

NM Public Education Department

SCIENCE OF WILDLIFE AND FORESTRY MANAGEMENT

END-OF-COURSE EXAM | GRADE 9-12 | YEAR 17-18

ASSESSMENT BLUEPRINT

Purpose Statement

Science of Wildlife and Forestry Management

The Wildlife and Forestry Management End-of-Course Exam is designed to measure student proficiency of the standards and performance elements aligned to the Common Career Technical Core Standards (https://cte.careertech.org/sites/default/files/CCTC_Standards_Formatted_2014.pdf). This course-level exam is provided to all students who have completed Science of Wildlife and Forestry Management.

This exam can be given for the following STARS course code:

0182 - Science of Wildlife and Forestry Management

Intended as a final exam for the course, this is a summative exam covering a wide range of content, skills, and applications. Scores are reported to the teacher, school, district, and state levels for the purposes of student grades, curriculum review, and NMTeach summative reports.

New Mexico State University College of Agriculture, Consumer and Environmental Sciences

This blueprint was developed and piloted in 2016 by the New Mexico State University's (NMSU) Secondary Agriculture Education Office (<http://aces.nmsu.edu/>) in partnership with New Mexico agriculture educators. NMSU uses test items with consent from MYCaert, Inc. (<http://www.mycart.com>). MyCaert has given copyright permissions to the New Mexico Public Education Department (NMPED).

Sample Questions

The NMPED has released sample items (prior test exam questions in the test bank) for each performance element. Due to a limited item bank, only five, EOC specific, sample questions have been provided on the blueprint. The depth of knowledge (DOK) level has also been identified for each sample question.

Blueprint Table—Science of Wildlife and Forestry Management

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENTS
Natural Resource Systems	AG-NR.1	<p>Performance Element: Plan and conduct natural resource management activities that apply logical, reasoned and scientifically based solutions to natural resource issues and goals.</p> <p>Sample Question: Charlie lives at the foothills of a mountain and wants to establish a patch of natural nut producing vegetation so he uses a shovel to create small ditches to divert water toward his vegetation. What would this water be classified as?</p> <p>A. surface runoff water * B. well water C. spring water D. surface water</p> <p>DOK 2</p>
	AG-NR.2	<p>Performance Element: Analyze the interrelationships between natural resources and humans.</p> <p>Sample Question: Which of the values associated with wildlife conservation include the money generated from wildlife and fish?</p> <p>A. aesthetic value B. commercial value * C. scientific value D. ecological value</p> <p>DOK 1</p>
	AG-NR.3	<p>Performance Element: Develop plans to ensure sustainable production and processing of natural resources.</p> <p>Sample Question:</p>

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENTS
		<p>How might a radioactive chemical spill in a waterway negatively impact the reproductive ability of fish?</p> <p>A. increased mutations of offspring B. increased number of sterile fish * C. increased birth rate D. increased death rate</p> <p>DOK 3</p>
	AG-NR.4	<p>Performance Element: Demonstrate responsible management procedures and techniques to protect or maintain natural resources.</p>
Power, Structural & Technical Systems	AG-PST.4	<p>Performance Element: Plan, build and maintain AFNR structures.</p>
Plant Systems	AG-PL.2	<p>Performance Element: Apply the principles of classification, plant anatomy and plant physiology to plant production and management.</p>
	AG-PL.3	<p>Performance Element: Propagate, culture and harvest plants and plant products based on current industry standards.</p>
Environmental Service Systems	AG-ENV.5	<p>Performance Element: Use tools, equipment, machinery and technology common to tasks in environmental service systems.</p>

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENTS
Animal Systems	AG-ANI.6	<p>Performance Element: Classify, evaluate and select animals based on anatomical and physiological characteristics.</p> <p>Sample Question: What is the Midwestern game bird with long tail feathers and a white ring around its neck that originated in China called?</p> <p>A. pheasant * B. mallard C. scaled quail D. gambol's quail</p> <p>DOK 1</p>
	AG-ANI.7	<p>Performance Element: Apply principles of effective animal health care.</p> <p>Sample Question: Which compounds make up protein?</p> <p>A. amino acids * B. fish meal C. fatty acids D. carbohydrates</p> <p>DOK 1</p>

Science of Wildlife and Forestry Management EoC Reporting Category Alignment Framework					
Reporting Category	Standard	DOK (Count by DOK)			Grand Total
		1	2	3	
Natural Resource Systems	AG-NR.1			10	10
	AG-NR.2	3	11		14
	AG-NR.3			4	4
	AG-NR.4	4			4
Power, Structural & Technical Systems	AG-PST.4	2			2
Plant Systems	AG-PL.2	4			4
	AG-PL.3	2			2
Environmental Service Systems	AG-ENV.5	1			1
Animal Systems	AG-ANI.6	6	3		9
	AG-ANI.7	2	3		5
Total		24	17	14	55