

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 1, 2014	Ongoing	Harford, Montgomery, Prince George's	Mosquito	WNV	5 mosquito pools	DoD, MDA	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.state.md.us, 410-226-5193

Maryland Arbovirus Surveillance Update, 2014

West Nile virus (WNV) surveillance began on July 1, 2014. To date, three pools of mosquitoes collected by the U.S. Department of Defense in Harford and Montgomery counties, and two additional pools collected by MDA in Prince George's county have tested positive for WNV infection. No human or equine cases of WNV have been reported. Veterinarians are reminded that equine encephalitis is reportable to MDA and that equine arboviral testing is available at DHMH. Veterinarians are also reminded to vaccinate horses.

Testing for chikungunya and dengue viruses in humans is available at DHMH. DHMH offers real-time PCR and IgM ELISA tests for chikungunya and dengue viruses. Healthcare providers seeking testing for Maryland residents with compatible illness and travel history now have the option of submitting specimens to DHMH.

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

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

Maryland Department of Health and Mental Hygiene Laboratories Administration:

<http://dhmh.maryland.gov/laboratories/SitePages/Home.aspx>

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

<http://mda.maryland.gov/Pages/homepage.aspx>

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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Invitation to Veterinarians: Quick Survey Regarding Lyme Disease

The Maryland Department of Health and Mental Hygiene Center for Zoonotic & Vector-Borne Disease (CZVBD) is conducting an online survey to better understand the testing and treatment of canine Lyme disease by veterinarians in the State. Please use the link below to complete the survey and invite your colleagues to participate as well. We expect that it will take you no longer than 5 minutes to complete the survey. Please submit your survey by August 31, 2014.

<https://www.surveymonkey.com/s/DHMHLYMESURVEY> Thank you for your participation and your valuable input!

Updated Guidance on Animal Importation

The CDC and the Department of Health and Human Services (HHS) have provided guidance on management of confinements for dogs imported into the US. This guidance describes the factors that HHS/CDC will consider in deciding whether to issue a dog confinement agreement or deny entry of a dog being imported into the United States that has not been adequately vaccinated against rabies. The guidance is posted in the Federal Register: *Issuance and Enforcement Guidance for Dog Confinement Agreements*, which was released in July 2014, and will go into effect on August 11, 2014. Please see the CDC Animal Importation website <http://www.cdc.gov/animalimportation/> for details.



Poplar Island Wildlife Mortality Update

During July 2012 and 2013 a mostly avian mortality event was documented on Poplar Island, Talbot County. In both years avian botulism and blue-green algae toxicoses as well as bacterial infections were diagnosed. Again in 2014 avian botulism has been detected in a variety of waterfowl and shorebirds. Additionally, colonies of double-crested cormorants have also experienced mortalities on Poplar Island. To date approximately 500 bird carcasses have been collected. Live birds have been transferred to wildlife rehabilitation facilities with some recovering and released off-site.

For additional material on wildlife disease events visit the USGS/ National Wildlife Health Center website:

<http://www.nwhc.usgs.gov/>

Specific information on Avian Botulism can be found at the following site:

http://www.nwhc.usgs.gov/disease_information/avian_botulism/index.jsp

To find a licensed Maryland wildlife rehabilitator visit the MD DNR website:

http://www.dnr.state.md.us/wildlife/Plants_Wildlife/rehab.asp

2013-2014 Mid-Atlantic Bottlenose Dolphin Unusual Mortality Event (UME): Update as of July 2014

East Coast

In July 2013 strandings of live and dead bottlenose dolphins began to be reported in increased numbers along the mid-Atlantic coast. From July 2013 to July 2014 over 1400 dolphin strandings have been documented from New York to Florida. Strandings continued over the winter months along the SE US coast, and currently strandings are being reported in lower numbers as in previous years. Nearly all dolphins were found dead with very few live animals reported. Morbillivirus (distemper-like virus) was determined to be the cause of the mortalities, with 240 out of 250 dolphins suspect or confirmed positive. Also, 20 out of 64 dolphins tested to date were confirmed or suspect for *Brucella* infection.

