

Environmental & Natural Resources (2023)

Identify scientifically-based solutions to the management of natural resources. [AFNR.HS.15.1](#)

- a** Describe the agriculture technology behind the management techniques (e.g., contour cropping) of Nebraska's natural resources. [AFNR.HS.15.1.A](#)

- b** Identify proper use of tools utilized in natural resource management (e.g., atmometer, soil pH). [AFNR.HS.15.1.B](#)

- c** Describe common species of wildlife found in Nebraska. [AFNR.HS.15.1.C](#)

- d** Classify common species of grasses, forbes, shrubs, and trees found in Nebraska ecosystems. [AFNR.HS.15.1.D](#)

- e** Describe the impact and importance of natural resources to the people of Nebraska. [AFNR.HS.15.1.E](#)

Analyze the interrelationships between natural resources and humans in the foundation of modern agriculture. [AFNR.HS.15.2](#)

- a** Distinguish current production methods within a context of modern agriculture production. [AFNR.HS.15.2.A](#)

- b** Identify the current programs in place with a focus on the conservation and sustainability of natural resources (e.g., Wetlands Reserve Program, Conservation Stewardship Program, Conservation Reserve Program, Source Water Protection Program). [AFNR.HS.15.2.B](#)

- c** Describe the role of local, state, and national agencies/organizations in the management of our local resources. [AFNR.HS.15.2.C](#)

- d** Identify production methods that are best suited to specific environmental conditions. [AFNR.HS.15.2.D](#)

- e** Analyze use of modern technology in relation to agriculture production and natural resource management. [AFNR.HS.15.2.E](#)

Summarize environmental aspects to be considered in ensuring sustainable production and processing of natural resources. [AFNR.HS.15.3](#)

- a** Identify components that comprise ecosystems and the relationships within such ecosystems. [AFNR.HS.15.3.A](#)

- b** Outline the methods used to measure air quality. [AFNR.HS.15.3.B](#)

- c** Explain the water cycle (e.g., hydrologic) and its management. [AFNR.HS.15.3.C](#)

d Describe the soil formation process, soil types, and how they affect land use. AFNR.HS.15.3.D

e Determine the economic and environmental value of the forestry industry. AFNR.HS.15.3.E

Evaluate responsible management procedures and techniques to protect, maintain, enhance, and improve natural resources. AFNR.HS.15.4

a Identify current management policies that are put in place by the local, state, and national government. AFNR.HS.15.4.A

b Compare and contrast alternative energy sources used within the agricultural industry. AFNR.HS.15.4.B

c Identify non-native and invasive species in Nebraska. AFNR.HS.15.4.C

d Calculate the financial and environmental cost of non-native species. AFNR.HS.15.4.D