	This report is required by law (7 USC 2143) Failure to report according to the regulations can esult in an order to cease and desist and to be subject to penalties as provided for in Section 2150.			See reverse side for additional information.	Interagency Repo 0180-DOA-AN	ort Control No
UNITED STAT	TES DEPARTMENT OF A PLANT HEALTH INSPEC	GRICULTURE	1. REGISTRATIC		FORM APP OMB NO 0	
ANNUAL REPOR	RT OF RESEAR (PE OR PRINT)	CH FACILITY	7 2000 include 2 Un 171	-R-0004. Cust II 104 EKI-HILL KENNEL & SUPPLY 90 POLK ROAD NWOOD, MI 49346	•• registered	with USDA,
3. REPORTING FACILITY (List all b sheets if necessary.)	ocations where animals	were housed or used	in actual research, testing, tea	ching, or experimentation, or held for t	hese purposes Allac	ch additional
		FA	CILITY LOCATIONS (Siles)			
Se	e attache	d				
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	f (Attach adiditional sheets if r	ecessary or use APHIS FORM 7023A.)	•	
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery bul 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, leaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriat anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	or tests were ing pain or distress use of appropriate lizing drugs would cedures, results, or research, An explanation of or distress in these	F. OF ANIMALS (Cols. C + D + E)
4. Dogs	79	608	None	None		608
5. Cats	None	None	None	None		None
6. Guinea Pigs						
7. Hamsters						
8. Rabbits						
9. Non-human Primates						
10. Sheep						
11. Pigs						
12. Other Farm Animals			:			
13. Other Animals						
					·	
ASSURANCE STATEMENTS			l			
 Professionally acceptable st and following actual researc Each principal investigator f This facility is adhering to th principal investigator and a 	h, teaching, lesting, sum has considered alternation te standards and regulator proved by the Institution	gery, or experimentat ves to painful procedu tions under the Act, at anal Animat Care and I	ion were followed by this researces ires. Ind it has required that exception Use Committee (IACUC) A su	riate use of anesthetic, analgesic, and f arch facility. ons to the standards and regulations b mmary of all such exceptions is att exceptions, as well as the species and	e specified and explai ached to this annua	ned by the

į

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) Executive that the above is true, correct, and complete (7 USC Section 2143)				
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
		03 00700		

001 1 1 2000

FACILITY SITES LISTING

Licensee/Registrant Name:	dba - Cheri-Hill	Kennel
License/Registration Number:	<u>34-R-004</u>	

Please list below all sites that house regulated animals under the above number. Be sure to include all requested information. If the line does not apply, please mark it N/A. If you have more than three (3) sites copy this form as many times as needed before filling in the sites. Site No.: 1 Name/Department: Cheri-Hill Kennel Address: 17190 Polk Rd. Stanwood, Mi 49346 Building: See attached diagram Floor/Room: _RESEARCH_FACILITY_SOUARE_FOOTAGE, 19,684 ____ Phone No^{(b)(6), (b)(7)c} Contact Person: _____ Fax No. Site No.: _____ Name/Department: ______ Address: Building: Floor/Room: Contact Person: _____ Phone No.: Site No.: _____ Name/Department: ______ Address: Building: Floor/Room: Contact Person: _____ Phone No.:

INITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE				1. REGISTRATION	-	FORM APP OMB NO 0	
ANNUAL REPOR (TY	T OF RESEAR PE OR PRINT)	CH FACILITY	• ***	include Zip C 34 DC HE	RS RESEARCH FACILITY (Name and Ad -R-0008, Cust ld 115 DW CHEMICAL COMPANY EALTH & ENVIRONMENTAL REASEF D3 BUILDING	et 1 2 4 2	
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals				DLAND, MI 48674		h additional
			CILITY LOCAT				
Site 1 (active) Environmental F 1803 Building	Research a		ting	See a	ttachment 1 for	deleted	3ites
Midland, MI 486		RESEARCH FACILITY	' (Altach adidi	itional sheets il ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in leaching, 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.	which ex leaching surgery, conducte accompa distress and for v anesthet	of animals upon periments, , research, or tests were ed involving anying pain or to the animals which appropriate ic, analgesic, or zing drugs were	E. Number of animals upon which tea experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquiliz have adversely affected the proce- interpretation of the teaching, resi experiments, surgery, or tests. (Ar the procedures producing pain or animals and the reasons such dru- must be attached to this report).	tests were g pain or distress ise of appropriate ting drugs would dures, results, or earch, n explanation of distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	0	69	3		0		72
5. Cats	0	0	0		0		0
6. Guinea Pigs	0	589	48	}	0		637
7. Hamsters	0	92	0)	0		92
8. Rabbits	0	292	45		0		337
9. Non-human Primates	0	0	0	l	0		0
10. Sheep	0	0	0		0		0
11. Piqs	0	0	0)	0		0
12. Other Farm Animals	0	0	0		0		0
13. Other Animals	0	0	0		0		0
							1

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 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 includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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.

BY HEADQUARTES RESEARCH FACILITY OFFICIAL • Officer or Legally Responsible Institutional Official) The above is true, correct, and complete (7 USC Section 2143)	
NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

•)

4 2000

ATTACHMENT 1

LIST OF DELETED SITES (Sites Permanently Closed)

Central Research Materials and Development Laboratory 1701 Building Midland, MI 48674

Site Deleted (permanently closed) May 20, 1996

Dow Chemical Company Toxicology Research Laboratory - Indianapolis 9550 N. Zionsville Road Indianapolis, IN 46268

Site Deleted (permanently closed, building has been demolished) December 31, 1995

Health & Environmental Sciences Lake Jackson Research Center Freeport, TX 77541

Site Deleted (permanently closed, building has been demolished) November 19, 1994

This report is required by law (7 result in an order to cease and	his report is required by law (7 USC 2143) Failure to report according to the regulations can esult in an order to cease and desist and to be subject to penalties as provided for in Section 2150.			See reverse side for additional information.	Interagency Report Control No 0180-DOA-AN		
	ES DEPARTMENT OF A		na Na	1. REGISTRATION	I NO.	FORM APPROVED	
			•	2. HEADQUA 34-R-0009, Cust ld 116			
ANNUAL REPOR	R T OF RESEAF (PE OR PRINT)			160	OVIDENCE HOSPITAL 001 W. NINE MILE ROAD UTHFIELD, MI 48037		
		ersity, 540	East	Canfield,I	hing, or experimentation, or held for th Detroit, Mi. 48201,		1
		FA(TIONS (Siles)			
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi	ditional sheets if ne	cessary or use APHIS 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.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate stic, analgesic, or lizing drugs were	E. Number of animals upon which the experiments, research, surgery of conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc interpretation of the teaching, re- experiments, surgery, or tests. (////////////////////////////////////	r lests were ng pain or distress use of appropriate izing drugs would edures, results, or search, An explanation of or distress in these	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs			· · · · · · ·	5			5
5. Cats			26				-26
6. Guinea Pigs	· · · · ·	·		<u></u>			
7. Hamsters							
8. Rabbits			45		<u>.</u>		45
9. Non-human Primates							
10. Sheep				5			5
12. Other Farm Animals							
13. Other Animals						<u></u>	
						· · · · · · · · · · · · · · · · · · ·	
ASSURANCE STATEMENTS	1	L	L				

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2). Each principal investigator has considered alternatives to painful procedures.

SIGNATURE

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 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 includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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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)				
OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
		11/15/00		

AFTIG FORMETOZO TEMPININE VOT CHIMETOZO (SZCEDD), WIGHTS ODSOBLET, (AUG 91)

This report is required by law (result in an order to hease and					See reverse side for additional information.	Interagency Rep 0180-DOA-AN	
	TES DEPARTMENT OF A PLANT HEALTH INSPEC	TION CERVICE	3 2000	1. REGISTRATION	I NO.	FORM APP OMB NO. 0	
`	آهي ۽			2, HEA 34-R-001	0, Cust ld 111	stered	l with USDA,
ANNUAL REPOF	R T OF RESEAR (PE OR PRINT)	CH FACILITY	,	2799 W (FORD HOSPITAL GRAND BLVD F, MI 48202		
3. REPORTING FACILITY (List all I sheets if necessary)	locations where animals				hing, or experimentation, or held for t	hese purposes. Atta	ch additional
		FAG	CILITY LOCA	TIONS (Sites)			
see attached							
	R UNDER CONTROL OF	RESEARCH FACILITY	l (Atlach adıı	litional sheets if ne	cessary or use APHIS 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.	which e teaching surgery conduct accomp distress and for anesthe tranquil	of animals upon xperiments, g, research, or tests were ed involving anying pain or to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which t experiments, research, surgery o conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such di must be affached to this report).	r tests were ing pain or distress use of appropriate lizing drugs would redures, results, or search, An explanation of or distress in these	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs		icite ting drugs.	used	116			116
5. Cats				-			-
6. Guinea Pigs				10			10
7. Hamsters				_			
8. Rabbits			2	216			216
9. Non-human Primates				-			_
10. Sheep				-		· .	
11. Pigs				22			22
12. Other Farm Animals				·			
13. Other Animals							
ferrets				18			18
						<u></u>	
ASSURANCE STATEMENTS							

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.

(AUG 91)

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is frue, correct, and complete (7 U S C Section 2143)					
SIGN/		. (Type or Print)	DATE SIGNED		
			10-06-00		
APHIS FORM 7023	Replaces VSED/RM 15 23 (OCT 88) which is obsolute i				

FACILITY SITES LISTING

3

Licenses/Registrant Name: Henry Ford Hospital License/Registration Number: 34-R-0010

Name/Department: Address:	2799 W. Grand Blvd. Detroit MI 48202
C	ε
• • • • • • • • • • • • •	
Contact Person:	Phone No.:
Name/Department:	Bioresources F ₁
Address:	One Ford Place
	Detroit MI 48202
Building:	One Ford Place
Floor/Room:	3D
Contact Person:	Phone No.:
Name/Department: Address:	Research Institute, William Beaumont Hospital 3601 West Thirteen Mile Road Royal Oak MI 48073
Building:	•
Floor:	NA
Contact Person	Phone No:
Name/Department	Wayne State University, DLAR
Address:	1400 Chrysler Freeway Detroit MI 48201
Building	
	Eighth Floor
Contact Person:	Phone No:
	Address: Building: Floor/Room: Contact Person: Name/Department: Address: Building: Floor/Room: Contact Person: Name/Department: Address: Building: Floor: Contact Person Name/Department Address:

