



# 2024-2025

## Technical Skills Assessment

### Ecology and Natural Resource Management

#### Results by Standard

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

Assessment: Ecology and Natural Resource Management	% Correct 21-22	% Correct 22-23	% Correct 23-24	% Correct 24-25
Number tested: 13				
<b>CONTENT STANDARD 1.0: EXPLORE NATURAL RESOURCE SCIENCE AND MANAGEMENT</b>	76.54%	75.73%	66.97%	84.29%
<b>Performance Standard 1.1: Investigate The Relationship Between Natural Resources And Society, Including Conflict Management</b>	74.07%	71.56%	64.65%	83.33%
1.1.1 Define natural resource management	80.25%	80.00%	71.21%	85.71%
1.1.5 Explain natural resource conservation. Investigate the effects of multiple uses of natural resources (e.g., recreation, mining, agriculture, forestry, public lands grazing, etc.)	69.14%	74.67%	71.21%	90.48%
1.1.7 Explore societal issues and conflicts related to natural resource management	72.84%	60.00%	51.52%	73.81%
<b>Performance Standard 1.2: Explain Interrelationships Between Natural Resources And Humans In Managing Natural Environments</b>	80.25%	82.00%	70.45%	85.71%
1.2.1 Identify the demands of population growth on natural resources and the environment	74.07%	84.00%	77.27%	82.14%
1.2.2 Examine the use and management of renewable and nonrenewable resources	83.33%	78.00%	68.18%	92.86%
1.2.3 Describe the role of individuals in stewardship of the environment	83.33%	84.00%	65.91%	82.14%
<b>CONTENT STANDARD 2.0: INVESTIGATE ECOLOGICAL CONCEPTS AND SCIENTIFIC PRINCIPLES RELATED TO NATURAL RESOURCE SYSTEMS</b>	75.06%	72.80%	69.09%	84.29%
<b>Performance Standard 2.1: Explore Ecological Principles In Natural Resource Management</b>	70.99%	70.67%	65.91%	84.52%
2.1.2 Identify natural processes that govern ecosystems over time	66.67%	72.00%	63.64%	83.33%
2.1.3 Describe the interdependence of organisms within an ecosystem (i.e., food chains and webs)	75.31%	69.33%	68.18%	85.71%
<b>Performance Standard 2.2: Explore Properties Of Soil</b>	76.54%	73.33%	69.70%	83.33%
2.2.2 Identify soil texture	76.54%	73.33%	69.70%	83.33%
<b>Performance Standard 2.3: Explore Principles Of Hydrology</b>	78.40%	74.67%	71.97%	84.52%
2.3.1 Define watersheds and explain their hydrological and ecological function	86.42%	74.67%	75.76%	83.33%
2.3.4 Describe the function of wetlands and importance of wetland management	70.37%	74.67%	68.18%	85.71%
<b>CONTENT STANDARD 3.0: EXPLORE PRINCIPLES OF RANGELAND MANAGEMENT</b>	62.17%	69.71%	58.44%	71.43%
<b>Performance Standard 3.1: Identify Rangeland Types And Management Practices</b>	61.73%	67.33%	54.55%	70.24%
3.1.1. Define rangelands and identify key characteristics	55.56%	68.00%	50.00%	67.86%

