1	5
thompson	-	-	-	3	-	-	-	-	-	-	-	-	3
typhimurium	3	4	-	34	1	8	3	1	3	-	-	7	64
typhimurium/copenhagen	-	2	-	22	2	1	1	-	1	-	-	1	30
wassennar	-	-	-	-	-	-	-	1	-	-	-	-	1
weltevreden	-	-	-	-	-	-	-	1	-	-	-	-	1
worthington	-	-	1	-	-	-	-	-	-	-	-	1	2
Salmonella 6,14,24:1,z28-e,n,x	-	1	-	-	-	-	-	-	-	-	-	-	1
Salmonella 9,12 non-motile	-	-	-	33	-	-	-	-	-	-	-	-	33
Multiple serotypes	-	1	-	1	-	-	-	-	-	-	-	-	2
TOTAL	15	13	40	177	8	15	8	14	7	1	6	229	533

<i>Streptococcus suis</i> Serotyping - Porcine Origin*																	
Source	Serotype															Total	Percent
	1	2	3	4	5	6	7	8	9	10	11	14	16	17	UT**		
Abscess	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	3	0.6
Brain/Meninges	-	17	1	1	2	-	12	1	4	-	1	-	-	-	11	50	10.8
Heart	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	2	0.4
Heart Valve	-	3	-	-	-	-	1	-	1	-	1	-	-	-	3	9	1.9
Joint	-	3	-	-	-	-	1	-	-	-	-	1	-	-	-	5	1.1
Kidney	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	3	0.6
Liver	-	5	-	1	3	-	2	-	2	-	1	-	-	-	5	19	4.1
Lung	-	104	32	18	11	2	25	23	4	2	13	2	2	2	73	313	67.2
Nasal Turbinates	-	4	1	3	1	-	1	1	-	-	1	-	1	-	7	20	4.3
Pericardial Sac	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	3	0.6
Spleen	1	7	2	-	1	-	2	1	-	-	1	-	-	-	3	18	3.9
Fetal Stomach Content	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	0.9
Thrombus	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	0.4
Unknown	-	2	-	-	-	-	4	2	1	-	1	-	-	-	5	15	3.2
TOTAL	1	148	37	24	18	2	50	28	13	3	20	3	3	2	114	466	
PERCENT	0.2	31.8	7.9	5.2	3.9	0.4	10.8	6.0	2.8	0.6	4.3	0.6	0.6	0.4	24.5	100	

*Serotyping conducted by Dr. Carlos Pijoan

**Untypable

In Vitro Antimicrobial Drug Susceptibility Tests

Avian (Chicken and Turkey)

Isolate	Number of Isolates Tested	Percent Susceptible					
		Bacitracin	Erythromycin	Gentamicin	Lincomycin	Neomycin	Nitrofurantoin
<i>Bordetella sp.</i>	3	0	33	100	0	100	0
<i>Erysipelothrix rhusiopathiae</i>	8	0	100	0	100	0	100
<i>Escherichia coli</i>	49	0	0	76	0	16	69
<i>Pasteurella hemolytica</i>	34	3	27	100	3	81	100
<i>Pasteurella multocida</i>	25	0	8	96	0	40	100
<i>Pasteurella spp.</i>	4	33	25	100	0	100	100
<i>Salmonella spp.</i>	45	0	0	77	0	47	80
<i>Staphylococcus aureus</i>	17	100	76	94	71	71	94
<i>Staphylococcus spp.-coag. neg.</i>	19	79	63	95	61	83	100

Isolate	Percent Susceptible							
	Novobiocin	Penicillin	Spectinomycin	Streptomycin	Sulfachloropyridazine	Tetracycline Doxycycline	Trimethoprim Sulfa	Triple Sulfa
<i>Bordetella sp.</i>	0	0	100	0	100	67	100	100
<i>Erysipelothrix rhusiopathiae</i>	0	100	100	0	0	0	0	0
<i>Escherichia coli</i>	0	0	69	28	25	16	90	23
<i>Pasteurella hemolytica</i>	3	74	94	77	52	6	94	56
<i>Pasteurella multocida</i>	77	96	96	40	54	96	96	31
<i>Pasteurella spp.</i>	25	100	100	100	75	0	100	50
<i>Salmonella spp.</i>	-	0	60	23	46	40	98	24
<i>Staphylococcus aureus</i>	76	65	13	76	53	24	100	29
<i>Staphylococcus spp.-coag. neg.</i>	79	79	16	78	78	42	100	63

In Vitro Antimicrobial Drug Susceptibility Tests (continued)

Bovine

Isolate	Number of Isolates Tested	Percent Susceptible				
		Amikacin	Ampicillin	Apramycin	Ceftiofur	Cephalothin
<i>Actinomyces pyogenes</i>	8	-	100	0	100	100
<i>Escherichia coli</i>	439	98	29	79	70	32
<i>Enterobacter spp.</i>	6	100	17	100	67	33
<i>Haemophilus spp.</i>	34	-	94	-	94	100
<i>Klebsiella spp.</i>	9	100	0	100	78	100
<i>Moraxella bovis</i>	2	-	100	-	100	100
<i>Pasteurella haemolytica</i>	99	-	54	-	95	98
<i>Pasteurella multocida</i>	127	-	89	-	100	99
<i>Pseudomonas spp.</i>	8	100	0	0	38	25
<i>Salmonella spp.</i>	169	100	25	95	75	84
<i>Staphylococcus spp.-coag. pos.</i>	9	-	78	-	100	100
<i>Staphylococcus spp.-coag. neg.</i>	9	-	57	-	88	100

Isolate	Percent Susceptible						
	Erythromycin	Gentamicin	Kanamycin	Lincomycin	Neomycin	Nitrofurantoin	Novobiocin
<i>Actinomyces pyogenes</i>	88	100	88	75	-	100	75
<i>Escherichia coli</i>	-	70	15	-	3	91	-
<i>Enterobacter spp.</i>	-	83	50	-	33	50	-
<i>Haemophilus spp.</i>	50	97	65	12	-	94	79
<i>Klebsiella spp.</i>	-	100	78	-	22	33	-
<i>Moraxella bovis</i>	50	100	100	0	-	100	0
<i>Pasteurella haemolytica</i>	7	94	73	3	-	98	9
<i>Pasteurella multocida</i>	17	100	80	1	-	100	61
<i>Pseudomonas spp.</i>	-	100	29	-	43	38	-
<i>Salmonella spp.</i>	-	91	27	-	14	92	-
<i>Staphylococcus spp.-coag. pos.</i>	89	100	100	86	-	100	100
<i>Staphylococcus spp.-coag. neg.</i>	25	78	75	43	-	88	88

In Vitro Antimicrobial Drug Susceptibility Tests (continued)

Bovine (continued)

Isolate	Percent Susceptible						
	Penicillin	Spectinomycin	Sulfachloro- pyridazine	Tetracycline	Trimetho- prim Sulfa	Triple Sulfa	Enrofloxacin
<i>Actinomyces pyogenes</i>	100	88	25	38	88	0	-
<i>Escherichia coli</i>	-	48	10	6	66	11	98
<i>Enterobacter spp.</i>	-	67	0	33	100	17	83
<i>Haemophilus spp.</i>	79	76	59	68	79	18	-
<i>Klebsiella spp.</i>	-	44	27	50	78	42	100
<i>Moraxella bovis</i>	100	50	100	100	100	100	-
<i>Pasteurella haemolytica</i>	52	82	55	44	94	26	-
<i>Pasteurella multocida</i>	85	85	65	79	100	25	-
<i>Pseudomonas spp.</i>	-	57	14	14	14	17	60
<i>Salmonella spp.</i>	-	36	21	17	85	10	100
<i>Staphylococcus spp.-coag. pos.</i>	78	29	67	100	100	56	-
<i>Staphylococcus spp.-coag. neg.</i>	63	25	78	56	100	44	-

Canine and Feline

Isolate	Number of Isolates Tested	Percent Susceptible				
		Amikacin	Ampicillin	Amoxicillin/ Clavulanic Acid	Bacitracin	Cefataxine
<i>Bordetella spp.</i>	22	-	70	100	-	55
<i>Enterobacter spp.</i>	12	100	58	23	-	100
<i>Escherichia coli</i>	215	100	71	87	-	99
<i>Klebsiella spp.</i>	22	95	0	78	-	95
<i>Pasteurella multocida</i>	60	-	98	100	0	100
<i>Pasteurella spp.</i>	9	-	100	100	100	100
<i>Proteus spp.</i>	56	98	48	80	-	73
<i>Pseudomonas spp.</i>	78	97	1	6	-	17
<i>Salmonella spp.</i>	15	100	80	92	-	100
<i>Staphylococcus spp.-coag. pos.</i>	197	-	22	99	90	92
<i>Staphylococcus spp.-coag. neg.</i>	96	-	33	99	87	88
<i>Staphylococcus spp.-alpha</i>	50	-	90	98	79	90
<i>Streptococcus spp.-beta</i>	87	-	85	100	86	98

In Vitro Antimicrobial Susceptibility Tests (continued)

Canine and Feline (continued)

Isolate	Percent Susceptible						
	Cephalothin	Chloramphenicol	Clindamycin	Enrofloxacin	Erythromycin	Gentamicin	Neomycin
<i>Bordetella spp.</i>	64	100	0	100	100	100	-
<i>Enterobacter spp.</i>	8	69	-	91	-	69	0
<i>Escherichia coli</i>	34	91	-	99	-	97	42
<i>Klebsiella spp.</i>	75	75	-	100	-	86	25
<i>Pasteurella multocida</i>	90	100	0	100	23	97	60
<i>Pasteurella spp.</i>	100	100	0	100	80	90	100
<i>Proteus spp.</i>	58	68	-	100	-	91	74
<i>Pseudomonas spp.</i>	1	3	-	83	-	83	23
<i>Salmonella spp.</i>	77	86	-	100	-	93	100
<i>Staphylococcus spp.</i> -coag. pos.	99	96	61	96	55	95	62
<i>Staphylococcus spp.</i> -coag. neg.	97	93	65	98	55	95	87
<i>Streptococcus spp.</i> -alpha	88	92	75	65	78	86	8
<i>Streptococcus spp.</i> -beta	96	97	76	68	78	74	14

Isolate	Percent Susceptible						Trimethoprim Sulfa
	Nitrofurantoin	Oxacillin	Penicillin	Polymyxin	Tetracycline	Ticarcillin	
<i>Bordetella spp.</i>	-	-	0	-	100	-	52
<i>Enterobacter spp.</i>	91	-	-	0	45	18	77
<i>Escherichia coli</i>	99	-	-	63	71	72	89
<i>Klebsiella spp.</i>	84	-	-	25	70	11	73
<i>Pasteurella multocida</i>	-	-	97	89	97	-	100
<i>Pasteurella spp.</i>	-	-	90	100	90	-	100
<i>Proteus spp.</i>	13	-	-	3	5	26	78
<i>Pseudomonas spp.</i>	97	-	-	74	5	78	7
<i>Salmonella spp.</i>	100	-	-	-	67	79	93
<i>Staphylococcus spp.</i> -coag. pos.	-	97	22	60	57	93	77
<i>Staphylococcus spp.</i> -coag. neg.	-	90	31	73	61	91	68
<i>Streptococcus spp.</i> -alpha	-	-	84	17	46	100	96
<i>Streptococcus spp.</i> -beta	-	-	80	9	30	100	88

