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STATE OF MONTANA
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Annual Report
of the
Montana Livestock
Sanitary Board



to the
Governor of Montana
Honorable Forrest H. Anderson

for the
FISCAL YEAR ENDED

June 30, 1970

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STATE OF MONTANA
LIVESTOCK SANITARY BOARD
Helena, Montana 59601

September 1, 1970

The Honorable Forrest H. Anderson
Governor
State of Montana
Helena, Montana 59601

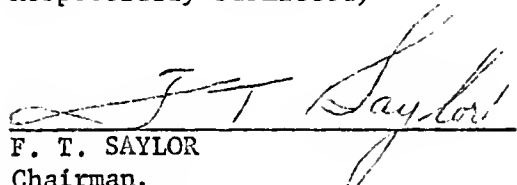
Dear Governor Anderson:

In accordance with the requirements of Chapter No. 93, 1969 Session Laws of Montana, there is herewith transmitted to you the report of the Livestock Sanitary Board covering the fiscal year ended June 30, 1970.

The success in achieving Program objectives of the Livestock Sanitary Board this past fiscal year is evident because:

1. Of the approximately 250,000 animals imported into Montana, there was no devastating animal disease introduced from other states or foreign countries to threaten the health of Montana's approximately 6 million head of livestock.
2. Fifteen years ago approximately 2,500 Montana cattle herds were infected with brucellosis - a disease which took an excessively heavy economic toll from Montana's livestock industry and from the State. As a result of the long-range Brucellosis Eradication Project, as of June 30, 1970 there were only 13 brucellosis infected herds in Montana. A major goal of the Livestock Sanitary Board during fiscal year 1971 is to work toward achievement of a Certified Brucellosis-Free status for the State of Montana, thus assuring that Montana cattle can continue to pass into interstate commerce free from embargos.
3. For many years, and again this fiscal year, there were no milk-borne disease outbreaks among consumers of Montana-produced milk and milk products under the inspection services of the Livestock Sanitary Board. Sanitation and facilities standards of the U. S. Public Health Service were met by all milk plants, thus assuring that a Montana-produced product would continue to be accepted into interstate commerce.
4. A federal-state Cooperative Agreement for Meat Inspection was entered into and a mandatory state-wide meat inspection program was inaugurated on December 16, 1968. It is the goal of the Livestock Sanitary Board - and considerable progress was made during the fiscal year - to achieve certification from the U. S. Secretary of Agriculture that Montana's meat inspection system is "equal to" the meat inspection system of the U. S. Department of Agriculture by December 15, 1971, as required by the federal "Wholesome Meat Act of 1967".

Respectfully submitted,


F. T. SAYLOR
Chairman,
Montana Livestock Sanitary Board

FTS/jc

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LIVESTOCK SANITARY BOARD

Officer

<u>Term of Office</u>	<u>Home Address</u>
F. T. SAYLOR, Chairman..... 3/1/67 - 3/1/73	Choteau, Montana 59422
WILFORD JOHNSON, Vice-Chairman..... 3/1/67 - 3/1/73	Hall, Montana 59837
JOHN W. BLACK, Member..... 3/1/65 - 3/1/71	Hinsdale, Montana 59241
JESS BLANKENSHIP, Member..... 3/1/69 - 3/1/75	Crow Agency, Montana 59022
THOMAS EVANS, Member..... 3/1/69 - 3/1/75	West of Stanford, Montana 59479
MANLY MOORE, Member..... 3/1/65 - 3/1/71	Powderville, Montana 59345

PRINCIPAL ADMINISTRATIVE OFFICERS

J. W. SAFFORD, D.V.M..... Executive Officer and State Veterinarian

GLENN C. HALVER, D.V.M..... Chief Deputy State Veterinarian;
In Charge, Disease Control Division

BECKWITH HUBBELL, JR., D.V.M..... In Charge, Diagnostic Laboratory Division

HERB BALLOU, M.S..... In Charge, Dairy & Milk Inspection Division

HERBERT A. BROSZ, D.V.M..... In Charge, Meat Inspection Division

PRINCIPAL OFFICES

Livestock Sanitary Board..... Livestock Building, Capitol Grounds, Helena

Diagnostic Laboratory..... Hadleigh Marsh Laboratories,
Montana State University, Bozeman

GENERALLY

The Livestock Sanitary Board was created by Chapter 152 of the 1907 Laws of Montana and re-enacted by Chapter 262 of the 1921 Laws of Montana.

The statutes relating to the duties, powers and operations of the Livestock Sanitary Board are contained in Titles 46, 82, 84 and 94 of the Revised Codes of Montana, 1947.

Operating policies necessary to administer statutory requirements are contained in the Livestock Sanitary Board "Official Book of Regulations".

Article XII, Section 9 of the Constitution of Montana states that a special levy shall be levied annually on livestock in amount not exceeding four mills on the dollar by the State Board of Equalization for the protection and indemnity of livestock.

SPECIAL

DIAGNOSTIC LABORATORY PROGRAM

Title 46, Section 208 states the Livestock Sanitary Board shall have power to foster, promote, and protect the livestock industry in this state by the investigation of diseases and other subjects related to ways and means of prevention, extirpation, and control of diseases, or to the care of livestock and its products; and to this end to establish and maintain a laboratory.

DISEASE CONTROL PROGRAM

Title 46, Section 203 states the Livestock Sanitary Board shall have power to promulgate and enforce such reasonable rules, regulations, and orders as they may deem necessary or proper to prevent the introduction or spreading of infectious, contagious, communicable, or dangerous diseases affecting livestock into this state.

Title 46, Section 2501 states the practice of artificial insemination of animals and poultry in the State of Montana is hereby declared to be subject to regulation by the Montana Livestock Sanitary Board.

Title 46, Section 2604 states the Livestock Sanitary Board is authorized and empowered to promulgate and enforce such reasonable rules, regulations or orders as the Board may deem necessary or proper for the supervision, control and inspection of persons, premises and equipment where garbage is handled, prepared, cooked or otherwise treated and stored for the purpose of being fed to swine or other animals.

Title 46, Section 907 states the (Livestock Commission and the) Livestock Sanitary Board is vested with power to supervise and regulate properties, facilities, operations, services and practices of all livestock markets in this state.

DAIRY & MILK INSPECTION PROGRAM

Title 46, Section 203 states the Livestock Sanitary Board shall have power to promulgate and enforce such reasonable rules, regulations and orders as may to them seem necessary or proper for the supervision, inspection and control of the standards and sanitary conditions of dairies, milk depots, milk and its by-products, barns, dairy cows, factories, and other places and premises where milk or its products, or any thereof intended for sale or consumption as food are produced, kept, handled, or stored.

MEAT INSPECTION PROGRAM

Title 46, Section 203 states the Livestock Sanitary Board shall have power to install an adequate system of meat inspection at any time and in such places as public welfare may demand. The Wholesome Meat Act, adopted by Congress in 1967, required all states to inaugurate and enforce a mandatory, state-wide meat inspection system "equal to" the meat inspection system maintained by the U. S. Department of Agriculture Consumer & Marketing Service. Under the authority of the Montana Meat Inspection Act of 1931, on December 16, 1968, the Livestock Sanitary Board entered into a Cooperative Agreement with the U. S. Department of Agriculture Consumer & Marketing Service and expanded the meat inspection program to a state-wide, mandatory meat inspection system.

Title 46, Section 2402 states the Livestock Sanitary Board is authorized and empowered to promulgate and enforce such reasonable rules, regulations or orders as the Board may deem necessary or proper for the supervision, control and inspection of rendering or disposal plants, their standards and methods of operation and their sanitary conditions, and for the supervision, control and inspection of any and all equipment thereof, where said rendering or disposal plants are intended to be operated for the disposal of bodies, or parts of bodies, of dead animals or fowl in any manner whatsoever, except for human consumption, and all vehicles, and all equipment appertaining thereto, used for the transportation of such bodies, or parts of bodies.

The Livestock Sanitary Board exists to promulgate and enforce rules and regulations which will:

1. Foster, promote and protect the livestock industry in the State of Montana by preventing the introduction or spreading of diseases affecting livestock, including livestock diseases transmissible to man.
2. Assure consumers a safe and wholesome fluid milk supply and assure the dairy industry that they will always have a marketable product which can move in interstate and intrastate commerce.
3. Assure consumers a safe and wholesome supply of meat and meat-food products through a federally-approved state meat inspection system.

A Diagnostic Laboratory facility and staff is maintained by the Board to scientifically support, through tests and analyses, the goals stated above.

<u>PROGRAM</u>	<u>COST</u> <u>1969-70 F.Y.</u>
Administration.....	\$ 65,894
Diagnostic Laboratory.....	128,067
Disease Control.....	112,422
Dairy & Milk Inspection.....	51,293
Meat Inspection.....	<u>221,692</u>
Total.....	<u>\$580,168</u>

ADMINISTRATION PROGRAM

Achievements. During the 1969-70 fiscal year, the Administration Program continued to implement, incorporate and integrate the directives of the Board into the other four Program objectives assigned to the Board by law, which are (1) animal disease control, (2) dairy and milk inspection, (3) meat inspection and (4) a diagnostic laboratory facility to scientifically support the work of the other three Programs.

This Program assisted the Board to remain aware of new and changing federal and state laws, rules and regulations and make the necessary application to the Program objectives of the Board.

One of the major objectives of the Administration Program, which was achieved again this fiscal year, was keeping surveillance on animal disease trends -- state-wide, national and international -- and remain prepared to initiate emergency disease control activity should a devastating animal disease threaten the approximately 6 million head of livestock within the State of Montana.

The Administration Program systematically collected, evaluated, compiled and disseminated all data pertinent to achieving the Program objectives of the Board to Board employees, Montana veterinarians in private practice, industry organizations and industry individuals, chief livestock officials of other states, related professional organizations, state and federal governmental agencies and private citizens and maintained a business liaison for the Board to these entities.

To assure that the other four Programs of the Board were free to pursue their primary Program objectives, the Administration Program maintained all temporary and permanent records of the Board, including, but not limited to, payroll; preparation of budgets; expenditure of budgeted funds; fiscal reports required by state and federal laws and governmental agencies; personnel hiring, placement and management; and all other routine business office operations.

After verifying compliance with laws and regulations, this Program issued 1,634 licenses and permits to dairies, milk plants, milk distributors, artificial inseminators, breeding services, meat depots, meat packing houses, slaughterhouses, rendering plants, poultry shippers and garbage cooking-feeding establishments.

DIAGNOSTIC LABORATORY PROGRAM

Achievements. During the 1969-70 fiscal year, to scientifically support the work of the Disease Control, Dairy & Milk Inspection and Meat Inspection Programs, the Diagnostic Laboratory accomplished the following:

Animal autopsies.....	1,016
Bacteriological and chemical tests on milk, milk-products and cream.....	21,291
Bacteriological, parasitological, pathological and virological tests on other specimens.....	9,376
Chemical tests.....	2,671
*Serological tests.....	112,159
<u>Total Autopsies and Tests.....</u>	<u>146,513</u>

*Includes field tests.

DISEASE CONTROL PROGRAM

Achievements. During the 1969-70 fiscal year, the Disease Control Program maintained continual livestock disease surveillance on approximately 6 million animals in Montana dispersed over approximately 150 thousand square miles. Out-of-state health certificates on 247,727 cattle, horses, sheep, swine, poultry, dogs and other miscellaneous animals were reviewed to assure compliance with Montana Import Regulations. Official animal inspections and tests were made on 2,843,799 cattle, horses, sheep, swine, poultry, dogs and other miscellaneous animals.

