



2020-2021

Technical Skills Assessment

Animal Science

Results by Standard

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

Assessment: Animal Science Number tested: 157	% Correct 17-18	% Correct 18-19	% Correct 20-21
CONTENT STANDARD 1.0: AGRICULTURE FUNDAMENTALS	62.80%	84.03%	61.16%
Performance Standard 1.1: Animal Agriculture Industries	46.11%	61.46%	54.25%
1.1.1 Explain animal production in Idaho.	46.11%	53.50%	54.25%
Performance Standard 1.2: Beef Industry	67.87%	53.50%	64.41%
1.2.2 Determine the facility and equipment needs in beef production.	68.22%	66.07%	61.22%
1.2.3 Compare and contrast types of beef production systems.	69.16%	67.79%	68.11%
1.2.4 Compare and contrast grazing systems.	66.67%	71.43%	65.14%
Performance Standard 1.3: Dairy Industry	65.19%	60.78%	59.82%
1.3.1 Describe elements of dairy production.	65.19%	58.19%	59.82%
CONTENT STANDARD 2.0: NUTRITIONAL REQUIREMENTS FOR LIVESTOCK	66.56%	58.19%	68.93%
Performance Standard 2.1: Digestive Systems of Domestic Animals	89.72%	66.11%	87.76%
2.1.1 Compare and contrast ruminant and mono-gastric digestive systems.	89.72%	86.55%	87.76%
Performance Standard 2.2: Livestock Feedstuffs	63.67%	86.55%	66.58%
2.2.1 Explain the functions of feed and how they supply nutrients to livestock.	58.18%	63.55%	65.69%
2.2.2 Identify, compare and contrast the types of feedstuffs (roughages, concentrates, and supplements/additives).	69.16%	62.39%	67.47%
CONTENT STANDARD 3.0: LIVESTOCK REPRODUCTIVE SYSTEMS	61.95%	64.71%	60.57%
Performance Standard 3.2: Natural Animal Reproduction	68.93%	61.70%	70.79%
3.2.1 Discuss the importance and explain the basics of animal reproduction.	68.93%	70.17%	70.79%
Performance Standard 3.5: Lactation	52.65%	70.17%	46.94%
3.5.1 Discuss reproduction management practices and determine how they affect reproductive	52.65%	50.42%	46.94%
CONTENT STANDARD 4.0: PRINCIPLES OF EVALUATION FOR ANIMAL SELECTION	71.96%	50.42%	60.71%
Performance Standard 4.2: Heritability of Traits	71.96%	64.71%	60.71%
4.2.3 Discuss the advantages of crossbreeding and hybrid vigor in livestock production.	71.96%	64.71%	60.71%

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CONTENT STANDARD 5.0: ANIMAL WELFARE, HANDLING, AND QUALITY ASSURANCE	68.50%	64.71%	65.82%
Performance Standard 5.1: Animal Welfare Philosophies	79.44%	65.71%	79.18%
5.1.1 Compare and contrast animal welfare versus the concept of animal rights.	79.91%	80.84%	81.38%
5.1.2 Research and report the basis for general concerns regarding animal welfare.	77.57%	80.88%	70.41%
Performance Standard 5.3: Cultural and Controversial Issues Related to Animal Use and Keep	73.36%	80.67%	68.37%
5.3.1 Compare and contrast current controversial issues in animal usage.	57.94%	70.59%	43.88%
5.3.2 Distinguish between fact and propaganda when analyzing animal usage issues and their impact on the environment.	77.88%	52.94%	77.38%
5.3.4 Examine legislation regarding current animal usage and welfare.	79.13%	78.71%	75.68%
Performance Standard 5.4: Quality Assurance Standards	55.14%	74.23%	53.35%
5.4.1 Research quality assurance standards for Idaho's livestock industry.	44.39%	49.34%	44.90%
5.4.2 Explain how these standards would apply to the livestock industry.	69.47%	40.76%	64.63%
CONTENT STANDARD 6.0: EVALUATING ANIMAL HEALTH AND ADMINISTERING CARE	72.42%	60.78%	71.07%
Performance Standard 6.1: Animal Disease Transmission and Immunity	91.59%	68.53%	85.97%
6.1.3 Identify how passive and active immunity can be enhanced by management.	91.59%	88.66%	85.97%
Performance Standard 6.2: Animal Medications	66.47%	88.66%	66.96%
6.2.1 Examine the use of vaccines in disease control.	54.44%	64.18%	55.74%
6.2.2 Examine the types and forms of pharmaceuticals.	87.85%	53.15%	82.40%
6.2.3 Compare appropriate storage methods for medications and recognize how improper storage conditions may affect drugs.	69.16%	78.15%	73.98%
Performance Standard 6.3: Medication and Care	76.71%	72.27%	75.89%
6.3.1 Illustrate methods used to administer vaccines and pharmaceuticals.	78.50%	71.71%	78.91%
6.3.2 Identify the instruments used to administer vaccines and pharmaceuticals.	76.01%	75.63%	74.32%
6.3.3 Describe the types of injections, and determine the appropriate injection sites and dosages.	69.16%	71.99%	73.47%
6.3.4 Examine the components of a label found on animal medication and interpret a veterinarian's prescription.	79.67%	71.43%	76.02%
Performance Standard 6.4: Parasites	81.54%	68.70%	76.66%
6.4.3 Recognize the importance of controlling parasites in disease management.	81.54%	75.42%	76.66%
Performance Standard 6.5: Disease Control and Management	80.37%	75.42%	76.53%
6.5.2 Evaluate vaccination and prevention methods, and describe the types of vaccines available.	80.37%	70.59%	76.53%
Performance Standard 6.6: Animal Health	57.94%	70.59%	57.31%
6.6.1 Interpret animal behavior as related to health.	41.59%	56.30%	43.11%
6.6.3 Describe ways of identifying and tracking individual animals.	66.12%	40.34%	64.41%

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CONTENT STANDARD 8.0: EXAMINE AGRICULTURAL BUSINESS AND RISK MANAGEMENT	60.19%	64.29%	58.16%
Performance Standard 8.1: Marketing Process	54.83%	58.15%	52.21%
8.1.3 Discuss current industry trends in agriculture marketing.	54.83%	54.62%	52.21%
Performance Standard 8.2: Market and Sales Analysis	68.22%	54.62%	67.09%
8.2.3 Discuss the value of accurate product information.	68.22%	63.45%	67.09%
CONTENT STANDARD 9.0: CAREER OPPORTUNITIES IN ANIMAL SCIENCE	70.79%	63.45%	69.90%
Performance Standard 9.1: Careers in Animal Science	70.79%	69.54%	69.90%
9.1.1 Research potential careers in animal science.	90.65%	69.54%	87.76%
9.1.2 Demonstrate employability skills for a career in the animal science industry.	64.17%	87.39%	63.95%
CONTENT STANDARD 10.0: LEADERSHIP TRAINING THROUGH AGRICULTURAL EDUCATION	73.21%	63.59%	69.98%
Performance Standard 10.1: Effective Leadership and Participation in Leadership Training	67.52%	73.67%	66.07%
10.1.2 Participate in a career development event at a local or higher level.	72.90%	68.49%	64.03%
10.1.4 Participate in a speech or presentation activity.	62.15%	71.85%	68.11%
Performance Standard 10.2: School and Community Awareness	84.58%	65.13%	77.81%
10.2.1 Participate in a school improvement or community development project.	84.58%	84.03%	77.81%