This report to required by faw (7 result in all order to cease and o	USC 2143) Failure to desist and to be subject	report according to the To penalties as provid	e regulations can led for in Section 2150.	See reverse side for Interagency additional information. 0180-DOA-/	(Report Control No		
	TES DEPARTMENT OF A PLANT HEALTH INSPEC		1. REGISTRATION 34-R-0	014 омв	APPROVED		
•		·		2. HEADO' ASTERS DESERVE EACH ITY Ware and Address as registered with USDA include 34-R-0014, Cust Id 120			
ANNUAL REPOR	T OF RESEAR	CH FACILITY	(b)(6).	(b)(7)c			
	(PE OR PRINT)	NUV 2 8 200	WAYN	NE STATE UNIVERSITY AST CANFIELD			
				OIT, MI 48201			
3. REPORTING FACILITY (List all lo sheets if necessary.)	ocations where animals	were housed or used i	in actual research, testing, teac	ning, or experimentation, or neid for mesel purposes.	Attach additional		
5.0013 // 1000222., , ,		FAC	CILITY LOCATIONS (Siles)				
		<u> </u>			<u></u>		
See attached.							
				· · · · · · · · · · · · · · · · · · ·			
REPORT OF ANIMALS USED BY OF	B Number of	RESEARCH FACILITY		cessary or use APHIS FORM 7023A.) *			
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or	animals upon which teaching, research, experiments, or tests were conducted involving no	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	experiments, research, surgery or tests were conducted involving accompanying pain or distri- to the animals and for which the use of appropri- anesthetic, analgesic, or tranquilizing drugs wou- have adversely affected the procedures, results, interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of	ate TOTAL NO. Id OF ANIMALS or of (Cols. C +		
	surgery but not yet used for such purposes.	pain, distress, or use of pain- relieving drugs.	anesthetic, analgesic, or tranquilizing drugs were used.	the procedures producing pain or distress in the animals and the reasons such drugs were not u must be attached to this report).	ese D+E)		
4. Dogs	3	0	137	0	137		
5. Cats	2	0	33	0	33		
6. Guinea Pigs	0	0	98	0	98		
7. Hamsters	0	0	415	0	415		
8. Rabbits	0	0	127	0	127		
9. Non-human Primates	0	0	10	0	10		
10. Sheep	0	0	11	0	11		
< <u>11. Pigs</u>	2	0	117	0	117		
12. Other Farm Animals							
Cows	0	0	14	0	14		
13. Other Animals							
Gerbils	_0	0	67	.0	67		
Ferrets	0	0	7	0	7		
ASSURANCE STATEMENTS					l		

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.

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(Chief Executive Officer or	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e, correct, and complete (7 USC Section 2143)	
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		2 Poren

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This report is required by law (7 result in an order to cease and d	USC 2143) Failure to Jesist and to be subject	report according to th to penalties as provid	e regulation led for in Se	s can ction 2150.	See reverse side for additional information.	Interagency Rep 0180-DOA-AN	ort Control No
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	INO.	FORM APP OMB NO 0	
			·:	include Zin	I-R-0017, Cust ld 129		
ANNUAL REPOR (TY	T OF RESEAR PE OR PRINT)			0 24	ICHIGAN STATE UNIVERSITY FFICE OF RESEARCH & GRADUAT 16 ADMINISTRATION BUILDING AST LANSING, MI 48824	Ē	
3. REPORTING FACILITY (List all le sheets it necessary.)	ocations where animals	were housed or used i	in actual res		ining, or experimentation, or new for the	ese purposes. Ana	ch additional
L <u>===,,</u>		FAC	CILITY LOCA	TIONS (Siles)			
	· · · · · · · · · · · · · · · ·						
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	' (Atlach adi	ditional sheets if ne	cessary or use APHIS 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.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon xperiments, g, research, , or tests were ted involving anying pain or ; to the animals which appropriate ttic, analgesic, or izing drugs were	E. Number of animals upon which te- experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquili have adversely affected the proce interpretation of the teaching, res- experiments, surgery, or tests. (At the procedures producing pain or animals and the reasons such dru- must be attached to this report).	tests were Ig pain or distress ise of appropriate zing drugs would dures, results, or earch, n explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	64	30	3	27			357
5. Cats	8	22	1	51			173
6. Guinea Pigs		254					254
7. Hamsters		84	3	73			457
8. Rabbits	4	59	2	02	ا ۱ ۱ ۱		261
9. Non-human Primates		1		2			3
10. Sheep		55		1			56
11. Pigs				30			30
12 Mink		210		· 	• •		210
Horse		6		2			8
Cow		120		25			145
Opossum		12				······	12
Nile Grass Rat		172		75			247
Spotted Hyenas ASSURANCE STATEMENTS		2					2

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(Chief Executive Office	EADQUARTES RESEARCH FACILITY OFFICIAL cer or Legally Responsible Institutional Official) ve is true, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/29/00

This report is required by law (7 result in an order to clease and d	USC 2143) Failure to lesist and to be subject	report according to the to penalties as provid	e regulations can led for in Section 2150.	See reverse side for additional information.	0180-DOA-AN	ريون (1 ريون) (1 ر
	ES DEPARTMENT OF A LANT HEALTH INSPEC		1. REGISTRATION		FORM APP OMB NO 0	579-0036
ANNUAL REPOR	T OF RESEAR PE OR PRINT)	CH FACILITY	include Zip _{3.} N	4-R-0017, Cust Id 129 IICHIGAN STATE UNIVERSITY IFFICE OF RESEARCH & GRADUA		with USDA
	•			46 ADMINISTRATION BUILDING		
3. REPORTING FACILITY (List all lo sheets it necessary.)	ocations where animals	were housed or used i	n actual research, testing, teac	AST LANSING, MI 48824 anny, or experimentation, or new tor m	nese purposes. Arra	ch additional
		FAC	CILITY LOCATIONS (Siles)			
						
REPORT OF ANIMALS USED BY OF A.	B. Number of	C Number ol		E. Number of animals upon which t		F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	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.	experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re- constructed to the sector.	or lests were ing pain or distress e use of appropriate lizing drugs would cedures, results, or esearch, (An explanation of or distress in these trugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
Boreal Red Backed	Vole	32				32
Deer Mouse		297				297
Eastern Chipmunk		54				54
Meadow Jumping Mou	se	7				7
Masked Shrew		1				11
Red Squirrel		3	· · · · · · · · · · · · · · · · · · ·			3
Southern Bog Lemir	g	2				22
Short Tailed Shrew		16			<u></u>	16
Woodland Jumping M	ouse	14	·			14
White Footed Mouse		70				70
Prarie Voles		80				80
		ļ				ļ
		L	l			
ASSURANCE STATEMENTS						

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(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)

USDA Registration Number 34-R-0017

Michigan State University Office of Research & Graduate Studies 246 Administration Building East Lansing, MI 48824

> USDA Annual Report of Research Facility November 27, 2000

AUCAUC Approved Exceptions to the Regulations or Standards

There were no exceptions for this reporting period.

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This report is required by law (result in an order to cease and	USC 2143) Failure to desist and to be subject	report according to th to penalties as provid	e regulation ted for in Se	is can iction 2150		See reverse side for additional information.	Interagency Re 0180-DOA-AN	port Control No
	ES DEPARTMENT OF A			1. REGISTRATIO	N NO.		FORM AF OMB NO	PROVED 0579-0036
		DEC 7		2. HEADQUARTE	RS RE	SEARCH FACILITY (Name and A		
ANNUAL REPOR	RT OF RESEAR (PE OR PRINT)	CH FACILITY		34-F EAS 106	R-0018 STERN WELC	3, Cust ld 195 I MICHIGAN UNIVERSITY CH HALL [1, MI 48197		
3. REPORTING FACILITY (List all sheets if necessary)	ocations where animals	were housed or used	in actual res	earch, testin			1	ach additional
	······································	FA		TIONS (Siles)				
Animal Care Facili 433 Mark Jefferson		emu						
							······································	
REPORT OF ANIMALS USED BY O			(Alloch			STATUS ARHIS EORM 2022A 1		
A.	B. Number of	C Number of		r of animals upon	E. 1	Number of animals upon which to	eaching,	F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or heid for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e leachin surgery conduc accomp distress and for anesthi trangui	experiments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate slic, analgesic, or lizing drugs were		experiments, research, surgery o conducted involving accompanyi to the animals and for which the unesthetic, analgesic, or tranquil nave adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain o animals and the reasons such di nust be affached to this report).	ing pain or distress use of appropriate lizing drugs would redures, results, or search, An explanation of or distress in these	TOTAL NO OF ANIMALS (COIS. C + D + E)
4. Dogs	0		used		+		<u> </u>	
	0				1		<u></u>	
5. Cats	0				1	<u> </u>		
6. Guinea Pigs							<u> </u>	
7. Hamslers	0							1
8. Rabbits	2	<u>l</u>			┿──	·····	· · · · · · · · · · · · · · · · · · ·	1
9. Non-human Primates	0						<u> </u>	+
10. Sheep	0			· <u> </u>				
11 Pigs	0	 		<u> </u>				
12. Other Farm Animals	0				<u> </u>			
13. Other Animals								
Bats	0	2161						2161
Wild rodents	0	8						8
r								
ASSURANCE STATEMENTS	and side assessment at a	nne trestinunt under		e meludina	unle	e of anesthetic, analgesic, and t	anul no duo	NW IA during
and following actual researce							randomsing grogs;	pror lo, during,
2) Each principal investigator I	has considered alternation	ves to painful procedu	res.					
principal investigator and a	pproved by the Institution	unal Ammal Care and	Use Commit	lee (IACUC) A sur	mmary	he standards and regulations be of all such exceptions is atta tions, as well as the species and	iched to this anni	al report in
4) The attending vetermarian t animal care and use	or this research facility (has appropriate autho	rity to ensur	e the provision of a	udequa	te veterinary care and to overse	e the adequacy of c	other aspects of
	(Chief Ea	ATION BY HEAT recutive Officer (stilly that the above is	or Legall	y Responsible	Insti	ACILITY OFFICIAL itutional Official) Section 2143)		
SIGNATURE OF C.E.O. OR INSTITU		· · · · · · · · · · · · · · · · · · ·				STITUTIONAL OFFICIAL (Type o	r Print)	DATE SIGNED
			-					15/20
APHIS FORM 7023	places VS FÜRM 18	23 (OCT 88) which	is obsulete	}				

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How i Heat order to cease and	desistration to be subjec	t to penalties as provid	lea far in Se	chon 2150	additional information	UISU-DUA AN	- Vaia
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	NO.	FORM APP OMB NO 0	
	.*	OCT 23	· 2000	2. HEADQUAF include Zip 34	-R-0019. Clist Id 196	ddress, as regislered	1 with USDA
ANNUAL REPOF	RT OF RESEAR (PE OR PRINT)			221	RRIS STATE UNIVERSITY 0 FERRIS DRIVE 3 RAPIDS, MI 49307		
3. REPORTING FACILITY (List all sheets if necessary)	locations where animals	were housed or used i	in actual res	earch, testing, teac	hing, or experimentation, or noise oc	• • •	ch additional
		FAC	CILITY LOCA	TIONS (Siles)			
Ferris State Unive	rsity, Colle	ege of Phar	nacy		of Pharmacy 314-A		
220 Ferris Drive,	The second s				ris Drive, Big Rapic	ls, MI 493	307
		RESEARCH FACILITY	f (Attach adi	litional sheets if ne	cessary or use APHIS FORM 7023A.)	, 	ومرادي فالمراجع المراجع المراجع المراجع
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	of animals upon xperiments, g. research, or lests were ted involving banying pain or i to the animals which appropriate tic, analgesic, or hizing drugs were	E. Number of animals upon which le experiments, research, surgery or conducted involving accompanyli to the animals and for which the anesthetic, analgesic, or tranquili have adversely affected the proce interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dri- must be attached to this report).	tests were ing pain or distress use of appropriate zing drugs would edures, results, or search, in explanation of r distress in these	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs						·	
5. Cats							
6. Guinea Pigs							
7. Hamsters						. <u></u>	
8. Rabbits	8						8
9. Non-human Primates							
10. Sheep				2			2
11. Pigs		·		2			2
12. Other Farm Animals							
13 Other Animals						<u></u>	
Rats	227	258	3	9			297
Mice	8	8					8
ASSURANCE STATEMENTS							
ASSUMMUE STATEMENTS							

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 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 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.