In addition to the above, the major goal of the Disease Control Program continued to be the long-range project of eradicating brucellosis from the State of Montana. Brucellosis is a disease which, about 15 years ago, affected approximately 2,500 herds of Montana cattle and took an excessively heavy economic toll each year from the cattle industry and the state. As of the end of the fiscal year, there remained 13 brucellosis infected herds in Montana.

DAIRY & MILK INSPECTION PROGRAM

Achievements. During the 1969-70 fiscal year, the Dairy & Milk Inspection Program conducted inspections and tests and collected samples at 347 licensed Grade A dairies, 24 licensed milk plants and 9 licensed retail raw dairies as follows:

Dairy inspections.....	1,322
Distributors facilities inspections.....	87
Milk and milk-products samples collected for laboratory analyses.....	7,158
Milk plant equipment tests.....	96
Milk plant facilities inspections.....	128
Milk tank trucks inspections.....	36
<u>Total Inspections, Tests and Samples Collected.....</u>	<u>8,827</u>

These inspections and tests, enforcing the standards in the U. S. Public Health Service's "Recommended Grade A Pasteurization Milk Ordinance", which was adopted by the Board several years ago, not only assured that Montana-produced fluid milk was a safe and wholesome product, but assured that Montana-produced milk and cream would be accepted into interstate commerce, thus expanding the market potential of a Montana-produced product.

MEAT INSPECTION PROGRAM

Achievements. During the 1969-70 fiscal year, as required by the federal Wholesome Meat Act of 1967, substantial progress was made in expanding state meat inspection to a mandatory, state-wide program. A sufficient number of meat inspectors were employed and given preliminary training under federal meat inspectors to fill all needed meat inspection positions. Three veterinary meat inspector supervisors attended the four-week, federal Meat Processing Training School in St. Paul, Minnesota.

As of June 30, 1970, 54 slaughtering and meat processing establishments had met sanitation and facilities requirements and had been granted official state meat inspection; and 321 official establishment inspections were made on meat depots, meat packing houses, slaughterhouses and rendering plants.

During the fiscal year, the following work was accomplished under state meat inspection:

Animals slaughtered.....	51,532
Carcasses and parts of carcasses condemned as unfit for human consumption:	
Beef and swine livers.....	15,882
Parts of carcasses.....	5,816
Whole carcasses.....	108
Diseases and miscellaneous other conditions found in animals which caused whole carcasses or parts of carcasses to be condemned as unfit for human consumption.....	24
Pounds of meat and/or meat-products processed.....	18,295,945
Pounds of meat and/or meat-products re-inspected..	13,314,688
Pounds of meat and/or meat-products rejected and condemned as unfit for human consumption.....	246,185

1. PROGRAM: ADMINISTRATION

REQUIRED IMPLEMENTATION ACTION: LEGISLATIVE

PRIORITY RATING: ITEM A -- 2 of 5
ITEM B -- 5 of 5

CATEGORY: ITEM A -- INCREASING EXISTING SERVICES
ITEM B -- IMPROVING EXISTING FACILITIES

Recommendation.

- ITEM A -- An additional \$7,200 should be appropriated to hire one Business Service Officer for fiscal year 1972 and \$8,076 for fiscal year 1973.
- ITEM B -- Improving Helena office facilities.

Discussion.

- ITEM A -- Increased office workload - primarily due to the expanded state-wide federal-state cooperative meat inspection program - for maintenance of temporary and permanent records, including payrolls; preparation of budgets; control of expenditure of budgeted funds; fiscal reports required by state and federal laws and governmental agencies; personnel hiring, placement and management; and other routine business office operations, requires the services of one additional Administration staff employee.
- ITEM B -- The 1918 office facilities and the conversion of old laboratory rooms into additional office space requires studies to be made to remodel the entire office facility to provide more efficient and comfortable office space. Remodeling should include provisions for adequate and proper ladies' and men's lavatory facilities.

2. PROGRAM: DIAGNOSTIC LABORATORY

REQUIRED IMPLEMENTATION ACTION: LEGISLATIVE

PRIORITY RATING: ITEM A -- 3 of 5
 ITEM B -- 4 of 5CATEGORY: ITEM A -- INCREASING EXISTING SERVICES
 ITEM B -- IMPROVING EXISTING FACILITIESRecommendation.

ITEM A -- An additional \$4,790 for fiscal year 1972 and \$5,173 for fiscal year 1973 should be appropriated to employ one additional Laboratory Assistant.

ITEM B -- Air conditioning of laboratory building.

Discussion.

ITEM A -- The increased workload at the laboratory, particularly in the virological section which requires large quantities of glassware that must receive special cleaning and sterilization, requires one additional Laboratory Assistant.

ITEM B -- Insufficient funds when building the laboratory prevented the inclusion of air conditioning in the laboratory building, although the building was designed to be operated with an air conditioning unit. Lack of air conditioning has been almost intolerable and, in some areas, has led to the impossibility of conducting some bacteriological work, such as setting up agar plates, and employees have been coming to work early in the morning and leaving in the early afternoon to avoid the heat during about 4 to 6 months of the year. We would recommend that approximately \$50,000 be made available to procure and install the air conditioning unit. Thirty-seven percent of the cost should be borne by the Livestock Sanitary Board and sixty-three percent by the Montana Veterinary Research Laboratory, Montana State University, Bozeman.

3. PROGRAM: DISEASE CONTROL

REQUIRED IMPLEMENTATION ACTION: LEGISLATIVE

PRIORITY RATING: 1 of 5

CATEGORY: INCREASING EXISTING SERVICES

Recommendation.

Additional funds to employ part-time veterinarians, \$17,000 for fiscal year 1972 and \$17,000 for fiscal year 1973.

Discussion.

Montana became a Modified-Certified Brucellosis Area in 1964. The level of brucellosis control activity since that time has been sufficient to maintain the Modified status, but not sufficient to achieve the Certified Brucellosis-Free status. Many states into which Montana cattle are shipped have become - or are fast becoming - Certified Brucellosis-Free. As these receiving states attain this goal, they wish to protect it and have started and will continue to place very expensive test requirements on Montana cattle. In order to avoid very expensive test requirements on over 1 million head of cattle exported, in order to hasten the day of final eradication of brucellosis and to achieve a Certified Brucellosis-Free status, the brucellosis testing program in fiscal year 1971 is being increased. To enable the program to be continued into the next biennium, the additional funds are being requested.

The shortage of veterinarians in the United States and the inability to attract full-time veterinary employees with an adequate 10 to 20 year career salary plan makes it necessary to rely more and more on trying to obtain the services of veterinarians in Montana who are engaged in private practice to accomplish disease control work assigned to the Board, thus the request for increased funds for part-time services.

ADMINISTRATION PROGRAM

Services Provided. The Administration Program, consisting of the State Veterinarian, a Fiscal Agent, a Records Clerk, a Supply Clerk and a Secretary, implements, incorporates and integrates directives of the Board into the other four Program objectives assigned to the Board by law; maintains state-wide, national and international surveillance of animal disease trends to protect the health of livestock in Montana; collects, evaluates, compiles and disseminates all data pertinent to achieving Program objectives of the Board; maintains a business and professional liaison between related private and public entities; maintains complete business office services for the Board; is responsible for the hiring, placement and management of all personnel of the Board; and after verifying compliance with licensing laws and regulations, issues all licenses required by law to be issued by the Board.

Objectives. The Administration Program objectives are to remain aware of changing animal disease trends -- state-wide, national and international; direct and coordinate the very closely interrelated Programs of the Board to achieve maximum protection of the health of all Montana livestock at a minimal cost to the taxpayers and be able to assure the consumers of Montana-produced milk, milk-products, meat and meat-products that they are being offered a safe and wholesome product.

Target Groups. Montana livestock industry and consumers of Montana-produced milk, milk-products, meat and meat-products.

Achievements. The success of the Administration Program can best be evaluated by reviewing the accomplishments and achievements of the Programs they administer; thus, the reader is referred to the summary reports of the Disease Control, Diagnostic Laboratory, Dairy & Milk Inspection and Meat Inspection Programs. During the fiscal year there were no major animal disease outbreaks nor milk-borne disease outbreaks in Montana and the Meat Inspection Program was expanded to a state-wide service. Summary reports of other Administration Program activities are presented on the following pages.

Cost and Performance Summary. The following data is presented in summary form. Additional supporting data is available upon request.

FISCAL YEARS.....		
	Historic	Current	Projected
	<u>1968/69</u>	<u>1969/70</u>	<u>1970/71</u>
COST.....	<u>\$61,903</u>	<u>\$65,894</u>	<u>\$66,068</u>

PERFORMANCE:

The Administration Program workload has approximately doubled since the inauguration of the state-wide Meat Inspection Program in December, 1968; however, there has been no request for an increase in Administration personnel. A Business Service Officer position will be requested for the 1971/73 biennium to assist with the increased office workload.

ARTIFICIAL INSEMINATION

On behalf of the Montana Livestock Sanitary Board, the Animal and Range Sciences Department of Montana State University held two courses on artificial insemination and sanitation during the fiscal year to assist individuals in qualifying for a license. Duly appointed representatives of the Livestock Sanitary Board, who serve on the staff of Montana State University, conducted licensing examinations twice during the fiscal year to determine qualifications of license applicants.

In accordance with Chapter 36, Laws of 1953, 401 licenses were issued to individuals during the fiscal year to practice artificial insemination in Montana. The growth in the practice of artificial insemination in Montana has been from 24 licenses issued twelve years ago to 401 licenses issued this fiscal year.

GRANT TO THE VETERINARY RESEARCH LABORATORY

The Montana Livestock Sanitary Board approved a grant of \$10,000 for the fiscal year to the Montana Veterinary Research Laboratory, Bozeman, specifying that the entire amount was to be used to support field and laboratory investigation studies of the virological and other related causes of bovine abortions and neonatal calf losses.

OFFICIAL REGULATIONS

The following Official Regulations were adopted, revised or rescinded during the fiscal year:

- Adopted: Chapter 3, Regulation 303, Paragraph D. "Unauthorized Removal of USDA Backtag".
- Rescinded: Chapter 22. "Carcasses and Parts of Carcasses Intended for Human Consumption".
- Revised: Chapter 3, Regulation 301, Paragraph D. "Official Vaccination of Cattle".
- Chapter 3, Regulation 307, Paragraph D. "Current Negative Herd Status".
- Chapter 10. "Hog Cholera".
- Chapter 12, Regulation 1202, Paragraph (c). "Pullorum-Typhoid Testing of Poultry".
- Chapter 15, Regulation 1522. "Swine Imports".
- Chapter 30, Regulation 3008, Paragraph (2). "Per Diem Pay for Backtaggers".
- Chapter 30, Regulation 3008, Paragraph (3). "Computing Calendar Day and Half-Day of Backtaggers".

LICENSES AND PERMITS ISSUED*Licenses

Artificial Inseminators.....	401
Dairies:	
Producer.....	347
Retail Raw.....	9
Garbage Feeding.....	10
Meat Depots.....	7
Meat Packing Houses.....	56
Milk Plants.....	24
Rendering Plants.....	10
Slaughterhouses.....	<u>62</u>
Total Licenses Issued.....	926

Permits

Milk Distributors.....	120
Poultry Shipping (Chicks and hatching eggs).....	53
Semen for Artificial Insemination.....	<u>535</u>
Total Permits Issued.....	<u>708</u>
<u>TOTAL LICENSES AND PERMITS ISSUED.....</u>	<u>1,634</u>

DIAGNOSTIC LABORATORY PROGRAM

Services Provided. The Diagnostic Laboratory Program, consisting of 12 personnel, provides laboratory services in virology, bacteriology, pathology, parasitology, serology, chemistry, toxicology, necropsy, autopsy, media preparation and sterilization to scientifically support the Program objectives of the Disease Control, Dairy & Milk Inspection, and Meat Inspection Programs.

