

NCVDLS Annual Report

North Carolina Veterinary Diagnostic Laboratory System

Volume 5

2/20/2017

2015-2016



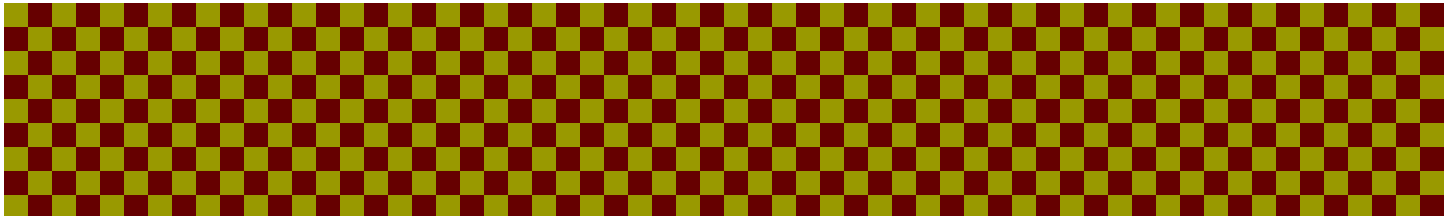
North Carolina Department of Agriculture
& Consumer Services
Veterinary Division

Steven W. Troxler, *Commissioner of Agriculture*
R. Douglas Meckes, DVM, *State Veterinarian*
James Trybus, DVM, DACVP, *Director of Laboratories*

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Table of Contents

Page	
2	Mission Statement/Message from the Director
3-6	Facilities and Laboratory Personnel
7-8	External Laboratory Advisory Committee
9	Budget and Facility Information
10	Improvements, New Equipment & New Test Procedures
10	Professional Development and Outreach
11	Proficiency Testing
12-14	NCVDLS Accession Information



NCVDLS Facilities

Rollins Animal Disease
Diagnostic Laboratory
2101 Blue Ridge Road
Raleigh, NC 27607
(919) 733-3986

Northwestern Animal Disease
Diagnostic Laboratory
1689 N. Bridge St.
Elkin, NC 28621
(336) 526-2499

Western Animal Disease
Diagnostic Laboratory
785 Airport Road
Fletcher, NC 28732
(828) 684-8188

Griffin Animal Disease
Diagnostic Laboratory
401 Quarry Rd.
Monroe, NC 28112
(704) 289-6448

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NCVDLS Mission Statement

It is the mission of the North Carolina Veterinary Diagnostic Laboratory System to provide veterinarians, the animal industry, and the citizens of North Carolina with accurate and timely laboratory support services in order to diagnose, conduct surveillance, and assist in responding to and preventing animal disease. Both protection of public health and the food supply are Important components of this mission.



Message From the Director

On an annual basis, we assemble summaries of the activities within the North Carolina Veterinary Diagnostic Laboratory System (NCVDLS). The information contained within is for the period between July 1, 2015 and June 30, 2016. Data from all four laboratories comprising our system are included.

Services have been on the increase, with an escalation of 5.33% overall in laboratory accessions when compared to the previous fiscal year. We hope you find this information to be both interesting and useful. Our goal, as always, is to provide clients with accurate and timely service to meet our Mission, as stated above. Please do not hesitate to contact me about this annual report, if you have questions.

Respectfully yours,

A handwritten signature in black ink, appearing to read 'James Trybus', written in a cursive style.

James Trybus, DVM, D-ACVP

NCVDLS Facilities and Laboratory Personnel

Rollins Animal Disease Diagnostic Laboratory

1031 Mail Service Center
Raleigh, NC 27699-1031
Phone: (919)733-3986
Fax: (919)733-0454

Director of Laboratories

James Trybus DVM, D-ACVP

Assistant Director

Richard Mock, PhD

Administrative Staff

Cheryl Hearn	Administrative Officer I
Mechelle Johnson	Administrative Assistant I
Rebecca Boone	Processing Assistant IV
Carol Garbarino	Processing Assistant IV
Paul Miller	Processing Assistant III
Cindy Orlosky	Processing Assistant V
Brandy Rodgers	Processing Assistant IV
Tamara Seago	Processing Assistant V
Dominic Gonzalez	Medical Laboratory Assistant II
Dell Weaver	Medical Laboratory Assistant II

