

THE INSTITUTE REPORT



From the
VETERINARY VIRUS RESEARCH INSTITUTE
Cornell University, Ithaca, New York

October, 1959

Volume 9

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CORNELL RESEARCH LABORATORY FOR DISEASES OF DOGS

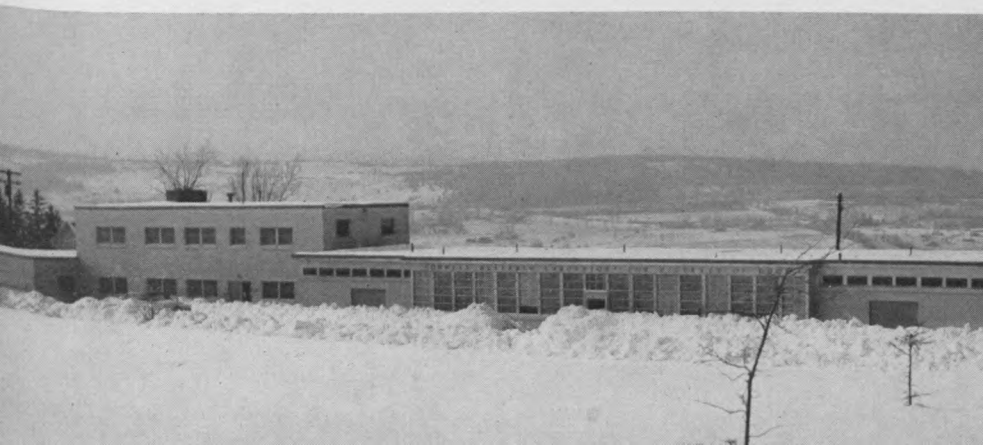
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THE INSTITUTE REPORT

EACH year the Institute Report is prepared especially for the persons whose help makes possible our continued operation. These are listed under "Acknowledgments", and each one is sent a copy of this Report and of various reprints as they become available during the year.

The majority of our donors are interested primarily in the Cornell Research Laboratory for Diseases of Dogs, since this section of the Institute is supported entirely by their contributions. For this reason, the Report mentions work from the C.R.L.D.D. in greater detail than the correlated, but separate, work with cattle, swine, cats, or other animals and fish, from the Microbiology Laboratories.

Winter views of Institute.



VIRUS RESEARCH INSTITUTE STAFF

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JAMES H. GILLESPIE, V.M.D., Assistant Director of the Institute and Professor of Bacteriology.

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JOYCE M. FREEMAN, Secretary to the Director.

MARGARET HARDESTY, Bookkeeper.

MARJORIE D. LANGER, Secretary

JOSEPH D. MINOGUE, B.S., Director of Development, Day Hall. (Replacing F. Weston Prior, now with Northeastern University, Boston).

HADLEY C. STEPHENSON, B.S., D.V.M., Veterinary Consultant and Emeritus Professor of Vet. Therapeutics and Small Animal Diseases.

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ROBERT DAVENPORT, Maintenance Assistant.

GEORGE KIGER, Janitor.

ELDON MEAD, Farmer. (On temporary leave with Army).

CHARLES MUNCH, Sr., Animal Technician.

CLARENCE RAYMOND, Technical Assistant.

LYLE RAYMOND, Foreman.

ROBERT SANDERSON, Farmer.

CARL SEARS, Experimentalist.

FRANK SEARS, Building Maintenance Supervisor.

EDSON WHEELER, Senior Animal Technician.

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BARBARA JOHNSON, Histological Technician.

LARRY KEENAN, Student Assistant.

PETER H. LANGER, V.M.D., Research Associate.

VIVIAN MORGAN, Laboratory Assistant.

BEN E. SHEFFY, B.S., M.S., Ph.D., Associate Professor of Nutrition. (On Sabbatic Leave, 1959-60 at Cambridge University).

JOAN THOMPSON, D. H., Laboratory Technician.

ELIZABETH WHEELER, Laboratory Assistant.

