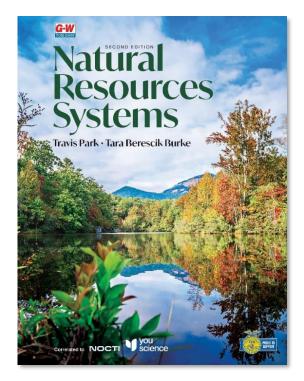
NOCTI



Correlation of Natural Resources Systems Travis Park, Tara Berescik Burke (Goodheart-Willcox Publisher ©2025) to NOCTI Natural Resources Management West Virginia Department of Education



Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment Foundations of Agriculture, Food, and Natural Resources		
Demonstrate understanding of animal systems (e.g., breeds of livestock, anatomy)	Biogeochemical Cycles p83 Freshwater Finfish Species p512 Commercial Marine Finfish Species p515 Commercial Crustaceans and Mollusks p520 Game Species p535	
Demonstrate understanding of agriculture innovation and technology	Technology and Innovation p115	
Demonstrate understanding of food products and processing (e.g., protein sources, food preservation)	Locally Grown Foods p130 Food Source p361	
Demonstrate understanding of natural resources (e.g., renewable resources)	Renewable or Nonrenewable? P4 Nonrenewable Natural Resources p9 Biotic and Abiotic Natural Resources p11 Natural Resources Mined in the United States p285	

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Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment		
Demonstrate understanding of plant systems (e.g., plant parts, processes, soil)	Biogeochemical Cycles p83	
	Soil Components p200	
	Soil Formation p206	
	Soil Classification p219	
	Photosynthesis and Respiration in Forests p568	
	Most Common Tree Species in the United States p569	
	Other Important Tree Species p574	
	Non-Tree Forest Plants p584	
Demonstrate understanding of power, structural, and technical systems (e.g., measurement)	Measuring Air Quality p419	
	Land Measurement p720	
Demonstrate knowledge of leadership development	Developing Leadership Skills p36	
through FFA (e.g., motto, parliamentary procedure,	The National FFA Organization p765	
official dress)		
oil and Land Management		
Demonstrate understanding of soil erosion and conservation (e.g., horizon, contour planting)	Shoreline, Channel, and Streambank Soil Erosion p242	
	Factors That Contribute to Soil Erosion p244	
	Tillage Systems p259	
	Conservation Buffers p264	
	Structural Conservation Practices p269	
Exhibit knowledge of spatial tools such as Geographic Information Systems (GIS) and Global Positioning	Global Positioning System p722	
	Geographic Information Systems p724	
Systems (GPS) and their use in resource management (e.g., satellite links, waypoint)	Global Positioning System p722	
	Geographic Information Systems p724	
Display knowledge of topographic and aerial maps, soil surveys, and soil test results (e.g., benchmark elevation, pH, slope)	Soil Chemistry p217	
	Topographic Maps p729	
	USGS Topographical Maps p723	
/ater Management		
Demonstrate understanding of the hydrologic cycle (e.g., water holding capacity, acid rain)	Hydrologic Cycle p308	
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Standards	Textbook Pages
Specific Standards and Competencies Included in t	his Assessment
Exhibit knowledge of watersheds and aquatic ecosystems, (i.e., wetlands, ponds, streams)_including wetland functions (e.g., eutrophication, Clean Water Act, water quality)	Clean Water Act p68 The Nitrogen Cycle p85 Groundwater Contamination p247 Locations of Water p310 Water Use p336 Water Pollution p342 Roles of Wetlands p359 Marine Wetlands p364 Freshwater Wetlands p368
Recognize aspects of aquifers and groundwater protection (e.g., soil drainage, manure nutrients)	Groundwater Contamination p247 Structural Conservation Practices p269 Locations of Water p310 Water Pollution p342
Identify point and non-point source pollution (e.g., riparian buffers)	Pollution p164 Soil Pollutants p247 Contamination of Water, Air, and Soil p297 Water Pollution p342 Chemical Pollution p408
Forest Management	
Define basic forestry concepts (e.g., site index, tree biology, forest measurements tolerant tree species)	Types of Forests p562 Healthy Forest Ecosystems p564 Sexual and Asexual Reproduction in Forests p566 Photosynthesis and Respiration in Forests p568
Display knowledge of dendrology (e.g., simple and compound leaves, samara)	Types of Forests p562
Recognize and define best management practices in forestry and state BMP regulations (e.g., prescribed burns)	Sustainable Forest Management p601 Management of Grasslands and Rangelands p656
Wildlife Management	
Demonstrate understanding of wildlife management practices (e.g., border cutting, wetland habitat, fall mast production)	Determining Habitat Health p138 Ecological Communities p434 Recover and Restore Efforts p480 Game Species Management p533 Maintaining Wildlife Populations p660
Environmental Laws and Government Agencies	Legislation and Natural Resources p67 Government Agencies p70

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Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment		
Exhibit knowledge of environmental regulations and laws (e.g., timber management, protection of imperiled species)	Legislation and Natural Resources p67	
	Sustainable Forest Management p601	
	Management of Grasslands and Rangelands p656	
	National Protected Areas p694	
gricultural Innovation, Technology, and Entrepreneurship		
Define and recognize aspects of sustainability (e.g., biodiesel)	Three Pillars of Sustainability p110	
	Technology and Innovation p115	
	Sustainable Energy: SEforALL p119	
	Measuring Sustainability p129	
	Sustainable Forest Management p601	
	Sustainability and Outdoor Recreation p686	
Identify aspects of the impact of international agriculture	Land Use p156	
on U.S. and global natural resources (e.g., cost and availability, entrance of new species into country)	Water Use p161	
	Power Production and Regulation p 162	
	Social Pressures p 162	
	Pollution p164	
	Economic Value of Resources p163	
	Ecological Footprint p169	
	Global Climate Change p505	