Bacteriology

Sandy Murphy, BS, M-ASCP	Medical Laboratory Supervisor I, Section Supervisor
Melissa Cox	Medical Laboratory Technologist I
Lee Goldbach, MS	Medical Laboratory Technologist I
Megan Flowers, BS	Medical Laboratory Technician II
Richard Koch	Medical Laboratory Technologist I
Elizabeth Ortiz, BS	Medical Laboratory Technologist II
Bill O'Shields	Medical Laboratory Assistant III
Jeri Smart, BS,	Medical Laboratory Technologist I
Sommer Souther, BS	Medical Laboratory Technologist I
Laura Tweed	Medical Laboratory Technologist I

Building Maintenance

Stephen Szymczyk	Maintenance Mechanic V, Section Supervisor
Joey Stephenson	Maintenance Mechanic IV

Information Technology

Josh Shepherd	Business and Technology Applications Analyst, Section Supervisor
Talley Ouro	Business and Technology Applications Analyst

Molecular Diagnostics

Beverly Wood, BS, MT-ASCP	Laboratory Medical Specialist, Section Supervisor
Neeti Dahal, BS, PhD	Medical Laboratory Technologist II
Youngee Lee, MS, BS	Medical Laboratory Technologist II
Chad Menard, BS	Medical Laboratory Technologist III
Ashlee Zack, BS,	Medical Laboratory Technologist II

Pathology Services Coordinator

James Trybus, DVM, D-ACVP

Avian Pathologist

Tahseen Abdul Aziz, DVM, MS, PhD, D-ACPV

Anatomic Pathologists

Allison Boone, DVM, D-ACVP
Steve Rushton, DVM, D-ACVP
Alison Tucker, MS, VMD, D-ACVP

Diagnosticians

Mahogany Caesar, MS, DVM
Jennifer Haugland, DVM
Stacy Robinson, DVM

Necropsy Assistant

Jennifer Burgoyne, BS Medical Laboratory Technician II

Histopathology

Mary Baker, HT-ASCP Medical Laboratory Technologist III, Section Supervisor
Marcia Sutton, ASGE Medical Laboratory Technologist I
Judy Liverman Medical Laboratory Technician II
Cindy Nipper, HT-ACSP Medical Laboratory Technologist I

Immunohistochemistry

David Weil, BS, HT-ASCP Medical Laboratory Technologist I

Quality Assurance and Safety

Tina Buffington, BS Medical Laboratory Supervisor III, Quality Manager
Ghazala Jawad, MS Medical Laboratory Supervisor III, Quality Manager
Connie Howen Processing Assistant IV
Paul Hutter, BS Safety Officer III, Division Safety Officer

Serology

Kristen Crook, BS, PhD Medical Laboratory Technologist III, Section Supervisor
Brandon Brown, BS Medical Laboratory Technologist I
Kim Gooden Medical Laboratory Technologist I
Aisha Phipps, BS Medical Laboratory Technologist I

Virology

Chad Cecil BS, PhD Medical Laboratory Supervisor III, Section Supervisor
Jonathan Fox, BS Medical Laboratory Technician II
Kim Howle, BA, MS Medical Laboratory Technologist III
Fuhing Lo, BS Medical Laboratory Technician II
Angie Murphy, BS Medical Laboratory Technologist II
Excel Swann, BS Medical Laboratory Technologist I
Jenna Hunter, BS Medical Laboratory Technologist I
Amy Nipper, BS Medical Laboratory Technologist I
Carla Spears, BS Medical Laboratory Technologist I

NCVDLS Branch Facilities

Griffin Animal Disease Diagnostic Laboratory

401 Quarry Road
Monroe, NC 28112
Phone: (704)289-6448
Fax: (704)283-9660

Kim Hagans, DVM	Resident Director
Reg Ridenhour, DVM	Veterinary Diagnostician
Sherry Casey	Processing Assistant IV
Kathy Harwood, AAS	Medical Laboratory Technologist I
Jimmy Walters	Medical Laboratory Technician I
Carrie Lichtenhan, BS	Medical Laboratory Technician II
Kristie Long	Medical Laboratory Technician II

Northwestern Animal Disease Diagnostic Laboratory

1689 N. Bridge St.
Elkin, NC 28621
Phone: (336)526-2499
Fax: (336)526-2603

David Ackerman,	Resident Director
Jessica Kees, DVM	Veterinary Diagnostician
Barbara Bright, BS	Medical Laboratory Technologist II
Marcella Galyean, AAS	Medical Laboratory Technician II
Dana Kelly	Veterinary Laboratory Assistant I
Cindy Smith	Processing Assistant IV

