

ZOONOTIC AND OTHER ANIMAL DISEASES OF CONCERN IN MARYLAND

Table 1. New or Ongoing Morbidity or Mortality Animal or Zoonotic Disease Events

Estimated first onset	Estimated end date	Jurisdiction affected	Species affected	Diagnosis	Estimated # of cases to date	Lead agency	Comment
July 13, 2015	October 31, 2015	Various	Human	WNV	46	DHMH	See Below
July 13, 2015	October 31, 2015	Various	Mosquito	WNV	33 mosquito pools	DoD, MDA	See Below
August 11, 2015	October 31, 2015	Prince George's and Washington	Bird	WNV	4	DNR	See below
August 17, 2015	October 31, 2015	Charles and Prince George's	Equine	WNV	2	DHMH	See below

For questions regarding specific disease events, please contact the lead agency noted. This contact information is for use by Maryland veterinarians and health professionals:

MDA - Maryland Department of Agriculture: ahops.mda@maryland.gov, 410-841-5810

DHMH - Maryland Department of Health and Mental Hygiene, Center for Zoonotic and Vector-borne Diseases: dhmh.czvbd@maryland.gov, 410-767-5649

DNR - Maryland Department of Natural Resources, Fish & Wildlife Health Program, FWHP.DNR@maryland.gov 410-226-5193

Maryland Arbovirus Surveillance Season Summary, 2015

The 2015 surveillance season for West Nile virus (WNV) and other arboviruses of public health concern in Maryland concluded on October 31, 2015. The Maryland Departments of Health and Mental Hygiene, Agriculture, and Natural Resources have discontinued enhanced surveillance for human encephalitis and aseptic meningitis and surveillance for arboviral activity in mosquitoes, equines, and wildlife.

As of November 10, 2015, 46 human WNV cases have been reported in seven jurisdictions: Anne Arundel Co. (14), Baltimore City (5), Baltimore Co. (11), Calvert Co. (1), Harford Co. (2), Montgomery Co. (7), and Prince George's Co. (6). Dates of illness onset in endemic cases ranged from July 13th to October 7th. Age ranged from 16–94 years, with a median age of 63 years. Four of the cases were fatal. The number of human WNV cases in 2015 was much greater than the number of cases reported in 2014 (6), and almost as many as the 47 cases reported in 2012. In addition to

To report cases of disease in:	Contact:
Domestic animals	MDA Animal Health Program Office 410-841-5810 http://mda.maryland.gov/animalHealth/Pages/Diseases.aspx
Wild animals	MD DNR / USDA Wildlife Service Call Center 1-877-463-6497 http://www.wher.org
Humans	DHMH Center for Zoonotic and Vector-borne Diseases 410-767-5649 http://phpa.dhmh.maryland.gov/OIDEOR/CZVBD/SitePages/Home.aspx

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Maryland Arbovirus Surveillance Season Summary, 2015 (continued)

WNV, 18 human chikungunya cases, all travel-associated, were reported in Maryland, accounting for 3% of the 571 chikungunya cases reported nationwide.

A total of 33 mosquito pools from six jurisdictions tested positive for WNV infection. These pools were collectively trapped by Department of Defense personnel at military installations and by the Maryland Department of Agriculture in Anne Arundel, Baltimore, Montgomery, Prince George's, Talbot and Wicomico counties. Dead bird surveillance was discontinued in 2002, however, DHMH periodically receives reports of WNV activity in birds from other agencies and organizations. Four Maryland birds tested positive for WNV in 2015: three captive ducks from Prince George's County and an American crow from Washington County. Two equine WNV cases were reported in 2015 in Charles and Prince George's counties. One of the cases was fatal and the other horse is alive and recovering. The fatal horse was confirmed at the DHMH lab. No other arboviral activity was detected in human or veterinary populations.

Please see these websites for additional information:

Maryland Department of Health and Mental Hygiene West Nile Virus Page:

<http://phpa.dhmh.maryland.gov/OIDEOR/CZVBD/SitePages/west-nile-virus.aspx>

Maryland Department of Agriculture for mosquito control and reportable diseases in animals:

http://mda.maryland.gov/plants-pests/Pages/mosquito_control.aspx

Updated Guidance on Dog Importation

The National Center for Emerging and Zoonotic Infectious Diseases (CDC), and the Division of Global Migration and Quarantine have provided guidance on dog importation. This guidance covers the importation of vaccinated and unvaccinated dogs from other countries. Direction is provided for importing dogs from all countries, including countries that are rabies-free or where screwworm is present. Importers must provide adequate vaccination documentation, and exhaust all reasonable options for vaccinating dogs before being considered for a confinement agreement. Questions about importing unvaccinated dogs may be directed to the CDC at CDCAAnimalImports@cdc.gov. Please see the CDC Animal Importation Website <http://www.cdc.gov/importation/bringing-an-animal-into-the-united-states/dogs.html> for details.

Updated Compendium of Veterinary Standard Precautions for Zoonotic Disease Prevention in Veterinary Personnel

The Compendium of Veterinary Standard Precautions for Zoonotic Disease Prevention in Veterinary Personnel, 2015 has been published in the December 1, 2015 issue of the Journal of the American Veterinary Medical Association. The Compendium outlines routine infection prevention practices designed to minimize transmission of zoonotic pathogens from animals to veterinary personnel. This compendium has been extensively revised and updated since the 2010 version. Importantly, the concept of occupational safety and health in veterinary medicine is beginning to achieve equity with employee safety and health in human health care.

