



2022-2023

Technical Skills Assessment

Animal Science

Results by Standard

Legend (%)		
0-50%	51-75%	76-100%

Assessment: Animal Science	% Correct	% Correct	% Correct
Number tested: 144	20-21	21-22	22-23
CONTENT STANDARD 1.0: AGRICULTURE FUNDAMENTALS	61.16%	62.45%	62.60%
Performance Standard 1.1: Animal Agriculture Industries	54.25%	55.91%	53.46%
1.1.1 Explain animal production in Idaho.	54.25%	55.91%	53.46%
Performance Standard 1.2: Beef Industry	64.41%	63.37%	65.10%
1.2.2 Determine the facility and equipment needs in beef production.	61.22%	59.70%	59.74%
1.2.3 Compare and contrast types of beef production systems.	68.11%	65.51%	70.45%
1.2.4 Compare and contrast grazing systems.	65.14%	65.61%	66.88%
Performance Standard 1.3: Dairy Industry	59.82%	65.51%	64.45%
1.3.1 Describe elements of dairy production.	59.82%	65.51%	64.45%
CONTENT STANDARD 2.0: NUTRITIONAL REQUIREMENTS FOR LIVESTOCK	68.93%	68.35%	71.57%
Performance Standard 2.1: Digestive Systems of Domestic Animals	87.76%	90.51%	91.56%
2.1.1 Compare and contrast ruminant and mono-gastric digestive systems.	87.76%	90.51%	91.56%
Performance Standard 2.2: Livestock Feedstuffs	66.58%	65.59%	69.07%
2.2.1 Explain the functions of feed and how they supply nutrients to livestock.	65.69%	64.72%	65.26%
2.2.2 Identify, compare and contrast the types of feedstuffs (roughages, concentrates, and supplements/additives).	67.47%	66.46%	72.89%
CONTENT STANDARD 3.0: LIVESTOCK REPRODUCTIVE SYSTEMS	60.57%	67.90%	64.47%
Performance Standard 3.2: Natural Animal Reproduction	70.79%	78.01%	73.21%
3.2.1 Discuss the importance and explain the basics of animal reproduction.	70.79%	78.01%	73.21%
Performance Standard 3.5: Lactation	46.94%	54.43%	52.81%
3.5.1 Discuss reproduction management practices and determine how they affect reproductive performance.	46.94%	54.43%	52.81%
CONTENT STANDARD 4.0: PRINCIPLES OF EVALUATION FOR ANIMAL SELECTION	60.71%	66.46%	65.58%
Performance Standard 4.2: Heritability of Traits	60.71%	66.46%	65.58%
4.2.3 Discuss the advantages of crossbreeding and hybrid vigor in livestock production.	60.71%	66.46%	65.58%

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CONTENT STANDARD 5.0: ANIMAL WELFARE, HANDLING, AND QUALITY ASSURANCE	65.82%	68.04%	69.61%
Performance Standard 5.1: Animal Welfare Philosophies	79.18%	81.65%	81.04%
5.1.1 Compare and contrast animal welfare versus the concept of animal rights.	81.38%	82.75%	86.04%
5.1.2 Research and report the basis for general concerns regarding animal welfare.	70.41%	77.22%	61.04%
Performance Standard 5.3: Cultural and Controversial Issues Related to Animal Use and Keep	68.37%	71.28%	72.73%
5.3.1 Compare and contrast current controversial issues in animal usage.	43.88%	49.37%	57.47%
5.3.2 Distinguish between fact and propaganda when analyzing animal usage issues and their impact on the environment.	77.38%	78.06%	83.12%
5.3.4 Examine legislation regarding current animal usage and welfare.	75.68%	79.11%	72.51%
Performance Standard 5.4: Quality Assurance Standards	53.35%	54.61%	57.88%
5.4.1 Research quality assurance standards for Idaho's livestock industry.	44.90%	44.46%	47.56%
5.4.2 Explain how these standards would apply to the livestock industry.	64.63%	68.14%	71.65%
CONTENT STANDARD 6.0: EVALUATING ANIMAL HEALTH AND ADMINISTERING CARE	71.07%	73.19%	73.32%
Performance Standard 6.1: Animal Disease Transmission and Immunity	85.97%	90.19%	89.61%
6.1.3 Identify how passive and active immunity can be enhanced by management.	85.97%	90.19%	89.61%
Performance Standard 6.2: Animal Medications	66.96%	68.20%	70.21%
6.2.1 Examine the use of vaccines in disease control.	55.74%	55.22%	56.66%
6.2.2 Examine the types and forms of pharmaceuticals.	82.40%	85.76%	89.29%
6.2.3 Compare appropriate storage methods for medications and recognize how improper storage conditions may affect drugs.	73.98%	76.58%	78.25%
Performance Standard 6.3: Medication and Care	75.89%	78.53%	78.52%
6.3.1 Illustrate methods used to administer vaccines and pharmaceuticals.	78.91%	78.90%	77.49%
6.3.2 Identify the instruments used to administer vaccines and pharmaceuticals.	74.32%	78.27%	76.84%
6.3.3 Describe the types of injections, and determine the appropriate injection sites and dosages.	73.47%	78.16%	75.32%
6.3.4 Examine the components of a label found on animal medication and interpret a veterinarian's prescription.	76.02%	78.64%	82.14%
Performance Standard 6.4: Parasites	76.66%	79.43%	76.46%
6.4.3 Recognize the importance of controlling parasites in disease management.	76.66%	79.43%	76.46%
Performance Standard 6.5: Disease Control and Management	76.53%	84.81%	83.12%
6.5.2 Evaluate vaccination and prevention methods, and describe the types of vaccines available.	76.53%	84.81%	83.12%
Performance Standard 6.6: Animal Health	57.31%	57.38%	57.90%
6.6.1 Interpret animal behavior as related to health.	43.11%	43.35%	41.88%
6.6.3 Describe ways of identifying and tracking individual animals.	64.41%	64.40%	65.91%

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CONTENT STANDARD 8.0: EXAMINE AGRICULTURAL BUSINESS AND RISK MANAGEMENT	58.16%	56.08%	59.35%
Performance Standard 8.1: Marketing Process	52.21%	48.31%	53.46%
8.1.3 Discuss current industry trends in agriculture marketing.	52.21%	48.31%	53.46%
Performance Standard 8.2: Market and Sales Analysis	67.09%	67.72%	68.18%
8.2.3 Discuss the value of accurate product information.	67.09%	67.72%	68.18%
CONTENT STANDARD 9.0: CAREER OPPORTUNITIES IN ANIMAL SCIENCE	69.90%	73.73%	74.51%
Performance Standard 9.1: Careers in Animal Science	69.90%	73.73%	74.51%
9.1.1 Research potential careers in animal science.	87.76%	94.30%	94.16%
9.1.2 Demonstrate employability skills for a career in the animal science industry.	63.95%	66.88%	67.97%
CONTENT STANDARD 10.0: LEADERSHIP TRAINING THROUGH AGRICULTURAL EDUCATION	69.98%	72.78%	72.94%
Performance Standard 10.1: Effective Leadership and Participation in Leadership Training	66.07%	68.35%	67.69%
10.1.2 Participate in a career development event at a local or higher level.	64.03%	67.72%	66.56%
10.1.4 Participate in a speech or presentation activity.	68.11%	68.99%	69.83%
Performance Standard 10.2: School and Community Awareness	77.81%	81.65%	83.44%
10.2.1 Participate in a school improvement or community development project.	77.81%	81.65%	83.44%