UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 45-R-0001 CUSTOMER NUMBER: 1557

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

University Of North Dakota Center For Biomedical Research Box 9001 Grand Forks, ND 58202

Telephone: (701) -777-4493

3. REPORTING FACILITY (List all locations where enimals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfere Regulations		Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analysisic, or tranquilizing drugs were used.	E.	Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilizings would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
4. Dogs									
5. Cats									
c. Guinea Pigs									
7. Hamsters					1		 		
8. Rabbits		!					 		
9. Non-human Primates									
10. Sheep									
11. Pigs	<u> </u>								
12. Other Farm Animals							<u> </u>		
13. Other Animals				***************************************	 				
* THE FACI	LIT	y has hou	ED	ONLY THE	FO]	LLOWING ANIMALS		MICE.RATS.& CHICKENS	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservations. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications and investigations. In addition to identifying the IACUC-approved exceptions, this summary in the IACUC-approved exceptions, this summary in the IACUC-approved exceptions. brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequale veterinary care and to oversee the adequacy of a second control of the control	other aspects of animal care and use.
CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL	
(Chief Executive Officer or Legally Responsible Institutional Official)	
	DATE SIGNED
	_

See attached form for additional information,

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CHRIDICATE NUMBER: 45-R-0001 CUSTOMER NUMBER: 1557

FORM APPROVED QMB NO. 0579-0034

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

University Of North Dekote Center For Biomedical Research

Box 9001 Grand Forks, ND 58202

Telephone: (701)-777-4493

3. REPORTING FACILITY (List all locations where entirels were housed ar used in extent research, testing, or experimentation, or held for frame purposits. Althors additional shoets if recessory)

FACILITY LOCATIONS (Stars) - See Alected Listing

REPORT OF ANIMALS L	J\$ED I	Y OR UNDER	ONT	ROL OF RESEARC	ЖF	ACILITY (Attach additional	sk	ets if macesaury or use APHS Form 7023A 1	
A., Animals Covered By The Animal Welfare Regulations	8. N	tumber of animal sing bred, andfaned, or sid for use in secreta, testing, seconds, or superineris, seconds, or supery but not ye sed for such supposets.		Number of animals upon which teaching, research, ampairments, or tools were conducted involving on pain, claimen, or use or peln-citioning drugs.	_	Number of entents upon which experiments, teaching, research, surgery, or teats work conducted involving accompanying pain or delmas to the entents an for which appropriate ensetheds, needgesic, or trunguilizing drups were used.		Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving econographing pain or detrains to the entends and for whithe use of appropriate anesthetic, analysis, or insequality animals, and the procedures, or interpretation of the teaching, recearch, experiments, surgery, or tests. (An organisation of the procedures producing pain or distress in these salmets and the reservanch drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLLIMENS C+D+E)
4. Dogs									
5. Cets							_		
6. Guines Pigs									
7. Harmiers						•			
s. Rabbits									
9. Non-human Primates									
10. Sharep							_		
11. Pigs									
12. Other Farm Animais			Τ				L		
			T						
13. Other Animals			I			,			
			T				L		
* THE FACI	LIT	Y HAS FOI	E	ONLY THE	FC	LLOWING ANIMAL!	:	MICE RATS & CHICKENS	
			上				-		

ASSURANCE STATISHENTS

- Professionally acceptable standards governing the care, treatment, and use of entirets, including appropriate use of anastesio, analgadic, and tranquilizing drups, prior to, during, and following actual research teaching, testing, surgery, or exportmentation users followed by this research feeling.
- 2) Each principal investigator has considered elemethes to painful procedures.
- 3) This facility is adhering to the standards and required the Act, and it has required that exceptions to the standards and required by the principal investigator and age institution of Action and Use Committee (IACLIC). A summary of all such exceptions is attached to this amount report. In addition to identifying the IACLIC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and national affection.

