

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 2012	Ongoing	Talbot	Avian	Pending	500	DNR	See below
July 2012	Ongoing	Montgomery & Worcester	Mosquito Pools	West Nile virus	Montgomery: 6, Worcester: 1	MDA, DoD	See below
July 2012	Ongoing	13 counties	Human	West Nile virus	25 (2 fatalities)	DHMH	See page 2
August 2012	August 2012	Associated with Queen Anne's fair	Human	Influenza A H3N2v	12	DHMH	See page 2
August 2012	August 2012	Queen Anne's	Swine	Swine Influenza H3N2	13	MDA	See page 2

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.state.md.us, 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

Avian Die-Off

A shorebird and waterfowl morbidity and mortality event began the last week in July and continues to a lesser extent on Poplar Island in Talbot County. Over 500 dead birds were reported during the past six weeks. Live birds were admitted to a wildlife rehabilitation facility and birds that recovered were released at a different location. Clinical signs include paralysis of leg, neck and wing muscles resulting in inability to fly, feed, and escape from capture. Avian botulism (a naturally occurring disease involving a bacterial toxin) is suspected and occurs yearly in Maryland during

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

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Avian Die off (continued):

late summer and early fall months. It usually subsides with the onset of cooler weather. Blue-green algae blooms have also been noted in the mid-shore region during the die-off period and water and tissue samples are being analyzed for microcystins.

Additional information on botulism and algal blooms is provided in the NWHC Field Manual for Wildlife Diseases:

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

http://www.nwhc.usgs.gov/publications/field_manual/chapter_38.pdf

http://www.nwhc.usgs.gov/publications/field_manual/chapter_36.pdf

West Nile Virus

West Nile virus (WNV) infection has been detected in humans and mosquitoes in Maryland. As of September 11, 2012, 25 human cases of WNV have been reported in the state, including 2 fatalities. The 25 cases have occurred in 13 counties. In addition, 7 mosquito pools have tested positive for WNV: 6 in Montgomery County and 1 in Worcester County. Because WNV is endemic in Maryland wildlife, birds are no longer routinely tested for WNV in the State; however, sick or injured birds can be reported to a local wildlife rehabilitator, who can be identified on the DNR web site. Detailed instructions on what to do when you find a sick or dead bird can be found on the DHMH web site. Veterinarians are reminded that equine neurologic syndromes and any of the equine encephalitides are reportable to the MDA Animal Health Program and that equine arboviral testing is available at the DHMH Laboratories Administration. Veterinarians are also reminded to vaccinate horses against WNV, Eastern equine encephalitis and rabies.

For additional information:

Maryland Department of Health and Mental Hygiene: <http://ideha.dhmh.maryland.gov/OIDEOR/CZVBD/SitePages/west-nile.aspx>

Maryland Department of Agriculture for reportable diseases in animals:

http://www.mda.state.md.us/animal_health/diseases/reportable.php

Maryland Department of Agriculture for mosquito control:

http://www.mda.state.md.us/plants-pests/mosquito_control/index.php

Maryland DNR for wildlife rehabilitators: <http://www.dnr.state.md.us/wildlife/rehab.asp>

Swine Influenza and H3N2v

DHMH identified influenza A (H3N2v) in twelve Maryland residents, all associated with swine exposure at the Queen Anne's County Fair. None of the infected individuals developed serious illness or was hospitalized. Swine influenza has been confirmed in 13 pigs in Maryland. As observed in Maryland, the infections with H3N2v nationwide are clinically very similar to seasonal flu. Most cases have occurred in children, and almost all cases reported nationally have had contact with swine. Fair season is underway and there are CDC guidelines to help prevent the transmission of influenza between swine and humans (<http://www.cdc.gov/flu/pdf/swineflu/prevent-spread-flu-pigs-at-fairs.pdf>). Additional statistics, guidance and news alerts can be found at: <http://www.cdc.gov/flu/swineflu/h3n2v-outbreak.htm>.

The MDA health inspectors are conducting heightened surveillance by monitoring pigs at agricultural fairs closely for flu-like symptoms. Pigs suspected of having influenza will have specimens collected on site and forwarded to the MDA Animal Health Diagnostic Laboratory in Salisbury. Please see MOHB Volume 2, Issue 8 for submission forms and instructions. Private veterinarians who encounter swine with suspected influenza-like illness should contact the State Veterinarian at 410-841-5810 (after hours at: 410-841-5971).

MARYLAND ANIMAL RABIES CASES, 2012

Table 2. New (confirmed since the previous Bulletin) and Cumulative Rabies Cases, Week Ending September 8, 2012

Jurisdiction	Bat Total (New)	Cat Total (New)	Cow Total (New)	Dog Total (New)	Fox Total (New)	Total Total (New)	Groundhog Total (New)	Raccoon Total (New)	Skunk Total (New)	Other Total (New)	Total Total (New)
Allegany	1							1		1	3
Anne Arundel	9(2)				1			6	1		17(2)
Baltimore	3(1)				1			8			12(1)
Baltimore City	15(2)							3			18(2)
Calvert		1							2		3
Caroline					1			2		1	4
Carroll					2			8			10
Cecil		3						7(1)	1		11(1)
Charles	7							6	1		14
Dorchester		1						1(1)			2(1)
Frederick		1						18		1	20
Garrett								3	1		4
Harford	1							12			13
Howard								2(1)			2(1)
Kent											0
Montgomery	3	1(1)			1			15(1)			20(2)
Prince George's	8(2)				2(1)			2	2		14(3)
Queen Anne's					1			5	1		7
Somerset		1						4			5
St. Mary's		1						5	5(1)		11(1)
Talbot								4	1		5
Washington		1			1			6			8
Wicomico					2			5	1		8
Worcester					1(1)			13(1)			14(2)
Total (New)	47(6)	10(1)	0	0	13(2)	0	0	136(5)	16(1)	3	225(15)

Other: Sheep 1; Opossum 1; Deer 1

For complete animal rabies data:

<http://ideha.dhmmh.maryland.gov/OIDEOR/CZVBD/SitePages/Home.aspx>

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

http://mda.maryland.gov/animal_health/diseases/bulletin.php

Maryland Department of Health and Mental Hygiene Weekly Biosurveillance Report:

<http://preparedness.dhmmh.maryland.gov/Pages/Programs/Biosurveillance>

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/animal_health

Maryland Department of Health and Mental Hygiene Weekly Influenza Report:

<http://www.marylandfluwatch.org/>