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MYRTH GUEST, B.S., Laboratory Technician.

Giralda Division (Provided by Mrs. Geraldine Rockefeller Dodge):

LOIS W. PAGETT, R.N., Laboratory Technician.

MARY E. GEHRES, R.N., Laboratory Technician.

Distemper Evaluation Laboratory (Operating Funds Provided by the American Kennel Club):

DOUGLAS S. ROBSON, Ph.D., Statistical Consultant.

BARBARA HILDRETH, B.A., Laboratory Technician.

Cooperating Staff:

These veterinarians and scientists in various parts of the United States are contributing much time and effort, without compensation, in order to help secure the necessary information on which to base a program to conquer distemper.

Thomas F. Benson, D.V.M.—Diagnostic Lab., N. Y. State Vet. College,
Cornell University, Ithaca, New York.

W. Philip Boyer, V.M.D.—Morris Plains, New Jersey.

Uncas T. Crocker, D.V.M.—Monticello, Florida.

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H. Grady Young, D.V.M.—Thomasville, Georgia.

MESSAGE FROM THE DIRECTOR

Reports in previous years have not been easy to write. Although information collected each year contributed to our knowledge of dogs and their diseases, it could not as yet be correlated into an adequate program for individual dog owners and their veterinarians. More time was necessary for more facts to be accumulated and for careful checking and rechecking. As you can appreciate, construction of a program for control of disease is much like construction of a building. But, it is more difficult than the average building—especially the foundation, which had to be tested over and over again in order to be certain that it would bear the superstructure of applied fact which we wished to place on it. At last, I believe that we have a practical program that offers sufficient satisfaction. We now recommend:

1. *Vaccinate always with live virus vaccines.* Distemper vaccines of egg origin and infectious canine hepatitis vaccines of tissue culture origin can now be standardized by the manufacturers, and, if this is done properly, efficient live virus vaccine is assured.
2. *Vaccinate according to the Nomograph whenever possible.* This method originated at the Cornell Research Laboratory for Diseases of Dogs and studied in great detail for the past year, has given more than 95% success in field trials carried out by our select group of cooperating veterinarians.
3. *Vaccinate puppies at 9 weeks of age, if there has not been a nomograph;* should give about 85% success.
4. *A blood test to determine whether the vaccination was successful should be made whenever possible. If puppy has not developed immunity, it can be revaccinated.*
5. *Since about one-third of all immune puppies lose this immunity within a year, two procedures are possible to help prevent disease. One, all of the dogs could be blood tested each year to check their level of immunity and those needing it can be revaccinated. Or, an alternate procedure would be to vaccinate all dogs annually. While exact figures are not yet conclusive, we know now that some dogs lose immunity in their second year. To insure continued protection, annual vaccination of all dogs is recommended as a routine safety measure. An explicit article is being prepared for publication on this subject. As soon as available, reprints will be sent to everyone on our mailing list.*
6. *While antiserum may be valuable therapy for a sick dog, we do not recommend its use for prevention of distemper until such products are standardized and shown by these standards to contain enough antibodies to*

really protect against distemper. The Nomograph determines the desirable age to vaccinate a puppy. If it is used, antiserum is not needed.

7. Lacking standards, efficiency of other types of vaccines cannot be determined readily. Their real efficiency, however, can be determined by immunity tests of the dogs after vaccination.

On behalf of the staff of the laboratory, therefore, it is with pleasure, in this ninth year of operation, that I present to you the hope that distemper in dogs can be controlled if suggested practices are applied properly. Our program cannot guarantee 100% immunity for all dogs. After all, 100% is an ideal and represents ultimate success. It is the deviation from this point that is the actual measure of progress. Since 100% is not attainable, we have come to agree upon something better than 95%, which means that we seek a vaccination program that 19 times out of 20 protects dogs against disease. Practical experience has shown that, if distemper and infectious canine hepatitis can be prevented, the majority of dogs will be healthy.

