Nebraska CTE

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 Identity 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 pr res	**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
	xplain the water cycle (e.g., hydrologic) and its management. AFNR.HS.15.3.C

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	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