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FOR IMMEDIATE RELEASE

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Chronic Wasting Disease (CWD): TVDML offers guidance for veterinarians about diagnostic testing

COLLEGE STATION -- Samples taken recently from two mule deer in far West Texas have been confirmed positive for Chronic Wasting Disease (CWD), the Texas Parks and Wildlife Department and the Texas Animal Health Commission reported today. In response, the Texas Veterinary Medical Diagnostic Laboratory (TVMDL) is offering guidance to veterinarians about submitting a sample and selecting a diagnostic test for CWD.

Detection of the disease resulted from regionally focused deer-sample collections implemented after the disease was detected in the Hueco Mountains of New Mexico during the 2011-12 hunting season. Tissue samples were initially tested by TVMDL's College Station laboratory, with confirmation by the National Veterinary Services Laboratory in Ames, Iowa.

- To read the full news release:
 - <http://www.tpwd.state.tx.us/newsmedia/releases/?req=20120710a>

TVMDL conducts approved CWD testing at its Amarillo and College Station labs. Submissions for CWD testing should be sent to either of our courier addresses:

Texas Veterinary Medical Diagnostic Laboratory
Amarillo Laboratory
6610 Amarillo Blvd West
Amarillo, TX 79106

Texas Veterinary Medical Diagnostic Laboratory
College Station Laboratory
1 Sippel Rd
College Station, TX 77843

- Only laboratories approved by the U.S. Department of Agriculture (USDA) can perform diagnostic testing for CWD. For a full list of approved laboratories:
 - http://www.aphis.usda.gov/animal_health/nahln/downloads/cwd_scrapie_lab_list.pdf

TVMDL-College Station
PO Drawer 3040
College Station, TX 77841-3040

TVMDL-Amarillo
PO Box 3200
Amarillo, TX 78116-3200

TVMDL-Gonzales
PO Box 84
Gonzales, TX 78629

TVMDL-Center

1 Sippel Rd, TAMU 4471
College Station, TX 77843-4471

6610 Amarillo Blvd West
Amarillo, TX 79106

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635 Malone Dr
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Tel. 979.845.3414
Fax. 979.845.1794
<http://tvmdl.tamu.edu>

Tel. 806.353.7478
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<http://tvmdl.tamu.edu>

Tel. 936.598.4451
Fax. 936.598.2741
<http://tvmdl.tamu.edu>

Submitting a sample

There are two reasons to submit a sample for CWD testing:

1. To comply with certification programs from the Texas Animal Health Commission or the Texas Parks and Wildlife Department.
2. As part of herd disease surveillance.

Samples for CWD testing should be collected by a veterinarian accredited in regulatory programs. The veterinarian should collect the obex and retropharyngeal lymph nodes. It is important to submit both in case there is a location error with the obex. The tissues should be submitted in 10-percent buffered formalin.

A second option is to collect and submit the entire head, which should be properly chilled for transport using ice packs, dry ice or other refrigerant. Laboratory technicians at TVMDL will remove the obex and retropharyngeal lymph nodes, and prepare them for testing.

- To learn more about safely shipping samples to TVMDL:
 - http://tvmdl.tamu.edu/library/files/FINAL_How_to_ship_a_sample_to_TVMDL.pdf

Selecting a diagnostic test

Veterinarians should request an immunohistochemistry test, which remains the approved diagnostic test for CWD, according to the U.S. Department of Agriculture. Immunohistochemistry utilizes antibody-based staining and microscopic evaluation of the tissue. This test is specific and sensitive. It also allows the pathologist to confirm that the correct tissue and location within the obex and/or lymph nodes are present for evaluation.

The average turnaround time for a CWD test at TVMDL is 10 business days. However, caseload may affect turnaround time. Clients may call Diagnostic Services at TVMDL's Amarillo lab (806-353-7478) or its College Station lab (979-845-3414) for an estimate of turnaround time for a specific submission.

About CWD

Chronic Wasting Disease (CWD) is a progressive, fatal, degenerative neurological disease of farmed and free-ranging deer, elk, and moose that was first recognized in 1967. There is no known treatment or vaccine for CWD.

The agent that causes CWD has not been completely characterized. However, the theory supported by most scientists is that Transmissible Spongiform Encephalopathy (TSE) diseases are caused by proteins called prions. The exact mechanism of transmission is unclear. However, evidence suggests CWD is transmitted directly from one animal to another through saliva, feces, and urine containing abnormal prions shed in those body fluids and tissues, or indirectly through environmental contamination. The species known to be susceptible to CWD are elk, red deer, mule deer, black-tailed deer, white-tailed deer, silka deer and moose.

CWD is a slow and progressive disease. Because the disease has a long incubation period, deer, elk, and moose infected with CWD may not produce any visible signs of the disease for a number of years after they become

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infected. As the disease progresses, deer, elk, and moose with CWD show changes in behavior and appearance. These clinical signs may include progressive weight loss, stumbling, tremors, lack of coordination, depression, blank facial expressions, excessive salivation and drooling, loss of appetite, excessive thirst and urination, listlessness, teeth grinding, abnormal head posture, and drooping ears. Unfortunately, these signs are not specific to CWD and can occur with other diseases or malnutrition.

For more information about CWD:

- The online guide to Chronic Wasting Disease from the U.S. Department of Agriculture’s Animal and Plant Health Inspection Service.
 - http://www.aphis.usda.gov/animal_health/animal_diseases/cwd/
- The CWD information website of the Texas Parks and Wildlife Department.
 - <http://www.tpwd.state.tx.us/huntwild/wild/diseases/cwd/>
- The information website of the Chronic Wasting Disease Alliance.
 - <http://www.cwd-info.org/>

About TVMDL: By testing hundreds of specimens every business day, the Texas Veterinary Medical Diagnostic Laboratory contributes significantly to protecting the health of livestock, poultry, companion animals, exotic animals, racing animals, and wildlife. TVMDL offers a wide range of state-of-the-art diagnostic tests that deliver accurate results promptly and affordably. TVMDL is among 12 core laboratories in the National Animal Health Laboratory Network, a group of state and regional laboratories designed to provide a nationwide surge-testing, response, and recovery capacity in the event of an animal disease outbreak. A member of The Texas A&M University System and an agency of Texas A&M AgriLife, TVMDL comprises two full-service laboratories, in College Station and Amarillo, and two poultry laboratories, in Center and Gonzales. TVMDL is accredited by the American Association of Veterinary Laboratory Diagnosticians. Visit our website: <http://tvmdl.tamu.edu>.

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