In Vitro Antimicrobial Susceptibility Tests (continued)

Equine

Isolate	Number of Isolates Tested	Percent Susceptible		
		Amikacin	Ampicillin	Carbenicillin
<i>Actinobacillus spp.</i>	15	-	53	-
<i>Enterobacter spp.</i>	6	100	33	53
<i>Escherichia coli</i>	21	100	55	60
<i>Klebsiella spp.</i>	3	100	0	33
<i>Pseudomonas spp.</i>	7	100	17	80
<i>Rhodococcus equi</i>	4	-	0	0
<i>Salmonella spp.</i>	12	100	33	30
<i>Staphylococcus spp.</i> -coag. pos.	6	-	67	-
<i>Staphylococcus spp.</i> -coag. neg.	9	-	67	-
<i>Streptococcus spp.</i> -alpha	6	-	100	-
<i>Streptococcus spp.</i> -beta	31	-	97	-

Isolate	Percent Susceptible				
	Ceftiofur	Cephalothin	Chloramphenicol	Erythromycin	Gentamicin
<i>Actinobacillus spp.</i>	76	93	93	6	93
<i>Enterobacter spp.</i>	67	33	50	-	33
<i>Escherichia coli</i>	71	52	85	-	82
<i>Klebsiella spp.</i>	100	33	67	-	67
<i>Pseudomonas spp.</i>	50	14	33	-	100
<i>Rhodococcus equi</i>	50	25	75	75	100
<i>Salmonella spp.</i>	77	55	58	-	50
<i>Staphylococcus spp.</i> -coag. pos.	55	100	83	33	100
<i>Staphylococcus spp.</i> -coag. neg.	89	100	100	44	89
<i>Streptococcus spp.</i> -alpha	67	67	100	60	83
<i>Streptococcus spp.</i> -beta	100	97	100	97	61

In Vitro Antimicrobial Susceptibility Tests (continued)

Equine (continued)

Isolate	Percent Susceptible					
	Neomycin	Nitrofurantoin	Novobiocin	Penicillin	Polymyxin	Rifampin
<i>Actinobacillus spp.</i>	-	93	0	40	-	8
<i>Enterobacter spp.</i>	33	67	-	-	67	-
<i>Escherichia coli</i>	29	91	-	-	39	-
<i>Klebsiella spp.</i>	33	50	-	-	0	-
<i>Pseudomonas spp.</i>	50	14	-	-	60	-
<i>Rhodococcus equi</i>	-	25	0	25	-	67
<i>Salmonella spp.</i>	33	92	-	-	42	-
<i>Staphylococcus spp.</i> -coag. pos.	-	100	67	67	-	100
<i>Staphylococcus spp.</i> -coag. neg.	-	86	44	50	-	86
<i>Streptococcus spp.</i> -alpha	-	83	60	67	-	83
<i>Streptococcus spp.</i> -beta	-	100	10	97	-	97

Percent Susceptible

Isolate	Percent Susceptible					
	Spectinomycin	Sulfachloro- pyridazine	Tetracycline	Ticarcillin	Trimethoprim Sulfa	Triple Sulfa
<i>Actinobacillus spp.</i>	69	80	80	-	100	73
<i>Enterobacter spp.</i>	33	20	50	20	43	17
<i>Escherichia coli</i>	71	41	52	75	68	38
<i>Klebsiella spp.</i>	50	33	33	100	33	0
<i>Pseudomonas spp.</i>	60	0	43	40	14	40
<i>Rhodococcus equi</i>	75	25	50	-	50	33
<i>Salmonella spp.</i>	92	25	33	36	50	8
<i>Staphylococcus spp.</i> -coag. pos.	17	50	100	-	80	33
<i>Staphylococcus spp.</i> -coag. neg.	56	63	89	-	78	56
<i>Streptococcus spp.</i> -alpha	67	33	50	-	100	33
<i>Streptococcus spp.</i> -beta	97	13	29	-	73	13

Ovine

Isolate	Number of Isolates Tested	Percent Susceptible				
		Amikacin	Ampicillin	Apramycin	Ceftiofur	Cephalothin
<i>Escherichia coli</i>	12	92	55	92	82	42
<i>Pasteurella hemolytica</i>	11	-	100	-	100	100
<i>Pasteurella multocida</i>	8	-	100	-	100	100
<i>Salmonella spp.</i>	6	100	100	100	83	100

In Vitro Antimicrobial Drug Susceptibility Tests (continued)

Ovine (continued)

Isolate	Percent Susceptible						
	Erythromycin	Enrofloxacin	Gentamicin	Kanamycin	Lincomycin	Neomycin	Nitrofurantoin
<i>Eschericia coli</i>	-	100	92	67	-	17	83
<i>Pasteurella hemolytica</i>	9	-	100	100	0	-	100
<i>Pasteurella multocida</i>	29	-	100	100	0	-	100
<i>Salmonella spp.</i>	0	100	100	100	-	67	100

Percent Susceptible

Isolate	Percent Susceptible						
	Novobiocin	Penicillin	Spectinomycin	Sulfachloro-pyridizine	Tetracycline	Trimethoprim Sulfa	Triple Sulfa
<i>Eschericia coli</i>	-	-	73	33	42	100	50
<i>Pasteurella hemolytica</i>	9	100	100	91	64	100	73
<i>Pasteurella multocida</i>	63	100	100	88	100	100	63
<i>Salmonella spp.</i>	-	-	100	67	83	100	33

Porcine

Isolate	Number of Isolates Tested	Percent Susceptible				
		Amikacin	Ampicillin	Apramycin	Ceftiofur	Cephalothin
<i>Actinobacillus pleuropneumoniae</i>	115	-	59	-	97	100
<i>Actinobacillus spp.</i>	34	-	65	-	94	94
<i>Actinomyces pyogenes</i>	15	-	100	-	100	100
<i>Bordetella spp.</i>	72	-	39	-	0	29
<i>Enterobacter spp.</i>	5	100	0	100	60	40
<i>Erysipelothrix rhusiopathiae</i>	53	-	100	-	100	100
<i>Eschericia coli</i>	686	100	57	54	79	32
<i>Haemophilus spp.</i>	123	-	93	-	99	100
<i>Klebsiella spp.</i>	8	100	0	100	29	100
<i>Pasteurella multocida</i>	367	-	99	-	99	100
<i>Salmonella spp.</i>	220	100	76	93	79	97
<i>Staphylococcus hyicus</i>	31	-	6	-	90	100
<i>Staphylococcus spp.-coag. neg.</i>	8	-	25	-	88	100
<i>Streptococcus suis</i>	351	-	94	-	87	99
<i>Streptococcus spp.-alpha</i>	167	-	78	-	75	88
<i>Streptococcus spp.-beta</i>	66	-	92	-	97	96

In Vitro Antimicrobial Drug Susceptibility Tests (continued)

Porcine (continued)

Isolate	Percent Susceptible						
	Enrofloxacin	Erythromycin	Gentamicin	Kanamycin	Lincomycin	Neomycin	Nitrofurantoin
<i>Actinobacillus pleuropneumoniae</i>	-	21	98	81	3	-	100
<i>Actinobacillus spp.</i>	-	15	97	65	3	-	97
<i>Actinomyces pyogenes</i>	-	67	100	93	73	-	100
<i>Bordetella spp.</i>	-	83	100	93	0	-	10
<i>Enterobacter spp.</i>	100	-	100	80	-	60	40
<i>Erysipelothrix rhusiopathiae</i>	-	85	2	2	94	-	98
<i>Escherichia coli</i>	100	-	53	33	-	10	67
<i>Haemophilus spp.</i>	-	93	96	80	56	-	98
<i>Klebsiella spp.</i>	100	-	100	88	-	38	25
<i>Pasteurella multocida</i>	-	26	99	92	2	-	100
<i>Salmonella spp.</i>	100	-	93	81	-	54	93
<i>Staphylococcus hyicus</i>	-	29	97	77	10	-	100
<i>Staphylococcus spp.-coag. neg.</i>	-	25	100	75	13	-	100
<i>Streptococcus suis</i>	-	31	59	8	26	-	74
<i>Streptococcus spp.-alpha</i>	-	28	72	16	22	-	69
<i>Streptococcus spp.-beta</i>	-	29	77	14	21	-	88

Isolate	Percent Susceptible						
	Novobiocin	Penicillin	Spectinomycin	Sulfachloro-pyridazine	Tetracycline	Trimethoprim Sulfa	Triple Sulfa
<i>Actinobacillus pleuropneumoniae</i>	13	59	96	87	22	68	1
<i>Actinobacillus spp.</i>	21	50	85	65	18	94	38
<i>Actinomyces pyogenes</i>	93	100	100	67	33	100	53
<i>Bordetella spp.</i>	46	0	0	6	97	15	6
<i>Enterobacter spp.</i>	-	-	80	60	0	60	60
<i>Erysipelothrix rhusiopathiae</i>	0	100	94	0	9	4	0
<i>Escherichia coli</i>	-	-	56	14	4	89	12
<i>Haemophilus spp.</i>	93	92	98	70	92	84	4
<i>Klebsiella spp.</i>	-	-	100	38	25	86	38
<i>Pasteurella multocida</i>	66	98	94	44	77	99	31
<i>Salmonella spp.</i>	-	-	88	10	15	95	5
<i>Staphylococcus hyicus</i>	94	6	10	74	10	90	48
<i>Staphylococcus spp.-coag. neg.</i>	75	25	25	63	73	100	36
<i>Streptococcus suis</i>	13	86	79	24	3	98	22
<i>Streptococcus spp.-alpha</i>	20	69	72	26	4	94	26
<i>Streptococcus spp.-beta</i>	8	92	48	52	0	94	53

Mycology (Specimens Cultured)	
Species	Total Cultures
Avian- Chicken	6
Avian-Turkey	13
Avian- Miscellaneous	115
Bovine	684
Canine	430
Caprine	10
Equine	134
Feline	74
Fish/Amphibians/Reptiles	10
Miscellaneous Mammals	57
Miscellaneous Specimens	34
Ovine	55
Porcine	510
TOTAL	2,132