Western Animal Disease Diagnostic Laboratory

785 Airport Road
Fletcher, NC 28732
Phone: (828)684-8188
Fax: (828)687-3574

Richard Oliver, DVM	Resident Director
David Drum, DVM, MS	Veterinary Diagnostician
Darlene Ayers	Processing Assistant IV
Lia Barth, BS	Medical Laboratory Technician II
Wilson Smith	Medical Laboratory Assistant II
Mary Swanson, DVM	Medical Laboratory Technician II

SERVICE MILESTONES, 2015-2016

Dr. Mary Swanson	10
Cindy Orlosky	10
Dr. Taheen Aziz	10
Dr. Stacy Robinson	15
Kristie Long	20
Kathy Harwood	25
Kim Gooden	30
Paul Miller	30



RETIREMENTS

Dr. Karen Post	Director	12/1/2015
William O'Shields	Rollins Laboratory Bacteriology	10/1/2015
Helen Tang	Rollins Laboratory Virology	12/1/2015
Fuhing Lo	Rollins Laboratory Virology	3/1/2016

External Laboratory Advisory Committee Members

NAME	EMAIL ADDRESS
Deborah Johnson, Executive Director NC Pork Council	deborah@ncpork.rog
Dr. Eric Gonder, Veterinarian Butterball	egonder@butterball.com
Dr. Allen Cannedy Small Ruminant Veterinarian	goat-doc@mymobilevet.com
Sue Gray, Executive Director NC Horse Council	suegray@nchorsecouncil.com
Dr. Randy Jones Mixed Animal Veterinarian Swine Practice, Kinston, NC	rjones@livestockvet.com
Harry Snelson,, Executive Director American Association of Swine Veterinarians	snelson@aasv.org
Bryan Blinson, Executive Director NC Cattlemen	bryan@nccattle.com
Don Butler, Director of Government Relations & Public Affairs Murphy Brown	dpbutler@smithfield.com
Dr. Becky Tilley, Veterinarian Butterball	btilley@butterball.com
Dr. Betsy Sigmon, Veterinarian Small Animal Practice	btsigmon@aol.com
Dr. Chad Smith, Veterinarian Swine Practice, Goldsboro Milling	chad.smith@goldsboromilling.com
Dr. Paula Cray, Department Head Population Health & Pathobiology, NCSUCVM	pjcray@ncsu.edu
Dr. Richard Kirkman, Veterinarian Large Animal, Siler City, NC	rkirkman@combuy.com

The NCVDLs established an External Laboratory Advisory Committee (ELAC) in 2005. Our initial purpose was to better serve our clients by uniting a diverse group of veterinarians and industry representatives to discuss the laboratory's offered services, as well as legislation that directly affected our mission. We are appreciative of their time and advice.

External Laboratory Advisory Committee Members cont'

NAME	EMAIL ADDRESS
Dr. Rich Sharpton, Veterinarian Poultry, Perdue Milling	rick.sharpton@perdue.com
Dr. Shannon Jennings, Veterinarian Poultry, House of Raeford	shannon.jennings@houseofraeford.com
Dr. Jennifer Haugland, Veterinarian Diagnostician NCDA&CS, Rollins Animal Disease Diagnostic Laboratory	jennifer.haugland@ncagr.gov
Norman Jordan, Past President NC Dairy Producers Association	njordan7483@gmail.com
Reid Smith, Current President NC Dairy Producers Association	reid@linwooddairygroup.com
Dr. Douglas Meckes, State Veterinarian NCDA&CS, Veterinary Division	doug.meckes@ncagr.gov
Dr. James Trybus, Director of Laboratories NCDA&CS, Veterinary Division	james.trybus@ncagr.gov
Bob Ford, Executive Director Poultry Federation	rlford@ncpoultry.org
Dr. Glen Almond, Veterinarian NCSUCVM	gwalmond@ncsu.edu
Dr. Perry Harms, Veterinarian Murphy Brown	pharms@smithfield.com
Kent Yelverton, Division Director NCDA&CS, Property & Construction	kent.yelverton@ncagr.gov
Megan Jacob, Laboratory Director NCSUCVM	megan_jacob@ncsu.edu
Chester Lowder, Livestock Director Farm Bureau	chester.lowder@ncfb.org
Jan Kelly, Executive Director NC Egg Association	egg lady@ncegg.org