Preventing transmission of zoonotic diseases from animals to veterinary personnel represents one component of a comprehensive safety and health program. This compendium places infection prevention in this context and endorses the concept of conducting workplace risk assessments and using a hierarchy of controls to minimize employee safety and health risks. The hierarchy of controls refers to a range of measures that may be taken to reduce the risk posed by workplace hazards: elimination, substitution, engineering, and administrative procedures and use of personal protective equipment (PPE). A thorough review of the human and veterinary medical literature has been conducted and has resulted in updates to a number of recommendations. Of note, hand hygiene recommendations have been updated to embrace use of alcohol-based hand gels as an important strategy for improving overall hand hygiene compliance in veterinary clinical settings. The four appendices include: 1) Selected zoonotic diseases of importance in the United States, 2) Antimicrobial spectrum of hand-hygiene antiseptic agents, 3) Selected disinfectants used in veterinary practice, and 4) model infection control plan for veterinary practices.

If you would like a copy of the compendium, please email dhmh.czvbd@maryland.gov.

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Cold-stunned Marine Animals

1. On October 29, 2015 a freshly dead manatee washed ashore at Assateague Island National Seashore (AINS) . The carcass was taken to the Smithsonian Institution for necropsy on October 30th. A team of four veterinarians and four biologists conducted the examination. The presumptive cause of death was cold-stress. Manatees suffer from effects of cold shock at water temperatures below 68 F. Water temperatures along the MD coast had been decreasing rapidly over the previous weeks and was 63 F on the day of stranding.
2. On November 22, 2015 - a cold-stunned sea turtle was found on a Chesapeake Bay beach near Shady Side, MD. Turtles are reptiles and cannot tolerate sustained cold water temperatures. Each year hundreds of sea turtles strand along Northeastern U.S. coastal beaches.

The Maryland Marine Mammal and Sea Turtle Stranding Program is associated with the Greater Atlantic Regional Field Office of the National Marine Fisheries Service. MD stranding team members respond to all calls concerning LIVE or DEAD marine animals.

To report a LIVE or DEAD marine mammal or sea turtle in Maryland - please call 1-800-628-9944. The 24/7 toll-free call center staff will contact biologists for an appropriate response.



Freshly Dead manatee
AINS -October 29th

MARYLAND ANIMAL RABIES CASES, 2015

Table 2. New (confirmed since the previous Bulletin) and Cumulative Rabies Cases, Week Ending November 21, 2015

Jurisdiction	Bat Total (New)	Cat Total (New)	Cow Total (New)	Dog Total (New)	Fox Total (New)	Groundhog Total (New)	Raccoon Total (New)	Skunk Total (New)	Other Total (New)	Total (New)
Allegany	1				1(1)		2	1		5(1)
Anne Arundel	24(1)	1			1		9(1)			35(2)
Baltimore	11	2			2		6(1)			21(1)
Baltimore City	19				2	1	13(3)			35(3)
Calvert	1	1					1(1)			3(1)
Caroline				1						1
Carroll	2	2			3(1)		6(1)			13(2)
Cecil							2	2(2)		4(2)
Charles		1			2(1)		1	1(1)		5(2)
Dorchester							5(2)	2(1)		7(3)
Frederick	9	3			1		20(1)	1		34(1)
Garrett	1						9(1)	3(3)		13(4)
Harford	4	1			1		13(2)			19(2)
Howard	3	1(1)			2		4			10(1)
Kent	1						3(1)		1	5(1)
Montgomery	20		1(1)		1		15(2)	2	1	39(3)
Prince George's	14						5(1)			19(1)
Queen Anne's					1(1)		7(1)			8(2)
Saint Mary's		2					3(2)			5(2)
Somerset		1					3(1)			4(1)
Talbot	2	1(1)			1		3(2)			7(3)
Washington	3	1(1)					4(1)	1(1)		9(3)
Wicomico	2	2(2)			1(1)		4			9(3)
Worcester							10(3)			10(3)
Total (New)	117(1)	19(5)	1(1)	1	19(5)	1	148(27)	13(8)	2	320(47)

Other (1): Horse (1); Deer (1)

For complete animal rabies data:

<http://phpa.dhmh.maryland.gov/OIDEOR/CZVBD/SitePages/Home.aspx>

To view previous issues of the Maryland One Health Bulletin (MOHB):

<http://mda.maryland.gov/animalHealth/Pages/md-one-health.aspx>

Maryland Department of Health and Mental Hygiene Weekly Public Health and Emergency Preparedness Bulletin:

<http://preparedness.dhmh.maryland.gov/SitePages/Public%20Health%20And%20Emergency%20Preparedness%20Bulletins.aspx>

National Wildlife Health Center New and Ongoing Wildlife Mortality Events Nationwide:

http://www.nwhc.usgs.gov/mortality_events?ongoing.jsp

U.S. Livestock and Poultry Disease Events and Trends:

http://www.aphis.usda.gov/wps/portal/banner/help?1dmy&urle=wcm%3apath%3a%2FAPHIS_Content_Library%2FSA_Our_Focus%2FSA_Animal_Health

Maryland Department of Health and Mental Hygiene Weekly Influenza Report:

<http://phpa.dhmh.maryland.gov/influenza/fluwatch/SitePages/Home.aspx>