

523 EAST CAPITOL AVENUE | PIERRE, SD 57501

## CHRONIC WASTING DISEASE FREQUENTLY ASKED QUESTIONS

ONLINE AT: gfp.sd.gov/chronic-wasting-disease/

### Chronic Wasting Disease (CWD)

#### What is CWD?

Chronic wasting disease (CWD) is a fatal brain disease of deer, elk and moose that is caused by an abnormal protein called a prion. Animals infected with CWD **may** show progressive loss of weight and body condition, behavioral changes, excessive salivation, increased drinking and urination, depression, loss of muscle control and eventual death. CWD is always fatal for the afflicted animal. Unfortunately, CWD cannot be diagnosed by observation of physical symptoms because many big game diseases affect animals in similar ways.

#### What is a prion?

A prion is defined as an abnormal form of cellular protein that is mostly found in the central nervous system and in lymphoid tissue. The prion "infects" the host animal by promoting conversion of normal cellular protein to the abnormal form.

#### What does this mean to the future of these wildlife populations in South Dakota?

Research in Wyoming and Colorado has shown that if prevalence of CWD gets to high levels, deer and elk populations may not be able to sustain themselves and hunting females of these populations may have to cease in order to maintain desired population levels. This means the number of big game licenses may be reduced or even eliminated depending on population levels.

### Where Does CWD Occur?

#### Where is CWD found?

CWD was first described in a Colorado Division of Wildlife captive deer research facility in 1967 and a few years later in a similar Wyoming research facility. CWD was first identified in South Dakota in seven captive elk herds in the winter of 1997-1998. CWD was first found in free-ranging wildlife in a white-tailed deer in Fall River County during the 2001 big game hunting season. Since then in South Dakota, CWD has been detected in free-ranging wildlife in Bennett, Buffalo, Butte, Corson, Custer, Fall River, Haakon, Harding, Jackson, Lyman, Meade, Mellette, Lawrence, Pennington, Perkins, Stanley, Sully, Tripp and Ziebach counties, including Custer State Park and Wind Cave National Park. A map of the known distribution of CWD within free-ranging deer and elk can be found at the bottom of https://gfp.sd.gov/chronic-wasting-disease/ under "Related Maps."

#### How often does CWD occur?

Surveillance by hunter-harvest sur and testing of unhealthy deer and elk currently implies CWD is relatively rare in free- ranging cervids when the number of animals present is considered. Thus far in South Dakota, 24 years of surveillance and testing of wild deer and elk have shown 358 CWD positive deer and 244 CWD positive elk out of 23,663 deer and 7,888 elk tested. Of the 602 positive animals, Wind Cave National Park has discovered 158 elk and 13 deer that tested positive. Custer State Park has discovered 33 elk and 12 deer that have tested positive. In the 2020- 2021 sampling period, 57 animals (47 deer and 10 elk) tested positive for CWD in South Dakota.

#### What is a CWD endemic area?

A CWD endemic area is a geographic area where CWD has been confirmed in free-ranging deer or elk.





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#### What is the difference between prevalence rate and presence?

Prevalence rate can be defined as a percentage of cervids (deer, elk or moose) in a population or hunting unit that are infected with CWD. Presence just means that CWD has been documented in a given population or hunting unit.

### **CWD** Testing

#### How can I submit my own CWD sample for testing?

Firearm deer hunters with licenses to harvest animals in South Dakota priority surveillance areas will be mailed information on how to submit CWD samples. Mentored, youth, apprentice, archery, and muzzleloader hunters can also submit samples using one of the options described below. Hunters who harvest deer or elk outside of priority surveillance areas can still have their animal tested for CWD by following the process outlined below. As a voluntary submission, hunters will be responsible for the cost of shipping and any professional sample collection costs, unless the hunter delivers a sample to a GFP Office or established collection station. South Dakota Game, Fish and Parks (GFP) will pay for testing cost of the sample at South Dakota State University Animal Disease and Research Diagnostics Lab. Results will be sent to both the hunter and GFP. These results will supplement GFP's surveillance effort across the state.