Studies on the occurrence of virus diseases in dogs have shown that the common ones are distemper and infectious canine hepatitis. With the exception of rabies, and occasional oddities which do not naturally belong to dogs, distemper virus and infectious canine hepatitis virus actually are the only two viruses known to cause disease in dogs. In this respect, dogs are unusually fortunate, since other species of animal seem to harbor a large variety of viruses and are prone to more diseases caused by them. I do not mean to imply that dogs do not suffer from other infections for we know that leptospirosis, a bacterial disease, is important and certain other bacteria, fungi and parasites must be controlled for total health in dogs.

We now have a specific program representing the best that can be devised at present. This program is based on facts as we have found them and, while we may not like the limitations, they are imposed by the nature of the viruses and response of the individual dog. Further study should lead to further improvements, and certainly, this is an end to be desired.

This vaccination program could conquer distemper if we could have widespread application. There must be more puppies vaccinated and more dogs revaccinated each year if epidemics are to be eliminated. Evidence about the spread of infectious diseases like distemper indicates that 70% of all dogs must be immune in order to arrest transmission. This has been done for smallpox by compulsory vaccination of travellers, armed forces and school children. We cannot use compulsory vaccination for all dogs. We believe, however, that if sensible practices are followed by everyone, then we can achieve the same effect and conquer distemper and infectious canine hepatitis.

All dog owners would benefit if we observed these rules:

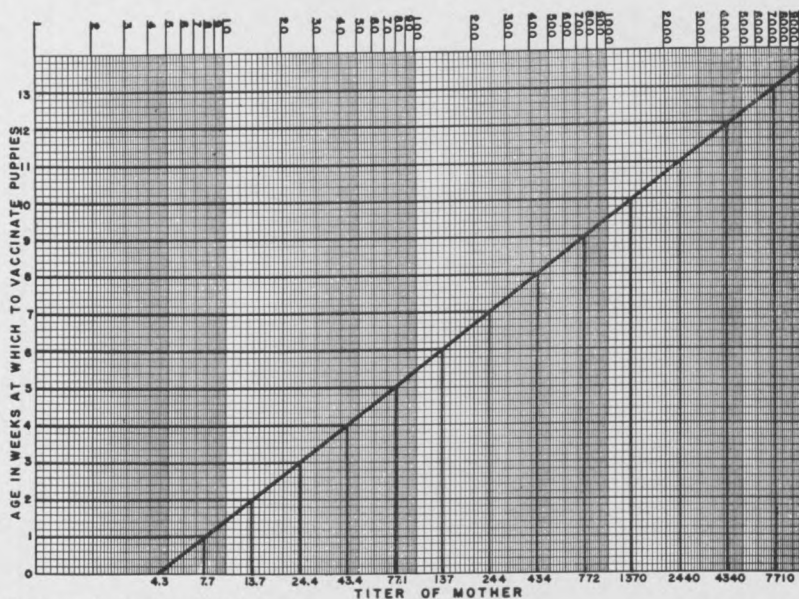
1. Do not sell or give away any puppy unless it appears healthy and has been vaccinated for at least one week.
2. Do not buy or accept as a gift any puppy unless it appears healthy and has been vaccinated for at least one week.
3. Annual vaccination for all dogs, or, alternatively, have blood test made and revaccinate those that have lost immunity.
4. Remember—it is the unvaccinated dog which spreads disease.

We continue our efforts to add to general knowledge. During the past year, we have shipped a large number of virus specimens to be used by other workers. This is of great importance, for any information, whenever produced, benefits all. It has also been our privilege to be hosts to visitors, not only from this country but from many other countries throughout the world. An interchange of ideas is certainly beneficial. We, too, try to do our part in spreading our own ideas and information as widely as possible. You will note the various publications of our staff, which attest to this. In addition, all of us give as many talks to interested groups as possible and consistent with the time we can spare away from our daily work. After all, it is the attention to details in the laboratory which represents progress. Nevertheless, information must be publicized or it will not be used. We try to keep balance in our program.