Immunology					
Species	Antinuclear Antibody	Antiplatelet Antibody	Antithrombin III Level	Autoimmune Dermatitis (IgG, C ₃)	Direct Coombs
Bovine	-	-	-	-	-
Canine	57	7	5	30	26
Equine	-	-	-	-	1
Feline	2	-	-	7	-
Misc. Mammal	-	-	-	-	-
Porcine	-	-	-	-	-
TOTAL	59	7	5	37	27

Species	Immune Panel	Immunoglobulins Fetal Fluid	Immunoglobulins Serum	LE Clot	Rheumatoid Factor
Bovine	1	175	64	-	1
Canine	30	-	-	4	23
Equine	-	-	51	-	-
Feline	1	-	-	-	-
Misc. Mammal	-	-	36	-	-
Porcine	-	622	-	-	-
TOTAL	32	797	151	4	24

Parasitology - Microscopic Examinations				
Species	Direct Smears		Flotation Examinations	
	Accessions	Samples	Accessions	Samples
Avian - Chicken	61	102	—	—
Avian - Miscellaneous	43	70	—	—
Avian - Turkey	66	108	1	1
Bovine	313	382	104	134
Canine	91	98	63	72
Caprine	10	11	6	6
Equine	13	15	31	34
Feline	31	32	20	22
Fish-Amphibian-Reptile	3	5	3	4
Miscellaneous Mammal	54	69	39	44
Ovine	26	30	15	18
Porcine	788	1,053	21	32
TOTAL	1,499	1,975	303	367

Parasitology - <i>Cryptosporidium</i> sp. Examinations					
Species	Accessions	Specimens	Accessions Positive	Specimens Positive	Percent Accessions Positive
Avian-Chicken	2	2	—	—	0
Avian-Miscellaneous	3	4	2	2	67
Avian-Turkey	15	19	3	3	20
Bovine	963	1,206	359	462	37
Caprine	2	3	2	2	100
Miscellaneous Mammals	22	28	2	2	9
TOTAL	1,007	1,259	368	471	

Parasitology - Special Examinations*

Host Species	Ectoparasites	No. Cases	Endoparasites	No. Cases
Avian - Chicken			<i>Eimeria maxima</i>	1
			<i>Eimeria necatrix</i>	1
			Nematode	1
Avian - Miscellaneous			<i>Contracaecum sp.</i>	1
			<i>Eimeria sp.</i>	1
			Fluke ova	2
			<i>Goniodes pavonis</i>	1
			Trematode	1
Bovine	<i>Phormia sp.</i>	1	<i>Buxtonella sulcata</i>	1
			<i>Fascioloides magna</i>	1
			<i>Monezia benedeni</i>	1
			<i>Nematodirus sp.</i>	1
			Trichostrongyle	1
Canine	<i>Dermacentor sp.</i>	1	<i>Alaria sp.</i>	1
	<i>Dermacentor variabilis</i>	2	<i>Ancylostoma caninum</i>	1
	<i>Cheyletiella sp.</i>	1	<i>Cuterebra sp.</i>	1
	<i>Ixodes sp.</i>	1	<i>Giardia sp.</i>	3
	<i>Ixodes dammini</i>	1	<i>Isospora sp.</i>	1
	Free living mite	3	<i>Mesocostoides sp.</i>	1
	<i>Rhipicephalus sanguineus</i>	1	<i>Physaloptera sp.</i>	1
			<i>Toxocara canis</i>	3
Equine	<i>Dermacentor andersoni</i>	1		
Feline	<i>Dermacentor variabilis</i>	1	<i>Trichomonas sp.</i>	1
	<i>Ixodes dammini</i>	1		
Fish-Amphibian-Reptile			<i>Balantidium sp.</i>	1
			<i>Cryptosporidium sp.</i>	2
			Fluke	1
			<i>Monocystis sp.</i>	1
			Nematode	1
			<i>Nyctotherus sp.</i>	2
			Oxyurid ova	3
		Pentastome	1	
Miscellaneous Mammals	<i>Cephenomyia sp.</i>	1	<i>Alaria sp.</i>	1
	Lice	1	Cestode	1
			<i>Diocotophyma renale</i>	1
			<i>Passalurus amibiguus</i>	2
			<i>Trichodectes canis</i>	1
			<i>Trichuris sp.</i>	1
Ovine			<i>Eimeria sp.</i>	1
Porcine	<i>Ophyra sp.</i>	1		
	Tyroglyphid	1		
Unknown	Ground Beetle	1		
	<i>Pediculus humanus</i>	1		
	Chironomid larvae	1		
	<i>Ixodes cookei</i>	2		
	<i>Dermacentor variabilis</i>	1		

*96 total examinations conducted by Gary Averbek/Dr. Bert Stromberg

Serology Summary

Disease	Positive	Suspect	Negative	No Test/ Toxic	Total Tests	Percent Positive
Aleutian Disease (CIEP)	49	-	293	2	344	14.2
Anaplasmosis (CF)	102	103	16,459	33	16,697	0.6
Blue Tongue (AGID)	49	6	1,156	1	1,212	4.0
Bovine Adenovirus	22	-	9	-	31	71.0
Bovine Herpesvirus DN599 (IFA)	26	-	201	-	227	11.4
Bovine Herpes Mammillitis (SN)	113	-	83	1	197	57.6
Bovine Leukosis (AGID)	443	2	1,416	-	1,861	23.8
Bovine Respiratory Syncytial Virus (SN)	898	-	42	12	952	94.3
Bovine Viral Diarrhea (SN)	2,380	-	1,035	200	3,615	65.8
<i>Brucella abortus</i> (CF)	-	-	127	10	137	0.0
<i>Brucella canis</i> (Rapid Slide/Tube Agg.)	-	-	122	2	124	0.0
Caprine Arthritis Encephalitis Virus (AGID)	170	28	535	3	736	23.1
Chlamydia (CF)	15	9	198	-	222	6.8
Encephalomyocarditis Virus (SN)	2,509	-	3,657	35	6,201	40.5
Encephalomyocarditis Virus (HAI)	14	-	4	-	18	77.7
Equine Infectious Anemia (AGID)	3	-	1,832	-	1,835	0.2
Equine Infectious Anemia (CELISA)	5	-	10	-	15	33.3
Equine Viral Rhinopneumonitis Virus (SN)	29	-	27	11	67	43.3
Eperythrozoonosis (HA)	80	166	1,416	-	1,662	4.8
Feline Leukemia (ELISA)	8	-	38	-	46	17.4
Hemagglutinating Encephalomyelitis Virus (HAI)	27	-	0	-	27	100.0
Infectious Bovine Rhinotracheitis (SN)	2,233	-	1,044	213	3,490	64.0
Leptospira (MA-6 serovars)	5,979	-	4,123	-	10,102	59.2
Lyme Disease (IFA)	670	576	479	-	1,725	38.8
<i>Mycobacterium paratuberculosis</i> (AGID)	249	1	548	-	798	31.2
<i>Mycobacterium paratuberculosis</i> (CF)	2	3	146	-	151	1.3
Ovine Progressive Pneumonia (AGID)	304	16	1,331	-	1,651	18.4
Parainfluenza-3 (HI)	1,247	-	172	-	1,419	87.9
Parvovirus (HAI)	2,500	-	812	39	3,351	74.1
Pseudorabies (ELISA Screen)	8,048	-	161,900	-	169,948	4.7
Pseudorabies (GP1)	2,775	-	20,942	-	23,717	11.7
Pseudorabies (GPX)	3,708	-	23,115	-	26,823	13.8
Pseudorabies (LAT)	93	-	156	-	249	37.3
Pseudorabies (SN)	3,866	-	5,090	19	8,975	43.3
Swine Influenza Virus (HI)	683	-	536	-	1,219	56.0
Transmissible Gastroenteritis (SN)	401	-	823	4	1,228	32.6
Toxoplasma (IHA)	19	-	174	-	193	9.8
Vesicular Stomatitis (CF)	-	-	2	-	2	0.0
Vesicular Stomatitis - Indiana (SN)	-	-	595	-	595	0.0
Vesicular Stomatitis - New Jersey (SN)	-	-	563	-	563	0.0
TOTAL	39,719	910	251,211	585	292,425	

Serology by Species (Accessions/Animals)

Species	July	August	September	October	November	December	(continued below)
Avian- Chicken	3/14	2/20	2/6	0/0	0/0	0/0	
Avian- Miscellaneous	3/3	5/12	0/0	1/4	1/1	2/2	
Avian- Turkey	4/128	6/88	5/138	0/0	2/34	0/0	
Bovine	270/1405	414/1824	383/1792	383/2386	297/1315	198/1294	
Canine	183/243	182/196	162/185	174/184	130/131	73/73	
Caprine	15/49	11/55	24/329	18/103	2/7	7/33	
Equine	125/234	126/218	115/214	93/166	53/172	26/35	
Feline	9/9	7/6	2/2	4/4	10/12	6/7	
Miscellaneous Mammal	5/9	6/35	12/23	11/230	6/9	11/360	
Ovine	10/167	13/142	7/207	7/60	6/34	3/6	
Porcine	1032/15543	1017/15701	708/12462	649/9196	621/9502	727/12561	
TOTAL	1659/17804	1789/18297	1420/15358	1340/12333	1128/11217	1053/14371	

Species	January	February	March	April	May	June	Total
Avian- Chicken	1/5	1/20	4/1283	0/0	4/11	0/0	17/1359
Avian- Miscellaneous	0/0	0/0	0/0	0/0	1/1	1/1	14/24
Avian- Turkey	0/0	1/10	3/67	0/0	2/30	2/32	25/527
Bovine	331/2101	346/2438	374/2317	274/1915	258/2085	252/1370	3780/22242
Canine	100/113	73/86	71/72	130/139	147/151	129/133	1554/1706
Caprine	2/4	9/36	11/66	6/36	17/214	16/107	138/1039
Equine	40/73	70/248	120/448	134/265	143/286	100/159	1145/2518
Feline	1/1	8/9	4/3	8/10	8/9	4/4	71/76
Miscellaneous Mammal	7/32	4/4	13/49	10/54	6/99	0/0	91/904
Ovine	5/538	8/83	6/219	5/89	2/57	5/129	77/1731
Porcine	1015/17061	1077/17814	1333/22209	1671/27144	1571/25020	1888/30997	13309/215210
TOTAL	1502/19928	1597/20748	1939/26733	2238/29652	2159/27963	2397/32932	20221/247336

Foreign Export Testing

Procedure	Accessions	Samples
Anaplasma (CF)	57	217
Bluetongue (AGID)	78	545
<i>Brucella abortus</i> (CF)	8	118
<i>Mycobacterium paratuberculosis</i> (CF)	27	126
Bovine Leukosis (AGID)	37	263