#### **Submission Options**

#### Option #1

- Tagged samples or entire head can be dropped off at any of the collection stations (see below for details). Available collection stations can be found at the bottom of <u>https://gfp.sd.gov/chronic-wasting-disease/</u> under "Related Maps".
  - If a hunter will not be doing a shoulder or European mount, antlers can remain attached to the skull or removed using a V-cut method and placed in the collection barrel. Antlers left on the skull will not be returned.

#### Option #2

- **Completely fill out** the South Dakota Chronic Wasting Disease Hunter Submission Form found at <a href="https://gfp.sd.gov/cwd-testing/">https://gfp.sd.gov/cwd-testing/</a>.
- Collect only the retropharyngeal lymph nodes, located in the throat area, as demonstrated in videos found at <a href="https://gfp.sd.gov/cwd-testing/">https://gfp.sd.gov/cwd-testing/</a>. Extraction can easily be performed with a field knife, but some veterinarians will extract samples for a small fee as well.
- Once removed, place lymph nodes in a sealed bag (Ziploc<sup>®</sup> or similar). Place sealed bag into another sealed bag, then wrap in a paper towel. Place wrapped sample with a cold ice pack and submission form (in separate sealed bag) into a small box and send via your choice of parcel carrier. Choose a carrier that will deliver your sample within 24-48 hours. Ship samples during the week (Mon-Thurs) and avoid shipping on weekends and holidays. Use a parcel carrier that offers tracking of your package.
- CWD testing kits are available for hunters at any GFP office found at <a href="https://gfp.sd.gov/contactus/">https://gfp.sd.gov/contactus/</a>.
- The package delivery address is listed below and at the bottom of the CWD Hunter Submission Form. Results are usually available within 2-3 weeks but may take longer depending on sample volume at the SDSU Diagnostic Laboratory.

Send samples to: South Dakota State University Animal Disease Research and Diagnostic Lab Box 2175, 1155 North Campus Drive Brookings, SD 57007

#### Option #3

• Contact your local GFP office and schedule to have your sample removed and submitted for testing at no cost.







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## How do I submit samples from bucks that I may want to have shoulder mounted, European mounted or just keep the antlers?

#### Options

- If a harvested animal is to be shoulder mounted, animal must be caped **before** head is submitted to a collection area or delivered to a GFP office for sample collection.
- If a hunter desires a European mount, sample must be collected **before** tissue is removed from skull. This sample collection can be conducted by the hunter or at a GFP office with prior arrangements and skull will be returned to hunter at time of sample collection. If this method is utilized, please do not submit frozen heads. Heads put in collection stations with antlers attached **will not** be returned to hunters.
- If a hunter only desires to keep antlers, a V-cut can be conducted and head without antlers can be dropped at a collection station. Removing antlers with this V-cut will not damage the sample.

#### How long does it take to get CWD testing results?

Time to get results from testing of a CWD sample may vary depending on when samples are collected and when GFP sends samples to the SDSU Diagnostic lab. GFP will send samples to the lab once or twice a week. The process at the lab may take some time to determine results. In most instances, results are determined within a 1-2-week period. In situations during a high-volume sampling period such as the firearm deer seasons when increased samples are sent to the lab, results may take up to 2-3 weeks. Hunters will be notified as soon as possible.

#### How will I be notified of CWD testing results?

Hunters will be notified of CWD testing results on all samples submitted. It is important that all information requested by GFP is filled out so testing results can be sent to hunters. Hunters will be notified by phone if CWD testing shows that CWD is present in the sample tested. Hunters will be sent an e-mail notifying them that the results from CWD testing is available on their hunter profile. It is very important that information on the submitted samples is completely and accurately filled out, and that all hunters review their current hunter profile to update any information that has recently changed.

### **CWD Transmission**

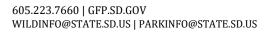
#### How is CWD transmitted?

How the abnormal prion is transmitted from diseased animals to healthy ones is believed to be through direct animal to animal contact and/or contamination of feed or water sources with saliva, urine, and/or feces from an infected animal.

Numerous organizations and individual scientists across the United States and Canada are continuing to conduct detailed investigations to obtain a definitive answer to the route of transmission. Evidence shows that infected carcasses may serve as a source of infection. CWD seems more likely to occur in areas where deer or elk are crowded or where they congregate at man-made feed and water stations. Artificial feeding of deer and elk will likely compound the problem.