Our annual budget for the present fiscal year is \$90,000.00 for the Cornell Research Laboratory for Diseases of Dogs. At the present rate of contributions, this leaves little surplus to add to endowment so badly needed for stabilizing staff employment. I hope those of you who read this will continue your support and encourage others to help. Please remember that next year is our tenth year of operation. Perhaps, this occasion should be marked by some effort to increase endowment substantially.

To a number of our supporters, who by unusual effort and counsel or by very generous financial support have made this year successful, we are deeply grateful. I would like to express special appreciation to Colonel and Mrs. Lee Garnett Day, Mrs. Geraldine R. Dodge, Mr. John M. Olin, Mrs. Elizabeth I. Poe, and Mr. John C. Neff and the members of the Research Committee of the American Kennel Club, Mr. T. W. Merritt, Mr. Howard Parker and Mr. C. K. Rickel.

James A. Baker



Courtesy of the Cornell Veterinarian

THE DISTEMPER NOMOGRAPH

For the first time in the science of Immunology a concise chart has been made that indicates the age at which young can be immunized successfully. With no vaccination or with vaccination delayed too long, there is always the risk of infectious disease, often fatal to the young. Indiscriminate vaccination at an early age has not been the answer.

We have been studying for some years one of nature's important methods of protecting the newborn against disease—a method that has been long recognized but not fully understood. This protection is obtained during the first 24 hours of life from ingestion of colostrum, or the first milk from the mother after birth of young. Colostrum provides the young with antibodies of all the infectious diseases to which the mother herself is immune. This protection is temporary and passive, but it is so complete while it lasts that if a vaccine is given while colostrum protection is still present, it cannot establish immunity.

We have found that the colostrum of individual dogs varies greatly in the amount of protection it can give. A mother with a high titer, or level, of antibodies against distemper will produce colostrum that provides an equally high level of protection to her puppies, and her puppies will be protected longer than puppies from a mother with a low level of antibodies. Puppies with a low level will need to be vaccinated sooner than those with a high level. And all of the puppies, of course, need to be vaccinated just as soon as possible.

A blood sample from the prospective mother, before the puppies are born, can be tested for its distemper antibody level. Once this titer of an individual mother is known, it can be checked on the Distemper Nomograph to show the proper age for vaccination of her puppies. If the blood test reveals that her own level is below 100, that is considered too low for her own safety, and she should be vaccinated and her titer checked again to see if she has become successfully immunized. If a mother has no titer, the puppies can be vaccinated at one week of age, and the mother should be vaccinated, of course. Puppies that do not obtain any colostrum during their first 24 hours of life can be vaccinated at one week of age, even if their mother had a high titer.

VISITORS TO THE INSTITUTE



Dr. Baker, left, talks to group of visiting Japanese scientists.



Scientists attend meeting in Seminar Room.

VISITORS FROM THE INSTITUTE



Dr. Baker and Dr. Gillespie attend a scientific meeting.



Dr. Hadley C. Stephenson, center, with Director Lagerloff, right, of Royal Vet. College of Stockholm, Sweden, with veterinary students from Argentina, Egypt, India, Pakistan, Thailand, and Turkey, who were informed of our work with viruses. These veterinarians were attending an advanced F.A.O. (United Nations) veterinary course in Stockholm on Animal Production.

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 Sterling-Winthrop Research Institute
 Swift & Company
 L. H. Terpening Company
 The Upjohn Company
 Western Grain Company
 Winthrop Laboratories</p> |
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HUNTS AND CLUBS

