

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE  <b>ANNUAL REPORT OF RESEARCH FACILITY</b> ( TYPE OR PRINT )	1. CERTIFICATE NUMBER: 46-R-0002 CUSTOMER NUMBER: 1561	FORM APPROVED OMB NO. 0579-0036
South Dakota State University Admin 130 Brookings, SD 57007  Telephone: (605)-688-4181		

**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

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY** ( Attach additional sheets if necessary or use APHIS Form 7023A )

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 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 pain or distress to the animals an for which appropriate anesthetic, 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. ( An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS ( COLUMNS C + D + E )
4. Dogs	1	1			1
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep	277	403	80	0	483
11. Pigs	400	1,342	44	343	1,729
12. Other Farm Animals					
Cattle	882	1,817	126	8	1,951
13. Other Animals					
Antelope	0	0	0	88	88
Bats	0	58	0	0	58
Canada Geese	0	100	0	0	100

**ASSURANCE STATEMENTS**

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese- 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 app- Institutional 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 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 aspects of animal care and use.

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

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL ( Type or Print )	DATE SIGNED <i>11/22/02</i>
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**Location of Animal Facilities  
South Dakota State University**

<b>Department</b>	<b>Building</b>
1. College of Pharmacy	Pharmacy
2. Station Biochemistry	Animal and Range Sciences
3. Biology and Microbiology	Animal and Range Sciences Physiology Laboratory
4. Psychology	Scobey Hall
5. Wildlife and Fisheries	Wildlife and Fisheries Sciences Northern Plains Biostress Laboratory
6. Veterinary Science	Animal Isolation Units
7. Department of Dairy Science	Dairy Unit
8. Department of Animal & Range Sciences	Animal Science Units
9. Veterinary Science	Animal Research Wing

Registration Number	Number of Animals	Species	Procedure	Scientific justification	Agency
01-A020	32	Pigs	Animals were subjected to experimental challenge with diarrheogenic bacteria to determine whether the animals were protected from infection by so-called natural antibodies.	Behavioral response to challenge, including anorexia, is a major indicator of infection and would have been compromised by medication.	
01-A034	6	Pigs	Six pregnant gilts at 85 to 90 days gestation are divided into two groups and one group is challenged with PRRSV and one will be sham inoculated. Gilts are euthanized prior to farrowing and tissues are collected from gilts and viable fetuses for PCR and virus isolation for PRRSV.	Live animals are necessary to study the effects to the pig fetus from a virulent challenge with PRRSV. No in vitro system can mimic the reproductive effects of this virus. This reproductive challenge model is necessary to evaluate the effects of future therapeutic interventions against this virus.	
01-A035	48	Deer	Forty adult female white-tailed deer and forty adult female mule deer will be collected using a high-powered rifle to assess nutritional condition of wild, deer populations in the southern Black Hills region of South Dakota. Morphological (body weights), physiological (fat characteristics) and blood indices (Blood urea nitrogen, creatinine) will be determined to assess condition of deer. Sample size of deer is based on a power analysis, which indicated that 10 deer/species (2)/season (2)/year (2) gave adequate power (power = 0.65) for rejected null hypotheses.	There is no alternative method available for this study. Collecting large mammals (e.g. deer) with a high-powered rifle is recommended as a humane form of collection by the American Society of Mammalogists (Ad hoc committee on acceptable field methods in mammalogy [1987] Acceptable field methods in mammalogy: preliminary guidelines approved by the American Society of Mammalogists. J. Mamm. 68(4): 6-7.)	

02-A001	65	Antelope	<p>Thirty adult female pronghorns will be captured in Harding and Fall River counties in January 2002 and 2003, respectively. In addition, twenty pronghorn kids will be captured in Harding and Fall River counties in May 2002 and 2003 respectively. All animals will be fitted with mortality sensing radio collars for use in determining seasonal movements, survival and cause specific mortality rates, and estimating home range size. Radio-collared adults also will be used to evaluate aerial census techniques and visibility biases associated with aerial surveys. Adult pronghorns will be captured by a helicopter capture service using a 0.308 caliber net gun. Animals will be subjected to the noise of the helicopter and physiological stress as a result of being restrained/handled by helicopter personnel, SDSU and GFP researchers. Animals also will be transported through the air to predetermined processing sites. All animals will be subjected to pain as needles will be injected subcutaneously and into blood vessels to administer antibiotics and collect blood samples, respectively.</p>	<p>All procedures to be used comply with the American society of Mammalogists "Acceptable Field Methods in Mammalogy: Preliminary Guidelines Approved by the American Society of Mammalogists." Live animals are necessary to study populations, range, seasonal movements and mortality estimates.</p>	
02-A002	23	Antelope	<p>Twenty adult female pronghorns will be captured in Wind Cave National Park in January 2002. In addition, ten pronghorn kids will be captured in Wind Cave National Park in May 2002. All animals will be fitted with mortality sensing radio collars for use in determining seasonal movements, survival and cause specific mortality rates, and estimating home range size. Radio-collared adults also will be used to evaluate aerial census techniques and visibility biases associated with aerial surveys. Blood samples will be collected from animals to evaluate genetic viability of the population.</p>	<p>All procedures to be used comply with the American society of Mammalogists "Acceptable Field Methods in Mammalogy: Preliminary Guidelines Approved by the American Society of Mammalogists." Live animals are necessary to study populations, range, seasonal movements and mortality estimates.</p>	
02-A009	11	Pigs	<p>Animals were subjected to experimental challenge with diarrheogenic bacteria to determine whether the animals were protected from infection by so-called natural antibodies.</p>	<p>Behavioral response to challenge, including anorexia, is a major indicator of infection and would have been compromised by medication.</p>	

02-A017	8	Cows	To determine if the isoflavones have any protective effect, the animals must be challenged with BVDV. The animals will be challenged with NY-1 strain of BVDV virus obtained from the Research Virology Laboratory, Animal Disease Research and Diagnostic Laboratory (ADRDL). South Dakota State University (SDSU). The animals will be challenged on Day 7 of the trial.	The goal of this project is to use natural soybean products to prevent and/or reduce the severity of viral diseases in cattle and swine. To determine this we need to use livestock. The intent of this pilot proposal is to determine if there is any effect not necessarily a significant effect on reduction in BVDV.	
02-A028	95	Pigs	Approximately four weeks after initiation of dietary treatments (7 weeks of age), animals in treatment groups 2, 3, 4, & 5 will be inoculated (challenged) with an oral dose (via stomach tube) of intestinal homogenate obtained from infected porcine intestines containing <i>Lawsonia intracellularis</i> at a rate of approximately $10^8$ (approximately 10% dilution).	Since we are trying to determine if the field observations reporting that DDGS is effective in controlling ileitis are correct, we need to challenge the pigs with an appropriate dose of <i>Lawsonia intracellularis</i> so we can quantify the pig's response to a field strain and dose.	
97-A012	135	Swine	Blood samples must be taken to measure serum concentrations of hormones and growth factors. Serial blood samples taken at frequent intervals will require that indwelling jugular catheters be placed in the animals. In addition, backfat samples will be obtained from five boars. These three procedures will cause a small amount of short-term pain. The backfat biopsy will cause no more pain or discomfort than measuring backfat with a metal ruler, a procedure which is routinely done. One experiment will limit the amount of food pigs are given to approximately $\frac{1}{2}$ that of controls; however, this will only be for seven days.	Any drugs used have the potential of altering secretory patterns of reproductive hormones and growth factors that will be measured the day following the insertion of the catheters. Additionally, any local anesthetics such as lidocaine may interfere with the measurements of 5 $\alpha$ Androstenone in the fat.	
99-A014	64	Swine	Blood samples must be taken to measure serum concentrations of hormones and growth factors. Serial blood samples taken at frequent intervals will require the installation of jugular catheters in the pigs. These procedures will cause a small amount of short-term pain. One experiment will limit the amount of food pigs are fed to $\sim \frac{1}{2}$ that of controls; however, this will only be for 7 days.	Any drugs have the potential of altering secretory patterns of reproductive hormones and growth factors that will be measured the following day.	

<p><b>UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE</b></p> <p><b>ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)</b></p>	<p>1. CERTIFICATE NUMBER: 46-R-0001 CUSTOMER NUMBER: 1580</p>	<p>FORM APPROVED OMB NO. 0578-0038</p>
<p>University Of South Dakota <span style="float: right;">OCT 27 1966</span> 414 E Clark St <span style="float: right;"></span> Vermillion, SD 57609 <span style="float: right;">Telephone: (805)677-5647</span></p>		

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

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY ( Attach additional sheets if necessary or use APHS Form 7023A )**

A. Animals Covered By The Animal Welfare Regulations	B. 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 pain 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 tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0		25		25
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits		184			184
9. Non-human Primates	7		4		4
0. Sheep					
1. Pigs					
2. Other Farm Animals					
3. Other Animals					
3 Ground Squirrels		24	9		33

**ASSURANCE STATEMENTS**

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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 aspects of animal care and use.