Objectives. The Diagnostic Laboratory Program objectives are to apply scientifically valid testing and diagnostic procedures to specimens submitted to the laboratory for the purposes of diagnosing and controlling diseases and undesirable conditions of livestock, and assuring compliance with official sanitation and quality standards on milk, milk-products, meat and meat-products.

Target Groups. Montana livestock industry and consumers of Montana-produced milk, milk-products, meat and meat-products.

Achievements. Summary reports are presented on the following pages to reflect the specifics of laboratory achievements.

Cost and Performance Summary. The following data is presented in summary form. Additional supporting data is available upon request.

FISCAL YEARS.....		
	Historic	Current	Projected
	<u>1968/69</u>	<u>1969/70</u>	<u>1970/71</u>
COST.....	<u>\$122,248</u>	<u>\$123,867</u>	<u>\$141,052</u>

Comparison of costs between fiscal years for the operation of the Diagnostic Laboratory shows a fluxuation and reflects the quantity and type of services the laboratory is required to do. For example, if the laboratory is required to increase the number of laboratory tests to support a specific area of concentrated effort by veterinarians in the field in the Disease Control Program, costs are affected accordingly. When the welfare of the consuming public and/or animal industry demands the application of new technological equipment and scientific knowledge, costs rise to provide those services. Competition with private industry and other governmental agencies to obtain and keep superior trained and qualified laboratory personnel is an ever-present cost factor.

PERFORMANCE:

During the fiscal year, the laboratory staff conducted 146,513 tests on 125 different species of animals, products and materials. Since 1960, the workload at the laboratory has increased by 10 times in bacteriology, pathology, parasitology and virology; by 6 times in chemistry; by 3 times in milk bacteriology and chemistry and by over 20 times on autopsies performed.

SUMMARY OF LABORATORY TESTS BY TYPE OF TEST

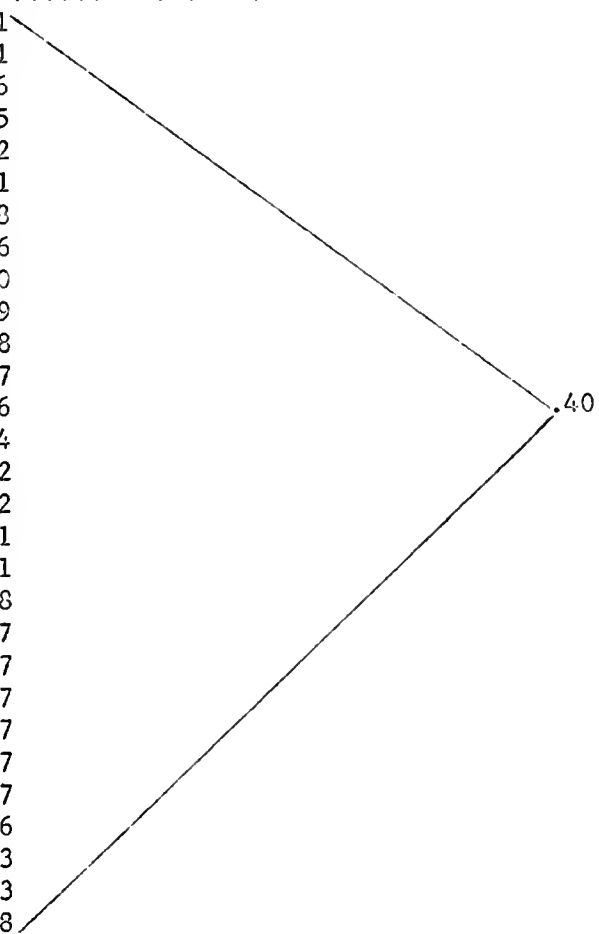
<u>TYPE OF TEST</u>	<u>NUMBER</u>
<u>Autopsies</u>	1,016
<u>*Bacteriology & Chemical Tests on Buttermilk, Cottage Cheese, Cream, Eggnog, Milk and Yogurt:</u>	
In compliance.....	19,817
Not in compliance.....	<u>1,474</u>
Total.....	21,291
<u>Bacteriology, Parasitology, Pathology and Virology:</u>	
Positive.....	4,788
Negative.....	3,438
Inconclusive.....	<u>1,150</u>
Total.....	9,376
<u>Chemical:</u>	
Blood.....	652
Drug detection on race horses.....	655
Meat.....	485
Nitrate.....	20
Pesticide residue.....	245
Toxicology.....	431
Water.....	178
Miscellaneous.....	<u>5</u>
Total.....	2,671
<u>Serology (Excluding Card & Field Tests)</u>	<u>79,296</u>
SUB-TOTAL.....	113,650
P L U S :	
<u>Serology - Card & Field Tests:</u>	
Card Tests -- Cattle and Swine.....	24,212
Field Tests -- Cattle.....	26
" " -- Chickens.....	3,620
**Western Equine Encephalitis.....	<u>5</u>
SUB-TOTAL.....	<u>32,863</u>
TOTAL LABORATORY TESTS BY TYPE OF TEST.....	<u>146,513</u>

*Includes Wisconsin Mastitis tests.

**Tests performed by Rocky Mountain Laboratory, Hamilton, Montana.

SUMMARY OF LABORATORY TESTS BY SPECIE, PRODUCT OR MATERIAL

SPECIE, PRODUCT OR MATERIAL	NUMBER	PERCENT
Cattle.....	105,819.....	72.22
<u>Milk and Dairy Products:</u>		
Buttermilk.....	411	
Cottage Cheese.....	120	
Cream.....	5,020	
Eggnog.....	36	
Milk.....	19,701	
Yogurt.....	47	
Total.....	25,335.....	17.29
Chickens.....	8,339.....	6.04
Swine.....	2,749.....	1.88
Horses.....	940.....	.64
Sheep.....	643.....	.44
Meat.....	502.....	.34
Dogs.....	342.....	.24
Deer.....	223.....	.15
Water.....	208.....	.14
Meat Meal.....	187.....	.13
Cats.....	136.....	.09
Bison.....	71	
Skunks.....	41	
Chinchillas.....	36	
Rabbits.....	35	
Mice.....	32	
Bats.....	31	
Turkeys.....	28	
Geese.....	26	
Feed.....	20	
Elk.....	19	
Bears.....	18	
Gerbils.....	17	
Muskrats.....	16	
Gophers.....	14	
Hamsters.....	12	
Rats.....	12	
Hay, Straw and Grain.....	11	
Pheasants.....	11	
Goats.....	8	
Foxes.....	7	
Guinea Pigs.....	7	
Mink.....	7	
Peacocks.....	7	
Raccoons.....	7	
Reindeer.....	7	
Parrots.....	6	
Antelope.....	3	
Magpies.....	3	
Miscellaneous.....	78	



TOTAL LABORATORY TESTS
 BY SPECIE, PRODUCT OR MATERIAL..... 146,513..... 100.00

DIAGNOSTIC LABORATORY DIVISION REPORT

AUTOPSIES PERFORMED REPORT

SPECIE	NUMBER	SPECIE	NUMBER
Rodger.....	1	Pigeon.....	1
Bats.....	19	Rabbits.....	13
Bears.....	3	Raccoons.....	3
Beaver.....	1	Rats.....	7
Canary.....	1	Reindeer.....	1
Cats.....	37	Sheep.....	65
Cattle.....	110	Skunks.....	23
Chickens.....	92	Swine.....	235
Chinchillas.....	13	Turkeys.....	16
Chipmunk.....	1	Weasels.....	2
Coyote.....	1		
Deer.....	2		
Dogs.....	50		
Refuses:			
Bovine.....	224	TOTAL AUTOPSIES PERFORMED.....	1,016
Equine.....	4		
Foxes.....	4		
Geese.....	14		
Gerbils.....	12		
Gophers.....	8		
Guinea pigs.....	2		
Hamsters.....	6		
Horses.....	2		
Magpies.....	2		
Mice.....	16		
Mink.....	2		
Mole.....	1		
Mountain sheep.....	1		
Muskrats.....	7		
Ocelot.....	1		
Otter.....	1		
Parrots.....	3		
Peacocks.....	3		
Pheasants.....	6		

DIAGNOSTIC LABORATORY DIVISION REPORT

BACTERIOLOGY AND CHEMICAL TESTS ON BUTTERMILK, COTTAGE CHEESE, CREAM, EGGNOG, MILK AND YOGURT

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
BACTERIOLOGY TESTS		
<u>Buttermilk:</u>		
Antibiotic detection tests.....	124	1
Coliform counts.....	138	1
<u>Cottage Cheese:</u>		
Antibiotic detection tests.....	40	0-
Coliform counts.....	30	10
<u>Cream:</u>		
Antibiotic detection tests.....	452	2
Bacterial counts.....	416	34
Coliform counts.....	435	25
<u>Eggnog:</u>		
Antibiotic detection tests.....	9	0-
Bacterial counts.....	6	3
Coliform counts.....	9	0-
<u>Milk:</u>		
Antibiotic detection tests.....	4,032	16
Bacterial counts.....	3,693	368
Brucella abortus ring tests.....	2,724	6
Coliform counts.....	3,365	705
<u>Yogurt:</u>		
Antibiotic detection tests.....	15	0-
Bacterial counts.....	2	0-
Coliform counts.....	15	0-
TOTAL BACTERIOLOGY TESTS.....	15,511	1,181
CHEMICAL TESTS		
Buttermilk.....	137	0-
Cottage Cheese.....	40	0-
Cream.....	434	26
EGGNOG.....	9	0-

DIAGNOSTIC LABORATORY DIVISION REPORT

Bacteriology and Chemical Tests on Buttermilk, Cottage Cheese, Cream, Eggnog, Milk and Yogurt (Continued)

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
<u>Chemical Tests (Continued)</u>		
<u>Milk:</u>		
General chemical.....	1,177	147
*Wisconsin Mastitis tests.....	2,494	120
Yogurt.....	15	0
TOTAL CHEMICAL TESTS.....	4,306	293
TOTAL BACTERIOLOGY AND CHEMICAL TESTS ON BUTTERMILK, COTTAGE CHEESE, CREAM, EGGNOG, MILK AND YOGURT.....	19,817	1,474

Values in mms.....	5	10	15	16	17	18	19	20	21	22	23	24	25	30
Samples tested.....	508	1044	533	104	102	79	69	44	23	14	12	6	14	7

*:

DIAGNOSTIC LABORATORY DIVISION REPORT

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																MISCELLANEOUS Specimen No.			
	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	GOOSE	HAY	HORSE	MEAT	MEAT MEAL	MUSKRAT	PHEASANT	RABBIT	RAT	REINDEER		SHEEP	SWINE	TURKEY
<u>Positive</u>																				
<u>Neisseria sp.</u>	1													1			18			
<u>Nematodirus sp.</u>	53																			
<u>Neoplasm</u>	2				1			1												
<u>Nephritis</u>					2															
<u>Neurofibroma</u>					1															
<u>Nocardia sp.</u>	21				1											2	2			
<u>Moguchia simiae</u>																		1		
<u>Nutritional myopathy</u>	2	1																2		Antelope
<u>Osteoma</u>									1											
<u>Ostertagia sp.</u>	40															14				
<u>Otobius megnini</u>																				
<u>Oxyuris equi</u>									1											Tick
<u>Panleucopenia</u>	1																			
<u>Papilloma</u>	1																			
<u>Papillomatosis</u>					1															
<u>Parainfluenza₃</u>	4																			
<u>Paralysis, posterior</u>																	1			
<u>Parascaris equorum</u>									2											
<u>Pasteurella hemolytica</u>														1						
" <u>multocida</u>	1																			
" <u>pfaffii</u>	1																			
<u>Penicillium sp.</u>	3					2		1	2											
<u>Peritonitis</u>																	1	1		
<u>Perosis</u>																				
<u>Pine pollen</u>																				
<u>Placenta, edematous</u>	1																			Water
" <u>normal</u>	1																			
<u>Placentitis</u>	3																			
<u>Pneumonia</u>	6																1	1	3	