#### Is CWD transmissible to humans?

Public health officials and the Center for Disease Control have found no link between CWD and any neurological disease in humans. Visit the Center for Disease Control and Prevention website at <a href="https://www.cdc.gov/prions/cwd/prevention.html">https://www.cdc.gov/prions/cwd/prevention.html</a> for more information.







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#### To minimize their risk of exposure to CWD, hunters should:

- Consult with their state wildlife agencies to identify areas where CWD occurs and take appropriate precautions when hunting in such areas.
- Avoid eating meat from deer and elk that look sick or test positive for CWD.
- Consider having the deer or elk tested for CWD before consuming the meat if the animal was harvested from an area known to have CWD-positive animals. Information about testing is available from most state wildlife agencies.
- Wear gloves, bone-out the meat from the animal, and minimize handling of the brain and spinal cord tissues when field dressing an animal. Research indicates a five-minute, submerged soak in a 40 percent bleach solution will de-activate prions on stainless steel items.

#### Is CWD transmissible to domestic livestock?

Research indicates that there is no evidence that CWD can be naturally transmitted to domestic livestock. CWD is similar in some respects to two known livestock diseases:

- Scrapie, which affects domestic sheep and goats worldwide and has been recognized for over 200 years.
- Bovine Spongiform Encephalopathy (BSE, Mad Cow Disease), which is a more recent disease of cattle in Great Britain and Europe. BSE has been found in Canada and the United States.

Though there are similarities, there is no evidence suggesting either scrapie or BSE is caused by contact or close association with wild deer or elk.

### How Does CWD Impact Me?

#### As a hunter, what do I need to be the most concerned about?

In the absence of complete information on risk and in light of similarities of animal and human TSEs (prion disease), public health officials and wildlife management professionals recommend that hunters harvesting deer and elk, as well as meat processors and taxidermists handling cervid carcasses, should take some common sense measures to avoid exposure to the CWD agent and to other wildlife diseases. Such measures include wearing disposable gloves when handling muscle tissue, brain, and spinal cord tissue and cleaning utensils and processing equipment with a minimum 40% bleach solution. CWD poses serious problems for wildlife managers and the implications for free-ranging deer and elk are significant.

#### Can I tell if an animal has CWD based on physical appearance or behavior?

An animal does not necessarily have to display clinical signs or look unhealthy for it to test positive for CWD. In fact, it is possible to harvest a healthy-looking animal that has CWD. If you harvest a deer or elk in a CWD endemic area or anywhere in the state and have concerns, you can submit your own sample for testing using the form and instructions found at <a href="https://gfp.sd.gov/cwd-testing/">https://gfp.sd.gov/cwd-testing/</a>.

#### As a game processor or taxidermist, what do I need to be the most concerned about?

In the absence of complete information on risk, and in light of similarities of animal and human TSEs (prion diseases), public health officials and wildlife management professionals recommend that hunters harvesting deer and elk in the endemic area, as well as meat processors and taxidermists handling cervid carcasses, should take some common sense measures to avoid exposure to the CWD agent and to other wildlife diseases. Such measures include wearing disposable gloves when handling muscle tissue, brain, and spinal cord tissue and cleaning utensils and processing equipment with a minimum 40% bleach solution.





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#### As a non-hunter, how does this impact me?

Impacts of CWD on population dynamics of deer and elk are presently unknown. Computer modeling and research suggests that CWD infected cervid populations could be substantially reduced by lowering adult survival rates and destabilizing long-term population dynamics. This would potentially reduce the ability to view deer and elk by non-hunters. Feeding wildlife for viewing purposes is a popular pastime for hunters and non-hunters alike. The concentration of wildlife at feeding and baiting stations increases the likelihood of disease transfer amongst wildlife visiting these locations.

## As a landowner or producer, do I need to be concerned that this will transmit to my livestock herds or domestic pets?

Cattle and other domestic livestock appear to be resistant to natural infection. There are no reported cases of natural transmission of CWD from infected deer or elk to domestic livestock. However, the disease has been experimentally reproduced in cattle by the direct injection of the infectious agent into their brains.

