Nebraska CTE

Nursery Management

Synthesize the principles of taxonomic systems to classify plants. AFNR.HS.24.1	a	**Classify plants in a variety of areas (e.g., taxonomy, life cycle, plant use, structure).** AFNR.HS.24.1.A
	b	**Describe how classification is used globally in plant identification.** AFNR.HS.24.1.B
	c	**Identify landscape plants, using cultivars or varieties in a scientific name and the corresponding common name.** AFNR.HS.24.1.C
	d	**Categorize plants by their purpose (e.g., floral plants, landscape plants, house plants).** AFNR.HS.24.1.D
Apply methods of plant propagation for plant reproduction. AFNR.HS.24.2	a	**Demonstrate sowing techniques and provide favorable conditions for seed germination.** AFNR.HS.24.2.A
	b	**Explain the methods of asexual propagation and identify which species and varieties are best suited to each method.** AFNR.HS.24.2.B
	c	**Develop a schedule for propagation to meet seasonal production demands.** AFNR.HS.24.2.C
Explain the influence of environmental factors, nutrients, and soil on plant growth through the plant management plans. AFNR.HS.24.3	a	**Identify environmental factors involved in ornamental plant production including soils, water, pests, and human actions.** AFNR.HS.24.3.A
	b	**Describe the desired characteristics of an ideal growing medium.** AFNR.HS.24.3.B
	c	**Explain the techniques of soil sampling and relate this process to testing the growing medium and interpreting the results to recommend fertilizer applications and pH treatment.** AFNR.HS.24.3.C
	d	**Evaluate how heat, humidity, and light affect the heating, cooling, and ventilation systems of a greenhouse.** AFNR.HS.24.3.D
	e	**Develop a water management plan for field production, nursery, or a controlled environment.** AFNR.HS.24.3.E
	f	**Analyze the deficiency symptoms of the major plant nutrients and investigate the economic impacts of those deficiencies.** AFNR.HS.24.3.F

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Differentiate between field production, nursery, and greenhouse or controlled environment production and the plants produced in each. AFNR.HS.24.4	**a** Describe in the correct order the steps utilized in integrated pest management (IPM) in relation to horticultural crops and landscapes. AFNR.HS.24.4.A
	b Identify common plant pests (insects and diseases) for horticultural crops and describe the damage inflicted to the plants. AFNR.HS.24.4.B
	c Explain the types of pest control methods and classification of herbicides and discuss the appropriate uses and safety measures for each type. AFNR.HS.24.4.C
	d Determine best management practices (BMP) for soil amendments, fertilizers, and pesticides. AFNR.HS.24.4.D
	e Plan for common greenhouse and nursery production materials needed based on spacing and crop requirements. AFNR.HS.24.4.E
	f Compare and contrast the different types of technologies and equipment used for production. AFNR.HS.24.4.F
Analyze how nursery plants are grown and managed. AFNR.HS.24.5	**a** Identify the various types of root production methods and compare the quality of the resulting plants. AFNR.HS.24.5.A
	b Describe the differences between bare root, containerized, balled, and burlapped plants. AFNR.HS.24.5.B
	c Use ANSI Standards to evaluate whether plants in various categories (evergreen, shrub) meet the standard. AFNR.HS.24.5.C
	d Describe how the timing of transplanting affects plant quality. AFNR.HS.24.5.D
	e Analyze production and delivery schedules for specific plant types and the associated labor required. AFNR.HS.24.5.E
	f Interpret the reasons, methods, and timing for pruning woody and herbaceous plants for optimal plant growth. AFNR.HS.24.4.F