4) The stonding valurination for this research facility has approprieto subscriby to around the provision of adequate valurinary care and to prevand the adequately of cases.	Tabean a sulas	COME SERVICES
CERTIFICATION BY HEADCHARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Difficer of Logally Responsible Institutional Official)		
		DATE SIGNED
	2	
		DATE SIGNIO

* ID: 1557

501 North Columbia Road Grand Forks, ND 58202 County: Grand Forks Telephone (701)777-4493

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 45-R-0002 CUSTOMER NUMBER: 1565

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

North Dakota State University Po Box 5756 Ndsu Station Fargo, ND 58105

Telephone: (701) -231-8114

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Attached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, resperch, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate enesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate enesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	F. TOTAL NUMBEI OF ANIMALS (COLUMNS C + D + E)
4. Dogs	15				
5. Cats	22				-
6. Guinea Pigs	2				· · · · · · · · · · · · · · · · · · ·
7. Hamsters	2				
8. Rabbits	4				
9. Non-human Primates	0				
I0. Sheep		648	127		776
1. Pigs		1068			1068
12. Other Farm Animals					
Cattle	564		38		38
3. Other Animals					
Gerbils	3				
Hedgehogs	1				
Chinchilla	1				

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserves teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applicational Animat Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other espects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 45-R-0002

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT
OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code).

North Dakota State University PO Box 5756 NDSU Station Fargo ND 58105

Telephone: (701) 231-8114

EPORT OF ANIMALS USED BY OF			(Milecit Guidinovial Streets il Ne		
Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (List by species)	Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying poin or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or leats were conducted involving accompanying pain or distress to the animals and for which the use of appropriate enesthetic, analgesic, or tranquilizing drugs would have adversely attected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these enimals and the reasons such drugs were not used, must be attached to this report).	TOTAL NO. OF ANIMAL (Cols. C D + E)
Horses	2				
5 · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		7.74		
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· · · · · · · · · · · · · · · · · · ·					
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- 1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the listitutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & THE E OF CEO OF INSTITUTIONAL CENTRAL C.

DATE SIGNED



Customer ID and Site Address:

ID: 1565

1735 NDSU Research Park Drive Fargo, ND 58105-5756

County: Cass

Telephone: (701) 231-8114

University Post Office Address:

PO Box 5756 University Station Fargo, ND 58105

County: Cass

Telephone: (701) 237-9132

Animal Facility Locations:

Robinson Hall - dogs, cats, rabbits, guinea pigs, hamsters, gerbils, chinchilla, hedgehog

Sheep Barn - sheep

Hog Barn - swine

Beef Barn - cattle

Pole Barn and Rodeo Stables - horses

Animal Nutrition & Physiology Center - sheep, cattle, swine

See attached form for additional information.

Interagency Report Control No.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 45-R-0004 CUSTOMER NUMBER: 1616 FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

St Alexius Medical Center 900 E Broadway Bismarck, ND 58502

Telephone: (701) -224-7000

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Attached Listing

Animals Covered By The Animal Welfare Regulations	B.	Number of animal being bred, conditioned, or held for use in teaching, besting, experiments, research, or surgery but not ye used for such purposes.	C.	Number of animals upon which teaching, research, experiments, or lests were conducted involving no pain, distress, or use or pain-relieving drugs,	D.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analyzesic, or tranquilizing drugs were used.	the use or appropriate antestriatic, analgesic, or transputz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures	OTAL NO OF ANK COLU C + D
4. Dogs						0		
5. Cats				<u> </u>				
6. Guinea Pigs						, , , , , , , , , , , , , , , , , , ,		
7. Harnsters								
8. Rabbits								
9. Non-human Primates								
10. Sheep						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
11. Pigs		· · · · · · · · · · · · · · · · · · ·				M		
12. Other Farm Arrimals								
13. Other Animals			-			×		-
						1 1		

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesteric, analgesic, and tranquilizing drugs, prior to, during, and following actual teaching, testing, surgery, or experimentation were followed by this research facility.
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- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other separcts of animal care and use

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

DATE SIGN