### What Can I Do?

#### What can I do to help slow the spread of CWD?

Hunters who hunt in areas that are known to have CWD can assist in the reduction of CWD spread by deboning meat in the field and leaving the carcass at the harvest site. Research has shown that infected carcasses do pose a threat to the spread of CWD, and thus harvested deer or elk removed from the field should be disposed of with your waste management provider or in a landfill that will bury the carcass. Additionally, CWD can be spread from animal to animal and through the concentration of cervids at feeding and baiting stations. Eliminating feeding and baiting areas can help to stop or slow the spread from animal to animal.

#### Are there any regulations related to CWD?

Yes, regulations are in place for all deer and elk hunting seasons. Carcass transportation and disposal regulations apply for any harvested deer or elk that will be transported from the county of harvest or from another state back into South Dakota.

In summary, the regulations include the following:

- Hunters are recommended to leave as much of the unusable carcass as possible at the location of the harvest in a
  discrete location on both public and private lands. Make arrangements with landowner on property where
  permission has been granted.
- Regulations do not prohibit a hunter from transporting a deer or elk carcass from the harvest location to anywhere in the state.
- If any portion of the carcass is removed from the location of harvest <u>and</u> transported from the county of harvest, the revised regulations will require the hunter to dispose of all carcass remains with a waste management provider, if an allowable trash item, or with a permitted landfill. Game processors and taxidermists, regardless of the location of harvest, are required to dispose of all carcass remains with a waste management provider, if an allowable trash item, or with a permitted landfill.
- If you are not moving a deer or elk carcass from the county of harvest, the regulations do not apply unless the carcass is delivered to a game processor a taxidermist. <u>Returning carcass remains to public lands and using road</u> <u>ditches to dispose of carcass remains is illegal</u>. Make sure permission is granted if disposing on private land.
- Deer or elk carcasses from another state brought back into South Dakota must be disposed of with a waste management provider or landfill that accepts carcass parts.
- Cervid carcasses passing through the State of South Dakota are exempt from any regulations.





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#### If I reside and hunt in the same county, how do these revised regulations affect me?

An individual residing and hunting within the same county is not affected by these new regulations. Only when whole or partial cervid carcass parts are transported from the county of harvest do these transportation and disposal regulations apply. Hunters are encouraged to process as much of the animal in the field (quarter or bone out carcasses) and only carry out as much of the properly tagged animal as necessary. Regardless of where a deer or elk is harvested, hunters should be mindful of proper disposal practices such as with your waste management provider or a permitted landfill.

## How does the intrastate (within SD) cervid transportation and carcass disposal regulations affect me if I am staying in a hunting camp, lodge, hotel or at a friend's house?

The transportation and disposal regulations only apply when the whole or partial cervid carcasses and head with antlers leaves the county of harvest. If proof of sex is needed for a specific license, this must accompany the animal to the taxidermist, processor or to the hunter's domicile and then be discarded in an approved landfill. Hunters can stay in deer camps, motels or with family and friends until the carcass arrives at one of the three final destinations described above (taxidermist, game processor or hunters' domicile). The intent of the cervid transportation and carcass disposal regulations are to reduce the possible spread of CWD by movement across the landscape by hunters when not disposed of correctly.

#### How do I find out if there is a permitted landfill near me?

Appropriate disposal of carcasses by hunters is ethical and the right thing to do, and using a permitted landfill is a practice that helps reduce the risk of CWD transmission and establishment into geographic areas currently not known to have CWD. A map of permitted landfills can be found at the bottom of https://ofe.ed.gov/chronic.wasting.dispace/under "Belated Maps". Cost for the dispacel of carcasses will vany If a

<u>https://gfp.sd.gov/chronic-wasting-disease/</u> under "Related Maps". Cost for the disposal of carcasses will vary. If a permitted landfill is not located near your residence, please contact your waste management provider to learn more about proper disposal options.

#### What should I do if I suspect a deer or elk has CWD?

Call your local GFP department office or conservation officer found at https://gfp.sd.gov/contactus/ or the South Dakota Animal Industry Board at 605.773.3321 (Pierre). Arrangements will be made to investigate the report.

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