Leptospirosis Serology - Summary

Species	Herds				Animals			
	Number Tested	Number Negative	Number Positive	Percent Positive	Number Tested	Number Negative	Number Positive	Percent Positive
Bovine	1,318	707	611	46.3	3,024	1,610	1,414	46.8
Canine	11	6	5	45.5	25	16	9	36.0
Caprine	8	4	4	50.0	23	13	10	43.5
Equine	67	16	51	76.1	227	87	140	61.7
Ovine	21	20	1	4.8	24	23	1	4.1
Porcine	1,107	384	723	65.3	6,735	2,343	4,392	65.2
Misc. Species	18	12	6	33.3	44	31	13	29.5
TOTAL	2,550	1,149	1,401	55.0	10,102	4,123	5,979	59.2

Leptospirosis Serology - Positive Results by Microscopic Agglutination Test

Species	Bratislava	Canicola	Grippityphosa	Hardjo	Icterohemorrhagica	Pomona
Bovine	253	582	343	716	404	502
Canine	-	9	-	-	6	-
Caprine	7	3	-	-	-	1
Equine	99	54	25	39	43	17
Ovine	1	1	2	1	-	1
Porcine	3,323	983	726	1,183	1,542	388
Misc. Species	7	3	3	2	2	2
TOTAL	3,690	1,635	1,099	1,941	1,997	911

Lyme Disease (*Borrelia burgdorferi*) Serology (Indirect Fluorescent Antibody)

Species	Samples	Titers		
		<80	80-160	320-≥1280
Bovine	69	10	40	19
Canine	1,499	458	452	589
Equine	157	11	84	62
TOTAL	1,725	479	576	670

Toxoplasmosis Serology (Indirect Hemagglutination)

Species	Accessions	Samples	Titers							
			< 64	64	128	256	512	1024	2048	4096
Bovine	3	11	11	0	0	0	0	0	0	0
Canine	7	7	6	0	0	1	0	0	0	0
Caprine	1	2	1	0	1	0	0	0	0	0
Feline	34	45	33	1	1	3	1	3	1	2
Ovine	34	51	48	0	1	1	1	0	0	0
Porcine	6	75	74	0	0	0	1	0	0	0
Llama	2	2	2	0	0	0	0	0	0	0
TOTAL	87	193	175	1	3	5	3	3	1	2

Virus Serology

Bovine Infectious Bovine Rhinotracheitis (Serum Neutralization)

Accessions	Samples	Negative	≤ 1:4	1:8-1:32	≥ 1:64	Toxic
1505	3490	1044	673	1072	488	213

Bovine Parainfluenza-3 (Hemagglutination Inhibition)

Accessions	Samples	Negative	1:10-20	1:40-80	≥ 1:160	Toxic
597	1419	172	538	598	111	N/A

Bovine Parvovirus (Hemagglutination Inhibition)

Accessions	Samples			Negative		1:8-64		1:128-512		1:1024-2048		≥ 1:4096		NT
	Sera	FF*	Total	Sera	FF	Sera	FF	Sera	FF	Sera	FF	Sera	FF	
32	85	1	86	4	1	64	0	8	0	0	0	0	0	9

Bovine Respiratory Syncytial Virus (Serum Neutralization)

Accessions	Samples	Negative	≤ 1:4	1:8-64	≥ 1:128	Toxic
319	952	42	186	601	111	12

Bovine Viral Diarrhea (Serum Neutralization)

Accessions	Samples	Negative	≤ 1:4	1:8-128	≥ 1:256	Toxic
1517	3615	1035	245	1226	909	200

Canine Parvovirus (Hemagglutination Inhibition)

Accessions	Samples			Negative		1:8-64		1:128-512		1:1024-2048		≥ 1:4096		NT
	Sera	FF*	Total	Sera	FF	Sera	FF	Sera	FF	Sera	FF	Sera	FF	
33	119	-	119	11	-	24	-	58	-	21	-	2	-	3

Equine Rhinopneumonitis Virus (Serum Neutralization)

Accessions	Samples	Negative	≤ 1:4	1:8-64	≥ 1:128	Toxic
38	67	27	6	13	10	11

Virus Serology (continued)

Porcine Encephalomyocarditis Virus (Hemagglutination Inhibition)

Accessions	Samples			Negative		1:8-64		1:128-512		1:1024-2048		≥ 1:4096		NT
	Sera	FF*	Total	Sera	FF	Sera	FF	Sera	FF	Sera	FF	Sera	FF	
1	18	-	18	4	-	5	-	7	-	1	-	1	-	-

Porcine Encephalomyocarditis Virus (Serum Neutralization)

Accessions	Samples			Negative		≤ 1:16		> 1:16		Toxic	
	Sera	FF*	Total	Sera	FF	Sera	FF	Sera	FF	Sera	FF
643	5537	664	6201	2997	660	2276	2	229	2	35	0

Porcine Hemagglutinating Encephalomyelitis Virus (HAI)

Accessions	Samples	Negative	1:10-1:20	1:40	≥ 1:80	Toxic
2	27	0	5	13	9	0

Porcine Parvovirus (Hemagglutination Inhibition)

Accessions	Samples			Negative		1:8-64		1:128-512		1:1024-2048		≥ 1:4096		NT
	Sera	FF*	Total	Sera	FF	Sera	FF	Sera	FF	Sera	FF	Sera	FF	
732	2527	619	3146	232	564	299	49	495	4	1049	0	425	2	27

Porcine Swine Influenza Virus (Hemagglutination Inhibition)

Accessions	Samples	Negative	1:10-20	1:40	≥ 1:80	Toxic
134	1219	536	327	149	207	N/A

Porcine Transmissible Gastroenteritis (Serum Neutralization)

Accessions	Samples	Negative	1:4	1:8-128	≥ 1:256	Toxic
124	1228	823	57	144	200	4

*Fetal Fluid

Virus Serology - Porcine Pseudorabies

Month	ELISA Screening				ELISA - GPX			
	Accessions	Samples	Negative	Positive	Accessions	Samples	Negative	Positive
July	837	11,992	11,490	502	64	727	558	169
August	883	12,211	11,911	300	85	1,908	1,704	204
September	550	17,512	17,033	479	72	1,842	1,664	178
October	519	13,393	13,154	239	68	1,259	1,101	158
November	462	6,952	6,547	405	51	1,013	888	125
December	522	8,536	7,828	708	99	2,150	2,002	148
January	793	12,232	10,927	1,305	135	2,726	2,425	301
February	823	13,024	11,854	1,170	138	2,393	2,057	336
March	972	15,752	15,251	501	143	2,469	2,086	383
April	1,343	19,800	18,941	859	176	3,725	3,070	655
May	1,276	18,920	18,256	664	196	4,087	3,317	770
June	1,230	19,624	18,708	916	145	2,524	2,243	281
TOTAL	10,210	169,948	161,900	8,048	1,372	26,823	23,115	3,708

Month	ELISA - GPI				Latex Agglutination			
	Accessions	Samples	Negative	Positive	Accessions	Samples	Negative	Positive
July	57	1,497	1,443	54	6	6	5	1
August	71	1,710	1,497	213	39	64	51	13
September	51	1,441	1,308	133	9	32	32	0
October	34	545	467	78	4	76	8	68
November	32	765	691	74	5	8	7	1
December	90	1,861	1,700	161	6	13	9	4
January	101	1,838	1,513	325	5	20	16	4
February	105	1,856	1,586	270	2	3	2	1
March	134	2,404	2,214	190	-	-	-	-
April	196	3,381	2,944	437	1	3	3	0
May	187	3,662	3,047	615	6	15	15	0
June	130	2,757	2,532	225	3	9	8	1
TOTAL	1,188	23,717	20,942	2,775	86	249	156	93

Month	Serum Neutralization						
	Accessions	Samples	Negative	1:2	≥ 1:4	≥ 1:32	Toxic
July	255	1,073	695	81	195	100	2
August	140	685	315	122	200	48	0
September	192	591	428	27	87	47	2
October	86	436	290	22	103	20	1
November	118	412	165	45	160	40	2
December	171	571	300	38	183	49	1
January	319	1,026	610	84	231	99	2
February	308	1,064	760	48	171	83	2
March	203	713	417	51	117	127	1
April	237	924	319	106	253	242	4
May	197	640	298	67	173	102	0
June	290	840	493	58	168	119	2
TOTAL	2,516	8,975	5,090	749	2,041	1,076	19

Analytical Toxicology (Accessions-Samples-Positive)

Analyses	Avian	Bovine	Canine	Caprine	Equine
Alkaloids	3-3-0	1-1-0	75-76-9	-	-
Ammonia	-	3-4-1	-	-	-
Anticoagulants	2-2-0	7-7-0	50-51-18	-	1-1-0
Arsenic	1-1-0	1-2-1	4-7-3	-	-
Carbon Monoxide	-	-	2-2-1	-	-
Cholinesterase	5-14-1	26-35-3	40-41-2	-	7-8-1
Copper	6-6-0	60-87-4	10-10-2	5-31-1	5-7-0
Cyanide	-	1-1-0	-	-	-
Drosophila	-	3-3-0	-	-	-
Ethylene Glycol	-	-	3-4-1	-	-
Iron	6-6-0	2-2-0	-	1-26-0	-
Lead	186-220-62	224-250-20	169-171-11	6-16-1	8-8-0
Metaldehyde	-	-	4-4-0	-	-
Monensin	-	-	-	-	1-1-0
Nitrates	-	39-50-1	-	-	1-1-0
pH	-	36-39-5	1-1-0	-	-
Reinsch	4-4-0	161-171-1	91-92-4	4-4-0	5-5-0
Selenium	6-10-0	63-93-0	-	2-2-0	3-3-0
Sodium	-	1-2-0	-	-	-
Thallium	-	4-4-0	-	-	-
Vitamin E	7-11-0	19-22-0	1-1-0	1-1-0	2-2-0
Zinc	3-3-0	7-12-0	7-7-0	1-26-0	3-4-0
TOTAL	229-280-63	658-785-36	457-467-51	20-106-2	36-40-1