DIAGNOSTIC LABORATORY DIVISION REPORT

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING

SPECIMEN AND NUMBER

FINDING	SPECIMEN AND NUMBER													MISCELLANEOUS								
	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	GOOSE	HAY	HORSE	MEAT	MEAT MEAL	MUSKRAT	PHEASANT	RABBIT	RAT	REINDEER	SHEEP	SWINE	TURKEY	Specimen	No.	
Negative																						
Growth.....	6	167	9			6			7	18		1					16	11		Feed	1	
"																				Ocelot	1	
"																				Parrot	1	
"																				Pork Chop	1	
"																				Skunk	1	
Membrantellosis.....	1																					
Hydrocephalus.....	1																					
Inclusion bodies.....	4		1			2																
Infectious Bovine Rhino-tracheitis.....	516																					
Leptospira sp.....	1	174				6			5						1			58		Mink	1	
Lesions.....			3			2												2				
Leukosis.....			2																			
Listeria sp.....	1																					
Lungworms.....	22																3			Silage	1	
Microorganisms.....	2																2					
Mites.....	2																					
Mold.....	3					1											1			Straw	1	
Mulberry Heart Disease.....			2															1				
Mycobacterium sp.....	2	2																				
Mycoplasma sp.....	16	1															3					
Neoplasm.....	1																					
New Castle Disease.....			1																			
Ova.....	4	9		1		6	1		5								2			Mink	1	
Parainfluenza3.....		94																				
Parasite.....	2							2									1			Pizza	1	
Pneumonia.....																						
Poison: Thallium.....	1																					
Pittacosis.....																				Parrot	1	

DIAGNOSTIC LABORATORY DIVISION REPORT

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER													MISCELLANEOUS Specimen No.									
	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	GOOSE	HAY	HORSE	MEAT	MEAT MEAL	MUSKRAT	PHEASANT		RABBIT	RAJ	REINDEER	SHEEP	SWINE	TURKEY			
<u>INCONCLUSIVE</u>																							
Anaplasma sp.....		1																					
Fovine Virus Diarrhea.....		487																					
Enterotoxemia.....		19															1						
Enzootic Bovine Abortion....		1																					
Infectious Bovine Rhino-tracheitis.....		555																					
Parainfluenza ₃		10																					
Virus diarrhea.....		65																					
TOTAL INCONCLUSIVE FINDINGS	-C-	1,149	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	1	-0-	-0-	-0-	Various	-0-	

DIAGNOSTIC LABORATORY DIVISION REPORT

CHEMICAL REPORT

	CALCIUM			CAROTENE			MAGNESIUM			PHOSPHORUS			VITAMIN A		
	High	Norm.	Low	High	Norm.	Low	High	Norm.	Low	High	Norm.	Low	High	Norm.	Low
BLOOD ANALYSES															
Bovine.....	5	60	58	-0-	71	55	11	27	4	38	44	66	16	82	45
Equine.....	1	4	3	-0-	-0-	3	-0-	-0-	-0-	2	5	-0-	-0-	3	1
Ovine.....	-0-	-0-	4	-0-	2	-0-	1	1	-0-	2	-0-	2	-0-	2	2
Mordine.....	2	1	3	-0-	4	-0-	-0-	-0-	-0-	4	6	-0-	1	4	2
TOTAL BLOOD ANALYSES..	8	65	73	-0-	77	58	12	23	4	46	55	68	17	91	50

DRUG DETECTION TESTS ON RACE HORSES

	POSITIVE	SUSPICIOUS	NEGATIVE
Saliva.....	14	-0-	10
Urine.....	27	2	602
TOTAL DRUG DETECTION TESTS ON RACE HORSES.....	41	2	612

MEAT ANALYSES

	TOTAL PROTEIN	MEAT PROTEIN	SOY PROTEIN	WATER	ADDED WATER	PRESERVATIVES	NON-FAT DRY MILK	CEREAL	FAT
Bologna.....	26	26	4	26	26	-0-	26	-0-	-0-
Braunschweiger.....	9	9	3	9	9	-0-	9	3	-0-
Hamburger.....	2	2	7	2	2	2	-0-	7	2
Salami.....	3	3	4	3	3	-0-	3	4	-0-
Sausage.....	25	24	9	24	24	3	21	9	3
Thuringer.....	2	2	1	2	2	-0-	2	1	-0-
Wieners.....	14	14	-0-	14	14	-0-	14	2	-0-
TOTAL MEAT ANALYSES.....	86	85	28	85	85	5	80	26	5

DIAGNOSTIC LABORATORY DIVISION REPORT

Chemical Report (Continued)

NITRATE ANALYSES

	FIT	QUESTIONABLE	UNFIT
Feed.....	1	-0-	-0-
Water.....	5	5	9
TOTAL NITRATE ANALYSES.....	6	5	9

PESTICIDE RESIDUE ANALYSES

	POSITIVE	TRACE	NEGATIVE
Fat:			
Canine.....	-0-	1	-0-
Grizzly Bear.....	-0-	-0-	7
Porcine.....	1	-0-	-0-
Miscellaneous.....	1	-0-	1
Milk.....	12	-0-	222
TOTAL PESTICIDE RESIDUE ANALYSES.....	14	1	230

TOXICOLOGY ANALYSES

	ARSENIC		COPPER		LEAD		MERCURY		NITRATE		NITRITE		STRYCHNINE	
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
Avian:														
Crop contents.....													1	
Intestine contents.....													1	
Stomach contents.....	1				1									1
Bovine:														
Intestine contents.....	3				3									
Kidney.....	11		26	2										
Liver.....	2	5	2	5	5				1					
Spleen.....	1		1		1									
Stomach contents.....	2	59	11	56	1	1	1							1

DIAGNOSTIC LABORATORY DIVISION REPORT

Chemical Report (Continued)

	ARSENIC		COPPER		LEAD		MERCURY		NITRATE		NITRITE		STRYCHNINE	
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
<u>Toxicology Analyses (Continued)</u>														
<u>Other: (Continued)</u>														
Mineral supplement.....	1			1										
Oil well material.....				1										
Paint, roofing, ashes.....	2		3	4										
Powder.....	1													
Salmon.....														1
Sawdust.....	1			1										
Shed peelings.....	1													
Water.....	4			4										1
Wood chips.....	1													
TOTAL TOXICOLOGY ANALYSES.....	8	136	3	-0-	91	107	-0-	1	1	-0-	16	66		

WATER ANALYSES

Mineral content for livestock consumption.....

TOTAL WATER ANALYSES.....

FIT	QUESTIONABLE	UNFIT
116	4	58
116	4	58

MISCELLANEOUS ANALYSES

Urinary calculi analyses..... 5

TOTAL MISCELLANEOUS ANALYSES..... 5

TOTAL ALL CHEMICAL ANALYSES.....2,670

DIAGNOSTIC LABORATORY DIVISION REPORT

SEROLOGY REPORT

TEST	SPECIE	POSITIVE	NEGATIVE	SUSPICIOUS	TOTAL
Anaplasma CA.....	Cattle.....	3	8	3	14
" CF.....	"	36	509	39	584
Brucella abortus agglutination.....	Bear.....		1		1
" ".....	Bison.....		71		71
" ".....	Cattle.....	101	68,796	1,431	70,328
" ".....	"	357	22,875		23,232
card test (field).....	"		26		26
field test.....	Deer.....		106		106
" ".....	Elk.....		7		7
" ".....	Goat.....		8		8
" ".....	Horse.....		14	2	16
" ".....	Sheep.....		2		2
" ".....	Swine.....		503	1	504
" ".....	"		930		930
card test (field).....	Cream.....		3,186	4	3,190
ring test.....	Milk.....		618	2	620
" ".....	Cattle.....		30		30
Zoonotic Bovine Abortion CF.....	Deer.....		1		1
Zoonotic Bovine Abortion CF.....	Sharptail Grouse.....		1		1
Zoonotic Bovine Abortion CF.....	Cattle.....	1	1		2
Zoonotic Bovine Abortion CF.....	Deer.....		1		1
Zoonotic Bovine Abortion CF.....	Elk.....		3		3
Zoonotic Bovine Abortion CF.....	Antelope.....	1	1		2
Zoonotic Bovine Abortion CF.....	Sheep.....		1		1
Zoonotic Bovine Abortion CF.....	Cattle.....		1	1	2
Zoonotic Bovine Abortion CF.....	Dog.....		2		2
Zoonotic Bovine Abortion CF.....	Swine.....		6	3	9
Zoonotic Bovine Abortion CF.....	Cattle.....		642	11	653
Zoonotic Bovine Abortion CF.....	Horse.....		4		4
Zoonotic Bovine Abortion CF.....	Sheep.....		1		1
Zoonotic Bovine Abortion CF.....	Swine.....		39	6	45
Zoonotic Bovine Abortion CF.....	Cattle.....		642	32	674
Zoonotic Bovine Abortion CF.....	Horse.....		4		4
grippo-typhosa agglutination.....	Deer.....		1		1
" ".....	Sharptail Grouse.....		1		1
" ".....	Cattle.....	1	1		2
" ".....	Deer.....		1		1
" ".....	Elk.....		3		3
" ".....	Antelope.....	1	1		2
" ".....	Sheep.....		1		1
" ".....	Cattle.....		1	1	2
" ".....	Dog.....		2		2
" ".....	Swine.....		6	3	9
" ".....	Cattle.....		642	11	653
" ".....	Horse.....		4		4
" ".....	Sheep.....		1		1
" ".....	Swine.....		39	6	45
" ".....	Cattle.....		642	32	674
" ".....	Horse.....		4		4

DISEASE CONTROL PROGRAM

Services Provided. The Disease Control Program, consisting of 5 full-time personnel and the equivalent of 3½ part-time veterinarians in private practice located throughout the state, and with the cooperation of the federal government, performs over 3 million official animal inspections and tests each year to prevent the introduction or spreading of infectious, contagious, communicable, or dangerous diseases affecting livestock in this state. Official health certificates accompanying animals (approximately 300,000 each year) of all species being imported into Montana are reviewed to ensure compliance with Montana's import regulations.

In support of the Dairy & Milk Inspection Division, all dairy cows are officially tested and examined for the presence of tuberculosis, mastitis and brucellosis - or any other suspected disease factor in dairy cattle which might jeopardize the welfare of public health or the livestock industry.

This Program is utilized to initiate and complete long-term projects of eradication of specific animal diseases which adversely affect the economics of the livestock industry in Montana.

Objectives. The Disease Control Program objectives are to foster, promote and protect the livestock industry of Montana through enforcement of Livestock Sanitary Board Regulations and Montana Laws regarding animal disease prevention, control and eradication; and provide services of animal disease prevention, control and eradication as a primary source of support for the Dairy & Milk Inspection and Meat Inspection Programs, as healthy animals are basic and essential to an acceptable food product of animal origin.

