

Key Topics	Learning Objectives	Learning Materials (LO Alignment)	Optional/Supplemental Materials
<b>KT 1: New Mexico Forests</b>  <i>HS-LS1-2, HS-LS1-5, HS-LS1-7, HS-LS2-1, HS-LS2-3, HS-LS2-5, HS-ESS2-5, HS-ESS2-6</i>	LO 1.1: Describe an ecozone or ecological land classification. LO 1.2: Identify ecosystem services provided by New Mexico forest ecosystems including environmental, economic, social, and cultural values. LO 1.3: Identify forest-dependent species in New Mexico. LO 1.4: Explain the impacts of typical forest insect pests. LO 1.5: Describe the impacts of typical forest diseases.	New Mexico Life Zones Class Activity (LO 1.1) USDA Ecosystem Services Memo (LO 1.2) USFS Research and Development on Ecosystem Services (LO 1.2) Life Zones of New Mexico Coloring Book (LO 1.3) Plants of New Mexico Guides (LO 1.3) Wildlife of New Mexico Coloring Book (LO 1.3) Forest Insect and Disease Conditions in the Southwestern Region (LO 1.4-1.5) Forest Pests and Diseases (LO 1.4-1.5)	Plant Associations of Arizona and New Mexico (LO 1.3)
<b>KT 2: Vulnerability Assessments and Adaptation Strategies</b>  <i>HS-LS1-5, HS-LS1-7, HS-LS2-1, HS-LS2-3, HS-LS2-5</i>	LO 2.1: Outline the components of a forest vulnerability assessment, including its purpose and components. LO 2.2: Define adaptive capacity in relation to vulnerable flora and fauna of forest communities. LO 2.3: Explain how various ecozones face differing levels of vulnerability. LO 2.4: Analyze the benefits and drawbacks of various adaptation strategies for forests. LO 2.5: Recommend adaptation strategies to support sustainable forest management.	Climate Change Vulnerability Assessments (LO 2.1) Vulnerability Assessments Memo (LO 2.1) Conservation Biology Volume 36, Issue 2 (LO 2.2) Persist in Place or Shift in Space? (LO 2.2) Species Climate Change Adaptive Capacity (LO 2.2) New Mexico Climate Adaptation and Resilience Plan (LO 2.3) Climate Change Tools and Approaches for Land Managers (LO 2.4)	<a href="#">CCVA Across the Nation Story Map</a> (LO 2.1) <a href="#">CCVA for the Southwestern United States</a> (LO 2.1) <a href="#">NM Climate Risk Map</a> (LO 2.3)
<b>KT 3: Changing Forest Health</b>  <i>HS-ESS2-5, HS-ESS2-6</i>	LO 3.1: Identify how increasing drought severity and frequency impacts New Mexico forests. LO 3.2: Describe how wildfire impacts the hydrology, wildlife, and soils of forest communities. LO 3.3: Describe how the wildfire regime in New Mexico forests has changed over the century. LO 3.4: Articulate the relationship between globalization and the spread of invasive species in New Mexico forests. LO 3.5: Connect species range map predictions with scientific data. LO 3.6: Describe predicted changes in ecozones and ecological land classifications.	Drought New Mexico Environmental Public Health Tracking (LO 3.1) U.S. Drought Monitor (LO 3.1) USFS Managing Land Guides (LO 3.1) How does Wildfire Impact Wildlife and Forests? (LO 3.2) Why Fish Care About Forest Fires (LO 3.2) Are Wildfires Getting Worse? (LO 3.3) How Statistics Can be Misleading (LO 3.3) Vulnerability Assessments Memo (LO 3.3) Invasive Alien Species in an Era of Globalization (LO 3.4) Explore Climate-Induced Range Shifts with CoRE (LO 3.5) USGS GAP Analysis Project Data (LO 3.5) What Climate Change Means for New Mexico (LO 3.6)	<a href="#">Do Empirical Observations Support Commonly-held Climate Change Range Shift Hypotheses?</a> (LO 3.5) <a href="#">Climate Change and the Global Redistribution of Biodiversity</a> (LO 3.5)
<b>KT 4: Land Stewardship, Legislation and Regulations</b>  <i>HS-LS2-5, HS-LS2-7, HS-LS4-6, HS-ESS2-5, HS-ESS3-4</i>	LO 4.1: Describe how governments determine if forest harvesting levels will be sustainable in the future. LO 4.2: Explain how natural disturbances such as wildfires, windstorms, droughts, and hail storms impact the forest industry's total annual harvest quota. LO 4.3: Identify the main goals of various legislation initiatives that support forest health. LO 4.4: Describe how land-based learning and Traditional Knowledge systems can contribute to improved land use, forest management, and mitigation strategies.	Approach of the U.S. Forest Service (LO 4.1) We are the Forest Service (LO 4.1) National Roadmap for Responding to Climate Change (LO 4.1) Disturbance Ecology and Forest Management (LO 4.2) USDA USFS Laws and Regulations (LO 4.3) TEK, An Introduction (LO 4.4) <a href="#">TEK Used in Forest Resortation Benefits</a> (LO 4.4)	<a href="#">NCF Envirothon Current Issue</a> (LO 4.4)