Analyses	Feline	Miscellaneous	Ovine	Porcine	Total
Alkaloids	9-9-0	16-18-1	-	2-2-0	106-109-10
Ammonia	-	2-3-0	-	-	5-7-1
Anticoagulants	9-10-2	7-7-2	-	4-4-1	80-82-23
Arsenic	-	2-2-0	-	1-1-0	9-13-4
Carbon Monoxide	2-2-1	1-1-0	1-1-0	-	6-6-2
Cholinesterase	16-18-2	5-6-1	-	3-5-0	102-127-10
Copper	3-3-0	12-15-0	21-29-9	5-14-0	127-202-16
Cyanide	2-2-0	5-7-0	-	-	8-10-0
Drosophila	-	1-1-0	-	-	4-4-0
Ergotamine	-	2-2-0	-	-	2-2-0
Ethylene Glycol	-	1-1-1	-	-	4-5-2
Iron	1-1-0	5-6-1	-	3-11-0	18-52-1
Lead	42-44-1	46-62-6	12-13-0	14-17-0	707-801-101
Metaldehyde	1-1-0	1-1-0	-	-	6-6-0
Monensin	-	7-7-0	-	-	8-8-0
Mycotoxins	-	106-139-12	-	-	106-139-12
Nitrates	-	46-71-4	1-1-0	-	87-123-5
pH	-	6-10-0	2-3-0	-	45-53-5
Poison Plants	-	5-5-0	-	-	5-5-0
Reinsch	35-36-2	35-39-0	4-4-0	11-12-0	350-367-7
Selenium	-	2-2-0	11-13-0	53-66-0	140-189-0
Sodium	-	15-27-0	-	12-15-0	28-44-0
Sulfates	-	17-16-2	-	-	17-16-2
Thallium	1-1-0	1-1-0	-	-	6-6-0
Total Dissolved Solids	-	7-8-0	-	-	7-8-0
Vitamin E	-	-	5-7-0	35-40-0	70-84-0
Zinc	1-1-0	8-9-0	-	4-13-0	34-75-0
TOTAL	122-128-8	361-466-30	57-71-9	147-200-1	2087-2543-201

Clinical Chemistry* (Number of Tests)						
Species	Alanine Aminotransferase	Albumin	Alkaline Phosphatase	Amylase	Aspartine Aminotransferase	Bile Acids
Avian	-	-	-	-	2	-
Bovine	-	-	-	-	-	-
Canine	1	2	3	5	-	166
Equine	-	-	-	1	-	-
Feline	-	-	-	2	-	29
Fish-Amphibian-Reptile	-	-	-	-	-	-
Miscellaneous Mammal	-	-	-	-	-	-
Ovine	-	-	-	-	-	-
Porcine	-	-	-	-	-	-
TOTAL	1	2	3	8	2	195
Species	Blood Gas	BUN	Calcium	Cholesterol	Creatine Kinase	Fecal Fat
Avian	-	-	1	-	80	-
Bovine	-	-	-	-	-	-
Canine	15	-	1	5	1	2
Equine	-	-	-	-	2	-
Feline	-	1	2	1	-	-
Fish-Amphibian-Reptile	-	-	-	-	-	-
Miscellaneous Mammal	-	-	-	-	-	-
Ovine	-	-	-	-	-	-
Porcine	-	-	-	-	-	-
TOTAL	15	1	4	6	83	2
Species	Fecal Occult Blood	Glucose	Lactic Dehydrogenase	Lipase	Magnesium	Osmolality
Avian	-	1	-	-	-	-
Bovine	-	1	-	-	1	-
Canine	-	-	1	22	-	10
Equine	6	-	-	1	-	-
Feline	-	-	-	1	-	-
Fish-Amphibian-Reptile	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-
Ovine	-	-	-	-	-	-
Porcine	-	-	-	-	4	-
TOTAL	6	2	1	24	5	10

Clinical Chemistry (continued)						
Species	Phenobarbitol	Phosphorus	Protein Electrophoresis	Serum Profile	Serum Triglycerides	Total Bilirubin
Avian	-	-	-	41	-	-
Bovine	-	-	-	67	-	-
Canine	146	-	2	308	8	-
Equine	-	-	-	70	-	-
Feline	-	-	1	105	1	1
Fish-Amphibian-Reptile	-	-	-	50	-	-
Miscellaneous Mammal	-	-	-	51	-	-
Ovine	-	-	-	8	-	-
Porcine	-	9	-	12	-	-
TOTAL	146	9	3	712	9	1
Species	Total Protein	Uric Acid	Urinalysis	Urine Chemistries	Urine Creatinine	Urine Myoglobin
Avian	-	-	-	-	-	-
Bovine	-	-	1	-	-	-
Canine	4	6	101	-	1	-
Equine	-	-	1	5	-	-
Feline	1	-	24	-	-	-
Fish-Amphibian-Reptile	-	-	1	-	-	-
Miscellaneous Mammal	-	-	2	-	-	1
Ovine	-	-	-	-	-	-
Porcine	-	-	-	-	-	-
TOTAL	5	6	130	5	1	1
Species	Urine Osmolality	Urine Phosphorus	Urine Potassium	Urine Protein/Creatinine Ratio	Urine Protein	Urine Sediment
Avian	-	-	-	-	-	-
Bovine	-	-	-	-	-	-
Canine	5	1	-	41	2	4
Equine	-	-	-	-	-	1
Feline	-	-	1	2	-	1
Fish-Amphibian-Reptile	-	-	-	-	-	-
Miscellaneous Mammal	-	-	-	-	-	-
Ovine	-	-	-	-	-	-
Porcine	-	-	-	-	-	-
TOTAL	5	1	1	43	2	6

*Dr. Doug Weiss, Laboratory Supervisor

Endocrinology*						
Species	Adrenocorticotrophic Hormone	Cortisol	Digoxin	Estradiol	Estrone Sulfate	Insulin
Avian	-	-	-	1	-	-
Bovine	-	-	-	-	-	-
Canine	70	668	3	45	-	13
Equine	-	1	-	6	7	1
Feline	-	3	-	18	-	-
Fish-Amphibian-Reptile	-	1	-	-	-	-
Miscellaneous Mammal	-	1	-	-	-	-
Ovine	-	-	-	-	-	-
Porcine	-	-	-	-	-	-
TOTAL	70	674	3	70	7	14

Species	Luteinizing Hormone	Parathyroid Hormone	Progesterone	Triiodothyronine (T-3)	Thyroxine (T-4)	Testosterone
Avian	-	-	-	-	1	-
Bovine	-	-	5	1	1	-
Canine	1	8	26	67	1,162	6
Equine	-	-	16	9	48	15
Feline	-	2	35	8	148	5
Fish-Amphibian-Reptile	-	-	2	-	-	-
Miscellaneous Mammal	-	-	28	10	11	-
Ovine	-	-	-	-	-	-
Porcine	-	-	34	-	-	1
TOTAL	1	10	146	95	1,371	27

*Dr. Shirley Johnston, Laboratory Supervisor

Viral Immunofluorescence in Tissues (Frozen Sections or Tissue Imprints)

Species	Accessions	Samples	Bovine Coronavirus		Bovine Herpesvirus DN599		Bovine Parainfluenza-3		Bovine Parvovirus	
			Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
Alpaca	1	2	0	2	-	-	-	-	-	-
Avian-Chicken	12	38	-	-	-	-	-	-	-	-
Bison	2	2	0	1	-	-	-	-	-	-
Bovine	1,619	3,117	119	1,124	0	4	2	1,719	0	1
Buffalo	1	3	-	-	-	-	0	3	-	-
Canine	70	107	-	-	-	-	-	-	-	-
Caprine	4	6	0	3	0	1	0	1	-	-
Deer	1	2	-	-	-	-	-	-	-	-
Elk	1	1	-	-	-	-	0	1	-	-
Ermine	1	2	-	-	-	-	-	-	-	-
Equine	47	94	-	-	-	-	-	-	-	-
Feline	52	96	-	-	-	-	-	-	-	-
Fox	2	2	-	-	-	-	-	-	-	-
Llama	5	14	-	-	0	9	0	8	-	-
Mink	3	7	-	-	-	-	-	-	-	-
Musk Ox	2	3	-	-	-	-	0	3	-	-
Ovine	27	88	0	1	0	3	0	84	-	-
Porcine	2,451	5,118	-	-	-	-	-	-	-	-
Raccoon	4	5	-	-	-	-	-	-	-	-
Zebra	1	1	-	-	-	-	-	-	-	-
TOTAL	4,306	8,708	119	1,131	0	17	2	1,819	0	1

Species	Bovine Respiratory Syncytial Virus		Bovine Rotavirus		Bovine Viral Diarrhea		Canine Distemper		Equine Adenovirus		Equine Viral Rhinopneumonitis	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
Alpaca	-	-	0	2	0	2	-	-	-	-	-	-
Avian-Chicken	-	-	-	-	-	-	-	-	-	-	-	-
Bison	-	-	0	1	0	2	-	-	-	-	-	-
Bovine	26	613	73	1,188	60	2,986	-	-	-	-	-	-
Buffalo	0	1	-	-	0	3	-	-	-	-	-	-
Canine	-	-	-	-	-	-	7	83	-	-	-	-
Caprine	-	-	0	3	0	6	-	-	-	-	-	-
Deer	-	-	-	-	0	2	-	-	-	-	-	-
Elk	0	1	-	-	0	1	-	-	-	-	-	-
Ermine	-	-	-	-	-	-	0	2	-	-	-	-
Equine	-	-	-	-	-	-	-	-	0	5	0	94
Feline	-	-	-	-	-	-	-	-	-	-	-	-
Fox	-	-	-	-	-	-	0	2	-	-	-	-
Llama	0	1	-	-	0	9	-	-	-	-	0	9
Mink	-	-	-	-	-	-	0	7	-	-	-	-
Musk Ox	0	2	-	-	0	3	-	-	-	-	-	-
Ovine	0	78	0	1	0	77	-	-	-	-	-	-
Porcine	-	-	-	-	-	-	-	-	-	-	-	-
Raccoon	-	-	-	-	-	-	2	3	-	-	-	-
Zebra	-	-	-	-	-	-	-	-	-	-	0	1
TOTAL	26	696	73	1,195	60	3,091	9	97	0	5	0	104

Viral Immunofluorescence in Tissues (Frozen Sections or Tissue Imprints) (continued)

Species	Feline Herpesvirus		Feline Infectious Peritonitis		Feline Parvovirus		Infectious Bovine Rhinotracheitis		Infectious Laryngo-tracheitis		Porcine Encephalo-myocarditis	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
Alpaca	-	-	-	-	-	-	-	-	-	-	-	-
Avian-Chicken	-	-	-	-	-	-	-	-	3	35	-	-
Bison	-	-	-	-	-	-	-	-	-	-	-	-
Bovine	-	-	-	-	-	-	16	1,762	-	-	-	-
Buffalo	-	-	-	-	-	-	0	3	-	-	-	-
Canine	-	-	-	-	-	-	-	-	-	-	-	-
Caprine	-	-	-	-	-	-	0	1	-	-	-	-
Deer	-	-	-	-	-	-	0	2	-	-	-	-
Elk	-	-	-	-	-	-	0	1	-	-	-	-
Ermine	-	-	-	-	-	-	-	-	-	-	-	-
Equine	-	-	-	-	-	-	-	-	-	-	-	-
Feline	6	64	1	6	0	11	-	-	-	-	-	-
Fox	-	-	-	-	-	-	-	-	-	-	-	-
Llama	-	-	-	-	-	-	0	13	-	-	-	-
Mink	-	-	-	-	-	-	-	-	-	-	-	-
Musk Ox	-	-	-	-	-	-	0	3	-	-	-	-
Ovine	-	-	-	-	-	-	0	78	-	-	-	-
Porcine	-	-	-	-	-	-	-	-	-	-	0	12
Raccoon	-	-	-	-	-	-	-	-	-	-	-	-
Zebra	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	6	64	1	6	0	11	16	1,863	3	35	0	12