DATE SIGNED 10/16/00

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ANIMAL AND P ANNUAL REPOR (TY) 3. REPORTING FACILITY (List all 10	PE OR PRINT)	CH FACILITY	include Zip 34 NO 93	R-0025, Cust Id 473 ORTHERN BIOMEDICAL RESEARC 0 W. SHERMAN BLVD		86
(TY) 3. REPORTING FACILITY (List all lo	PE OR PRINT)		include Zip 34 NO 93	-R-0025, Cust ld 473 DRTHERN BIOMEDICAL RESEARC		SDA,
(TY) 3. REPORTING FACILITY (List all lo	PE OR PRINT)		93		H, INC.	
3. REPORTING FACILITY (List all lo	cations where animals	were housed or used		JSKEGON, MI 49441		
sheets if necessary.)			n actual research, testing, teac	ning, ur experimentation, or note to	,	lional
		FAC	CILITY LOCATIONS (Siles)			
930 W. Sh Mushegon	rennan NI 494	441 Slod	<u>.</u>			
REPORT OF ANIMALS USED BY OR		BESEARCH FACILITY	Attach adultional sheets if ne	cessary or use APHIS FORM 7023A.)		
and a second	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 le experiments, research, surgery or conducted involving accompanying to the animals and for which the anesthetic, analgesic, or tranquili have adversely alfected the procedinterpretation of the teaching, resexperiments, surgery, or tests. (A the procedures producing pain or animals and the reasons such drimust be attached to this report).	aaching, r tests were ng pain or distress use of appropriate zing drugs would edures, results, or search, An explanation of r distress in these	DTAL NO. ANIMALS DIS. C + D + E)
4. Dogs	7	12	255	0	2	67
5. Cats	0	0	Ô	0		>
5. Guinea Pigs	0	0	0	0	Č)
7. Hamsters	0	0	0	0)
3. Rabbits	ð	0	0	0	C	`
9. Non-human Primates	5	0	12	O	1	2
10. Sheep	જ્ર	0	5	Ő	5	-
11. Pigs	0	0	0	0)
12. Other Farm Animals	0	0	0	0	Ċ	
3. Other Animals	0	0	0	0	<i>č</i>	>
ASSURANCE STATEMENTS						

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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 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 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)

DATE SIGNED

SIT

	00 1:20PM lew (7 USC 2143). Feilure	INAGYN SURG to report according to th	IURL			ned form for information	intensgency re	Don Control North
UNITE	D STATES DEPARTMEN L AND PLANT HEALTH I				CATE NUMBER:			APPROVED 0 0579-0036
ANNUA	L REPORT OF R (TYPE OR F		ILITY	Imagyn Surgery 8850 M-89 Po Box 351 Richland, MI 49083 Telephone: (616) -629-5811 $\times 83275$				d Rey
	List all locations where anim					ese purposes. Atlach ad	ditional sheets if nece	1950 ry)
LMAGYN ME	EDICAL TECKNOL	E E FACILI	LAKE AND	Siles) - Starste MAL Ho	SPINE É	KENNELS		
REPORT OF ANIMALS	USED BY OR UNDER O	ONTROL OF RESEAR	CH FACILITY (At	tach addition	al sheets if nece	SEATY OF USE APHIS F		
A. Animais Covered By The Animal Welfare Regulations	B. Number of snimals being bred, conditioned, or held for use in teaching, tosting, experiments, research, or surgery but not ye	C. Number of snimals upon which teaching, research, experiments, or lests were conducted involving no pain, disress, or use of pain- rollaving drugs.	D. Number of an upon which experiments, research, sur losts were con involving sccompanying distress to the and for which oppropriate an	leaching, gory, or nducted g pain or g milmela	experiments conducted in to the anima aneothetic, s have advers interpretation surgery, or tu producing po	nimels upon which leach tessench, surgery or test volving accompanying bi is and for which the use o nalgesic, or tranquilizing q oly affected the procedure to fite teaching, research sols. (An explanation of the teaching, research sols. (An explanation of the teaching, research hards were not used mu	son a ware ain or distress f appropriate drugs would is, results, or n, experiments, he procedures mate and the	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	~N/A-							
5. Cate	~ NIA C							
i. Guinea Piga	~ NIN -							
. Hamsters	~ N/A -							
. Rebbits	~NA _							
). Non-human Primate	~N/A -							
0. Sheep	~NIA -							
1. Pigs	~ NIA -	- 1 -						_ 1 _
2. Other Farm Animals	-N/A -							
3. Other Animals	-N/N							
	<u> </u>							<u>. </u>
		······································						
actual research, teac 2) Each principal investi 3) This facility is adherin investigator and appr	8 lable standards governing the hing, testing, surgery, or expr gator has considered alternai ng to the standards and regul voted by the institutional Anim septions, this summary includ.	erimentation were followed lives to peinful procedures. stions under the Act, and it al Care and Use Committe	by this research facill has required that exc a (IACUC). A summe	ly. eptions to the st try of all such e	andards and regulat exceptions is attact	ons be specified and exp bed to this annual report	lained by the principa	-
	arian for this research facility		o ensure the provision	n of adequate ve	ennary care and to	oversee the adequacy of	other aspects of anim	nal cere end
			Officer or Legally F					
s			NAME & TI	TLE OF C.E.O.	OR INSTITUTIONAL	OFFICIAL (Type or Pri	int	DATE SIGNED
A		BB), which is obsolete	3.					

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This report is required by law (7 result in an order to cease and c	USC 2143) Failure to lesist and to be subject	report according to the to penalties as provid	e regulations can led for in Section 2150.	See reverse side for adritional information.	Interagency Rep 0180-DOA-AN	
	ES DEPARTMENT OF A		1. REGISTRATION	NO.	FORM APP OMB NO 0	
ANNUAL REPOR (TY	T OF RESEAR PE OR PRINT)	CH FACILITY	include 34-R- נהזינה DOW HEAL	RS RESEARCH FACILITY (Name and a 0032, Cust Id 186 (h)(7) CORNING CORPORATION TH & ENVIRONMENTAL SCIENCE 30X 994	COTINS 🤉	
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used (n actual research, testir, MIDL	AND, MI 48686	Ita	ch additional
		FAC	CILITY LOCATIONS (Sites)			
DOW CORNING COR	PORATION					
2200 W. SALZBUR						
REPORT OF ANIMALS USED BY O		RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, festing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, 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 experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests the procedures producing pain animals and the reasons such of must be attached to this report).	or tests were ving pain or distress a use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these frugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	00	00		0
5. Cats	0	0	00	0	- <u></u>	0
6. Guinea Pigs	0	0	00	0		0
7. Hamsters	0	0	0	00		0
8. Rabbits	5	0	19	0		24
9. Non-human Primates	0	0	0	0		0
10. Sheep	0	0	0	0	·	0
11. Pigs	0	0	0	0		0
12. Other Farm Animals	0	0	0	0		0
13. Other Animals	0	0	0	0		0
					<u></u>	
ASSURANCE STATEMENTS	- <u></u>			المحمد المتعادية والمتخاط والمحمد تيزني ففا والبراج بيراويهي المتلة		

 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.

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	HEADQUARTES RESEARCH FACILITY OFFICIAL	
	fficer or Legally Responsible Institutional Official) 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

	TES DEPARTMENT OF A			1. REGISTRATION	NO.	FORM APP	ROVED -
ANIMAL AND	PLANT HEALTH INSPEC	TION SERVICE				OMB NO (
			·	2. HEADQUAF	-R-0033, Cust ld 522		with USD
ANNUAL REPOR					ESTERN MICHIGAN UNIVERSITY		
(T)	YPE OR PRINT)		,	R	ESEARCH & SPONSORED PROG	RAMS	
				к	ALAMAZOO, MI 49008		
. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used	in actual res	earch, lesting, teac	hing, or experimentation, or held for t	hese purposes. Atta	ch additional
<u> </u>		FA	CILITY LOCA	TIONS (Siles)			
nimal Care Facil	ity, Haenic	ke Hall		,			
Room 1015							
EPORT OF ANIMALS USED BY C	R UNDER CONTROL O		(Altach adi	litional sheets if ne	cessary or use APHIS FORM 7023A)	,	
	B. Number of	C Number of		of animals upon	E. Number of animals upon which	leaching,	F.
Animals Covered	animals being bred,	animals upon which teaching,	which e	xperiments, g, research,	experiments, research, surgery (conducted involving accompany	ing pain or distress	
By The Animal Welfare Regulations	conditioned, or held for use in	research, experiments, or	surgery	, or tests were ted involving	to the animals and for which the anesthetic, analgesic, or tranqu	ilizing drugs would	TOTAL NO. OF ANIMAL
	teaching, testing, experiments,	tests were conducted	accomp	anying pain or	have adversely affected the pro interpretation of the teaching, re	esearch,	
	research, or surgery but not	involving no pain, distress, or	and for	which appropriate	the procedures producing pain or distress in these		(Cols. C + D + E)
	yet used for such purposes.	use of pain- relieving drugs.		izing drugs were	animals and the reasons such o must be attached to this report).		
. Dogs							
. Cats							
Guinea Pigs							
. Hamsters				182		<u></u>	182
Rabbits			ļ 			·····	
. Non-human Primates					· ·		
0. Sheep							
1. Pigs							
2. Other Farm Animals							
3. Other Animals							
							<u> </u>
		. <u></u>				• ····	
SSURANCE STATEMENTS							
1) Professionally acceptable s and following actual researce					ate use of anesthetic, analgesic, and ch facility.	tranquilizing drugs, p	rior to, during,
2) Each principal investigator							
principal investigator and a	pproved by the Institution	onal Animal Care and	Use Committ	ee (IACUC) A sun	ns to the standards and regulations b nmary of all such exceptions is att	ached to this annua	l report. In
					exceptions, as well as the species and dequate veterinary care and to oversi		
	(Chief E:	cecutive Officer	or Legall	y Responsible	H FACILITY OFFICIAL Institutional Official)		
	L Ce	rtify that the above is	true, correct	, and complete (7 t	J.S.C. Section 2143)		
IGNATURE OF C.E.O. OR INSTIT	UTIONAL OFFICIAL		NAME	& TITLE OF C.E.O.	OR INSTITUTIONAL OFFICIAL (Type of	pr Print)	DATE SIGNED
							11/29/00