Target Groups. Montana livestock industry and consumers of Montana-produced milk, milk products, meat and meat products.

Achievements. During the fiscal year there were no major animal disease outbreaks nor milk-borne disease outbreaks in Montana. Continued progress was made in the reduction of bovine brucellosis.

At the present time, the long-term project of brucellosis eradication is entering the final stages and with the elimination of this disease from the state, Montana cattle will be able to enter marketing channels outside the state and avoid the threat of costly embargos being placed on Montana cattle.

Summary reports are presented on the following pages to reflect the specifics of disease control activity.

Cost and Performance Summary. The following data is presented in summary form. Additional supporting data is available upon request.

 FISCAL YEARS.....		
	Historic	Current	Projected
	<u>1968/69</u>	<u>1969/70</u>	<u>1970/71</u>
COST.....	<u>\$113,527</u>	<u>\$112,422</u>	<u>\$193,964</u>

PERFORMANCE:

Comparison of costs between fiscal years for the operation of the Disease Control Program fluctuate and reflect an accelerated and/or concentrated activity of animal disease control or eradication, or the desirable absence of such concentrated activity. Competition with private industry and other governmental agencies to obtain and keep veterinarians, plus the national shortage of veterinarians, is an ever-present cost factor. At the close of fiscal year 1970, there remained only 13 brucellosis infected herds in the state. Projected expenditures for fiscal year 1971 represent a planned final thrust to completely eliminate brucellosis from the State of Montana and obtain Certified Brucellosis-Free status from the United States Department of Agriculture and assure the unencumbered marketability of approximately 1 million head of Montana cattle each year.

CATTLE DISEASES

Of seventy-four diseases in 27,601 cattle reported by Montana veterinarians this fiscal year, a percentage distribution of etiological agents responsible for the diseases is as follows:

<u>ETIOLOGICAL AGENT</u>	<u>PERCENT</u>
Bacteria.....	23%
Nutrition.....	2%
Parasites.....	5%
Poisons.....	2%
Protozoa.....	11%
Viruses.....	36%
Unknown.....	21%
<u>Total.....</u>	<u>100%</u>

Bacteria-caused diseases, such as tuberculosis and brucellosis, have been reduced through long-range eradication programs. Also, improved therapeutic and prophylactic agents for many bacteria-caused diseases have reduced them to second place in causing economic loss to the Montana cattle industry. Virus-caused diseases rank number one.

The fact that diseases of unknown etiology cause 21% of the cattle diseases, as reported by Montana veterinarians, (about equal to bacteria-caused diseases) is most significant. Such diseases as cancer eye, urolithiasis, infectious keratitis, foot-rot and pulmonary emphysema, continue to take their economic toll year after year. The only answer that can be given to reducing these losses is to intensify research on each specific disease.

Anaplasmosis -- This disease has remained relatively quiescent since the severe losses in 1964. Recent health requirements on cattle being imported into Canada and New York state prevent many cattle from anaplasmosis "endemic areas" from being acceptable to Canada and New York. Anything that interferes with the marketability of cattle is serious.

Anaplasmosis is a complex disease involving ticks and biting fly vectors, other species of animals as reservoirs of the disease, immune animals being carrier animals and carrier animals being positive to serological tests. It has not been demonstrated that the use of serological tests and/or therapeutic agents to "clean-up" a herd will assure that the herd will remain free of the disease in the tick-infested Montana environment. In fact, practical experience of Montana cattlemen has demonstrated that anaplasmosis-susceptible cattle placed in such an environment has resulted in excessive losses.

Overall anaplasmosis studies are most complex and involves many scientific disciplines; therefore, this past year, efforts were made to request the United States Department of Agriculture, Agricultural Research Service to establish a research program on cattle owned by them in an anaplasmosis endemic area in Montana with the hope that methods of control could be developed which would clearly

demonstrate how cattle, once free from anaplasmosis, could be maintained free of the disease in the range-type cattle operation characteristic in Montana's anaplasmosis endemic area.

Brucellosis -- The long-range Brucellosis Eradication Program has been most successful in reducing - to a very low level - a disease that once caused serious economic loss to Montana and a danger to public health. Because this very low level of infection no longer causes widespread economic loss or danger to public health, there is a great tendency toward premature reduced effort and complacency before the complete eradication of the disease is accomplished. There has been evidence that such complacency may have begun this past fiscal year.

July 1, 1969 started with 9 brucellosis infected herds in the entire state - the lowest in history. By fall, that number doubled to 18 brucellosis infected herds in 5 counties. Fourteen additional herds were found infected during the balance of the fiscal year. By July 1, 1970 brucellosis was successfully eliminated from 19 herds, leaving a balance of 13 herds in 9 Montana counties. This is the first year we have ended the fiscal year with more brucellosis infected herds than the previous year since the eradication program began in 1954.

BRUCELLOSIS INFECTED HERDS

FISCAL YEAR	NUMBER OF INFECTED HERDS	PERCENT INFECTED HERDS IN MONTANA
First Area Test in Montana.....	2,434.....	7.96%
July 1, 1957.....	666.....	2.36%
July 1, 1958.....	357.....	1.24%
July 1, 1959.....	238.....	0.92%
July 1, 1960.....	135.....	0.56%
July 1, 1961.....	93.....	0.34%
July 1, 1962.....	49.....	0.16%
July 1, 1963.....	44.....	0.15%
July 1, 1964.....	36.....	0.14%
July 1, 1965.....	37.....	0.14%
July 1, 1966.....	30.....	0.12%
July 1, 1967.....	26.....	0.11%
July 1, 1968.....	14.....	0.07%
July 1, 1969.....	9.....	0.03%
July 1, 1970.....	13.....	0.06%

COUNTY DISTRIBUTION OF REMAINING BRUCELLOSIS INFECTED HERDS AS OF JUNE 30, 1970

COUNTY	NUMBER OF HERDS
Beaverhead.....	1
Flathead.....	3
Garfield.....	1
Glacier.....	2
Missoula.....	1
Powell.....	1
Ravalli.....	2
Sheridan.....	1
Stillwater.....	1
Total.....	13

Brucellosis tests on 163,570 cattle revealed 2,533 suspects (1.54%) and 507 reactors (0.31%), an increase of reactors over last fiscal year which was 0.26%. There were 3,810 brucellosis ring tests made on milk and cream samples. Six (0.15%) were suspicious to the test, an increase over last year which was 0.13%. Thirty counties were recertified as Modified-Certified Brucellosis Areas during the fiscal year.

*CALVES OFFICIALLY VACCINATED WITH BRUCELLA ABORTUS VACCINE - STRAIN 19

YEAR	DOSES	YEAR	DOSES	YEAR	DOSES	YEAR	DOSES	YEAR	DOSES
1961..	224,576	1963..	250,899	1965..	267,367	1967..	232,686	1969..	231,782
1962..	209,472	1964..	297,002	1966..	287,642	1968..	240,390	1970..	247,344

*In addition, reports were received that 5,910 doses of Brucella abortus vaccine were sold, indicating that many calves were unofficially vaccinated.

The Montana Livestock Sanitary Board, during the fiscal year, in addition to analyzing the causes of the slight increase in the number of cattle and herds infected with brucellosis and reviewing, in detail, the current Brucellosis Eradication Program in Montana, were aware that states to which Montana exports most cattle were either Certified Brucellosis-Free -- or were fast attaining that status. They knew this could only mean that if Montana continued to remain as a Modified-Certified Brucellosis Area, in a relatively short time, Montana could expect serious health restrictions to be placed against their cattle upon exporting them to completely Certified Brucellosis-Free states. The Board, at the end of the fiscal year, as a result of their analysis and study, prepared to institute revisions in the Brucellosis Eradication Program and Livestock Sanitary Board Official Regulations that would halt and reverse the trend of increased infected herds and cattle and obtain a Certified Brucellosis-Free status at the earliest possible date.

Tuberculosis -- Montana was again declared a Modified-Accredited Tuberculosis Area for a period of one year by the United States Department of Agriculture.

The tuberculin test was applied to 5,151 dairy cattle and 17,971 beef cattle during the fiscal year. Not one animal was positive to the tuberculin test. Montana started eradicating tuberculosis, utilizing the tuberculin test, in 1913. From 1913 to 1936, between 200 and 1,176 tuberculosis reactor animals were found each year. In addition to this fiscal year tuberculin test records showing no reactor animals, only three other years -- 1952, 1953 and 1954 -- showed no reactors.

It is estimated that between 750 thousand and 1 million head of Montana cattle are slaughtered each year under state or federal meat inspection. This past fiscal year 30 Montana cattle were reported with, primarily, mesenteric lesions suggestive of tuberculosis. Follow-up tuberculin tests on herds-of-origin revealed no tuberculin test reactors.

Federal law now requires that all domestic animals being offered for sale for human consumption in the United States must be slaughtered under federal or state meat inspection. The finding, reporting and tracing to the herd-of-origin of all animals with tuberculosis lesions found during post-mortem meat inspection provides a practical, inexpensive method of assuring final and complete eradication of bovine tuberculosis.

HORSE DISEASES

The Montana Livestock Sanitary Board, administering a scientifically oriented program quite a few years ago, was able to completely eradicate two very dangerous horse diseases - dourine and glanders. Since that time, with the exception of equine encephalitis, Montana has been relatively free of serious horse disease epidemics.

Montana veterinarians reported equine encephalitis in 57 horses on 54 Montana ranches during the fiscal year, compared to 23 horses and 22 ranches the previous fiscal year. The equine encephalitis virus affects man; therefore, the incidence of equine encephalitis is of public health significance.

SHEEP DISEASES

Internal and external parasites and infectious foot-rot continue to remain the most serious threats to the sheep industry. The Board's control programs for sheep lice and infectious foot-rot keep these two diseases from causing serious losses to the Montana sheep industry. It is thought that if a joint effort between the sheep industry and the Livestock Sanitary Board could be applied, these two diseases could be completely eliminated.

SWINE DISEASES

Montana was declared Hog Cholera-Free by the U. S. Department of Agriculture in 1964, culminating a 30-year effort to eradicate this most costly of swine diseases in Montana. Since that time, with good cooperation from the swine industry, Montana has been able to avoid reintroduction of the disease. These efforts must be sustained until the national eradication program succeeds in eliminating the disease from other areas in the United States.

A continual increase, the past few years, in the swine industry gives every indication that this industry will continue to grow. One of the great attractions to Montana is its comparative freedom from swine diseases. Although an increase in number portends an increase in disease problems, proper vigilance and care will avoid the threat of diseases impairing swine production.

POULTRY DISEASES

All breeding flocks supplying hatchery eggs were tested for pullorum-typhoid. There were 8,620 chickens tested revealing 4 reactors (0.04%). The extremely low incidence of pullorum-typhoid in breeding flocks has permitted a reduction of testing from 100% of each breeding flock to a random sample testing of 10% of each flock.

WILD ANIMAL DISEASES

For the first time since 1964, no rabies was reported in wildlife in Montana. A project to reduce the skunk population density in northeastern Montana was recommended by the Montana Livestock Sanitary Board and carried out through the cooperative efforts of the Montana Livestock Commission, the United States Bureau of Sports Fisheries and Wildlife and the Montana Fish and Game Commission in an effort to suppress the spread of this dread disease to other parts of Montana.

The Diagnostic Laboratory conducted rabies tests on 162 animals of 24 different species during the fiscal year. One cat, from Opheim, on June 11, 1970 was positive to the rabies tests.