Species	Porcine Parvovirus		Porcine Reovirus		Porcine Rotavirus		Pseudorabies		Swine Influenza Virus		Transmissible Gastroenteritis	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
Alpaca	-	-	-	-	-	-	-	-	-	-	-	-
Avian-Chicken	-	-	-	-	-	-	-	-	-	-	-	-
Bison	-	-	-	-	-	-	-	-	-	-	-	-
Bovine	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo	-	-	-	-	-	-	-	-	-	-	-	-
Canine	-	-	-	-	-	-	-	-	-	-	-	-
Caprine	-	-	-	-	-	-	-	-	-	-	-	-
Deer	-	-	-	-	-	-	-	-	-	-	-	-
Elk	-	-	-	-	-	-	-	-	-	-	-	-
Ermine	-	-	-	-	-	-	-	-	-	-	-	-
Equine	-	-	-	-	-	-	-	-	-	-	-	-
Feline	-	-	-	-	-	-	-	-	-	-	-	-
Fox	-	-	-	-	-	-	-	-	-	-	-	-
Llama	-	-	-	-	-	-	-	-	-	-	-	-
Mink	-	-	-	-	-	-	-	-	-	-	-	-
Musk Ox	-	-	-	-	-	-	-	-	-	-	-	-
Ovine	-	-	-	-	-	-	-	-	-	-	-	-
Porcine	19	1,175	0	1,724	81	1,652	31	755	72	1,119	140	1,596
Raccoon	-	-	-	-	-	-	-	-	-	-	-	-
Zebra	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	19	1,175	0	1,724	81	1,652	31	755	72	1,119	140	1,596

Electron Microscopy (Fecal or Tissue Specimens)

Species	Accessions	Specimens	Negative	Positive	Adenovirus	Calicivirus	Coronavirus
Avian	139	174	93	81	8	-	-
Bovine	1,062	1,072	744	328	2	-	96
Canine	468	478	280	198	2	-	9
Caprine	7	7	6	1	-	-	-
Equine	14	14	13	1	-	-	-
Feline	93	95	64	31	-	3	4
Llama	7	7	7	0	-	-	-
Mink	12	12	10	2	-	-	1
Miscellaneous	44	46	43	3	-	-	-
Ovine	7	7	6	1	-	-	-
Porcine	1,016	1,036	801	235	10	-	27
TOTAL	2,869	2,948	2,067	881	22	3	137

Species	Enterovirus	Herpesvirus	Parainfluenza			Reovirus	Rotavirus
			Virus	Parvovirus	Pox Virus		
Avian	5	2	-	-	9	5	57
Bovine	1	2	-	-	15	-	276
Canine	-	-	1	185	-	-	3
Caprine	-	-	-	-	-	-	1
Equine	-	-	-	-	-	-	1
Feline	1	2	-	19	-	-	3
Llama	-	-	-	-	-	-	-
Mink	-	-	-	1	-	-	-
Miscellaneous	-	1	-	1	-	1	1
Ovine	-	-	-	-	1	-	-
Porcine	1	1	-	-	-	1	199
TOTAL	8	8	1	206	10	7	541

Virus Isolation (Cell Culture)

Virus	Accessions	Positive
Blue Tongue Virus	130	0
Bovine Herpesvirus DN599	7	0
Bovine Parainfluenza-3 Virus	2,367	0
Bovine Respiratory Syncytial Virus	3	0
Bovine Viral Diarrhea Virus	2,367	60*
Canine Distemper Virus	3	0
Canine Herpesvirus	28	0
Equine Adenovirus	6	0
Equine Rhinotracheitis Virus	37	0
Feline Calicivirus	23	3
Feline Rhinopneumonitis Virus	41	2
Infectious Bovine Rhinotracheitis Virus	2,367	8
Infectious Laryngotracheitis Virus	2	0
Miscellaneous Viruses	83	0
Pseudorabies	2,071	50

*8 cytopathic and 52 non-cytopathic viruses

APPENDIX

Minnesota Racing Analytical Laboratory - Personnel

Martin E. Bergeland, DVM, PhD	Director
Ashok K. Singh, PhD	Supervisor - Racing Laboratory
Michael J. Murphy, DVM, PhD	Veterinary Toxicologist
Lawrence J. Felice, PhD	Analytical Toxicologist (Collaborator)
Tom Arendt, BS	Junior Scientist (Collaborator)
Usha Mishra, MS	Junior Scientist
Kae Granley	Laboratory Technician
Yin Jiang, MS	Junior Laboratory Technician
Constance Strand, MA	Accounts Supervisor
Mary Thurn	Executive Secretary
Muhammed Ashraf, DVM, MS	Student Laboratory Technician
Kae Granley	Laboratory Technician
Yin Jiang	Junior Laboratory Technician
Shawn Eliason	Student Laboratory Technician
Thomas White	Student Laboratory Technician
Vipin Goyal	Student Laboratory Technician
Khalid Naeem	Student Laboratory Technician
Scott Likely	Student Laboratory Attendant

Minnesota Racing Analytical Laboratory - Laboratory Procedures Summary

Month	Number of Samples		Number of Analyses			Suspects Processed		Lasix Positive
	Urine	Blood	TLC	HPLC	ELISA	Hordenine	GC/MS	
July	655	602	8515	602	1310	-	106	253
August	696	705	9048	705	1392	-	82	203
September	633	646	8229	646	1266	-	98	268
October	168	169	2184	169	336	-	13	66
April	101	104	1414	104	808	5	12	72
May	550	560	7700	560	4400	170	158	346
June	622	641	8708	641	5128	120	134	411
TOTAL	3425	3427	45798	3427	14640	295	603	1619

Minnesota Brucella Testing Laboratory - Personnel

William Hartmann, DVM, MS	Supervisor
Robert Tiller	Laboratory Supervisor
Betty Frank	Agricultural Laboratory Technician
Paula Mendenhall	Agricultural Laboratory Technician
Myron Parsons	Agricultural Laboratory Technician
David Wickland	Agricultural Laboratory Technician

Minnesota Brucella Testing Laboratory - Laboratory Tests

I. Cattle		
A. Serum		
1) On Farm		21,056
2) Market		59,963
3) Slaughter Surveillance		<u>267,010</u>
	Sub-Total	348,029
B. Milk Ring Tests		59,926
II. Swine		99,306
III. Other Species		
A. Canine		26
B. Sheep		370
C. Horses		212
D. Elk		202
E. Deer		23
F. Goats		1,365
G. Miscellaneous		<u>156</u>
	Sub-Total	2,354
TOTAL		509,615

Minnesota Poultry Testing Laboratory - Personnel
Willmar, Minnesota

Dr. Dale C. Lauer	Supervisor
Lorraine E. Olson	Senior Laboratory Technician
Joanne B. Slagter	Senior Laboratory Technician
Vonna D. Laugen	Laboratory Technician

Minnesota Poultry Testing Laboratory - Laboratory Procedures

	<u>Serology</u>	<u>Cultures</u>
I. Pullorum - Typhoid		
A. Chickens - Commercial	3,600	
B. Turkeys	52,075	
C. Waterfowl and Game Birds	7,447	55
D. Exhibition Testing	<u>7,521</u>	
Sub-Total	70,643	
II. <i>Salmonella enteritidis</i> - Sanitation Monitored Program		
A. Chicken Breeding Flocks/Hatcheries	3,600	2,415
III. Minnesota/California Agreement and U.S. Sanitation Monitored Program (includes <i>Salmonella typhimurium</i>)		
A. Turkey Breeders		
1) Blood Samples	52,075	
2) Rectal Swabs		53,875
3) Environmental/Hatchery Samples		<u>3,811</u>
Sub-Total		57,686
IV. Mycoplasma		
A. <i>Mycoplasma gallisepticum</i> - Turkey	22,090	
B. <i>Mycoplasma megeagridis</i> - Turkey	62,153	
C. <i>Mycoplasma synoviae</i> - Turkey	61,015	
D. <i>Mycoplasma gallisepticum</i> - Chicken	15,230	
E. <i>Mycoplasma synoviae</i> - Chicken	<u>15,230</u>	
Sub-Total	175,718	
V. Avian Influenza - Turkey	23,115	
 TOTAL	 325,151	 60,156

Departmental Courses						
Course	Title	Lect/Lab Hours	Quarter	Credits	No. of Students	Instructor
VDI 8888	Doctoral Thesis		SS90		6	Felice Goyal Ruth
VDI 5000	Diagnostic Medicine	0/150	SS90	2.0	22	Shaw* VDM Faculty
VDI 5521	Surgical Pathology	0/52	SS90	3.0	2	Barnes
VDI 5522	Diagnostic Pathology	0/110	SS90	5.0	1	Barnes
VDI 8888	Doctoral Thesis		F90		5	Felice Goyal Ruth
VDI 5000	Diagnostic Medicine	0/150	F90	2.0	21	Shaw* VDM Faculty
VDI 5164	Tox. Poisonous Plants	10/5	F90	1.0	56	Murphy
VDI 5521	Surgical Pathology	0/180	F90	3.0	4	Barnes
VDI 5522	Diagnostic Pathology	0/110	F90	5.0	1	Barnes
VDI 5524	Problems in Diag. Pathology	0/80	F90	4.0	1	Collins
VDI 5622	Problems in Diag. Virology	0/40	F90	4.0	1	Goyal
VDI 8888	Doctoral Thesis		W91		3	Felice Goyal Ruth
VDI 5000	Diagnostic Medicine	0/150	W91	2.0	19	Shaw* VDM Faculty
VDI 5522	Diagnostic Pathology	0/250	W91	5.0	3	Barnes
VDI 8888	Doctoral Thesis		S91		3	Felice Goyal Ruth
VDI 5165	Veterinary Toxicology	20/0	S91	2.0	62	Murphy Felice
VDI 5503	Diagnostic Pathology	32/0	S91	3.0	62	Werdin* Collins O'Brien O'Leary Ruth Shaw
VDI 5521	Surgical Pathology	0/70	S91	3.0	2	Barnes
VDI 5522	Diagnostic Pathology	0/140	S91	5.0	1	Barnes