APHIS FORM 7023 (AUG 91)

This report is required by law (result in an order to cease and	7 USC 2143) Failure to desist and to be subject	report according to th I to penalties as provid	e regulation led for in Se	s can ction 2150.	See reverse side for additional information.	Interagency Repu 0180-DOA-AN	rt Control No
UNITED STA ANIMAL AND	TES DEPARTMENT OF A PLANT HEALTH INSPEC	GRICULTURE		1. REGISTRATION	I NO.	FORM APPE OMB NO 05	
ANNUAL REPOR	RT OF RESEAR YPE OR PRINT)		. • • • •	include 2 HOP 35 E	R-0035, Cust ld 199 E COLLEGE AST 12TH STREET -AND, MI 49422	-	with USDA,
REPORTING FACILITY (List all sheets it necessary.) Peale	locations where animals Science Cer	nter - 35	East	earch, testing, teac 12th Stree (TIONS (Sites)	hing, or experimentation, or held for et, Holland, MI	these purposes. Attac 49422–9000	h additional
· · · · · · · · · · · · · · · · ·							
Peale Scienc	ce Center					, <u>.</u>	······································
PORT OF ANIMALS USED BY C	OR UNDER CONTROL OF	RESEARCH FACILITY	' (Attach adi	L ditional sheets if ne	cessary or use APHIS FORM 7023A.)		
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.	which e leachin surgery conduc accomy distress and for anesthi	r of animals upon experiments, ig, research, i, or tests were ted involving sanying pain or s to the animals which appropriate alic, analgesic, or lizing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompan- to the animals and for which it anesthetic, analgesic, or tranqui- have adversely affected the prr- interpretation of the teaching, experiments, surgery, or tests. the procedures producing pair animals and the reasons such must be attached to this report	or lests were ying pain or distress ie use of appropriate jilizing drugs would occdures, results, or research, (An explanation of or distress in these drugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
Dogs							
Cats					· ····································		<u></u>
Guinea Pigs							
Hamsters		10					10
Rabbits							
Non-human Primates							
0. Sheep							
1. Piqs							
2. Other Farm Animals					•		
3. Other Animals							
Thrushes	13			<u></u>			13
Parakeets		3		,			3
SSURANCE STATEMENTS							
	standards governing the	care, treatment, and u	se of anima	ls, including appror	iate use of anesthetic, analgesic, and	I tranquilizing drugs, pr	ior to, during.

2). Each principal investigator has considered alternatives to painful procedures.

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(Chief Executive	Y IIEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) e above is true, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		10/03/2000
APHIS FORM 7023 (Rept.)	8: which is attacker -	[

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This report is required by law (7 result in an order to cease and	USC 2143) Failure to desist and to be subject	report according to th to penalties as provid	e regulation led for in Se	s can ction 2150.	See reverse side for additional information.	Interagency Repo 0180-DOA-AN	
UNITED STAT	ES DEPARTMENT OF A	GRICULTURE		1. REGISTRATION	NO.		
ANIMAL AND	LANT HEALTH INSPEC			34-R-003	37 [°]	OMB NO 0	1 11
				2. HEADQUARTER include Zip 34.	R-0037, Cust Id 200	Address, as registered	with USDA,
ANNUAL REPOR	T OF RESEAR (PE OR PRINT)	CH FACILITY		WII 360	LIAM BEAUMONT HOSPITAL 1 WEST 13 MILE ROAD		
				~0	YAL OAK, MI 48073		
REPORTING FACILITY (List all I sheets if necessary.)	ocations where animals	were housed or used	in actual res	earch, festing, ieaci	اس جا ہو اس		ch additional
		FA	CILITY LOCA	ATIONS (Sites)			
Research	Institute Bu	ilding		CT/Imagin	g Center, William		
astroenterology	Lab, Researc	h Institute	<u>;</u>		*(off hours on	ly)	camp
PORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach ad	ditional sheets if ne	cessary or use APHIS FORM 7023A.)	-	,
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 leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	which teachir surger conduc accom distres and for anesth	er of animals upon experiments, ng, research, y, or tests were cted involving panying pain or s to the animals r which appropriate etic, analgesic, or ilizing drugs were	E. Number of animals upon which in experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquinave adversely affected the pro- interpretation of the teaching, reexperiments, surgery, or tests. The procedures producing pain animals and the reasons such of must be attached to this report).	or tests were ving pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these frugs were not used	F. TOTAL NO. OF ANIMAL (Cols. C + D + E)
Dogs				51			51
Cats				16			16
Guinea Pigs					· ·		
Hamsters							
Rabbits				218		w	218
Non-human Primates	-						
0. Sheep			ļ				ļ
1. Pigs				41			41
2. Other Farm Animals	-	· · · · · · · · · · · · · · · · · · ·		<u> </u>			
3. Other Animals							
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3). This facility is adhering to t	the standards and regul	ations under the Act, a	nd it has re Use Comm	ittee (IACUC). A su	ns to the standards and regulations nmary of all such exceptions is at exceptions, as well as the species an	tached to this annu	al report. In
4) The attending voterinarian animal care and use.	tor this research facility	r has appropriate auth	only to ensu	are the provision of a	adequate veterinary care and to overs	see the adequacy of o	ther aspects of
·····		Executive Officer	or Legal	lly Responsible	CH FACHLITY OFFICIAL Institutional Official) USC Section 2143)		
SIG					OR INSTITUTIONAL OFFICIAL (Type	or Print)	

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				- University		\bigcirc
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(1)			Graduat		ior Rebear	en unu
				er, MI 48309-4401	Status:	Activ
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chools if necessary)	medical Rese					
			CILITY LOCATIONS (Siles)			
PORT OF ANIMALS USED BY C	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	Cessary or use APHIS FORM 7023A)		
	B. Number of animals being	C Number of animals upon	 Number of animals upon which experiments, 	E. Number of animals upon which t experiments, research, surgery or	r lesis were	F.
Animals Covered By The Animal	bred, conditioned, or	which teaching, research,	teaching, research, surgery, or tests were	conducted involving accompany to the animals and for which the	use of appropriate	TOTAL N
Welfare Regulations	held for use in teaching, testing,	experiments, or tests were	conducted involving	anesthetic, analgesic, or tranqui have adversely affected the proc	edures, results, or	OF ANIM
	experiments, research, or	conducted involving no	accompanying pain or distress to the animals	interpretation of the teaching, re experiments, surgery, or tests.		(Cols. C
	surgery but not	pain, distress, or	and for which appropriate anesthetic, analgesic, or	the procedures producing pain animals and the reasons such d	or distress in these	D + E
	yet used for such purposes.	use of pain- relieving drugs.	tranquilizing drugs were used.	must be attached to this report).		
Dogs						
Cats			2			2
Guinea Pigs		118				118
Hamsters						
Rabbits	6	101	190			291
Non-human Primates						
0. Sheep						
1. Pigs					······································	
2. Other Farm Animals						
3. Other Animals					· · · · · · · · · · · · · · · · · · ·	
			1			1

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 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 includes a brief explanation of the exceptions, as well as the species and number of animals affected.

 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)	
	DATE SIGNED
	11/30/00

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This report is required by law (7 result in an order to cease and c	USC 2143) Failure to desist and to be subject	report according to th To penalties as provid	e regulation led for in Se	s can ction 2150.	See reverse side for additional information.	Interagency Rep 0180-DOA-AN	ort Control No
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	i NO.	FORM APP OMB NO 0	
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Brooks Hall - Bi	ology Depart						
EPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	l (Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A.)	•	
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5. Guinea Pigs	0		 				ļ
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3. Rabbits		10					10
9. Non-human Primates	0	·····				- <u>.</u>	
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11. Piqs	0		 			······································	
12. Other Farm Animals	0						
13. Other Animals							+
Gerbils		60					60
Peromyscus Mice		30	 			<u></u>	
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SIG			NAM	E & TITLE OF C.E.O.	OR INSTITUTIONAL OFFICIAL (Type o	or Print)	DATE SIGNED

This report is required by law (7 result in an order to cease and	USC 2143) Failure to desist and to be subject	report according to the top of the temperature of temp	ne regulation ded for in Se	s can ction 2150.	See reverse side for additional information.	Interagency Rep 0180-DOA-AN	ort Control No
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3. REPORTING FACILITY (List all I sheets if necessary)	locations where animals	were housed or used	in actual res	earch, testing, leacl	hing, or experimentation, or held for	these purposes. Atta	ch additional
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5. Guinea Pigs						·····	
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3. Rabbits							
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SIGNATURE OF C E O OR INSTIT	UTIONAL OFFICIAL		U NAME		OD INSTITUTIONAL OESICIAL CLIM	- ~ Print)	DATE SIGNED

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(Replace: VS FORM 18-23 (Oct 88), which is obsolete)

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). Each principal investigator has considered alternatives to painful procedures.	
). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards a	
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i) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary c	
animal care and use.	the species and number of animals affected.
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I certify that the above is true, correct, and complete (7 U S C Section 2143)	the species and number of animals affected. re and to oversee the adequacy of other aspects of FFICIAL
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ANIMAL AND PL	ANT HEALTH INSPECT	ION SERVICE		- 24 D 0004 . 0	OMB NO 05	9-0036 לעבר א טוגע א י א טוגע א טוג
		· · · ·	2. HEADQUAR include Zip (TE 34-R-0064, Cust Id 218		10302
ANNUAL REPOR (TY)	T OF RESEAR PE OR PRINT)	CH FACILITY		BORGESS MEDICAL CENTER 1521 GULL ROAD KALAMAZOO, MI 49001		
REPORTING FACILITY (List all lo sheets if necessary)	cations where animals	were housed or used i	n actual research, testing, to	eaching, or experimentation, or held for the	se purposes. Attac	h additional
		FAC	ILITY LOCATIONS (Sites)			
Borgess	s Research	Institut	e			
1521 Gu	111 Road,	Floor C	Kalam	azoo, MI 49048 I necessery of use Aphis FORM 7023A) '		
PORT OF ANIMALS USED BY OF	B. Number of	C Number of	D. Number of animals upo	I = Number of animals upon which lea	iching, tests were	F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing,	animals upon which teaching, research, experiments, or tests were	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or	experiments, research, sugary of conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquitz have adversely affected the proce- interpretation of the teaching, ress	g pain or distress se of appropriate ing drugs would dures, results, or	TOTAL NO. OF ANIMALs
	experiments, research, or surgery but not yet used for such purposes.	conducted involving no pain, distress, or use of pain- relieving drugs.	distress to the animals and for which appropri- anesthetic, analgesic, i tranquilizing drugs we used.	experiments, surgery, or tests. (Ar the procedures producing pain or animals and the reasons such dru	n explanation of distress in these	(Cols. C + D + E)
Dogs						
Cats						
Guinea Pigs						
Hamsters						20
Rabbits			2.8		,	28
Non-human Primates						
0. Sheep					<u></u>	19
1. Pigs			19			
2. Other Farm Animals						
3. Other Animals						
<u></u>		<u> </u>				
		.				
			1			l
SSURANCE STATEMENTS 1) Professionally acceptable s and following actual resear	tandards governing the ch, teaching, testing, si	care, treatment, and irgery, or experimenta	use of animals, including ap tion were followed by this r	pproriate use of anesthetic, analgesic, and to esearch facility.	ranquilizing drugs, p	rior to, during,
	he standards and regul	ations under the Act,	and it has required that exc	eptions to the standards and regulations be A summary of all such exceptions is atta I the exceptions, as well as the species and		
				n of adequate veterinary care and to overse		

(Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)

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

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RM 7023	- ·. :	-15 VS	FORM	18-25 (OCT h8)	which is obsolete.)
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This foort is required by law (7	USC 2143) Failure to i lesist and to be subject	report according to the to penalties as provid	e regulations ed for in Sec	s can ction 2150.	See reverse side for additional information.	Interagency Repo 0180-DOA-AN	ort Control No
UNITED STATE	ES DEPARTMENT OF A	CRICUL TURE		1 REGISTRATION	NO.	FORM APP OMB NO 0	
ANNUAL REPOR (TY	T OF RESEAR PE OR PRINT)		** 3 201	Wil P.C	R-0068, Cust Id 220 CHIGAN DEPT. OF NATURAL RES DLIFE DIVISION D. BOX 30028 NSING, MI 48909	BOURCES	with USDA,
3. REPORTING FACILITY (List all to sheets if necessary)	ocations where animals	were housed or used i	n actual res	earch, testing, teac	hing, or experimentation, or held for	these purposes. Ana	ch additional
See a	attached	FAC	CILITY LOCA	TIONS (Sites)			
Cusino Wildlin					e Lake Wildlife	Research	<u>Center</u>
Houghton Lake	WILDIILE R UNDER CONTROL OF	RESEARCH FACILITY	SLAL	ditional sheets if ne	cessary or use APHIS FORM 7023A.)	•	
A. Animals Covered By The Animal Wellare 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.	which e leachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving sanying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompan to the animals and for which th anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests. the procedures producing pain animals and the reasons such must be attached to this report,	or tests were ying pain or distress e use of appropriate ilizing drugs would icedures, results, or esearch, (An explanation of or distress in these drugs were not used	F. TOTAL NO. OF ANIMALS (Cois. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters					- 		
8. Rabbits						·	
9. Non-human Primates			ļ				
10. Sheep						····	
11. Pigs			[
12. Other Farm Animals		- 					
13. Other Animals							
White-tailed	3	3a	<u> </u>		****	<u> </u>	3
deer		<u> </u>	1	<u></u>			3
						· · · · · · · · · · · · · · · · · · ·	
ASSURANCE STATEMENTS	<u> </u>						

 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 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 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.

(Chief Executive Officer or	QUARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) ue, correct, and complete (7 USC Section 2143)	
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNE

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

Site: Status:	001 Inactive	Cusino Wildlife Research Station Highway M-28 Shingleton, MI 49884 County: Alger	Contact Person:
Site: Status:	002 Inactive	Houghton Lake Wildlife Research Area 1759 S. Jeffs Road Merritt, MI 49667 County: Missaukee	Contact Person:
Site: Status:	003 Active	Rose Lake Wildlife Research Center 8562 E. Stoll Road East Lansing, MI 48823 County: Ingham	Contact Person:

Tiss report is required by law (7 result in an order to cease and d	USC 2143) Failure to Jesist and to be subject	report according to the to penalties as provid	e regulations can ed for in Section 2150.	See reverse side for additional information.	Interagency Repo 0180-DOA-AN	
UNITED STAT	ES DEPARTMENT OF A PLANT HEALTH INSPEC	GRICULTURE	1. REGISTRAT	ION NO.	FORM APPI OMB NO 05	
ANNUAL REPOR (TY	T OF RESEAR PE OR PRINT)	CH FACILITY		34-R-0069, Cust ld 221 5)(6), (b)(7)c SPECTRUM HEALTH 251 MICHIGAN, NE MAIL CODE 50 { { G GRAND RAPIDS, MI 49503	n	with USDA
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used i	n actual research, testing, t	eaching, or experimentation, or held for t	hese purposes. Allac	h additional
		FAC	LITY LOCATIONS (Sites)			····
Address listed	above, #2,	room A963			<u> </u>	
the second s			(Attach adiditional sheets i	I necessary or use APHIS FORM 7023A.)		
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or teaching, testarch, or surgery but not purposes.C. Number of animals upon which teaching, research, teaching, testing, tests were conductedD. Number of animals upon which experiments, teaching, research, surgery, or tests were accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs.		 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 duits were an used.) 		F. TOTAL NO. OF ANIMALS (Cols. C + D + E)	
4. Dogs	01111	0]2	0]2
5. Cats	0	0	0	0		0
6. Guinea Pigs	0	0	0	0		0
7. Hamsters	0	0	0	0		0
8. Rabbits	0	0	0	0		0
9. Non-human Primates	0	0	0	00		0
10. Sheep	0	0	0	0		0
11. Pigs	0	0	0	0	—	0
12. Other Farm Animals	0	0	0	0	·	0
13. Other Animals	0	0	0	0		0
<u></u>					· · · · · · · · · · · · · · · · · · ·	
			L			
ASSURANCE STATEMENTS						

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approvate 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.

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(Chief Executive	BY HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) he above is true, correct, and complete (7 USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
APHIS FORM 7023 CHE HAN VE FORM 18 12 JOCT V		

, Gerales VS FORM 18-23 (OCT 88), which is obsolete j

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

REQUEST TO ADD/DELETE SITES

Licensee/Registrant Name:	ectrum Health Down town Animal Research Facility
License/Registration Number:	
I/We wish to Add	Delete the following sites:
Site No.: Name/Department:	Spectrum Heath Dawntown Animal Research Facility
Address:	
	Grand Rypids, Mi 49503
Building:	Spectrom Downtown
Floor/Room:	· · ·
Contact Person:	Phone No.:
Site No.: Name/Department:	Note: It is our understanding that additional Sites need not
Address:	be listed. We are dosing our entire facility.
Puildings	
Building:	
Floor/Room: Contact Person:	Phone No.:
	FROME NO.:
Site No.: Name/Department:	
Address:	
Building:	
	Phone No.:
	10/27/00
ractitly Signature	ματε
Print Name/Title	

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This report is required by law (7) result in an order to cease and d	USC 2143) Failure to re east and to be subject i	eport according to the	regulations can ed for in Section 2150.	See reverse side for additional information.	Interagency Report Control No 0180-DOA-AN
UNITED STATE	S DEPARTMENT OF AC	RICULTURE	1. REGISTRATION $34 - R$	100. -0073	FORM APPROVED OMB NO 0579-0036
ANNUAL REPOR (TY)	T OF RESEAR (PE OR PRINT)	CH FACILITY	(b)(6). IMM 120(R-0073, Cust ld 226	ddress, as registered with USDA.
3. REPORTING FACILITY (List all to sheets if necessary)	ocations where animals	were housed or used in	n actual research, testing, teac	hing, or experimentation, or more or a	iach additional
		FAC	ILITY LOCATIONS (Siles)		······································
1200 Pankdale Rochester, 1	RJ. 483	07	· · · · · ·		
DEPORT OF ANIMALS USED BY OF		RESEARCH FACILITY	Attach aduditional sheets if ne	ecessary or use APHIS FORM 7023A.)	•
A. A. By The Animal Wellare 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 trainquilizing drugs were used.	E. Number of animals upon which the experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the programmer protection of the teaching, respectively.	or tests were ing pain or distress use of appropriate lizing drugs would cedures, results, or search, (An explanation of or distress in these lirugs were not used TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	NA	NA-	NA	\sim A	NA
-	NA	NA	NA	NA	NA
5. Cats 6. Guinea Pigs	0	R	NA	NA	8
7. Hamsters	NA	NA	NA	NA	NA
8. Rabbits	C)	64	NA	NA	64
9. Non-human Primates	NA	NA	NA	NA	NÅ
10. Sheep	NA	NIA	NA	NA	NA
11. Pigs	NA	NA	NA	NA	NA
12. Other Farm Animals	NÀ	NA	NA	NA	NA
13. Other Animals	NĄ	NA	MA.	NA-	NA
ASSURANCE STATEMENTS	I		L		

 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.

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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 HEADQUARTES RESEAR((Chief Executive Officer or Legally Responsible) certily that the above is true, correct, and complete (7	Institutional Official)	
SIGNAT	NAME & TITLE OF C.E.O	OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
APHIS (/	18 23 (Oct 88) which is obsidence)		

UNITED STATE ANIMAL AND P	S DEPARTMENT OF A	GRICULTURE		1. REGISTRATION	NO.	FORM APP OMB NO 0	
		· .		2. HEADQUARTE include Zip Cc	34-R-0121, Cust ld 424		h USDA.
ANNUAL REPOR (TY)	T OF RESEAR PE OR PRINT)	CH FACILITY			NORTHERN MICHIGAN UNIVERS 1401 PRESQUE ISLE AVENUE MARQUETTE, MI 49855	ITY	
REPORTING FACILITY (List all lo sheets if necessary)	cations where animals	were housed or used i	n actual res	earch, testing, teac	hing, or experimentation, or held for t	hese purposes. Atta	ch additional
		FAC	CILITY LOCA	ATIONS (Siles)			<u></u>
Psychology Depart	ment, Gries	Hall, NMU					
Biology Departmen	t, Seaborg S	Science Com	plex,	NMU	_		
EPORT OF ANIMALS USED BY OR	UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi] ditional sheets if ne	cessary or use APHIS FORM 7023A)		
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.	which teact-in surgery conduct accom distri-s and to anesth	er of animals upon experiments, gr, research, y, or tests were ted involving panying pain or s to the animals i which appropriate etic, analgesic, or ilizing drugs were	E. Number of animals upon which I experiments, research, surgery C conducted involving accumpany to the animals and for which the anesthetic, analgesic, or tranqui have adversely alfected the prox interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	r tests were ing pain or distress use of appropriate lizing drugs would redures, results, or isearch, An explanation of or distress in these	F. TOTAL NO OF ANIMAL (Cols. C D + E)
. Dogs						·	
5. Cats							
6. Guinea Pigs							
. Hamsters							
8. Rabbits							ļ
9. Non-human Primates							
0. Sheep							
1. Piqs							
2. Other Farm Animals							
13. Other Animals		·					
American Woodcock		46		·······		·	46
ASSURANCE STATEMENTS							

2). Each principal investigator has considered alternatives to painful procedures.