Assessment: Ecology and Natural Resource Management Number tested: 13	% Correct 21-22	% Correct 22-23	% Correct 23-24	% Correct 24-25
3.1.5 Identify laws, policies and managing entities of rangelands	48.15%	56.00%	47.73%	57.14%
3.1.6 Identify impacts of use on rangelands	81.48%	78.00%	65.91%	85.71%
<b>Performance Standard 3.3: Identify Common Idaho Rangelands Plants</b>	59.26%	70.00%	64.39%	70.24%
3.3.1 Identify morphological characteristics of rangeland plants	43.52%	61.00%	53.41%	57.14%
3.3.5 Define native, introduced, invasive, noxious and poisonous plants	90.74%	88.00%	86.36%	96.43%
<b>Performance Standard 3.4: Apply Rangeland Management Practices</b>	72.22%	76.00%	52.27%	78.57%
3.4.1 Identify key components of a management plan	72.22%	76.00%	52.27%	78.57%
3.4.5 Determine stocking rates based on animal demand and forage supply	62.82%	65.85%	53.85%	68.41%
<b>CONTENT STANDARD 4.0: EXAMINE FOREST RESOURCES AND MANAGEMENT</b>	60.00%	56.00%	48.64%	63.57%
<b>Performance Standard 4.1: Identify Forest Types And Management Practices</b>	38.27%	34.67%	28.79%	28.57%
4.1.1 Define forests and identify key characteristics of forest plants	83.95%	68.00%	57.58%	88.10%
4.1.3 Assess different methods of forest management	70.37%	76.00%	63.64%	78.57%
4.1.5 Identify multiple uses of forests	54.32%	58.67%	54.55%	69.05%
4.1.6 Identify laws, policies and managing entities of for	62.96%	58.00%	52.27%	60.71%
<b>Performance Standard 4.2: Understanding The Historic, Environmental, Social And Economic Importance Of Idaho Forests</b>	62.96%	58.00%	52.27%	60.71%
4.2.2 Identify the ecological services provided by forests	64.02%	72.57%	58.44%	74.49%
<b>Performance Standard 4.3: Identify Common Idaho Forest Plants</b>	55.56%	56.00%	50.00%	71.43%
4.3.1 Identify morphological characteristics of forest plants	51.85%	66.67%	50.00%	71.43%
4.3.2 Use a dichotomous key to identify trees, shrubs and other forest plants	79.01%	84.00%	69.70%	78.57%
4.3.5 Define native, introduced, invasive, noxious and poisonous plants	65.61%	75.43%	57.14%	71.43%
<b>Performance Standard 4.4: Apply Forest Management Practices</b>	61.11%	72.00%	59.09%	78.57%
4.4.1 Identify key components of a management plan	76.54%	78.67%	56.06%	66.67%
4.4.2 Identify forest management tools and techniques	53.70%	74.00%	56.82%	71.43%
4.4.6 Discuss impacts of dynamic forces of change (e.g. fire, weather, insects, disease, people, animals, invasive species, etc.) on forests and identify management strategies	68.89%	72.80%	57.27%	67.14%
<b>CONTENT STANDARD 5.0: EXPLORE FIRE ECOLOGY AND MANAGEMENT</b>	68.89%	72.80%	57.27%	67.14%
<b>Performance Standard 5.1: Explore The Effects Of Fire On Rangeland And Forest Ecosystems</b>	55.56%	62.00%	54.55%	46.43%
5.1.4 Describe the social, economic and ecological effects of wildland fire	77.78%	80.00%	59.09%	80.95%
5.1.5 Examine the role of fuel management and the relationship between fuel load and fire effects in rangeland and forest ecosystems	58.02%	63.00%	57.20%	66.07%
<b>CONTENT STANDARD 6.0: UNDERSTAND THE IMPORTANCE AND APPLICATION OF GPS</b>	55.56%	57.33%	50.00%	57.14%

<b>Assessment: Ecology and Natural Resource Management</b>	<b>% Correct 21-22</b>	<b>% Correct 22-23</b>	<b>% Correct 23-24</b>	<b>% Correct 24-25</b>
<b>Number tested: 13</b>				
<b>Performance Standard 6.1: Investigate GPS/GIS Systems And Their Applications</b>	22.22%	36.00%	4.55%	21.43%
6.1.2 Describe the purpose and function of a Global Positioning System (GPS)	72.22%	68.00%	72.73%	75.00%
<b>Performance Standard 6.2: Demonstrate The Use Of Land Management Maps</b>	58.85%	64.89%	59.60%	69.05%
6.2.1 Use legal descriptions to identify locations and acreage	50.00%	58.00%	52.27%	46.43%
6.2.2 Identify symbols on topographical maps	69.14%	69.33%	72.73%	88.10%
6.2.3 Predict terrain based on topographical maps	55.56%	65.00%	53.41%	66.07%
<b>CONTENT STANDARD 7.0: INVESTIGATE FISH AND WILDLIFE ECOLOGY</b>	75.93%	73.33%	62.12%	83.33%
<b>Performance Standard 7.1: Explore The Importance And Distribution of Fish And Wildlife Resources In Idaho</b>	86.11%	87.00%	72.73%	96.43%
7.1.4 List impacts on wildlife habitat	86.11%	87.00%	72.73%	96.43%
<b>Performance Standard 7.2: Understand Wildlife Management</b>	55.56%	46.00%	40.91%	57.14%
associated with wildlife management	55.56%	46.00%	40.91%	57.14%
<b>CONTENT STANDARD 8.0: EXAMINE MINERAL AND ENERGY RESOURCES MANAGEMENT</b>	70.37%	66.40%	64.55%	80.00%
<b>Performance Standard 8.1: Examine Mineral Resources And Management</b>	68.52%	66.00%	68.18%	78.57%
8.1.4 Describe the impact of mining practices on the environment	68.52%	66.00%	68.18%	78.57%
<b>Performance Standard 8.2: Recognize The Types And Importance Of Energy Resources</b>	71.60%	66.67%	62.12%	80.95%
8.2.4 Analyze positive and negative impact of energy development on the environment	71.60%	66.67%	62.12%	80.95%
<b>CONTENT STANDARD 9.0: EXPLORE CAREER OPPORTUNITIES IN THE NATURAL RESOURCE INDUSTRY</b>	55.56%	68.00%	68.18%	67.86%
<b>Performance Standard 9.1: Understand Employment Fields In The Natural Resource Industry</b>	55.56%	68.00%	68.18%	67.86%
9.1.2 Explore education and training for different natural resource management careers	55.56%	68.00%	68.18%	67.86%