*Course Coordinator

VDI Faculty Participation in Other Courses

Course	Title	Lect/Lab Hours	Quarter	Credits	No. of Students	Instructor
VPB 5000	Vet. Hosp. Necropsy	0/11	SS90	2.0	12	Shaw
CVM 5100	Intro. to Vet. Medicine	1/0	F90	2.0	64	Goyal
CVM 5100	Intro. to Vet. Medicine	1/0	F90	2.0	64	Nelson
CVM 5100	Intro. to Vet. Medicine	1/0	F90	2.0	64	Ruth
VPB 5000	Vet. Hosp. Necropsy	0/11	F90	2.0	12	Shaw
VPB 5502	Systemic Pathology	6/7	F90	6.0	63	Ruth
VPB 5502	Systemic Pathology	9/16	F90	6.0	63	Werdin
VPB 8700	Seminars in Vet. Microbiology	1/0	F90	1.0	20	Goyal
CAPS 5570	Repro. Dis. Domes. An.	2/0	W91	5.0	67	Werdin
CAPS 5665	Monitoring & Surveillance of Disease	1/0	W91	2.0	8	Collins
VPB 5000	Vet. Hosp. Necropsy	0/11	W91	2.0	12	Shaw
VPB 8700	Seminars in Vet. Microbiology	1/0	W91	1.0	20	Goyal
AnSci 3476	Animal Health	2/0	S91	3.0	20	Murphy
VPB 5501	Basic Veterinary Pathology	0/2	S91	5.0	63	Shaw
CVM 5200	Clin. Viro., Immuno., Parasit., & Tox.	2/0	S91	1.0	62	Felice
CVM 5200	Clin. Viro., Immuno., Parasit., & Tox.	10/0	S91	1.0	62	Murphy
CAPS 5160	Large Animal Medicine	2/0	S91	6.0	63	Bergeland
CAPS 5160	Large Animal Medicine	1/0	S91	6.0	63	Murphy
CAPS 5160	Large Animal Medicine	1/0	S91	6.0	63	Werdin
CAPS 5271	Law, Econ. & Ethics	2/0	S91	2.0	62	Nelson
CAPS 5271	Law, Econ. & Ethics	1/0	S91	2.0	62	Ruth
Soils 3118	Public Policy	1/0	S91	1.0	30	Murphy
VPB 8700	Seminars in Vet. Microbiology	1/0	S92	1.0	20	Goyal

Residents/Graduate Students

Name	Program	Degree Sought	Degree Granted	Advisor
Sanjay Kapil	Microbiology	Ph.D.	1/91	Goyal
S. Maheshkumar	Microbiology	Ph.D.	9/90	Goyal
K. Naeem	Microbiology	Ph.D.	11/90	Goyal
Nour-Said Tligui*	Pathology	Ph.D.		Ruth
Nourdine Bouchriti**	Microbiology	Ph.D.		Goyal
T. Chalermchaikit	Veterinary Medicine	Ph.D.		Felice

*Department of Pathobiology

**Department of HIDA OA, Institute Agronomique et Veterinaire Morocco

Research Projects (Principal or Co-Investigator)

- Ames, T.R., Sivula, N.J., Marsh, W.E., Werdin, R.E., Jacobson, L.E. Maheswaran, S.K. 1990. Bovine respiratory disease project. MN Ag. Exp. Station, \$50,000.
- Benfield, D.A., McCullough, S., Goyal, S.M., Morrison, R.B., and Collins, J.E. 1990. Epidemiology, diagnosis and experimental transmission of Mystery Swine Disease. National Pork Producers Council, \$14,800.
- Collins, J.E. 1990. Experimental transmission of "Mystery Swine Disease" (swine reproductive failure and infertility syndrome). Boehringer Ingelheim Animal Health, \$5,000.
- Collins, J.E. 1990. Enhanced sensitivity and specificity of Lyme disease serologic tests. 3M Company, \$2,500.
- Goyal, S.M. 1990. Comparison of two ELISA tests for pseudorabies antibodies. Fermenta Animal Health Co., Kansas City, MO, \$2,000.
- Goyal, S.M. 1990. Implementation of a new pseudorabies test. Norden Laboratories, Lincoln, NE, \$5,000
- Goyal, S.M. 1990. Lyme disease in wolves. U.S. Fish and Wildlife Subcontract, \$7,500.
- Goyal, S.M. 1990. Research training grant for Kamil Mettias. Egyptian Agricultural Research Project, San Diego, CA, \$3,000.
- Kannan, M.S. and Goyal, S.M. 1990. Mechanisms of epithelial damage in viral respiratory disease of cattle. MN Ag. Exp. Station, \$14,980.
- Murphy, M.J. and Felice, L.J. 1990. Vitamin K, epoxide:vitamin K ratio as a predictor for length of therapy in anticoagulant rodenticide intoxicated pets. University of Minnesota College of Veterinary Medicine Companion Animal Grants Program, \$2,500.
- Nagaraja, K.V., Sivanandan, V., Newman, J.A., Shaw, D.P. and Felice, L.J. 1990. Effect of rotavirus on absorption of fat soluble vitamins. MN Turkey Growers Assoc., \$23,000.
- Pijoan, C., Collins, J.E., Murtaugh, M.P., Mogollon, J. and Cleary, P. 1990. M-like protein as a virulence factor in *Streptococcus suis* strains. MN Ag. Exp. Station, \$20,168.
- Raffe, M.R., Hendrix, P.K., Felice, L.J. and Murphy, M.J. 1990. Evaluation of epidural analgesic in the dog. Morris Animal Foundation, \$30,915.
- Robinson, R.A. and Collins, J.E. 1990. Risk factors for preweaning calfhood morbidity in randomly selected (NAHMS) versus veterinary diagnostic laboratory referred herds. USDA-APHIS-NAHMS, \$69,287.
- Barnes, D.M., Bergeland, M.E., Collins, J.E., Felice, L.J., Goyal, S.M., Kurtz, H.J., Murphy, M.J., Nelson, G.H., Ruth, G.R., Shaw, D.S., Singh, A.K. and Werdin, R.E. 1991. Veterinary Diagnostic Investigation. MN Ag. Exp. Station (MN V-65-006).
- Felice, L.J., Polzin, D.J. and Osborne, C.A. 1991. Determination of glomerular filtration rate with non-radioisotopic contrast agents in normal dogs. Ralston Purina Co., \$8,900.
- Goyal, S.M. 1991. Research training grant for Attyat Zayed. Egyptian Agricultural Research Project, San Diego, CA, \$3,000.
- Ruth, G.R., Buoen, L., Weber, A., Murtaugh, M. 1991. Flow cytometric analysis of chromosomal abnormalities in cattle and swine. MN Ag. Exp. Station, \$19,550.
- Singh, A.K. 1991. Metabolism of furosemide in horses. Minnesota Racing Commission, \$40,000.

Service and Research Contracts

- Bergeland, M.E. 1990-91. Minnesota Poultry Testing Laboratory. MN Board of Animal Health, \$95,000
- Bergeland, M.E. 1990-91. Minnesota Racing Analytical Laboratory. MN Racing Commission, \$229,000
- Bergeland, M.E. 1990-91. Pseudorabies Control Program. MN Board of Animal Health \$2.00/sample.
- Bergeland, M.E. 1990-91. Diagnostic Services. Minnesota Zoological Garden, \$6,600

Publications: Refereed Journals

Refereed Journals (July 1, 1990-July 30, 1991)

- Bloomer, J.R., Straka, J.G., Hill, H., Weimer, M.K. and Ruth, G.R. 1990. Comparison of bile porphyrin concentrations in cattle and human beings with protoporphyria. *JAVMA* 51:1144-1146.
- Felice, L.J., Dombrovskis, D., LaFond, E., Bartges, J.W. and Osborne, C.A. 1990. Determination of uric acid in canine serum and urine by high performance liquid chromatography. *Vet. Clin. Path.* 19:86-89.
- Frank, R.K., Newman, J.A., Noll, S.L. and Ruth, G.R. 1990. The incidence of perirenal hemorrhage syndrome in six flocks of market turkey toms. *Avian Dis.* 34:824-832.
- Frank, R.K., Noll, S.L., El Halawani, M., Newman, J.A., Halvorson, D.A. and Ruth, G.R. 1990. Perirenal hemorrhage syndrome in market turkey toms: Effect of management factors. *Avian Dis.* 34:833-842.
- Goyal, S.M. and Laughlin, T.L. 1990. Evaluation of two commercial ELISA test kits for the detection of pseudorabies antibodies in pigs. *J. Vet. Diagn. Invest.* 2:350-352.
- Kapil, S., Trent, A.M. and Goyal, S.M. 1990. Excretion and persistence of bovine coronavirus in neonatal calves. *Arch. Virol.* 115:127-132.
- Kruger, J.M., Osborne, C.A., Goyal, S.M., O'Brien, T.D., Pomeroy, K.A. and Semlak, R.A. 1990. Clinicopathologic analysis of herpesvirus-induced urinary tract infection in specific-pathogen-free cats given methyl prednisone. *Am. J. Vet. Res.* 51:878-885.
- Maheshkumar, S., Goyal, S.M. and Economon, P.P. 1990. Concentration and detection of *Aeromonas salmonicida* from hatchery water. *J. Fish. Dis.* 13:513-518.
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Publications: Books, Book Chapters and Monographs

Kirkbride, C.A., Gates, C.E., Collins, J.E., Bryner, J.H. and Ritchie, A.E. Ovine Abortion Caused by a Nonclassified Flagellated Bacterium (*Flexispira rappini*). In Laboratory Diagnosis of Livestock Abortion. Kirkbride, C.A. (Ed.) 3rd edition, pp 170-174. Iowa State University, Ames, IA.

Publications: Proceedings

Collins, J.E., Chengappa, M.M. and Wetzell, T.L. 1990. Enzootic bacterial conjunctivitis in swine. Proc. Minnesota Swine Conference for Veterinarians, St. Paul, MN pp 419-420.

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Bergeland, M.E. 1991. Swine abortions and stillbirths. Proc. Missouri Vet. Med. Assoc., Osage Beach, MO, pp 1-8.

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Christianson, W.T., Collins, J.E., Benfield, D.A., McCullough, S.J. and Joo, H.S. 1991. Experimental reproduction of swine infertility and respiratory syndrome (SIRS) in gnotobiotic and conventional pigs. North Central Conference of Veterinary Laboratory Diagnosticians, Lincoln, NE, p. 2.

Galina, L., Collins, J. and Pijoan, C. 1991. Analysis of *Streptococcus suis* isolates from the Minnesota Veterinary Diagnostic Laboratory. North Central Conference of Veterinary Laboratory Diagnosticians, Lincoln, NE, p. 14.

Publications: Miscellaneous

Bergeland, M.E., Collins, J.E., Thurn, M.D. and Johnson, D.J. 1990. Animal Health in Minnesota. MN Ag. Exp. Station, Misc. Report 69-1990, pp 1-113.

Hutchison, W.D., Murphy, M.J. and Tufte, G.N. 1990. Blister beetles in alfalfa: Management options to minimize poisoning in horses. MN Extension Service AG-FO-5510-D.

Continuing Education Presentations

Collins, J.E. September 16-18, 1990. Respiratory disease in a swine herd experiencing a reproductive failure syndrome. Swine Health Conference, St. Paul, MN.