General Funds, Funded Contracts and Cooperative Agreements
2015-2016 NCVDLs General Funds

Budget Summary	2014/2015	2015/2016
Purchased Contractual Services 5321	\$174,526	\$184,424
Utility/Energy Services 5322	\$303,378	\$264,502
Repair Services 5323	\$101,969	\$105,843
Maintenance Agreements 5324	\$87,921	\$140,438
Rentals/Leases 5325	\$6,323	\$5,175
Travel & Other Employee Expenses 5327	\$39,217	\$43,741
Communications & Data 5328	\$99,574	\$108,555
Other Services 5329	\$14,602	\$27,255
General Admin Supplies 5331	\$38,141	\$28,623
Facility and Hardware Supplies 5332	\$28,032	\$23,522
Vehicle/Equipment Operating Supplies 5333	\$1,748	\$1,804
Clothing and Recreational Supplies 5335	\$730	\$1,306
Research/Development & Edu Supplies 5337	\$1,248,477	\$1,014,532
Other Materials & Supplies 5339	\$5,811	\$13,354
Equipment 5345	\$107,264	\$323,782
Art, Other Artifacts & Literature 5346	\$1,822	\$2,052
Intangible Assets (Computer software) 5347	\$3,131	\$44,462
Legal, Licenses & Permit Costs 5351	\$6,715	\$6,182
Other Admin Expenses 5358	\$4,867	\$4,357
Other Expenses 5359	\$4,029	\$8,675
Transfer of Appropriations 5389	\$80,281	\$0
TOTAL	\$2,358,558	\$2,352,584
Personal Services (Salaries, Benefits, etc.)	\$5,257,814	\$5,324,958
TOTAL	\$7,616,371	\$7,677,542

2015/2016 Recurring Cooperative or Blanket Purchase Agreements

USDA-APHIS-VS Blanket Purchase Agreement—\$24,440

- reimbursement for BSE Surveillance Sample Collection and Testing

USDA-APHIS-VS Blanket Purchase Agreement—\$6,480

- reimbursement for Scrapie Sample Collection and Testing

USDA-AHPIS-VS Swine Surveillance Cooperative Agreement—\$26,500

- reimbursement for surveillance and testing of Classical Swine Fever and PRV samples

USDA-NIFA Cooperative Agreement—\$326,000

- to aid the Food and Agriculture Defense Initiative for surveillance and early detection of animal diseases

2015-2016 Physical Improvements/New Equipment Purchases

Rollins Laboratory

- Molecular Diagnostics—Smart Cycler Desktop Computer, Ergonomic Pipet, Refrigerator/Freezer, 3 Door Cooler, Fax/Printer/Scanner with Computer, ABI 7510 Fast, Mini Centrifuge
- Serology—BioTek plate washer, Electronic Multichannel Pipet, Manual Multichannel pipet, 2 Single Manual Channel Pipets
- Bacteriology—Sanyo CO2 Incubator, CO2 Gas Analyzer, Bruker Maldi Biotyper with computer/printer, Mini Spin Centrifuge
- Sample/Receiving—Walk-in Cooler

Northwestern Laboratory

- Installed new Ethernet

Griffin Laboratory

- Centrifuge

Western Laboratory

- 4 Eyewash Stations, 2 Safety Showers

2015-2016 Test Procedures Added

- Rollins Lab Molecular Diagnostics—Seneca virus A (Seneca Valley Virus)

