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Iowa Farmed White-Tailed Deer Predictive Genetics Application

The Iowa Department of Agriculture and Land Stewardship (IDALS) is utilizing USDA-APHIS chronic wasting disease (CWD) Cooperative Agreement funding to work with Iowa white-tailed deer farmers to determine Genomically Estimated Breeding Values (GEBV) which look at alleles that reduce susceptibility to CWD across the entire white-tailed deer (WTD) genome. Tissue testing will be paid for by the IDALS and conducted through the North American Deer Registry (NADR). Results will be analyzed by the IDALS.

Testing Eligibility

- All animals tested must be farmed white-tailed deer (*Odocoileus virginianus*). Hybrids or other farmed Cervidae species are not eligible.
- All white-tailed deer tested must be officially identified (ID) and the ID must be included on the inventory list of animals submitted to the IDALS and NADR.
- Only animals included on the inventory list submitted with this application and approved by IDALS can be tested. An electronic, fillable copy of the inventory is available on website or e-mailed per request.
- Farmers must be compliant in the Iowa CWD Herd Certification program at the time of application for consideration

Sample Collection and Submission

- CWD Susceptibility Genomic Testing is conducted through the North American Deer Registry (NADR). Sampling techniques, supplies, and shipping instructions are determined by the NADR.
- Producers are responsible for obtaining supplies needed for tissue sample collection, collecting samples, and shipping samples to NADR.
- Instructions for tissue collection and necessary supplies can be found by visiting: https://www.nadeerregistry.com/samplestissue.html

Sample submissions to NADR MUST be accompanied by the IDALS approved inventory list

Data Sharing

Producers must provide a copy of genetic test results to the IDALS within 14 days of receiving test results from the NADR. Failure to provide test results to IDALS may prevent participation in future funding opportunities. These results will be compiled to get a comprehensive picture of the farmed white-tailed deer genetic susceptibility to CWD in the state of Iowa and will not result in any regulatory action.

IDALS considers individual producer data to be confidential information and protected from disclosure under Iowa Code chapter 22. Individual data will not be released without notice to the producer and an opportunity for the producer to seek an injunction.

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Name of Producer:
Producer Address:
City: IA Zip code:
Producer Telephone Number:
Producer Email Address:
Herd Number:
Number of Whitetail Deer to be Tested:
Date:
Please initial next to each term to signify that you have reviewed and understood each term: I understand that I can only submit samples from farmed white-tailed deer for GEBV testing and that I am responsible for sample collection and submitting samples to the NADR. I understand the IDALS will only reimburse NADR for GEBV testing of approved white-tailed deer in my herd and that any other testing requested on the sample shall be at my own expense. I agree to maintain official ID on all tested deer when they are in my possession and to notify the IDALS with any change to the official ID in each animal. I agree to share GEBV results for my herd with IDALS within 14 days of receipt of the GEBV results from NADR. I have included an accurate and complete electronic inventory of animals from which I intend to collect samples with this application and that I will submit the same inventory to NADR when
GEBV testing has been developed to allow producers to increase genetic resistance to CWD through selective breeding of animals with higher genetic resistance and selective culling of animals with increased genetic susceptibility to CWD. IDALS encourages producers to develop a herd management plan that will use the GEBV's to incorporate predictive genetics as a tool in reducing the CWD susceptibility of their farmed white-tailed herd. It is suggested that animals with a GEBV above -0.056 be phased out of the herd breeding. In consideration of your GEBV testing application, how do you plan to utilize this testing?
Submit application and inventory spreadsheet with animal identification to IDALS at delores.clausen@iowaagriculture.gov
Upon receipt, the IDALS will review to ensure the application is complete, herd is compliant with Iowa's CWD HCP and that the Animal ID list reflects animals documented to be in your herd. Upon verification, you will be contacted by e-mail by our office approving you to ship samples to NADR.
For Office Use Only:
□Approved □Denied Date: