

2016 FFA Veterinary Science CDE Written Scenario

Veterinarians are responsible for responding to outbreaks, informing the public about the disease, and creating biosecurity protocols. During the past 2 years, the United States Department of Agriculture (USDA) has confirmed several cases of the H5N1 strain of avian influenza in the Midwest United States. The H5N1 strain of avian influenza is highly pathogenic and can completely devastate poultry farms. In 2015, Iowa lost over 30 million hens and 1.5 million turkeys. The economic impact was estimated at 1.2 billion dollars. Write a short essay response to the following avian influenza scenario utilizing expository style of writing and the references provided:

A poultry farmer in northern Iowa has 500 egg-laying hens. Avian influenza outbreaks are being reported throughout Minnesota and are rapidly moving south into Iowa, resulting in the farmer fearing for the health of his flock of chickens. Discuss the H5N1 strain of avian influenza with the farmer. Include information regarding disease transmission, clinical signs, diagnosis, and treatment. Discuss the impact of an avian influenza outbreak. Develop a biosecurity protocol for the farmer to implement.

Resources:

United States Department of Agriculture

http://www.usda.gov/wps/portal/usda/usdahome?contentidonly=true&contentid=avian_influenza.html

Center for Disease Control <http://www.cdc.gov/flu/avianflu/>

Iowa Department of Agriculture and Land Stewardship

<http://www.iowaagriculture.gov/avianinfluenza.asp>

University of Minnesota Center for Infectious Disease Research and Policy

<http://www.cidrap.umn.edu/news-perspective/2015/08/report-finds-12-billion-iowa-avian-flu-damage>