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	(Chief Executive Offi	EADQUARTES RESEARCH FACILITY OFFICIAL cer or Legally Responsible Institutional Official) ove is true, correct, and complete (7 U S C Section 2143)	
SI		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE	1. REGISTRATION NO. 34-R-0142, Cust Id 423	FORM APPROVED OMB NO. 0579-0036			
	2. HEADOUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)				
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)	Michigan Technological Uni Research & Graduate School 1400 Townsend Drive Houghton, MI 49931-1295				

FACILITY LOCATIONS (Siles)

2nd Floor, Dow Environmental Sciences and Engineering Building, Biological Sciences

REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	F RESEARCH FACILITY	(Attach adiditional sheets if ne	CESSERY OF USE APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	8. 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 NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
<u>11. Pias</u>					
12. Other Farm Animals					
				1	
13. Other Animals					
Squirrels		9			9

ASSURANCE STATEMENTS

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 Protessionally 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 toflowed by this research facility.

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(Chief Executive	Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) he above is true, correct, and complete (7 USC Section 2143).	
GNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/30/00

result in an order to cease and	lesist and to be subject	the second s	led for in Se		additional information.	0180-DOA-AN	for
UNITED STAT	ES DEPARTMENT OF A PLANT HEALTH INSPEC		d	T. REGISTRATION	-19144	FORM APPI OMB NO DS	
ANNUAL REPOR (ፖነ	T OF RESEAF PE OR PRINT)		OPY	include Zip God 870 1400 Roch	IS RESEARCH FACILITY (Name and Kedale Pharmaceuticals Parkdale Road Townsend Drive ester, MI 48307 us: Active	Address, és regislared	with USDA
. REPORTING FACILITY (List all l sheets it necessary.)	ocations where animals	were housed ar used i	n əctuəl res	earch, lesting, teac	ning, ar experimentation, ar held for t	these purposes. Alla	th additional
	<u></u>	FAC	HITY LOCA	TIONS (Siles)			
uilding 37 at Par	kedale Phar	maceuticals	. Inc.	(above a	ddress)		
			(Jehach will	illional shuafe if ne	COSSERV OF USE APHIS FORM 7023A.)		
EPORT OF ANIMALS USED BY O	B. Number of	C Number of		of primate upon	E. Number of animals upon which	leaching,	F.
Animals Covered By The Animal Wellare Regulations	animets being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animais upon which leaching, resealich, experiments, or lasts were conducted involving no pain, distrass, or use of pain- relieving drugs.	which e Heachin Surgery Conduc Bccomp distress and lor Bnesth	xperlimants, g. ressarch, . or rests ware ted involving sanying pain or s to the animals which appropriate the, analgesic, or lizing drugs were	experiments, research, surgery conducted involving accompany to the animals and for which the unesthetic, analgesic, or randu have adversely alfected the pro- interpretation of the teaching, r experiments, surgery, or tests. the procedures producing pain animals and the reasons such o must be attached to this report	ying poin or disiress e use of appropriate dising drugs would cedures, results, or esearch. (An explenation of or disiross in these drugs were not used	TOTAL NO. OF ANIMALS (Cols. C + D + E)
. Dogs							N/A
. Çals					······································		N/A
. Guinea Pigs	0	960	3	50	Q		1310
7. Hamsters							-N/A
Rabbits							N/A
Non-human Primates						····	N/A
0. Sheep							N/A
1. Pias			ļ		· · · · · · · · · · · · · · · · · · ·		N/A
2. Other Farm Animals							N/A
•			[7.7			[
3. Other Animals	0	0	4	5	0		45
SSURANCE STATEMENTS	<u>]</u>	l					
 Professionally acceptable si and following actual researce Each principal investigator i This facility is adhering to the principal investigator and a 	ch, leaching, tosting, su has considered alternal he standards and regul pproved by the institut	rgery, or experimental ives to poinful procedu ations under the Act, a junct Animat Care and	ion were fail ires. ad it has rea Use Commit	owed by this resear juired that exception les (IACUC). A sum	ns to the standards and regulations is	be specified and explait tached to this annus	inad by the
		•			exceptions, as well as the species an dequate veterinary care and to overs		
· · · ·	(Chief E		or Legall	y Responsible	H FACILITY OFFICIAL Institutional Official) ISC Section 2143)		
					OR INSTITUTIONAL OFFICIAL (Type		DATE SIGNED

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This report is required by law (7 result in an order to cease and	7 USC 2143) Failure to desist and to be subject	report according to th to penalties as provid	e regulation: led for in Se	s can ction 2150.	See reverse side for additional information.	Interagency Repo 0180-DOA-AN	ori Contrat Ma
UNITED STAT	TES DEPARTMENT OF A PLANT HEALTH INSPEC	GRICULTURE		1 REGISTRATION	NO. - R-0146	FORM APP OMB NO 0	
	د.		5. S *	2. HEADQI' include 34-R-	0146, Cust ld 8994	'00	t with USDA,
·	(PE OR PRINT)			ROM	CAMPGROUND RD. EO, MI 48065	3 0 200	
3. REPORTING FACILITY (List all sheets if necessary)	locations where animals	were housed or used	in actual res	earch, testing, teac	hing, or experimentation, or held for	Ihese purposes. Atta	ch additional
				TIONS (Sites)			
72011 Cumpgr	cund Rome	o mi 481)65				
PERORT OF ANIMALS LISED BY C	B UNDER CONTROL OF	RESEARCH FACILIT	(Attach adı	ditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A A Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in feaching, festing, 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 which a teachin surgery conduct accom distress and for anesthe	r of animals upon experiments, g, research, r, or tests were ted involving panying pain or s to the animals s to the animals which appropriate etic, analgesic, or lizing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompan to the animals and for which th anesthetic, analgesic, or tranqu- have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests the procedures producing pain animals and the reasons such must be attached to this report,	teaching, or tests were ying pain or distress e use of appropriate illzing drugs would ocedures, results, or esearch, (An explanation of or distress in these drugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs			ļ				
7. Hamsters			L		······································		
8. Rabbits	8		L	7			67
9. Non-human Primates				······································			
10. Sheep							
11. Piqs			ļ				
12. Other Farm Animals			 		·		
13. Other Animals							
				<u></u>			
	<u> </u>						
ASSURANCE STATEMENTS							
 Professionally acceptable s and following actual resear 					ate use of anesthetic, analgesic, and ch facility.	tranquilizing drugs, p	prior to, during,

2). Each principal investigator has considered alternatives to painful procedures.

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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 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 includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lertify that the above is true, correct, and complete (7 USC Section 2143)				
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
		11/28/00		

This report is required by law (7 result in an order to cease and d	USC 2143) Failure to r	eport according to the to penalties as provide	regulations can ed for in Section 2150.	See reverse side for additional information.	Interagency Report Control No 0180-DOA-AN
UNITED STATE	ES DEPARTMENT OF A	GRICULTURE	1. REGISTRATIC	NNO. 34 - R - 0]47	FORM APPROVED OMB NO 0579-0036
ANNUAL REPOR (TY	T OF RESEAR PE OR PRINT)	CH FACILITY	WES 3201	-0147, Cust ld 10106), (b)(7)C / MICHIGAN REGIONAL LABS T MICHIGAN REG LABS, CALVIN CO BURTON ST., SE ND RAPIDS, MI 49506	910d with USDA
3. REPORTING FACILITY (List all to sheets if necessary)	ocations where animals	were housed or used i	n actual research, testing, tea	aching, or experimentation, or held for t	hese purposes. Attach additional
		FAC	CILITY LOCATIONS (Sites)		······································
See	#2				
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if	necessary or use APHIS FORM 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, 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 appropria anesthetic, analgesic, or tranguilizing drugs were used	to the animals and for which the anesthetic, analgesic, or tranqu have adversely attected the pro interpretation of the teaching, r the procedures producing pain any for the cases such or the procedures producing pain	or tests were ying pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these drugs were not used
4. Dogs	0	0	8	0	8
5. Cats	0	0	18	0	18
6. Guinea Pigs	0	0	27	0	27
7. Hamsters	0	0	0	0	0
8. Rabbits	2	0	154	0	154
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	00	15	0	15
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0
ASSURANCE STATEMENTS					

t) 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.

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	CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Electify that the above is true, correct, and complete (7 U S C Section 2143)	
SI	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
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This report is required by law (7 result in an order to cease and d	USC 2143). Failure to r	report according to the to penalties as provide	e regulations ed for in Sec	can tion 2150.		See reverse side for additional information.	Interagency Repo 0180-DOA-AN	rt Control No
UNITED STATE	S OFPARTMENT OF A	GRICULTURE	1	1. REGISTRATION	NO.		FORM APPI	ROVEQ
ANIMAL AND P	LANT HEALTH INSPEC	TION SERVICE		3 34-R-	-014	48	OMB NO. 05	579-0036
				2. HEADOUARTER include Zip Cod	S RESE	EARCH FACILITY (Name and	Address, as registered	with USDA,
ANNUAL REPOR	T OF RESEAR	CH FACILITY	3		T :	SRL, Inc.		
(TY	PE OR PRINT)				54	40 Avis Dr.,	Suite A	
		Ns. / −2 8 2				nn Arbor, MI		
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used in	n actual resi	earch, testing, teac	ning, or	experimentation, or held for t	hese purposes. Attac	ch additional
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540 Avis Dr.,	Suite A,	Ann Arbor	, MI	L				
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adie	ditional sheets il no				
A. Animals Covered By The Animal	 B. Number of animals being bred, conditioned, or 	C Number of animals upon which teaching, research,	which e teachin	r of animals upon experiments, g, research, s, or tests were	ex co to	umber of animals upon which periments, research, surgery inducted involving accompan- the animals and for which th	or tests were ying pain or distress e use of appropriate	F. TOTAL NO.
Weltare Regulations	held for use in teaching, testing, experiments, research, or	experiments, or tests were conducted involving no	conduc accomp distress	ted involving banying pain or to the animals which appropriate	ha ini ex	nesthetic, analgesic, or tranqui ne adversely affected the pro- terpretation of the teaching, r speriments, surgery, or tests	cedures, results, or esearch, (An explanation of	OF ANIMALS (Cols. C +
	surgery but not yet used for such purposes.	pain, distress, or use of pain- relieving drugs.	anesthe	atic, analgesic, or lizing drugs were	ar	e procedures producing pain nimals and the reasons such ust be attached to this report	drugs were not used	D + E)
4. Dogs						<u></u>		
5. Cats								
6. Guinea Pigs				3				3
7. Hamsters								
8. Rabbits			ļ		ļ			<u> </u>
9. Non-human Primates			 	<u></u>	<u> </u>		<u></u>	<u> </u>
10. Sheep					<u> </u>		<u> </u>	·
11. Pigs						**** _** <u>******************************</u>		
12. Other Farm Animals				<u></u>			<u></u>	
13. Other Animals								
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ASSURANCE STATEMENTS 1) Professionally acceptable st	in day de powerping the	ene trestment abdu	uto of anima	le including appro	iate us	a of anesthetic analoesic and	t tranquilizing drugs d	prior to during
and following actual researc	ch, teaching, testing, su	irgery, or experimentat	tion were fol	lowed by this resea	rch lac	lility.	s condourning anado' t	, and the additional of the second
2). Each principal investigator								- 1
addition to identifying the l	pproved by the Institut ACUC-approved except	ional Animal Care and lions, this summary inc	Use Commi Iudes a brie	Hee (IACUC). A su t explanation of the	mmary except	of all such exceptions is a lions, as well as the species a	flached to this annu nd number of animals	al report. In allected.
4) The attending veterinarian f animal care and use.	lor this research facility	has appropriate autho	ority to ensu	re the provision of	adequa	le veterinary care and to over	see the adequacy of o	ther aspects of
	CINDENTIALO	ATTACAN DV UISA	DOLLA D		CUL E	A CILITY OFFICIAL		