Maryland

In Maryland, an average of 6 bottlenose dolphins strand in the Chesapeake Bay and along the Atlantic Coast yearly. However from July 2013—July 2014, 75 dolphins stranded, far exceeding numbers for any previous year.

To report marine mammal and sea turtle strandings please call the Maryland Natural Resources Police 24/7 toll-free number: 1-800-628-9944.



For more information and a data summary, see the charts on the following page and visit the National Oceanic and Atmospheric Administration (NOAA) websites on Marine Mammal Unusual Mortality Events:

<http://www.nmfs.noaa.gov/pr/health/mmume/midatlDolphins2013.html>

UME Investigation Results:

http://www.nmfs.noaa.gov/pr/health/mmume/midatlDolphins2013_results.htm

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Bottlenose Dolphin Strandings by State

State	NY	NJ	DE	MD	VA	NC	SC	GA	FL	Total
Average: 2007-2012 (July 1 - June 30)	6	15	10	6	64	58	44	18	77	297
2013-2014 (July 1 - July 27)	41	144	71	75	395	258	146	72	213	1415

Morbillivirus Positive Cases by State

State	Suspect Positive	Confirmed Positive	Total
Delaware	2	3	5
Florida	31	7	38
Georgia	8	1	9
Maryland	9	3	12
New Jersey	33	22	55
New York	0	5	5
North Carolina	31	17	48
South Carolina	8	9	17
Virginia	19	32	51
Total	141	99	240

240 out of 250 dolphins tested to date were confirmed positive or suspect positive for *morbillivirus*.

Brucella Positive Cases by State

State	Suspect Positive	Confirmed Positive	Total
Maryland	1	0	1
New York	2	0	2
North Carolina	5	0	5
South Carolina	4	0	4
Virginia	3	5	8
Total	15	5	20

20 out of 64 dolphins tested to date were confirmed positive or suspect positive for *Brucella*

Marine Mammal Protection Act and Endangered Species Act

Under the Marine Mammal Protection Act (MMPA) it is illegal to approach or handle marine mammals - live or dead - without authority/permits (possession of parts or bones also requires permits). Under the Endangered Species Act (ESA) it is also illegal to handle or possess sea turtle parts or interact with live or dead animals or carcasses. Jail terms of up to a year and fines of \$25,000 can be imposed. To report violations of the MMPA or ESA, call the NOAA Enforcement hotline: 1-800-853-1964.

MARYLAND ANIMAL RABIES CASES, 2014

Table 2. New (confirmed since the previous Bulletin) and Cumulative Rabies Cases, Week Ending August 9, 2014

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							3(1)			3(1)
Anne Arundel	10(1)				2		12			24(1)
Baltimore	4(1)	1(1)					8(2)			13(4)
Baltimore City	7(6)				2		4			13(6)
Calvert							1			1
Caroline							2	1		3
Carroll	1	4(2)					4	1		10(2)
Cecil							1(1)			1(1)
Charles					2(1)		2			4(1)
Dorchester					1		3			4
Frederick	1(1)	3			1		7(1)	3(2)		15(4)
Garrett							1			1
Harford	1(1)				2(1)		9(1)			12(3)
Howard	1(1)	1			1		3			6(1)
Kent										
Montgomery	2(1)				2	1	17(2)			22(3)
Prince George's	5(1)				5(1)	1(1)	2			13(3)
Queen Anne's	1						4(1)			5(1)
Somerset						1	8(1)			9(1)
St. Mary's										
Talbot							4			4
Washington		1			1		4			6
Wicomico	1(1)	1(1)			2(1)		3(1)			7(4)
Worcester	1				1		6(1)			8(1)
Total (New)	35(14)	11(4)			22(4)	3(1)	108(12)	5(2)		184(37)

Other species: none

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&uril=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.aspx0>