OFFICIAL ANIMAL INSPECTIONS REPORT

<u>SPECIE</u>	<u>NUMBER</u>	<u>INSPECTED</u>
<u>Cattle</u>		
Inspected for interstate shipment.....	904,753	
Inspected at livestock auction markets.....	370,166	
Backtagged.....	194,499	
Bled for brucellosis tests.....	46,410	
<u>Tested for tuberculosis:</u>		
Beef cattle.....	17,971	
Dairy cattle.....	5,151	
Miscellaneous inspections.....	<u>16,219</u>	
Total Cattle.....		2,055,169
<u>Horses</u>		
Inspected for interstate shipment.....	4,850	
Inspected at livestock auction markets.....	5,534	
Miscellaneous inspections.....	<u>1,102</u>	
Total Horses.....		11,486
<u>Sheep</u>		
Inspected for interstate shipment.....	392,953	
Inspected at livestock auction markets.....	183,371	
Miscellaneous inspections.....	<u>41,341</u>	
Total Sheep.....		617,665
<u>Swine</u>		
Inspected for interstate shipment.....	934	
Inspected at livestock auction markets.....	138,052	
Miscellaneous inspections.....	<u>2,274</u>	
Total Swine.....		141,260
<u>Poultry</u>		
Inspected for interstate shipment.....	140	
Miscellaneous inspections.....	<u>9,699</u>	
Total Poultry.....		9,839
<u>Dogs and Miscellaneous Animals</u>		
Inspected for interstate shipment.....	7,223	
Miscellaneous inspections.....	<u>1,157</u>	
Total Dogs and Miscellaneous Animals.....		<u>8,380</u>
TOTAL OFFICIAL ANIMAL INSPECTIONS.....		<u>2,843,799</u>

ANIMALS IMPORTED INTO MONTANA

POINT OF ORIGIN	CATTLE	HORSES	SHEEP	SWINE	POULTRY	DOGS & MISC. ANIMALS	TOTAL
Alabama.....	150					1	151
Alaska.....		3				128	131
Arizona.....	1,990	91				25	2,106
Arkansas.....	35	9				20	64
California.....	4,444	73	5			89	4,611
Colorado.....	2,491	111	50			61	2,713
Florida.....	202					12	214
Georgia.....						3	3
Idaho.....	15,697	186	6,114	2,409		45	24,451
Illinois.....	55	7		9		16	87
Indiana.....	426	4	4			8	442
Iowa.....	99	7		29,154		30	29,290
Kansas.....	347	13	67			12	439
Kentucky.....		3				17	20
Louisiana.....	296						296
Maryland.....	2	2					4
Michigan.....	66	1				4	71
Minnesota.....	3,076	24	583	8,062		63	11,808
Mississippi....	891	5				2	898
Missouri.....	38					14	52
Nebraska.....	515	55	19	10,790		26	11,405
Nevada.....	85	10				14	109
New Jersey.....	10						10
New Mexico.....	265	43	7			4	319
New York.....						1	1
North Carolina..						2	2
North Dakota...	9,267	96	6,545	3,524		21	19,453
Ohio.....	2	5		6		4	17
Oklahoma.....	1,094	25				11	1,130
Oregon.....	635	178	2,645			94	3,552
Pennsylvania...	1			7			8
South Carolina..						1	1
South Dakota...	6,146	91	9,736	28,124		18	44,115
Tennessee.....						10	10
Texas.....	14,198	36	2,600			27	16,861
Utah.....	1,079	63	95	6		29	1,272
Vermont.....	1	3					4
Virginia.....		2				2	4
Washington.....	3,682	116	6,154	203		143	10,303
Wisconsin.....	3,242	18				47	3,307
Wyoming.....	24,764	278	7,982	94		35	33,153
<u>FOREIGN COUNTRIES</u>							
Canada.....	3,134	1,007	8,795	4,008	3,263	28	20,335
Mexico.....	4,505						4,505
TOTAL ANIMALS IMPORTED.....	102,930	2,565	51,401	86,401	3,363	1,067	247,727

OUT-OF-STATE BREEDERS HOLDING PERMITS TO IMPORT SEMEN FOR ARTIFICIAL INSEMINATION

Upon receipt and review of official health certificates on each individual sire, certifying to required tests and clinical inspections proving freedom from infectious or communicable diseases, an annual permit is issued to ship bovine semen into Montana to be used for artificial insemination. Annual permits were granted to the following during the fiscal year:

<u>BREEDING SERVICE</u>	<u>NUMBER OF SIRES</u>
All West Breeders	
Burlington, Washington.....	122
American Breeders Service, Inc.	
Madison & DeForest, Wisconsin.....	200
Cache Valley Breeding Association	
Logan, Utah.....	50
Carnation Farms Breeding Service	
Watertown, Wisconsin.....	1
Curtiss Breeding Service, Inc.	
Cary, Illinois.....	162
TOTAL BREEDING SERVICE PERMITS ISSUED.....	<u>535</u>

OUT-OF-STATE HATCHERYMEN HOLDING PERMITS TO IMPORT BABY CHICKS AND HATCHING EGGS

Upon certified proof of freedom from pullorum and other infectious diseases, annual permits were issued to 54 hatcheries, located in fourteen states and Canada, to ship baby chicks and hatching eggs into Montana during the fiscal year.

OFFICIAL INSPECTIONS MADE AT MONTANA LIVESTOCK AUCTION MARKETS

MARKET LOCATION	CATTLE	HORSES	SHEEP	SWINE	TOTAL
Billings Commission..	136,887	1,462	46,537	-0-	184,886
Billings Public.....	131,753	2,627	59,637	49,019	243,036
Bozeman.....	28,678	300	15,138	3,149	47,265
Butte.....	86,987	149	87	8,600	95,823
Dillon.....	11,520	7	16,714	5,820	34,061
Glasgow.....	46,973	178	2,732	26,730	76,613
Glendive.....	42,034	60	915	3,211	46,220
Great Falls.....	57,138	63	680	-0-	57,881
Hamilton.....	6,848	153	1,048	1,771	9,820
Havre.....	32,232	-0-	678	-0-	32,910
Kalispell.....	18,271	119	428	9,679	28,507
Lewistown.....	57,610	-0-	6,770	13,565	77,945
Miles City.....	33,458	95	471	1,669	35,693
Missoula.....	62,706	225	3,918	2,926	69,775
Shelby.....	14,149	19	18	-0-	14,186
Sidney.....	102,922	77	27,590	11,913	142,502
TOTAL INSPECTIONS....	870,166	5,534	183,371	138,052	1,197,123

GARBAGE FEEDING ESTABLISHMENTS

In accordance with Section 46-2602 (RCM 1947), 10 garbage feeding establishments were issued licenses during the fiscal year.

A total of 113 garbage feeding establishment inspections were made during the fiscal year with the cooperation of the United States Department of Agriculture.

DISEASE CONTROL DIVISION REPORT

MONTANA VETERINARIANS' ANNUAL DISEASE REPORT

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS		CATS	
	Cases	Herd	Cases	Herd	Cases	Herd	Cases	Herd	Cases	Flocks	Cases	Cases	Cases	
BACTERIAL DISEASES														
Actinomycosis-Bacillosis.....	2,116	1,436												
Bacillary hemoglobinuria.....	206	119												
Blackleg.....	153	153												
Caseous lymphadenitis.....	2	1			7	1								
Clostridium novyi.....	2	1			14	5								
" perfringens.....	2	1												
" sordelli.....	2	1												
Colibacillosis.....	106	2					101	1						
Diphtheria.....	29	21												
Distemper.....			677	348										
Edema, malignant.....	26	22	2	2										
Enteritis.....	883	56					15	2						
Enteritis, necrotic.....							5	1						
Enterotoxemia.....	161	27			99	36	7	1						
Erysipelas.....							349	59						
Foot-Rot.....					661	9								
Fowl Cholera.....									300	1				
Leptospirosis.....	163	41	1	1			13	3				102		
Listeriosis.....	7	6												
Mastitis.....	190	53												
Metritis.....														
Orchitis.....														
" 1					1	1								
Pneumoenteritis.....	10	1												
Pneumonia.....	241	9			9	4	204	3						
Ram epididymitis.....					31	23								
Tetanus.....	3	3	2	2	4	1								
Tuberculosis.....													58	3
Vibriosis.....	2,163	56			353	4								
TOTAL BACTERIAL DISEASES.....	6,463	2,008	682	353	1,729	84	696	71	358	4	102			-0-

DISEASE CONTROL DIVISION REPORT

Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS		CATS	
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases	Cases	
<u>NUTRITIONAL DISEASES</u>														
Atrophic rhinitis.....							82	37						
Grass tetany.....	6	6												
Hypocalcemia.....	16	8												
Photosensitization.....	4	2		1	2									
Folioencephalomalacia.....	30	5												
White Muscle Disease.....	11	11												
TOTAL NUTRITIONAL DISEASES.....	69	32	-0-	-0-	2	1	82	37	-0-	-0-	-0-	-0-	-0-	-0-
<u>PARASITIC DISEASES</u>														
Chorioptic scabies.....	2	1												
Helminthiasis.....	1,624	56			651	9								
Lungworms.....	1	1												
Pediculosis.....					2,054	45	2	1						
Sarcoptic scabies.....							113	3					1	
Stroncyloidosis.....														
TOTAL PARASITIC DISEASES.....	1,627	53	-0-	-0-	2,715	54	115	4	-0-	-0-	1	-0-	-0-	-0-
<u>POISONING</u>														
Lead.....	65	6												
Locoweed.....							2	1						
Nitrate.....	5	1												
TOTAL POISONING.....	70	7	-0-	-0-	-0-	-0-	2	1	-0-	-0-	-0-	-0-	-0-	-0-

DISEASE CONTROL DIVISION REPORT

Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS		CATS	
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases	Cases	
<u>PROTOZOAN DISEASES</u>														
Coccidiosis.....	3,160	406			8	1						9		
Enterohepatitis.....							10	1	3	1				
Eperythrozoonosis.....														
TOTAL PROTOZOAN DISEASES.....	3,160	406	-0-	-0-	8	1	10	1	3	1	9	-0-		
<u>VIRAL AND RICKETTSIAL DISEASES</u>														
Anaplasmosis.....	41	18			112	17						1,478		
Contagious ecthyma.....														
Distemper.....														
Encephalitis.....			57	54										
Enzootic Bovine Abortion.....	16	7	2	2										
Infectious anemia.....														
Infectious hepatitis.....												155		
Influenza.....			300	86			50	1						
Lip and Leg ulceration.....					315	2			4	2				
Leukosis.....														
Mucosal-Virus Diarrhea.....	481	75			6	5								
Posthitis.....														
Rabies.....														1
Rhinotracheitis.....	2,205	81												
Shipping fever.....	7,448	516												
Transmissible gastroenteritis....							150	3						
Vulvovaginitis.....	10	1												
Warts.....	58	41												
TOTAL VIRAL AND RICKETTSIAL DISEASES.....	10,259	739	359	142	433	24	200	4	4	2	1,633	1		

DISEASE CONTROL DIVISION REPORT

Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS		CATS	
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases	Cases	Cases
<u>UNKNOWN ETIOLOGY</u>														
Brisket edema.....	18	18												
Cancer eye.....	1,336	1,203												
Cerebellar hypoplasia.....	1	1												
Foot-Rot.....	1,043	168												
Hydrocephalus.....	3	2												
Infectious keratitis.....	1,033	101		7	506									
Lymphomatosis.....	1	1												
Mandibular phlegmon.....	3	3												
Pulmonary emphysema.....	356	241	1	1										
Urolithiasis.....	1,159	270			15	2								
TOTAL UNKNOWN ETIOLOGY.....	5,953	2,608	1	1	522	9	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
TOTAL ALL TYPES OF DISEASE.....	27,601	5,258	1,042	496	5,409	173	1,105	113	365	7	1,745			1

DAIRY & MILK INSPECTION PROGRAM

Services Provided. The Dairy & Milk Inspection Program, consisting of 4 full-time personnel and 1 part-time employee, makes approximately 1,500 individual inspections each year at approximately 390 licensed dairies and 25 licensed milk plants, including testing of equipment being used in the production and distribution of milk. The inspections and tests evaluate compliance with U. S. Public Health Service standards for sanitation and facilities, which standards have been officially adopted by the Livestock Sanitary Board.