- Afgan Hound Club of America, Inc.
 Afghan Hound Club of California
 Airedale Terrier Club of America
 The Alaskan Malamute Club of America, Inc.
 Albany Kennel Club Inc.
 Aldenholme Kennels
 The All Breed Training Club of Akron, Inc.
 Amateur Dog Judges Association of America
 American Amateur Retriever Club
 American Boxer Club, Inc.
 American Chesapeake Club
 American Kennel Club
 American Miniature Schnauzer Club
 American Sealyham Terrier Club
 American Shetland Sheepdog Association
 American Whippet Club
 Anderson Kennel Club, Inc.
 Arkansas Kennel Club
 Armforth Kennels
 Association of Obedience Clubs & Judges, Inc.
 Baltimore County Kennel Club, Inc.
 Bay State Beagle Club
 Beaglers of Orange Empire, Inc.
 Belgian Sheepdog Club of America, Inc.
 Berks County Kennel Club
 Borzi Club of America
 Boston Terrier Club of Albany, N.M.
 Boston Terrier Club of America
 Boston Terrier Club of Maryland
 Branchewater Hunt Club
 The Briard Fellowship, Inc.
 Buckeye Brittany Club
 Buckeye Retriever Club, Inc.
 Bull Terrier Club of America
 Calumet Dog Training Group, Inc.
 Camden Hunt Club
 Canonsburg Sportsmen's Association, Inc.
 Capitol City Beagle Club, Inc.
 Capital Dog Training Club of Washington, D.C.
 Carbon Beagle Club, Inc.
 Carolina Dog Training Club
 Cascade Dachshund Club
 Catawba County Beagle Club
 Catonsville Kennel Club, Inc.
 Central Florida Kennel Club, Inc.
 Central Maine Beagle Club
 Central Missouri Beagle Club
 Central New Mexico German Shepherd Dog Club
 Central Ohio Kennel Club
 Champaign Illinois Kennel Club
 Charleston Kennel Club
 Chesapeake Bay Retriever Club
 Cheshire Kennel Club, Inc.
 Chester Valley Kennel Club
 Cleveland All-Breed Training Club, Inc.
 Cocker Spaniel Club of Florida
 Cocker Spaniel Club of Hawaii
 Cocker Spaniel Club of Kentucky, Inc.
 Cocker Spaniel Club of Oklahoma, Inc.
 Cocker Spaniel Club of Southeastern Florida
 Cocker Spaniel Club of Southern California
 Cocker Spaniel Club of Southern Illinois
 Collie Club of Maryland, Inc.
 Collie Club of New England
 Collie Club of New Hampshire
 Collie Club of Washington
 Collie Club of Western New York
 Collie Club of Western Pennsylvania
 Colonial Beagle Club
 Colonial Retriever Field Trial Club
 Columbus Collie Club
 Connecticut Boxer Club
 Connecticut-Westchester Cocker Spaniel Club
 Corn Belt Kennel Club
 Dachshund Club of America, Inc.
 Dachshund Club of California, Inc.
 Dachshund Club of the Great Lakes
 Dachshund Club of Hawaii
 Dachshund Club of St. Louis
 Dalmation Club of America
 Danville Illinois Kennel Club, Inc.
 Dayton Dog Training Club, Inc.
 Del Monte Kennel Club
 Delsea Beagle Club
 Dixie Association of Beagle Clubs
 Doberman Pinscher Club of Florida, Inc.
 Doberman Pinscher Club of Greater Cleveland
 Doberman Pinscher Club of the National Capital Area
 Dog Owners' Training Club of Maryland, Inc.
 Durham Kennel Club, Inc.
 Eastern Boxer Club
 Eastern German Shorthaired Pointer Club
 English Springer Spaniel Club of Michigan, Inc.
 Essex Foxhounds
 Evergreen State Shetland Sheepdog Club, Inc.
 Finger Lakes Kennel Club

HUNTS AND CLUBS (Cont.)