Professional Development and Outreach

<u>FNAME</u>	<u>MEETING</u>	<u>CITY</u>	<u>BEG DATE</u>
Dr. Allison Boone	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/22/2015
Tina Buffington	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/21/2015
Tina Buffington	AAVLD Accreditation Com. Audit Pool	Las Vegas, NV	2/03/2016
Dr. David Drum	2015 Univ. Tenn December Conference	Knoxville, TN	12/01/2015
Dr. David Drum	Outpatient Medicine Conference	Athens, GA	12/05/2015
Dr. Jennifer Haugland	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/22/2015
Dr. Jennifer Haugland	41st Annual Eastern Fish Health Wkshp	Atlantic Beach, NC	4/11/2016
Ghazala Jawad	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/22/2015
Dr. Jessica Kees	42nd Annual Gross Pathology Review	Knoxville, TN	7/12/2015
Dr. Richard Mock	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/22/2015
Dr. Richard Mock	3rd Annual USALIMS User Group Symp	Reynoldsburg, OH	4/04/2016
Dr. Richard Oliver	42nd Annual Gross Pathology Review	Knoxville, TN	7/12/2015
Dr. Karen Post	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/22/2015
Dr. Reginald Ridenhour	NC Turkey Days	Wilmington, NC	9/29/2015
Dr. Reginald Ridenhour	NC Veterinary Conference	Raleigh, NC	11/05/2015
Dr. Stacy Robinson	NC Veterinary Conference	Raleigh, NC	11/06/2015
Dr. James Trybus	2015 USAHA/AAVLD Annual Meeting	Providence, RI	10/22/2015
Dr. James Trybus	AAVLD Accreditation Com. Audit Pool	Las Vegas, NV	2/03/2016
Dr. Alison Tucker	2015 ACVP/ASVC/STP Annual Meeting	Minneapolis, MN	10/17/2015
Talley Ouro	3rd Annual USALIMS User Group Meeting	Reynoldsburg, OH	4/04/2016
Joshua Shepherd	3rd Annual USALIMS User Group Meeting	Reynoldsburg, OH	4/04/2016

PROFICIENCY TESTING

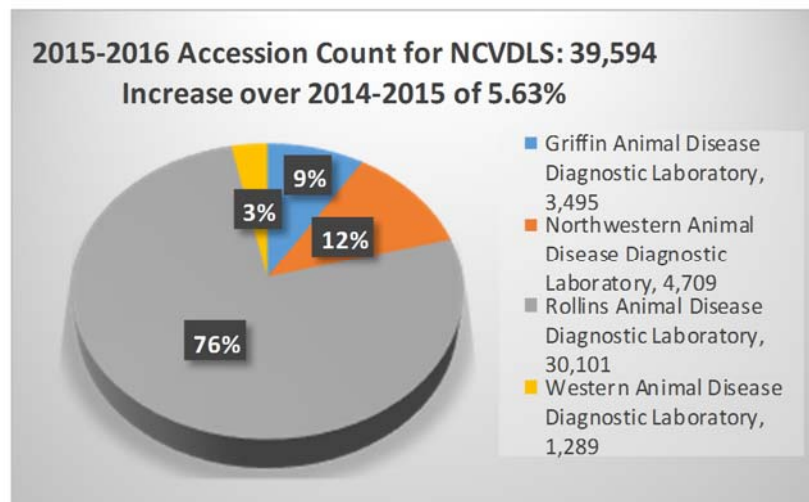
All four laboratories of the NCVDLs participate in proficiency testing from outside agencies. In addition to these external proficiency tests, laboratory sections participate in internal testing.

Blind Sample Tests are administered by section supervisors to random technologists. Samples have “dummy”

External Proficiency Testing	Test	Laboratory Section	Administering Agency
Internal Bacteriology QA Survey	Bacterial culture identification	Rollins Lab Bacteriology	AAVLD
<i>Salmonella</i> Group D	Environmental culture	Rollins Lab Bacteriology	NPIP
Southern Bug Exchange Inter-Laboratory Comparison Program	Bacterial culture identification	Rollins Lab Bacteriology	Consortium of Southern VDLS
<i>Taylorella equigenitalis</i>	Bacterial identification	Rollins Lab Bacteriology	NVSL
Leptospirosis	IHC Panel (Ring Test)	Rollins Lab IHC	AAVLD/NVSL
<i>Neospora Caninum</i>	Ring Test	Rollins Lab IHC	AAVLD/NVSL
Avian Influenza	Matrix Primer/ Probe Sets & H5 Primer/ Probe Sets, H5 & H7 PCR	Rollins Lab Molecular	NAHLN
Avian Paramyxovirus -1	END/NDV for Matrix and Fusion Primer/ Probe Sets	Rollins Lab Molecular	NAHLN
Swine Influenza Virus	Rt-PCR	Rollins Lab Molecular	NAHLN
CSF/FMD	Rt-PCR	Rollins Lab Molecular	NAHLN
MG & MS PCR	PCR	Rollins Lab Molecular	NPIP
African Swine Fever & Rinderpest Virus	PCR	Rollins Lab Molecular	NAHLN
PED and PDCoV	PCR	Rollins Lab Molecular	NAHLN
Brucellosis	BAPA, Card	Rollins Lab Serology	NVSL
Anaplasmosis	c-ELISA	Rollins Lab Serology	NVSL
Johne's Disease	ELISA	Rollins Lab Serology	NVSL
Leptospirosis	MAT	Rollins Lab Serology	NVSL
MG & MS Serology	Plate, ELISA & HI	Rollins Lab Serology	NPIP
Avian Influenza	AGID	Rollins Lab Virology	NVSL
Bovine Leukosis Virus	ELISA	Rollins Lab Virology	NVSL
Pseudorabies	ELISA (G1 & GB), Latex	Rollins Lab Virology	NVSL
Bluetongue	ELISA	Rollins Lab Virology	NVSL
Equine Infectious Anemia	AGID	Rollins Lab Virology	NVSL
West Nile Virus Panel—Equine	IgM Capture ELISA	Rollins Lab Virology	NVSL
<i>Salmonella</i> Group D	Environmental culture	Griffin Lab Bacteriology	NPIP
MG & MS Serology	Plate, ELISA & HI	Griffin Lab Serology	NPIP
Avian Influenza	AGID	Griffin Lab Virology	NVSL
Brucellosis	BAPA, Card	Western Lab Serology	NVSL
Equine Infectious Anemia	AGID	Western Lab Virology	NVSL
Avian Influenza	AGID	Northwestern Lab Serology	NVSL
MG & MS Serology	Plate, ELISA	Northwestern Lab Serology	NPIP