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 USC Section 2143)					
CIGNATINE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
		11/24/20			

Thus report is required by law (7 result in an order to cease and u	USC 2143) Failure to Jesist and to be subject	report according to th To penalties as provid	ie regulations Jed for in Sect	can '	U See reverse side for additional information	liiteragency Bep 0180-DOA-AN	ort Control No
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	NO.	FORM APP OMB NO 0	
	مى جى	NUV 2	e	2. HEADQUAF include Zir 34	-R-0015. Cust Id 124	Address, as registered	with USDA,
	ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				IARMACIA & UPJOHN 1 HENRIETTA STREET LAMAZOO, MI 49007		
3. REPORTING FACILITY (List all lo sheets if necessary.)	ocations where animals	were housed or used i	in actual resea	arch, testing, lead	hing, or exponence.	1 3	ch additional
	<u> </u>	FAC	CILITY LOCAT	ION\$ (Sites)			
One unified site	, as indicat	ed in Item	2.	•			
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REPORT OF ANIMALS USED BY OF	ONDER CONTROL OF	RESEARCH FACILITY	f (Attach adidi	tional sheets if ne	CESSURY OF USE APHIS FORM 7023A.)	·	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, research, or surgery but not yet used for such	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-	which ex teaching, surgery, i conducte accompa distress t and for w anestheti	of animals upon periments, , research, or lests were ed involving mying pain or to the animals hich appropriate ic, analgesic, or ring drugs were	E Number of animals upon which experiments, research, surgery conducted involving accompar to the animals and for which It anesthetic, analgesic, or trang have adversely affected the pr interpretation of the teaching, experiments, surgery, or tests, the procedures producing pair animals and the reasons such	or tests were sying pain or distress we use of appropriate uilizing drugs would ocedures, results, or research, (An explanation of or distress in these	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	purposes.	relieving drugs. 613	used.		must be attached to this report		843
5. Cats	· ·	495	4		0		544
6. Guinea Pigs		421		8	· 17		446
7. Hamsters	i	75		0	0		75
8. Rabbits		514	18	2	-244	1	940
9. Non-human Primates		488	4	5	* + 30		563
10. Sheep		0		0	0		0
11. Pigs		0	2	3	0		23
12. Other Farm Animals				· · · ·			
Horses		2		0	7 98		100
13. Other Animals							
Gerbils		1700		0	', 122 1		2921
Ferrets		0		2	6		8
Chinchilla ASSURANCE STATEMENTS		142		0	242		384

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PART 1 - HEADON ARTERS

Explanation of Animal Use Listed in Column E

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Attachment to USDA Annual Report Registration No. 34-R-0015 November 2000

4.	Dogs:	These seventy-one (71) animals were used in safety/toxicity evaluations, the results of which will be used to support registration of Pharmacia & Upjohn proprietary compounds. Many of these compounds are being developed for the treatment of critical diseases in humans, primarily central nervous system (CNS) disorders and infectious diseases. Studies to characterize the toxicity of new pharmaceuticals must be done in a nonrodent species, and alternative methodologies alone are not sufficient. [Title 21, Code of Federal Registry (CFR) 58 (Good Laboratory Practice for Non-clinical Laboratory Studies), 312 (Investigational New Drug Applications), CFR 314 (Applications for FDA Approval to Market A New Drug), CFR 511 (New Animal Drugs for Investigational Use), CFR 514 (New Animal Drug Applications); numerous sections apply in each of these.] In a safety evaluation, administration of analgesics is not possible as analgesics may alter the animals' response to the test compound or otherwise confuse interpretation of the study, which would result in a need to repeat studies, using additional animals. However, other nursing and supportive care is provided by the veterinary staff, as indicated.
6.		These seventeen (17) animals were used in a model of vaginal herpes disease to evaluate the efficacy of novel therapeutic compounds. The experimentally induced condition was necessary to provide an accurate model in which to test compounds designed to provide protection. Administration of analgesic drugs could alter the animals' response to the test compounds or otherwise confuse interpretation of the study, which would result in a need to repeat studies, using additional animals. The potential for confused interpretation is particularly a concern in infectious disease studies, where masking of clinical signs with pain relievers or anti- inflammatory drugs may provide false information on test article efficacy. However, in these situations, other supportive and nursing care is provided as indicated.
8.		Five (5) of these animals were used in Developmental and Reproductive Toxicity (DART) studies. The use of pain relieving drugs could potentially interfere with interpretation of the results of these federally mandated studies, which are required to support registration of proprietary compounds, and could result in the need to repeat studies with additional animals. (See regulations and treatment limitations listed under <i>Dogs</i> , above.)

USDA Report – Attachments Pharmacia & Upjohn – Registration No. 34-R-0015 Page 1

Sixty (60) of these animals were subjects in a study designed to determine the efficacy of novel therapeutic compounds for the treatment of endocarditis. This is life-threatening condition in humans and in animals, and some animals become very ill as a result of treatment with the bacterial agent, causing variable levels of distress. The remaining 179 animals were subjects in another infectious disease study designed to assess the safety and efficacy of novel vaccine candidates for the prevention of Pasteurella infections. Rabbits are quite sensitive to these agents, hence their use in this preliminary screening process, and untreated control animals may develop upper respiratory infections or other manifestations of pasteurellosis following challenge with the infectious agent. As with other studies designed to provide data to support registration of new clinical entities, administration of analgesics is not possible as they may alter the animals' response to the test compound or otherwise confuse interpretation of the study, invalidating the resulting data and creating a need to repeat studies with additional animals. The potential for confused interpretation is particularly a concern in infectious disease studies, where masking of clinical signs with pain relievers or antiinflammatory drugs may provide false information on test article efficacy. In these situations, other supportive and nursing care is provided as indicated, and animals not responding to treatment are euthanized promptly.

9. Non-human Primates:

These thirty (30) animals were used in safety/toxicity evaluations, the results of which will be used to support registration of Pharmacia & Upjohn proprietary compounds. (See regulations listed under *Dogs*, above.) Studies to characterize the toxicity of new pharmaceuticals must be done in both a rodent and non-rodent species; primates are used as the second species only when metabolism, kinetics or some other factor precludes the use of purpose-bred beagles in pre-clinical toxicology studies. In this type of evaluation, administration of analgesics is not possible as they may alter the animals' response to the test compound or otherwise confuse interpretation of the study, invalidating the resulting data and creating a need to repeat studies using additional animals. However, other nursing and supportive care is provided by the veterinary staff, as indicated.

12. Other Farm Animals

Horses: Two (2) of these animals were subjects in a safety/toxicity evaluation, the results of which will be used to support registration of a Pharmacia &

USDA Report – Attachments Pharmacia & Upjohn – Registration No. 34-R-0015 Page 2 Upjohn proprietary compound for use in horses. (See regulations and treatment limitations listed under *Dogs*, above.)

The remaining ninety-six (96) animals were used in an FDA-approved procedure for the production of a biological product derived from horse plasma; this product is currently the treatment of choice for children with aplastic anemia, and is also an important adjunct therapy for patients receiving organ transplants. Pain/distress ranged from slight to moderate. Although efforts have been made to refine the procedure to minimize pain/distress, and appropriate nursing and supportive care is provided as indicated, the product license of manufacture does not permit any deviation from the outline of manufacture during the course of the protocol, including the administration of analgesics.

13. Other Animals

Gerbils:

1173 of these animals were used in the development and implementation of an alternate model of middle ear infection to evaluate the efficacy and pharmacokinetics of novel antimicrobial agents in pre-clinical studies. This localized infection model may result in some ear pain and consequent distress (ranging from very slight to moderate, based upon clinical appearance and behavior) in untreated animals. As with other studies designed to provide data to support registration of new clinical entities, administration of analgesics is not possible as they may alter the animals' response to the test compound or otherwise confuse interpretation of the study, invalidating the resulting data and creating a need to repeat studies using additional animals. The potential for confused interpretation is particularly a concern in infectious disease studies, where masking of clinical signs with pain relievers or anti-inflammatory drugs may provide false information on test article efficacy. However, in these situations, other supportive and nursing care is provided as indicated.

Thirty-six (36) of these animals were used to evaluate an alternative drug delivery method for a new antibiotic agent that is currently in development. This involved a minor surgical procedure, and these animals underwent recovery from anesthesia without the benefit of post-operative analgesics, as there was a concern that such drugs would alter the pharmacokinetics of the drug in an unknown fashion. This was a pilot study, and as the test method of drug delivery was not adopted, this procedure was conducted only once.

The remaining twelve (12) animals were used in a screening assay by which compounds with in vitro anthelmintic activity can be evaluated for in vivo activity prior to testing in the target host species, sheep and cattle. This model secondarily serves as a screen for toxicity, and very occasionally, animals will experience toxicity in response to treatment with a new clinical entity; these animals are euthanized promptly. Animals will also, very rarely, become ill prior to treatment as a result of their parasite burden. These animals are also euthanized promptly.

- Ferrets: These six (6) animals were subjects in a study designed to establish a model of emesis (vomiting) that could be used to characterize this adverse side effect of a certain class of CNS-active compounds currently under investigation. This group of animals received a positive control compound (known to cause emesis in ferrets). The emesis was not of sufficient frequency or duration to cause pain or lasting harm to the animals, but it may have been associated with nausea, which is considered distressful in humans. The effects of the positive control compound were of very short duration (3-5 minutes) and no intervention was necessary.
- **Chinchillas:** These 242 animals were used in a well-established model of middle ear infection to evaluate the efficacy and pharmacokinetics of novel antimicrobial agents in pre-clinical studies. This localized infection model may result in some ear pain and consequent distress (ranging from very slight to moderate, based upon clinical appearance and behavior) in untreated animals. As with other studies designed to provide data to support registration of new clinical entities, administration of analgesics is not possible as they may alter the animals' response to the test compound or otherwise confuse interpretation of the study, invalidating the resulting data and creating a need to repeat studies using additional animals. The potential for confused interpretation is particularly a concern in infectious disease studies, where masking of clinical signs with pain relievers or antiinflammatory drugs may provide false information on test article efficacy. However, in these situations, other supportive and nursing care is provided as indicated.