Collins, J.E. September 16-18, 1990. Enzootic bacterial conjunctivitis in swine. Swine Health Conference, St. Paul, MN.

Ruth, G.R. November 11, 1990. Chromosomal abnormalities in cattle and pigs, East Central Minnesota Veterinarians, Hinckley, MN.

Bergeland, M.E. February 28, 1991. Pseudorabies Eradication Workshop - Differential Diagnostic Tests. MN Vet. Med. Assoc 94th Ann. Mtg., Bloomington, MN.

Bergeland, M.E. January 25, 1991. Reproductive Diseases of Swine. MO Vet. Med. Assoc. 99th Ann. Mtg., Osage Beach, MO.

Bergeland, M.E. January 25, 1991. Respiratory Diseases of Swine. MO Vet. Med. Assoc. 99th Ann. Mtg., Osage Beach, MO.

Lecture, Seminar and Workshop Presentations

Murphy, M.J. October 19, 1990. Moldy corn - potential livestock problems from fumonisin B₁. University of Minnesota, College of Veterinary Medicine, Dairy Group Seminar, St. Paul, MN.

Murphy, M.J. February 16, 1991. Identification and management of toxic insects in alfalfa. 21st National Alfalfa Symposium, Rochester, MN.

Murphy, M.J., February 16, 1991. Identification and management of toxic weeds in alfalfa. 21st National Alfalfa Symposium, Rochester, MN.

Scientific Meeting Presentations

Collins, J.E. November 5-6, 1990. Experimental transmission of swine reproductive failure syndrome (Mystery Swine Disease) in gnotobiotic piglets. Conf. of Res. Workers in An. Dis., Chicago, IL.

Felice, L.J. June 18-20, 1990. HPLC screen for 4-hydroxy coumarin rodenticides in tissue. Midwest AOAC Meeting, Topeka, KS.

Goyal, S.M. August 26-31, 1990. Phages as indicators of fecal pollution. 8th Int. Cong. Virol., Berlin, Germany.

Murphy, M.J. October 6-9, 1990. Hoary alyssum *Bertera incana*: Toxic to horses? 33rd Ann. Mtg. Am. Assoc. Vet. Lab. Diagn., Denver, CO.

Werdin, R.E. October 7, 1990. *Fascioloides magna* infection in a neonatal calf. 33rd Ann. Mtg. Amer. Assoc. Vet. Lab. Diagn., Denver, CO.

Werdin, R.E. October 10-12, 1990. Pseudorabies in cattle. Western Conference of Veterinary Diagnostic Pathologists, Saskatoon, Saskatchewan.

Werdin, R.E. October 10-12, 1990. Pseudorabies in neonatal pigs. Western Conference of Veterinary Diagnostic Pathologists, Saskatoon, Saskatchewan.

Awards and Citations

Alan Ducommon	Outstanding Civil Service Award - 1991
Elizabeth Ellert	Outstanding Civil Service Award - 1991
Janelle Gerlach	Outstanding Civil Service Award - 1991
Mary Ito	Outstanding Civil Service Award - 1991
Karen Olsen	Outstanding Civil Service Award - 1991
Rebecca White	Outstanding Civil Service Award - 1991

Professional Organizations

Bergeland, Martin E.	American Association of Veterinary Laboratory Diagnosticians Past President - 1990 Awards Committee, Chair - 1990 Long Range Planning Committee, Chair - 1991 Laboratory Directors Committee Nominating Committee, Chair - 1990 Executive Committee Executive Board AAVLD-USDA Emergency Disease Liason Committee
Collins, James E.	American Association of Veterinary Laboratory Diagnosticians Long Range Planning Committee Animal Disease Reporting Committee, Chair North Central Conference of Veterinary Laboratory Diagnosticians Secretary/Treasurer
Felice, Lawrence J.	American Association of Veterinary Laboratory Diagnosticians Mycotoxin Committee Midwest Association of Official Analytical Chemists Executive Board Minnesota Chromatography Forum Education Committee
Murphy, Michael J.	American Board of Veterinary Toxicology Examination Committee

- Nelson, Glen J. American Association of Veterinary Laboratory Diagnosticians
Interpretive Serology Committee
Mycotoxin Committee
- Minnesota Veterinary Medical Council
Executive Secretary
Nominating Committee, Chair
W.T.S. Thorp Lectureship Committee, Chair
Budget Committee
Alumni/College Relations Committee, Co-Chair
Executive Board
- Minnesota Veterinary Medical Alumni Association
Board of Directors
Annual Meeting Chairman
Nominating Committee
Student Experience Committee
- Minnesota Veterinary Medical Association
Governmental Affairs Committee
Minnesota Veterinary Historical Museum Board of Directors
- Ruth, George R. American Association of Veterinary Laboratory Diagnosticians
Congenital and Inherited Disease Committee, Chair
Pathology Committee
- Minnesota Veterinary Medical Association
Committee on Governmental Affairs
Committee on Chemically Impaired Veterinarians
- Werdin, Ronald E. American Association of Veterinary Laboratory Diagnosticians
Diagnostic Veterinary Pathology Committee
- Minnesota Veterinary Medical Association
Infectious Disease Committee
Memorial and Historical Committee
Minnesota Veterinary Historical Museum Board of Directors
- United States Animal Health Association
Infectious Diseases of Cattle Committee
- Western Conference of Veterinary Laboratory Diagnosticians
Minnesota Representative

University Committees

- Barnes, Donald M. Admissions and Scholastic Committee - CVM
- Bergeland, Martin E. Administrative Council - CVM
Legislative Committee - CVM
VDL Building Committee - U of M
- Collins, James E. Faculty Council - CVM
Curriculum Committee - CVM

Felice, Lawrence J. Research Committee - CVM
 Admissions and Scholastic Standing Committee - CVM

Goyal, Sagar M. OSHA Committee, Chair - CVM
 Electron Microscope Management Committee - CVM
 Library Committee - CVM
 VDL Building Committee - U of M

Kurtz, Harold J. Animal Care Committee - CVM

Murphy, Michael J. Dairy Resource Group Seminar Committee - CVM

Nelson, Glen H. Dean's Advisory Council - CVM
 Admissions and Scholastic Standing Committee - CVM
 Legislative Committee - CVM
 Honors Committee - CVM
 Long Range Planning Committee - CVM
 Recruitment Committee - CVM
 VDL Groundbreaking Committee - CVM
 VDL Building Committee - U of M
 President's Distinguished Faculty Mentor Program - U of M

Ruth, George R. Research and Public Practice Committee, Co-Chair - CVM

Shaw, Daniel P. Learning Resources - CVM
 Food Animal Health and Production Curriculum Committee - CVM
 Committee on Curriculum and Educational Policy Core Studies - CVM

Werdin, Ronald E. Awards Committee - CVM
 Careers Committee - CVM

Ground Breaking Ceremony

The ground breaking ceremony for a new addition to the Veterinary Diagnostic Laboratory was held on June 6, 1991 at the construction site adjacent to the present facility on the St. Paul Campus.

The three-story addition adds 41,000 square feet of space to the existing building. Reception and specimen-receiving areas, and modern laboratories for necropsy, bacteriology and mycology will be on the first floor. The second floor will house administrative and faculty offices, a seminar room, a staff commons area, and instructional facilities. Virology, cell-culture, cytogenetics, and expanded toxicology laboratories will be on the third floor. The existing building will continue to accommodate immunology, serology, part of the toxicology program, and the cooperative State/Federal Brucellosis Laboratory, and will have rooms for graduate student instruction and research.

The facility was designed by Lindberg Pierce, Incorporated, of Minneapolis. Uldis Treibergs, senior architect at the University is project manager.

Program

Welcome and Introductions

Dr. David G. Thawley, Dean
College of Veterinary Medicine

Representing the Board of Regents

The Honorable Jean Keffeler

Representing the University

Dr. Nils Hasselmo, President

Representing the College of Veterinary Medicine

Faculty and Alumni

Dr. Glen Nelson, Professor
Coordinator of Alumni Relations

Representing Public Support Groups

Dr. Benjamin Pomeroy, Professor Emeritus
Veterinary Pathobiology

Representing Food Animal Industries

Mr. Conrad Kvamme
Minnesota Livestock Breeders Association

Closing Remarks

Dr. Martin Bergeland, Professor
Director, Veterinary Diagnostic Laboratory

Breaking of the Ground

Platform Guests

Department of Veterinary Diagnostic Investigation

Departmental Income

July 1, 1990 - June 30, 1991

I.	Instruction		
	A. University Operations and Maintenance Fund		
	1) Annual Budget		
	a) Salaries	\$ 86,116	
	b) Fringe Benefits	21,917	
	c) Supplies	<u>255</u>	
	Subtotal	108,288	
	2) Adjustments to Annual Budget	(991)	
	B. Student Training Grants	<u>1,000</u>	\$ 108,297
II.	Research		
	A. Agricultural Experiment Station	—	
	B. Federal Contracts and Grants		
	1) USDA - Animal Health Funds	19,200	
	C. Minnesota Racing Commission	40,020	
	D. Other	<u>2,500</u>	61,720
III.	Services		
	A. State Special Appropriation		
	Minnesota Veterinary Diagnostic Laboratory	1,772,403	
	B. Laboratory User Fees		
	1) Veterinary Diagnostic Laboratory		
	a) Public	954,827	
	b) Other University Departments	84,437	
	2) Histotechnique Laboratory	51,355	
	3) Minnesota Racing Analytical Laboratory	<u>229,000</u>	2,752,583
IV.	Other		
	A. Minnesota Poultry Testing Laboratory	95,000	
	B. College of Veterinary Medicine Administration	—	
	C. Private Gifts		
	1) Fenstermacher Fund		
	a) Contributions	2,000	
	b) Endowment earnings	1,331	
	2) Research	18,514	
			<u>116,845</u>
	TOTAL		<u>\$ 3,378,884</u>

Administration

University of Minnesota

Charles H. Casey - Chairman, Board of Regents
Nils Hasselmo - President
Cherie R. Perlmutter - Interim Vice President, Health Sciences
Vilis Vikmanis - Assistant Vice President, Health Sciences
David G. Thawley - Dean, College of Veterinary Medicine

Board of Animal Health

Sharon I. Hurley - President
Jack G. Delaney - Vice President
Henry L. Banal
Theodore G. Huisinga
Allan Routh
Thomas J. Hagerty - Executive Secretary

University of Minnesota

College of Veterinary Medicine Advisory Council Executive Committee Members

Ellin Dunsworth, Chair	Minnesota Cat Fanciers Bloomington, Minnesota
Thomas Hagerty	Minnesota Board of Animal Health St. Paul, Minnesota
Warren Hartman	Mixed Animal Practice Wadena, Minnesota
John Hausladen	Minnesota Turkey Growers Association St. Paul, Minnesota
Conrad Kvamme	Orbit Farms Dairy Little Falls, Minnesota