NCVDLS 2015-2016 *Accession Information

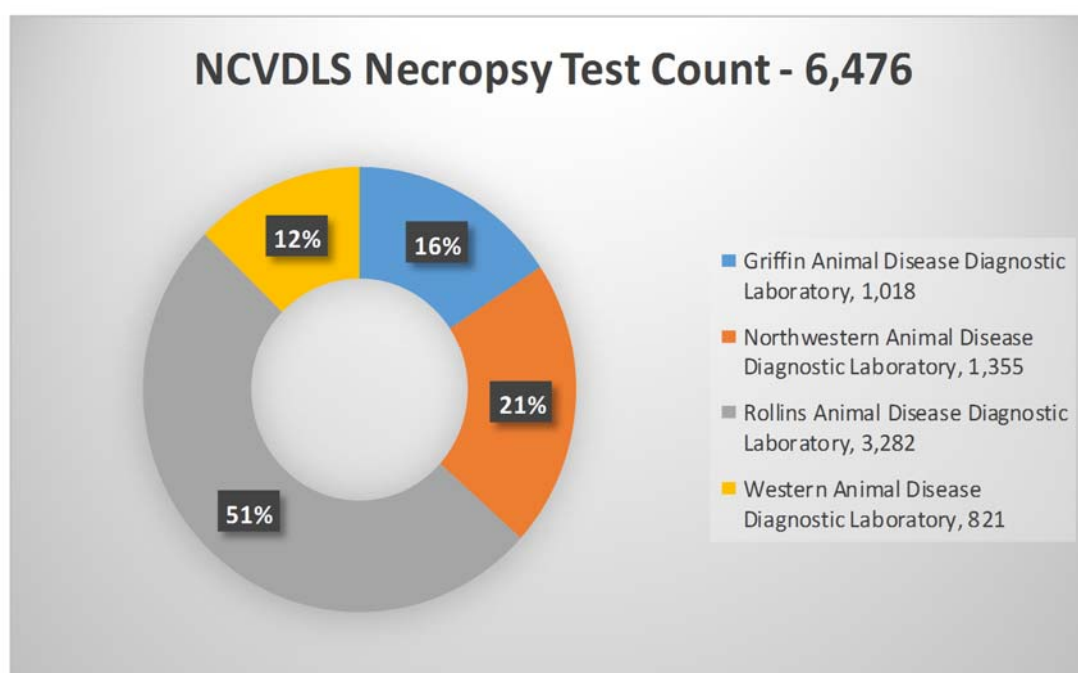
Total Test Count by Animal Species



Avian	1,240,808	93.14%
Bovine	15,755	1.18%
Camelid	1,009	0.07%
Canine	31,711	2.38%
Caprine	7,960	0.60%
Equine	15,187	1.14%
Feline	7,293	0.55%
Fish	204	0.02%
Miscellaneous	2,457	0.18%
Ovine	1,373	0.10%
Porcine	8,511	0.64%
TOTAL	1,332,268	100.00%

Fiscal Year Comparison of Accessions FY 14/15 to FY 15/16

	2014-2015	2015-2016	% Increase
Rollins	27,586	30,101	9.12%
Western	1,298	1,289	- 0.7%
Northwestern	5,010	4,709	-6.01%
Griffin	3,589	3,495	-2.62%
Total	37,483	39,594	5.33%



*Accessions may contain more than one test , discipline, and sample.