Objectives. The Dairy & Milk Inspection Program objectives are to achieve compliance with Official Regulations of the Board to assure a safe and wholesome supply of fluid milk to consumers and assist the Montana dairy industry maintain sanitation and facilities standards acceptable to the U.S. Public Health Service to permit Montana-produced milk to enter into interstate commerce.

The objectives of this Program are supported by activity of the Disease Control Program involving the health of dairy cattle and the activity of the Diagnostic Laboratory Program involving testing of milk and milk products for maintenance of a disease-free, safe product.

Target Groups. Consumers of Montana-produced milk and milk products and the Montana dairy industry.

Achievements. During the fiscal year there were no milk-borne disease outbreaks among consumers of Montana-produced milk and milk products under the inspection services of the Dairy & Milk Inspection Program.

All Montana milk plants in Montana maintained facilities and sanitation standards sufficient to qualify for shipment of their products into interstate commerce through compliance with U. S. Public Health Service standards and Livestock Sanitary Board Official Regulations.

Summary reports are presented on the following pages to reflect the specifics of dairy and milk inspection activities.

Cost and Performance Summary. The following data is presented in summary form. Additional supporting data is available upon request.

FISCAL YEARS.....		
	Historic	Current	Projected
	<u>1968/69</u>	<u>1969/70</u>	<u>1970/71</u>
COST.....	<u>\$49,609</u>	<u>\$51,293</u>	<u>\$52,986</u>

PERFORMANCE:

State-wide sanitation and facilities inspection services are maintained by this Program on all Montana milk plants and dairies which produce milk and cream for those milk plants.

OFFICIAL INSPECTIONS AND LABORATORY TESTS
OF
MILK, MILK PRODUCTS, DAIRIES AND MILK PLANTS

OFFICIAL INSPECTIONS AND LABORATORY TESTS	NUMBER
Antibiotic detection tests.....	4,697
Bacterial counts.....	4,522
<u>Brucella abortus</u> ring tests.....	3,810
<u>Chemical Analyses:</u>	
General chemical.....	1,935
Wisconsin Mastitis Tests.....	<u>2,614</u>
Total Chemical Analyses.....	4,599
Coliform tests.....	4,743
Dairy inspections.....	1,322
Distributor facilities inspections.....	87
Milk plant equipment tests.....	96
Milk plant facilities inspections.....	128
Milk tank trucks inspections.....	36
Pesticide residue analyses.....	234
Tuberculosis tests.....	<u>5,151</u>
<u>TOTAL OFFICIAL INSPECTIONS AND LABORATORY TESTS.....</u>	<u>29,425</u>

RETAIL RAW DAIRIES SANITATION COMPLIANCE RATINGS
WITH
MONTANA LIVESTOCK SANITARY BOARD REGULATIONS

RETAIL RAW DAIRY CODE NUMBER	POUNDS SOLD DAILY	DAIRY SCORE
R-1.....	125.....	97%
R-2.....	900.....	100%
R-15.....	450.....	88%
R-21.....	300.....	91%
R-25.....	200.....	96%
R-32.....	180.....	89%
R-33.....	200.....	94%
R-34.....	700.....	95%
R-35.....	<u>1,900.....</u>	<u>89%</u>
<u>TOTALS.....</u>	<u>4,955.....</u>	<u>93%</u>

MILK PLANT SANITATION COMPLIANCE RATINGS
WITH
MONTANA LIVESTOCK SANITARY BOARD REGULATIONS

MILK PLANT CODE NUMBER	POUNDS SOLD DAILY	PLANT SCORE	PRODUCER'S SCORE	PASTEURIZED MILK RATING
25-1.....	26,000.....	95%.....	92%.....	94%
25-2.....	57,000.....	94%.....	92%.....	93%
25-8.....	1,200.....	90%.....	93%.....	92%
25-10.....	91,000.....	96%.....	91%.....	94%
25-13.....	240.....	96%.....	96%.....	96%
25-15.....	900.....	93%.....	95%.....	94%
25-16.....	44,000.....	93%.....	94%.....	94%
25-18.....	43,000.....	92%.....	92%.....	92%
25-19.....	17,000.....	95%.....	88%.....	92%
25-20.....	15,000.....	93%.....	94%.....	94%
25-21.....	46,000.....	91%.....	92%.....	92%
25-25.....	26,000.....	92%.....	94%.....	93%
25-30.....	26,000.....	92%.....	93%.....	93%
25-31.....	25,000.....	90%.....	91%.....	91%
25-32.....	59,000.....	92%.....	93%.....	93%
25-33.....	1,900.....	95%.....	93%.....	94%
25-36.....	600.....	95%.....	95%.....	95%
25-38.....	58,000.....	99%.....	92%.....	96%
25-39.....	12,000.....	96%.....	92%.....	94%
25-40.....	15,000.....	98%.....	93%.....	96%
25-43.....	1,100.....	88%.....	90%.....	89%
25-46.....	500.....	88%.....	-0-.....	-0-
25-47.....	57,000.....	95%.....	91%.....	93%
25-49.....	1,200.....	93%.....	-0-.....	-0-
TOTALS.....	624,640.....	93%.....	93%.....	93%

MEAT INSPECTION PROGRAM

Services Provided. The Meat Inspection Program, consisting of 6 full-time Veterinary Meat Inspectors, 17 full-time Lay Meat Inspectors, 1 Secretary and the equivalent of 1½ part-time Veterinary Meat Inspectors, provides state-wide inspection on meat, meat-food products and establishment facilities at 26 Meat Packing Houses and 28 Slaughterhouses in Montana which offer meat and meat-food products for sale for human consumption.

Objectives. The Meat Inspection Program objectives are to achieve state-wide compliance with Official Regulations of the Board and the Montana Meat Inspection Laws to assure a safe and wholesome supply of meat and meat-food products for Montana consumers; and achieve the required certification that the State of Montana meat inspection system is "equal to" the meat inspection system of the U. S. Department of Agriculture Consumer & Marketing Service by December 15, 1970.

Target Groups. Consumers of meat and meat-food products.

Achievements. During the fiscal year, 51,532 animals (20,991,565 lbs.) were slaughtered under official state meat inspection. Twenty-four diseases and miscellaneous other conditions were found in animals which caused 246,185 pounds of meat and/or meat-products to be rejected and condemned as unfit for human consumption. During the fiscal year, 321 official establishment inspections were made on meat depots, meat packing houses, slaughterhouses and rendering plants.

Summary reports are presented on the following pages to reflect the specifics of meat inspection activities.

Cost and Performance Summary. The following data is presented in summary form. Additional supporting data is available upon request.

FISCAL YEARS.....		
	Historic	Current	Projected
	<u>1968/69</u>	<u>1969/70</u>	<u>1970/71</u>
COST.....	<u>\$142,712</u>	<u>\$221,692</u>	<u>\$262,496</u>

PERFORMANCE:

As of June 30, 1970, 54 slaughtering and meat processing establishments had met sanitation and facilities requirements and had been granted official state meat inspection.

OFFICIAL ESTABLISHMENT INSPECTIONS

<u>TYPE OF ESTABLISHMENT</u>	<u>NUMBER OF INSPECTIONS</u>
Meat Depots.....	3
Meat Packing Houses.....	109
Poultry Slaughterhouses.....	3
Rendering Plants.....	24
Slaughterhouses.....	175
Slaughterhouses - Rabbit.....	<u>2</u>
<u>TOTAL OFFICIAL ESTABLISHMENT INSPECTIONS.....</u>	<u>321</u>

ESTABLISHMENTS UNDER OFFICIAL STATE MEAT INSPECTION

<u>ESTABLISHMENT NAME</u>	<u>LOCATION</u>	<u>ESTABLISHMENT NO.</u>
<u>Meat Packing Houses</u>		
Amy's Sausage Kitchen.....	Butte.....	55
Arctic Lockers.....	Kalispell.....	37
Ben's H & H Market.....	Missoula.....	29
Buck's Meat Processing & Sales.....	Broadus.....	45
Christensen's Wholesale Meats.....	Missoula.....	39
Diamond Bar Meats.....	Missoula.....	38
Excelsior Meat Market.....	Butte.....	57
Great Falls Meat Co.....	Great Falls.....	36
Hickory Kitchen.....	Great Falls.....	31
K & C Meat Supply.....	Missoula.....	40
Kim's Meats.....	Rollins.....	54
M & P Meat Company, Inc.....	Great Falls.....	34
Maddison Meats.....	Sheridan.....	41
Manhattan Meat Market.....	Manhattan.....	52
Marchello's I.G.A.....	Red Lodge.....	51
Montana Meat Company.....	Helena.....	5
Northside Locker Plant, Inc.....	Billings.....	53
Pioneer Products, Inc.....	Billings.....	42
Riley's Meats.....	Butte.....	56
Snowy Mountain Meats.....	Lewistown.....	33
Spear Meat Company.....	Billings.....	50
Terminal Food Center, Inc.....	Butte.....	30
Tower Meats.....	Helena.....	58
Triplett Meats.....	Kalispell.....	35
Valley Distributors, Inc.....	Billings.....	32
Your Food Bank.....	Billings.....	43

Slaughterhouses

*Biastoch Meats, Inc.....	Butte.....	13
Brooke Processing Plant.....	Whitehall.....	28
City Meat Company.....	Wolf Point.....	25
*Far Mountain Meats.....	Ennis.....	19
*Hamilton Packing Company.....	Hamilton.....	47
Hardin Meat Market.....	Hardin.....	20
*Havre Abattoir.....	Havre.....	12
*Kalispell Meat Company.....	Kalispell.....	9
Marias Packing Company.....	Shelby.....	17
*Mickey's Packing Plant.....	Great Falls.....	18
*Miles City Packing Company.....	Miles City.....	26
*Montana Meat Market.....	Red Lodge.....	2
Montana State Prison.....	Deer Lodge.....	4
Montana State University.....	Bozeman.....	23
*Rahr Meat Service.....	Glendive.....	90
*Rick's Packing Plant.....	Livingston.....	10
*Roberts Packing Plant.....	Dillon.....	16
*Rocky Mountain Packing Co., Inc.....	Havre.....	21
*Schramm Packing Company.....	Missoula.....	3

(Continued)

Establishments Under Official State Meat Inspection (Continued)

<u>ESTABLISHMENT NAME</u>	<u>LOCATION</u>	<u>ESTABLISHMENT NO.</u>
*Seitz-Bowers Processing Plant.....	Roundup.....	48
Stanford Meat Market.....	Stanford.....	11
*Timberland Packing Corporation.....	Lewistown.....	22
*Tolman's Meat Company.....	Hamilton.....	46
Triangle Packing Co.....	Choteau.....	27
*Valley Meat Packing Company.....	Sidney.....	24
*Vandevanter Meats.....	Columbia Falls.....	7
Vollmer & Sons, Inc.....	Bozeman.....	14
White's Meat Processing.....	Ronan.....	15

*Also does meat processing.