- Fort Wayne Beagle Club, Inc.
 Foxcatcher Hounds
 Genesee Valley Hunt, Inc.
 German Shepherd Dog Club of Canada
 German Shepherd Dog Club of Rochester and Area
 German Shepherd Dog Club of St. Louis
 Golden Bear Association of Beagle Clubs
 Golden Retriever Club of America (Illinois Chapter)
 Golden State Bull Terrier Club
 Gordon Setter Club of America
 Great Barrington Kennel Club, Inc.
 Great Dane Club of California
 Great Dane Club of Northern California, Inc.
 Green Spring Valley Hounds, Inc.
 Groton Hunt
 Harrisburg Kennel Club, Inc.
 Heart of America Cocker Spaniel Club
 Hiawatha Cocker Spaniel Club
 Hudson-Highland Dog Training Club
 Huntington Kennel Club, Inc.
 Illinois Valley Kennel Club
 Indiana County Beagle Club
 Ingham County Kennel Club, Inc.
 International Beagle Federation, Inc.
 Interstate Poodle Club
 Irish Setter Club of America
 Irish Setter Club of Michigan
 Irish Water Spaniel Club of America
 Island View Retriever Club
 Ithaca Dog Training Club
 Jacksonville Dog Fanciers Association
 Kalamazoo Kennel Club, Inc.
 Kanadasaga Kennel Club, Inc.
 Kanawha Obidience Training Club
 The Kansas City Retriever Club
 Keeshound Club of America
 The Kennel Club of Northern New Jersey, Inc.
 Kern County Kennel Club, Inc.
 Knockcross Kennels
 Ladies' Dog Club
 Lake Shores Great Dane Club, Inc.
 Lake Shore Kennel Club, Inc.
 Lake Superior Beagle Club
 Lancaster Kennel Club
 Lanco Beagle Club
 The Leash Club of New York City
 Lincolnwood Training Club, Inc.
 The Little Guild of St. Francis
 Long Island Kennel Club
 Lorain County Beagle Club
 Louisville Kennel Club, Inc.
 Lower Camden County Dog Training Club
 Lycoming County Beagle Club, Inc.
 Magic Valley Kennel Club, Inc.
 Madison Retriever Club
 Mahoning Shenango Kennel Club, Inc.
 Mahoning-Trumbull Beagle Club
 Manitowoc County Kennel Club
 Marin County Dog Training Club, Inc.
 Marlborain Kennels
 Maryland Beagle Club
 Maryland Cocker Spaniel Club, Inc.
 Meadowbrook Cocker Spaniel Club, Inc.
 Meadow Brook Hounds
 Merrimac Dog Training Club
 Miami Valley Collie Club
 Michigan Brittany Club, Inc.
 Mid-Continent Kennel Club of Tulsa
 Middleburg Hunt
 Mid-Hudson Kennel Club
 Midwest Field Trial Club of Chicago
 Miniature Schnauzer Club of Southern California
 Minneapolis Kennel Club, Inc.
 Minnesota Field Trial Association, Inc.
 Mississippi State Kennel Club
 Missouri Valley Hunt Club
 Mohawk Beagle Club
 Monmouth County Kennel Club
 The Montclair Dog Obedience Training Club
 Morris & Essex Kennel Club
 Moskeeter Gun Companions
 Mount Vernon Miniature Schnauzer Club
 Nassua Dog Training Club
 National Beagle Club
 National Capital Kennel Club, Inc.
 National Retriever Field Trial Club, Inc.
 New England Association of Beagle Clubs
 New England Sled Dog Club, Inc.
 New Jersey Boxer Club
 New Mexico Kennel Club
 Niagara-Orleans Kennel Club
 North Jersey Beagle Club, Inc.
 North Shore Beagle Club, Inc.
 North Shore Dog Training Club, Inc.
 Northeastern Indiana Kennel Club
 Northern Association of Beagle Clubs
 Northern California Beaglers Club
 Northern California Retriever Trial Club, Inc.
 Northern California Whippet Racing Association
 Northern West Virginia Beagle Club, Inc.
 Norweigan Elhound Association of America
 Norwegian Elkhound Association of Southern California
 The Norwich Terrier Club
 Oak Hill Beagle Club

HUNTS AND CLUBS (Cont.)