**CERTIFICATION BY HEADQUARTERS 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 & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED <span style="font-size: 1.2em;">10/25/66</span>
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2

~~Customer ID and Site Address:~~

Customer ID and Site Address:

Cust ID: 1560

414 East Clark Street  
Vermillion, SD 57069  
County: Clay

Telephone  
(605)877-5647

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE  <b>ANNUAL REPORT OF RESEARCH FACILITY</b> ( TYPE OR PRINT )	1. CERTIFICATE NUMBER: 46-R-0003 CUSTOMER NUMBER: 1559	FORM APPROVED OMB NO. 0579-0036
Diorah Inc National College/National American Univ. 321 Kansas City St Rapid City, SD 57701  Telephone: (605)-394-4889		

**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

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY** ( Attach additional sheets if necessary or use APHIS Form 7023A )

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 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 pain or distress to the animals an for which appropriate anesthetic, 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. ( An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS  ( COLUMNS C + D + E )
4. Dogs		8	2		10
5. Cats		41	4		45
6. Guinea Pigs		11			11
7. Hamsters		6			6
8. Rabbits		6			6
9. Non-human Primates					
10. Sheep					
11. Pigs		1			1
12. Other Farm Animals					
Chickens			3		3
13. Other Animals					

**ASSURANCE STATEMENTS**

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

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Typed Name)	DATE SIGNED
		10-16-02

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE  <b>ANNUAL REPORT OF RESEARCH FACILITY</b> (TYPE OR PRINT)	1. CERTIFICATE NUMBER: 46-R-0005 CUSTOMER NUMBER: 1558	FORM APPROVED OMB NO. 0579-0036
Augustana College Dept Of Biology 2001 S Summit Ave Sioux Falls, SD 57197  Telephone: (605)-274-4728		

**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 )

Department of Biology, Augustana College FACILITY LOCATIONS ( Sites ) - See Attached Listing

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY** ( Attach additional sheets if necessary or use APHIS Form 7023A )

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4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					none

**ASSURANCE STATEMENTS**

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

SIGNATURE	[NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL ( Type or Print )	[DATE SIGNED <i>1/20/02</i>
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## **Annual Report -- Site Listing:**

**Customer ID and Site Address:**

**ID: 1558**

**2001 South Summit  
Ave**

**Sioux Falls, SD 57197**

**County: Minnehaha**

**Telephone**

**(605)274-4728**

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 46-R-0006  
CUSTOMER NUMBER: 1713

FORM APPROVED  
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY  
( TYPE OR PRINT )

Bears Inc  
Bear Country Usa  
1571 E Hwy 44  
Rapid City, SD 57703

Telephone: (605)-342-7498

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 ( Site ) - See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY ( Attach additional sheets if necessary or use APHIS Form 7023A )

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 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 pain or distress to the animals an for which appropriate anesthetic, 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedure, res or interpretation of the teaching, research, experiments, surgery, or tests. ( An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS ( COLUMNS C + D + E )
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Bhck Bear	12				
<i>Research canceled due to unavailability of Telezol</i>					

ASSURANCE STATEMENTS

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

(NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print))

DATE SIGNED

9-26-02

8), which is obsolete.)

**Customer ID and Site Address:**

**ID: 1713**

**Hcr 33 Box 1110  
Rapid City, SD 57701  
County: Pennington**

**Telephone  
(605)343-2251**

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 46-R-0007  
CUSTOMER NUMBER: 1738

FORM APPROVED  
OMB NO. 0579-0038

**ANNUAL REPORT OF RESEARCH FACILITY**  
(TYPE OR PRINT)

Ovis  
47825 279th St  
Canton, SD 57013

Telephone: (605)-987-4402

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)

same as 2.

FACILITY LOCATIONS (Sites) - See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)

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4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep	45	27	0	0	27
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

11/22/02

### Column E Explanation

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 46-R-0007

2. Species (common name) and number of animals used in this study NA  
(list all that apply for this explanation). If you used the same species in more than one procedure, list each procedure and the number of animals used in that procedure in Item 3.

3. Explain the procedure producing pain and/or distress.

*NA*

4. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 5 below)

*NA*

5. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency \_\_\_\_\_ CFR \_\_\_\_\_