ESTABLISHMENTS UNDER FEDERAL MEAT INSPECTION

<u>ESTABLISHMENT NAME</u>	<u>LOCATION</u>	<u>ESTABLISHMENT NO.</u>
<u>Meat Depot</u>		
Safeway Stores, Inc.....	Butte.....	2440
<u>Meat Packing Houses</u>		
4B's Wholesale Supply, Inc.....	Missoula.....	2480
Montana Smokehouse, Inc.....	Kalispell.....	2490
Swift & Co.....	Billings.....	2493
Truzzolino Food Products.....	Butte.....	1291
<u>Slaughterhouses</u>		
Bonanza Packing Co., Inc.....	Helena.....	1475-A
Great Falls Meat Co.....	Great Falls.....	301
John R. Daily, Inc.....	Missoula.....	2480
Midland Empire Packing Co.....	Billings.....	339
Pierce Packing Co.....	Billings.....	691

POUNDS OF MEAT AND/OR MEAT BY-PRODUCTS PROCESSED
UNDER STATE MEAT INSPECTION

TYPE OF PROCESSING	POUNDS
<u>Placed in Cure</u>	
Beef.....	18,046
Pork.....	628,524
Other.....	2,644
<u>Smoked and/or Dried</u>	
Beef.....	13,189
Pork.....	576,425
<u>Sausage -- Fresh Finished.....</u>	474,428
<u>Sausage -- Smoked or Cooked</u>	
Franks, Wieners, Bologna.....	719,868
Other.....	193,081
<u>Loaf</u>	
Head Cheese; Chili; Jellied Product; Imitation Sausage.....	208,668
<u>Steak; Chops; Roasts; Boneless Cuts.....</u>	4,767,188
<u>Sliced Product</u>	
Bacon.....	72,297
Other.....	23,790
<u>Hamburger.....</u>	1,817,161
<u>Frozen & Unfrozen -- Specialty Items.....</u>	670,918
<u>Lard -- Rendered.....</u>	258,291
<u>Edible Tallow.....</u>	21,204
<u>Compound Containing Animal Fat.....</u>	76,050
<u>Boneless Beef.....</u>	1,455,484
<u>Pork Cut.....</u>	1,452,823
<u>Beef -- Wholesale Cuts.....</u>	4,703,473
<u>Poultry -- Cut Up.....</u>	142,393
<u>TOTAL POUNDS PROCESSED.....</u>	<u>18,295,945</u>

MEAT AND MEAT BY-PRODUCTS REINSPECTED AND REJECTED
UNDER STATE MEAT INSPECTION

ITEM	POUNDS
Reinspected Meat and/or Meat By-Product.....	13,314,688
Rejected Meat and/or Meat By-Product.....	89,281
<u>TOTAL POUNDS REINSPECTED AND REJECTED.....</u>	<u>13,403,969</u>

ANIMALS SLAUGHTERED UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE	STATE	FEDERAL
	Pounds	Number	Number
Cattle.....	16,947,006	28,774	171,007
Calves.....	51,622	487	19
Sheep.....	63,000	1,260	142
Swine.....	3,929,057	21,011	205,257
TOTAL.....	20,991,565	51,532	457,305

WHOLE CARCASSES FOUND UNFIT FOR HUMAN CONSUMPTION
UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE	STATE	FEDERAL
	Pounds	Number	Number
Cattle.....	41,230	70	497
Calves.....	424	4	-0-
Sheep.....	50	1	1
Swine.....	6,171	33	300
TOTAL.....	47,875	108	306

PARTS OF CARCASSES FOUND UNFIT FOR HUMAN CONSUMPTION
UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE	STATE	FEDERAL
	Pounds	Number	Number
Cattle.....	4,116	2,058	16,846
Calves.....	20	10	10
Sheep.....	612	306	119
Swine.....	3,442	3,442	49,600
TOTAL.....	8,190	5,816	66,655

BEEF AND SWINE LIVERS FOUND UNFIT FOR HUMAN CONSUMPTION
UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE	FEDERAL
Beef.....	7,599	50,353
Swine.....	3,283	39,721
TOTAL.....	15,882	90,074

DIAGNOSES OF WHOLE CARCASSES CONDEMNED AT SLAUGHTER
UNDER STATE MEAT INSPECTION

DIAGNOSIS	CATTLE	CALVES	SHEEP	SWINE
Abscesses-Pyemia.....	9	0	0	12
Adhesions.....	2	0	0	0
Anasarca.....	6	1	0	0
Arthritis-Polyarthritis.....	0	2	0	9
Bruises, injuries, etc.....	4	0	0	1
Cachexia.....	2	0	0	0
Caseous lymphadenitis.....	0	0	1	0
Contamination.....	1	0	0	0
Emaciation.....	7	0	0	3
Enteritis-Gastritis-Peritonitis.....	3	0	0	1
Epithelioma.....	7	0	0	0
Icterus.....	0	0	0	2
Malignant lymphoma.....	1	0	0	0
Nephritis-Pyelitis.....	3	0	0	0
Pericarditis.....	4	0	0	0
Pneumonia.....	3	1	0	4
Septicemia-Toxemia.....	9	1	0	3
Uremia.....	6	0	0	1
Miscellaneous.....	3	0	0	0
TOTAL WHOLE CARCASSES CONDEMNED.....	70	5	1	36

DIAGNOSES OF BEEF LIVERS CONDEMNED AT SLAUGHTER
UNDER STATE MEAT INSPECTION

DIAGNOSIS	NUMBER
Abscesses.....	4,467
Carotinosiis.....	4
Cirrhosis.....	41
Contamination.....	213
Distomiasis.....	1,857
Echinococcosis.....	1
Sawdust.....	192
Telangiectasis.....	334
Miscellaneous.....	450
TOTAL BEEF LIVERS CONDEMNED.....	7,599

DIAGNOSES OF PARTS OF CARCASSES CONDEMNED AT SLAUGHTER
UNDER STATE MEAT INSPECTION

DIAGNOSIS	CATTLE	CALVES	SHEEP	SWINE
Abscesses-Pyemia.....	419.....	1.....	7.....	754
Actinomycosis-Actinobacillosis.....	135.....	0.....	0.....	3
Adhesions.....	68.....	0.....	0.....	134
Anasarca.....	3.....	0.....	0.....	4
Arthritis-Polyarthritis.....	14.....	0.....	0.....	20
Bruises, injuries, etc.....	510.....	3.....	4.....	700
Contamination.....	818.....	1.....	22.....	1,311
Cysticercosis.....	0.....	0.....	0.....	1
Epithelioma.....	43.....	0.....	0.....	0
Livers, miscellaneous lesions.....	0.....	4.....	272.....	8,283
Malignant lymphoma.....	1.....	0.....	0.....	0
Melanosis.....	1.....	0.....	0.....	0
Nephritis-Pyelitis.....	7.....	0.....	0.....	10
Pericarditis.....	29.....	1.....	1.....	169
Pneumonia.....	1.....	0.....	0.....	0
Presternal calcification.....	3.....	0.....	0.....	0
Septicemia-Toxemia.....	0.....	0.....	0.....	1
Tuberculosis.....	3.....	0.....	0.....	318
Uremia.....	0.....	0.....	0.....	6
Miscellaneous.....	3.....	0.....	0.....	11
TOTAL PARTS OF CARCASSES CONDEMNED.....	2,058.....	10.....	306.....	11,725

SUMMARY OF ALL PROGRAMS
1969/70 Fiscal Year

PROGRAM

Administration.....	\$ 65,894
Diagnostic Laboratory.....	128,867
Disease Control.....	112,422
Dairy & Milk Inspection.....	51,293
Meat Inspection.....	<u>221,692</u>
TOTAL PROGRAM.....	\$580,168

OBJECT OF EXPENDITURE

Personal Services.....	\$469,509
Operation.....	35,605
Capital.....	14,999
Grants & Benefits.....	<u>10,055</u>
TOTAL OBJECT OF EXPENDITURE.....	\$580,168

SOURCE OF FUNDING

General Fund.....	\$237,243
Earmarked Revenue Fund, Livestock Sanitary Board Account 215100.....	255,167
Earmarked Revenue Fund, Livestock Sanitary Board Account 215000.....	55
Federal & Private Revenue Fund.....	<u>87,703</u>
TOTAL SOURCE OF FUNDING.....	\$580,168

PROGRAM COSTS BY OBJECT OF
EXPENDITURE AND SOURCE OF FUNDING
1969/70 Fiscal Year

ADMINISTRATIONOBJECT OF EXPENDITURE

Personal Services.....	\$ 44,694
Operation.....	10,657
Capital.....	488
Grants & Benefits.....	<u>10,055</u>
<u>TOTAL OBJECT OF EXPENDITURE.....</u>	<u>\$ 65,894</u>

SOURCE OF FUNDING

General Fund.....	\$ 29,080
Earmarked Revenue Fund, Livestock Sanitary Board Account 215100.....	36,759
Earmarked Revenue Fund, Livestock Sanitary Board Account 215000.....	<u>55</u>
<u>TOTAL SOURCE OF FUNDING.....</u>	<u>\$ 65,894</u>

DIAGNOSTIC LABORATORYOBJECT OF EXPENDITURE

Personal Services.....	\$ 93,246
Operation.....	27,805
Capital.....	<u>7,816</u>
<u>TOTAL OBJECT OF EXPENDITURE.....</u>	<u>\$128,867</u>

SOURCE OF FUNDING

General Fund.....	\$ 58,611
Earmarked Revenue Fund, Livestock Sanitary Board Account 215100.....	<u>70,256</u>
<u>TOTAL SOURCE OF FUNDING.....</u>	<u>\$128,867</u>

PROGRAM COSTS BY OBJECT OF
EXPENDITURE AND SOURCE OF FUNDING
1969/70 Fiscal Year

D I S E A S E C O N T R O L

OBJECT OF EXPENDITURE

Personal Services.....	\$ 98,117
Operation.....	12,746
Capital.....	<u>1,559</u>
TOTAL OBJECT OF EXPENDITURE.....	\$112,422

SOURCE OF FUNDING

General Fund.....	\$ 48,465
Earmarked Revenue Fund, Livestock Sanitary Board Account 215100.....	<u>63,957</u>
TOTAL SOURCE OF FUNDING.....	\$112,422

D A I R Y & M I L K I N S P E C T I O N

OBJECT OF EXPENDITURE

Personal Services.....	\$ 38,194
Operation.....	9,997
Capital.....	<u>3,102</u>
TOTAL OBJECT OF EXPENDITURE.....	\$ 51,293

SOURCE OF FUNDING

General Fund.....	\$ 19,903
Earmarked Revenue Fund, Livestock Sanitary Board Account 215100.....	<u>31,390</u>
TOTAL SOURCE OF FUNDING.....	\$ 51,293

PROGRAM COSTS BY OBJECT OF
EXPENDITURE AND SOURCE OF FUNDING
1969/70 Fiscal Year

MEAT INSPECTION

<u>OBJECT OF EXPENDITURE</u>	
Personal Services.....	\$195,258
Operation.....	24,400
Capital.....	<u>2,034</u>
TOTAL OBJECT OF EXPENDITURE.....	\$221,692

<u>SOURCE OF FUNDING</u>	
General Fund.....	\$ 81,184
Earmarked Revenue Fund, Livestock Sanitary Board Account 215100.....	52,805
Federal & Private Revenue Fund.....	<u>87,703</u>
TOTAL SOURCE OF FUNDING.....	\$221,692