- Oakland County Kennel Club
 Obedience Training Club of Palm Beach County
 Obedience Training Club of Rhode Island
 Ohio Valley Cocker Spaniel Club
 Oklahoma City Obedience Training Club, Inc.
 Old English Sheepdog Club of America
 Old Monmouth Dog Training Club, Inc.
 Old Pueblo Dog Training Club, Inc.
 Olentangy Beagle Club, Inc.
 Olympic Kennel Club, Inc.
 Onondaga Kennel Association, Inc.
 Orange County Fox Hunters Association
 Orange County Hunt
 Oregon Retriever Trial Club
 Papillon Club of America
 Peaks Lake Retriever Club
 Penn-Ohio Miniature Schnauzer Club
 Penn Treaty Kennel Club, Inc.
 Pickering Hunt
 Pine Hill Beagle Club, Inc.
 Plainville Beagle Club
 Poodle Club of America
 Poodle Club of Massachusetts
 Potomac Boxer Club
 Pug Dog Club of America
 Queen City Dog Training Club
 Queensboro Kennel Club, Inc.
 Raleigh Kennel Club, Inc.
 Rio Grande Kennel Club
 Robins Range Kennels
 Rochester Poodle Club
 Rockland County Kennel Club
 Roubout Hunt
 Rubber City Kennel Club
 Russell Beagle Club, Inc.
 St. Joseph Kennel Club, Inc.
 St. Louis Collie Club
 St. Mary's Beagle Club, Inc.
 Sacramento Dog Fanciers Association, Inc.
 Salinas Valley Sporting Dog Association
 Sandusky Kennel Club
 San Francisco Dog Training Club
 Saranac Lake Hare and Beagle Club, Inc.
 Scottish Terrier Club of California
 Scottish Terrier Club of Kentucky
 Sewickley Hunt
 Sharerag Hounds, Inc.
 Sherman All-Breed Dog Training Group
 Shetland Sheepdog Club of Southern California
 Shreveport Kennel Club, Inc.
 Shrewsbury Dog Training Club, Inc.
 Siberian Husky Club of Alaska
 Siberian Husky Club of America
 Sierra Dachshund Breeders Club of Los Angeles County
 Silver Bay Kennel Club
 Skye Terrier Club of America
 Skyline Cocker Club, Inc.
 Somerset County Dog Obedience Club
 Somerset Hills Kennel Club
 South Shore Dog Training Club, Inc.
 South Side All Breed Dog Training Club, Inc.
 South Side Beagle Club
 South Texas Obedience Club
 Southern California Beagle Club
 Southern California Collie Club
 Southern Michigan Beagle Club
 Southern New York Beagle Club
 Southern Tier Kennel Club
 Spring Church Beagle Club, Inc.
 Steel City Kennel, Inc.
 Suffolk County Beagle Club, Inc.
 Suffolk Obedience Training Club, Inc.
 Tennessee Beagle Club, Inc.
 Tidewater Beagle Club
 Tompkins County Fish & Game Club, Inc.
 Toronto and New York Hunt
 Towanda Beagle Club, Inc.
 Tri-City Beagle Club
 Troy Dog Training Club
 Tucson Kennel Club, Inc.
 Twin Brooks Kennel Club, Inc.
 Union County Kennel Club, Inc.
 United States Kerry Blue Terrier Club, Inc.
 United States Open Field Trials, Inc.
 Utah Cocker Spaniel Club
 Valley Hills Obedience Club, Inc.
 Vancouver Dog Obedience Club, Inc.
 Washington State Cocker Spaniel Club
 Waterloo Kennel Club
 Welsh Terrier Club of America
 West Allis Training and Kennel Club
 Westbury Kennel Association
 Westchester Kennel Club
 West Coast Cocker Spaniel Club
 Western Montana Retriever Club, Inc.
 Western New York Fox Hunters Association
 Western New York Retriever Club, Inc.
 Western Pennsylvania Dachshund Club
 Western Reserve Kennel Club, Inc.
 Westminster Kennel Club
 Wilmington Kennel Club
 Wisconsin Amateur Field Trial Club, Inc.
 Wisconsin Golden Retriever Club
 Wolf River Retriever Club
 The Women's Club of Niles
 Woodbrook Hunt Club

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