NCVDLS Total Test Count and Accession Count Comparison

Year	Test Count	Accession Count
2012-2013	1,261,919	34,728
2013-2014	1,310,713	36,840
2014-2015	1,327,843	37,483
2015-2016	1,332,317	39,594



NCVDLS Test Count Comparison by Laboratory Discipline

Laboratory Discipline	2012-2013	2013-2014	2014-2015	2015-2016
Bacteriology	17,647	15,843	15,277	15,046
Cytology	1,440	1,601	1,805	2,037
Histopathology	40,940	43,017	44,920	46,051
Immunohistochemistry	690	594	792	794
Molecular Diagnostics	11,689	16,125	15,302	16,724
Mycology	245	233	252	230
Necropsy	7,337	7,844	7,332	6,476
Outsource	1,419	1,299	1,270	1,218
Parasitology	2,801	3,040	3,047	3,053
Serology	886,698	935,650	940,244	932,326
Virology	291,023	285,543	297,602	308,312
TOTAL	1,261,929	1,310,789	1,327,843	1,332,317

Accession Counts Comparison

Lab	2012-2013	2013-2014	2014-2015	2015-2016
Rollins Lab	25,239	27,146	27,586	30,101
Griffin Lab	3,629	3,511	3,589	3,495
Northwestern Lab	4,755	4,914	5,010	4,709
Western Lab	1,105	1,269	1,298	1,289
	34,728	36,840	37,483	39,594

Test Counts Comparison

Lab	2012-2013	2013-2014	2014-2015	2015-2016
Rollins Lab	516,266	511,654	517,174	542,270
Griffin Lab	184,920	210,484	222,132	224,874
Northwestern Lab	558,693	586,088	586,046	562,254
Western Lab	2,050	2,563	2,491	2,919
	1,261,929	1,310,789	1,327,843	1,332,317

Top Twenty-Five Tests	2015-2016	2014-2015	2013-2014
<i>Mycoplasma synoviae</i> (ELISA)	381,650	345,716	317,526
<i>Mycoplasma gallisepticum</i> (ELISA)	381,397	348,352	317,774
Avian Influenza (AGID)	140,933	139,647	137,912
Avian Influenza (ELISA)	101,900	82,011	80,209
<i>Mycoplasma meleagridis</i> (ELISA)	53,280	47,522	43,295
<i>Mycoplasma gallisepticum</i> (Plate)	44,604	84,925	115,150
<i>Mycoplasma synoviae</i> (Plate)	44,564	85,082	115,098
Histopathology H & E	44,006	42,213	40,982
REO (ELISA)	11,604	12,520	10,263
<i>Salmonella pullorum</i> (Plate)	11,400	10,800	12,300
Equine Infectious Anemia (AGID)	10,563	10,531	10,868
Infectious Bursal Disease (ELISA)	10,265	12,848	10,374
Infectious Bronchitis Virus (ELISA)	9,751	12,178	9,410
Avian Paramyxovirus-1 (APMV-1) (ELISA)	9,720	11,951	9,349
Avian Influenza Matrix RRT-PCR	8,271	6,643	6,994
Aerobic Culture	7,728	7,629	8,014
<i>Brucella abortus</i> (BAPA) (Plate)	4,399	4,780	4,821
Chicken Anemia Virus 1:10 (CAV) (ELISA)	3,534	3,391	3,165
<i>Salmonella pullorum</i> (Tube)	3,226	3,736	3,439
Gross Exam Poultry	3,168	4,032	4,611
Pseudorabies Virus gB (ELISA)	3,030	2,411	5,113
<i>Mycoplasma gallisepticum</i> PCR	2,479	1,731	1,718
<i>Mycoplasma synoviae</i> PCR	2,478	1,762	1,684
NPIP <i>Salmonella</i> Culture	2,426	3,007	2,655
Antimicrobial Susceptibility	2,171	2,118	2,189