Exceptions to Standards and Regulations

Attachment to USDA Annual Report Registration No. 34-R-0015 November 2000

The following exceptions to standards and regulations under the Act were approved by the IACUC during this reporting period:

- Under Animal Use Protocol #0302e-1999, repeated use of complete Freund's adjuvant (CFA) as part of an immunogen in horses was approved. The immunization process is required in the outline of manufacture for a biological that is the drug of choice for treatment of aplastic anemia and which is also an important part of adjunct therapy in transplant patients. This protocol impacted 96 animals this year (see above). The injection of immunogen typically causes exterior lesions at the injection site which are sterile; the course of the lesions through the protocol varies with individual animals and is closely monitored by study personnel and the Attending Veterinarian. Research and discussion aimed at minimizing the impact of the protocol on the horses has taken place, but the product license, originally granted in 1982, requires CFA for the immunogen and CBER will not permit changes to the outline of manufacture. The IACUC closely monitors this protocol when it is active and is kept current on all efforts to refine the procedure by the investigators.
- Under Animal Use Protocol #0003c-1999, the cat enclosures are not cleaned and sanitized every two weeks. This involved 467 cats during this reporting period. These cats were on studies involving vaccination followed by challenge with wild-type feline viruses. Because of the risk of contaminating other rooms if the cats were moved during sanitization, the rooms were only sanitized between studies (every 6-12 weeks). Granting an exception from the two-week sanitization schedule had little effect on the living conditions of the animals. The rooms and runs were washed down each day. While the washing proceeds, the cats jump onto perches within the runs and do not get wet. This allows the lower part of the runs and floors to be cleaned daily. During inspections, there have been no concerns about cleanliness. This regimen does allow a small deposit of dust and dander to accumulate on the top rails of the runs, but this is minimal. When a study is completed, runs are washed and disinfected before new animals enter the space.
- Under Animal Use Protocol #0354c-1999, the IACUC approved an increase in the sanitization interval for dog runs from 14 days to up to 28 days, total. This impacted 36 dogs during this reporting period. These dog were on studies where food consumption data was critical, and this was markedly disrupted by moving the animals out of the room in order to clean, adding an additional variable to the study. Granting this exception from the two-week
 -sanitization schedule has had little effect on the living conditions of the animals. The runs are washed down each day (which seems minimally disruptive to the animals' food consumption), and during inspections, there have been no concerns about cleanliness. At the end of each 4-week study, runs are washed and sanitized per usual.

Under Animal Use Protocols #0084-1998 and #0085-1998, dogs and nonhuman primates (NHPs) were occasionally housed in stainless steel metabolism cages (providing at least 1X space) for pharmacokinetics studies involving radiolabeled compounds, necessitating limited exemptions from the enrichment plans for these species. This impacted thirty (30) dogs and thirty-one (31) NHPs during this reporting period. The dogs were housed in metabolism cages for 1-3 days. They did not have access to manipulata or exercise outside of the cage during this time, due to the use of radioactivity and the potential for contamination. The NHPs were housed in metabolism cages for 1-3 days. They did not have access to manipulata throughout this study period, but received fruit treats daily.

Short-term exemptions from exercise for post-surgical recovery were granted by the IACUC as follows:

- Twelve (12) dogs under Animal Use Protocol #0426d-2000 underwent surgical procedures required to prepare them for participation in cardiovascular monitoring studies. These animals were exempted from exercise for a 14-day recovery period, after which time they were able to resume normal activity.
- Two (2) dogs under Animal Use Protocol #0352d-1999 underwent surgical procedures required to prepare them for participation in drug metabolism studies. These animals were exempted from exercise for a 14-day recovery period, after which time they were able to resume normal activity.
- Two (2) dogs under Animal Use Protocols #0010d-1999 & #0444d-2000 underwent surgical procedures for neutering purposes. These animals were exempted from exercise for a 10-day recovery period, after which time they were able to resume normal activity.
- The IACUC has authorized the Attending Veterinarians to grant very short-term exemptions to the mandatory sanitization intervals under exceptional circumstances, providing that they personally view and evaluate the housing situation and determine that there would be no compromise to animal welfare standards by allowing the cage change to wait for one or two additional days. In these situations, the Attending Veterinarian must observe the room in question, then annotate the room maintenance record (RMR), stating that the exception has been granted. A copy is made of the RMR and a separate file documenting these exceptions is maintained in the Attending Veterinarian's office as well. Four exemptions of this nature were granted for dogs this reporting period, each involving a 24-hour extension and impacting a total of forty-one (41) animals. Exemptions were also granted for primates during this period, involving a 24-hour extension for eighteen (18) rhesus macaques and a 48-hour extension for twenty-four (24) cynomologus monkeys.

USDA Report – Attachments Pharmacia & Upjohn – Registration No. 34-R-0015 Page 6

equired by law t der to cease and	7 USC 2143) Failure to I desist and to be subject	report according to th 1 to penalties as provid	e regulations can ded for in Section 2150	See reverse side for (0)	Interagency Report Control No 0180-DOA-AN
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			<u>34-R-O</u>		OMB NO 0579-0036
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				54943 N. MAIN STREET	
				MATTAWAN, MI 49071	<u> </u>
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REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	/ (Attach adiditional sheets if ne	CESSERY OF USE APHIS FORM 7023A)	
A	B. Number of animals being	C Number of	D. Number of animals upon	E. Number of animals upon which tea	
Animals Covered By The Animal Welfare Regulations	bred, conditioned, or held for use in teaching, testing, experiments,	animals upon which leaching, research, experiments, or tests were conducted	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals	experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquiliz have adversely affected the proce- interpretation of the teaching, rese	tests were g pain or distress se of appropriate ing drugs would dures, results, or serch,
	research, or surgery but not yet used for such purposes.	involving no pain, distress, or use of p ain - relieving drugs.	and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, surgery, or tests. (Ar the procedures producing pain or animals and the reasons such dru must be affached to this report).	distress in these D + E)
4. Dogs	0	883	270	0	1153
5. Cats	0	48	32	0	80
6. Guinea Pigs	0	0	<u> </u>	15	15
7. Hamsters	0	128	0	0	128
8. Rabbits	0	387	592	0 ·	979
9. Non-human Primates	102	228	190	0	418
10. Sheep	0	0	0	0	0
11. Piqs	0	34	18	0	52
12. Other Farm Animals					
13. Other Animals					
·····					
ASSURANCE STATEMENTS					

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
		11/28/00				

APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolute) (AUG 91)



Annual Report of Research Facility November 28, 2000

Registration No: 34-R-0031 MPI Research, Inc. 54943 North Main Street Mattawan, MI 49071

Detailed Explanation of Animals Presented in Column E:

Consistent with the USDA's Animal Care Resource Guide, Policy #11 regarding Painful Procedures, we have included all animals that were injected with Freund's Complete Adjuvant, in Column E. When consistent with the experimental objectives, procedures are used to minimize potential pain or distress, including treatment.

15 guinea pigs indicated in Column E received Freund's Complete Adjuvant as a component of Skin Sensitization Studies (Maximization Method). These nonclinical laboratory studies are conducted in accordance testing guidelines as set forth by the United States Environmental Protection Agency (EPA), Toxic Substances Control Act (TSCA), Health Effect Test Guidelines, 798.4100; EPA, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Series 81-6; The Japanese Ministry of Agriculture, Forestry and Fisheries (JMAFF) "Testing Guidelines for Toxicology Studies (59 NohSan No. 4200); and the Organization for Economic Cooperation and Development (OECD), Guidelines 406, Skin Sensitization. The Freund's Complete Adjuvant is administered, on a single occasion, intradermally. Although these injections typically produce skin ulcers at the injection sites, other clinical signs of pain or distress are not observed. The use of analgesics could potentially interfere with the interpretation of the Skin Sensitization Tests. Alternatively, skin sensitization studies using the Buehler Method, which does not include the use of Freund's Complete Adjuvant, are used whenever possible if scientifically acceptable.

This report is required by law (7 regularing an order to cease and c	USC 2143) Harrier to desist and to be subject	report according to th 1 to penalties as provid	e regulations can led for in Section 2150.	additional information	0180-DOA-AN	
	ES DEPARTMENT OF A PLANT HEALTH INSPEC	TION SERVICE	1. REGISTRATIO	N NO.	FORM APP OMB NO 0	
ANNUAL REPOR		CH FACILITY	C ZUD include Zip Co	RS RESEARCH FACILITY (Name and A di 34-R-0027, Cust ID 1		with USOX
(TY	PE OR PRINT)			BioPort Corporation		
				3500 N. MLK Blvd.		
3. REPORTING FACILITY (List all le sheets if necessary.)	ocations where animals	were housed or used	in actual research, testing, tead	Lansing, MI 48906	· .	ditional
		, FA	CILITY LOCATIONS (Siles)	· · · · · · · · · · · · · · · · · · ·		
Bu	ildings 31,	45, 12			•	
		<u> </u>		· · · · · · · · · · · · · · · · · · ·		
REPORT OF ANIMALS USED BY OF				ecessary or use APHIS FORM 7023A)		
Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, 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 fe experiments, research, surgery or conducted involving accompanyin to the animals and for which the anesthetic, analgesic, or tranquili have adversely affected the proce- interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dra must be attached to this report).	tests were ing pain or distress use of appropriate zing drugs would edures, results, or search, in explanation of r distress in these	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	N/A					
5. Cats	N/A					
6. Guinea Pigs	1000	2106	333	2885		5324
7. Hamsters	N/A					
8. Rabbits	0	100	0	0		100
9. Non-human Primates	N/A					
10. Sheep	N/A					
11. Pigs	N/A	<u></u>				
12. Other Farm Animals	N/A					
13. Other Animais	N/A					
ASSURANCE STATEMENTS				1		

1). Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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.

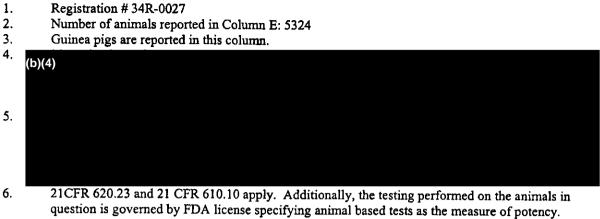
3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary 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 Ticer or Legally Responsible Institutional Official) xove is true, correct, and complete (7 U.S.C. Section 2143)
SIGNATURE	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGNI
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Column E Explanation



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