

Idaho Climate-Economy Impacts Assessment

Tools and Resources

Agriculture

AgBiz Logic and AgBizClimate: A suite of economic, financial and environmental decision tools for businesses that grow, harvest, package, add value and sell agricultural products.

Economic Research Service: State-level economic information and resources from U.S. Department of Agriculture (USDA).

Idaho AgBiz: A resource for Idaho crop and livestock budgets, regionally specific market information, publications and decision tools.

OpenET: An online platform developed by collaborators, including U.S. Geological Survey (USGS), National Aeronautics and Space Administration (NASA), University of Idaho and others that provides data on how much water evaporates into the atmosphere from plants, soils and other surfaces.

Regional Approaches to Climate Change (REACCH): Information on agriculture and climate change in the Pacific Northwest provided by the University of Idaho, Washington State University, Oregon State University and USDA.

U.S. Drought Monitor: Weekly updated data and maps on drought in the U.S. produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, USDA and National Oceanic and Atmospheric Administration (NOAA).

Air Quality and Smoke

Air Data: Air quality data collected from outdoor monitors across the U.S. and compiled by the U.S. Environmental Protection Agency (EPA).

AirNow Fire and Smoke Map: Information on fires across the U.S., from U.S. EPA and U.S. Forest Service (USFS).

IQAir: Interactive mapping tool to visualize air quality at all levels across the world.

Idaho Smoke Blog: A collaboration among county, state, tribal and federal agencies to coordinate and aggregate information related to wildfire smoke across Idaho.

Idaho Wildfire Smoke Portal: Information about the status and prediction of wildfire smoke in Idaho and is managed by the Idaho Department of Environmental Quality (IDEQ).

Our Nation's Air: Annual report developed by the U.S. EPA that summarizes the nation's air quality status.

Climate and Water

Climate.gov: NOAA climate website featuring data, tools and resources.

Climate Engine: Interactive website displaying climate observations to support decisions related to drought, water use, agriculture, wildfire and ecology, from an academic and subject matter expert consortium.

Drought.gov: Drought-related information, maps and tools provided by NOAA and National Integrated Drought Information System (NIDIS).

DroughtView: Interactive online tool with drought-related maps and metrics hosted by the University of Arizona.

U.S. EPA Climate Change: Information, data, programs, tools and resources related to climate change.

NASA Global Modeling and Assimilation Office: Climate and chemical mapping tools.

NOAA Climate at a Glance: Data, tools and information at the state level.

OpenET: An online platform developed by collaborators, including USGS, NASA, University of Idaho and others that provides data on how much water evaporates into the atmosphere from plants, soils and other surfaces.

2020 Financial Stability Report: A report from the Board of Governors of the Federal Reserve System that includes implications of climate change on financial stability.

Recommendations of the Task Force on Climate-related Financial Disclosures: Recommendations for helping businesses disclose climate-related financial information.

The Climate Toolbox: Tools and visualizations for historic and projected climate data developed by researchers at the University of California, Merced along with additional organizations and support from multiple federal agencies.

Treasure Valley Water Atlas: A resource created by Boise State University that provides information about water in the Treasure Valley.

U.S. Drought Monitor: Weekly updated data and maps on drought in the U.S. produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, USDA and NOAA.

WestWideDroughtTracker: Drought maps including maps of drought conditions developed through a collaboration between the University of Idaho, Western Regional Climate Center and the Desert Research Institute.

Energy

Idaho State Profile and Energy Estimates: Information, data and visualizations on Idaho energy use and consumption from the U.S. Energy Information Administration (EIA).

Human Health

Benefits Mapping and Analysis Program –Community Edition (BenMAP-CE): U.S. EPA tool to estimate health impacts and economic value of changes in air quality.

Climate Change Indicators, Health and Society: U.S. EPA identified indicators related to health and climate change.

Climate and Health: Centers for Disease Control and Prevention (CDC) information on climate change and human health.

Disability and Health Emergency Preparedness Tools and Resources: Resources from the CDC related to hazard preparedness and people with disabilities.

Heat Illness Toolkit: Heat illness prevention materials created by University of Washington Pacific Northwest Agricultural Safety and Health Center.

Heat Stress: National Institute for Occupational Safety and Health information (NIOSHA) and resources related to heat stress.

PLACES: Model-based population analysis and community estimates related to local health developed by the CDC.

SparkMap: Mapping, assessment and data analysis tools that allow users to layer health and climate data developed by the University of Missouri Extension.

Infrastructure and Hazards

Building Resilient Infrastructure and Communities (BRIC): Funding opportunity from Federal Emergency Management Agency (FEMA) to support states, local communities, tribes and territories as they undertake hazard mitigation projects.

Drought.gov: Economic sector maps showing sector-specific information alongside key drought and climate indicators, including areas of infrastructure.

FireADapted: A website developed through a partnership among the Boise Fire Department, City of Boise, Boise Parks and Recreation Department and Ada Fire Adapted Community Partnership to provide Boise residents and others information and tools to prepare for and prevent potential fires.

Interactive Wildfire Management and Drought Map: A map to explore wildfire, smoke and air quality data alongside drought and climate conditions hosted by the NOAA and National Integrated Drought Information System (NIDIS).

Landslide Inventory Database for Idaho: A statewide inventory of landslides developed by Idaho Geological Survey to assist with hazard mitigation and identification of problematic hotspots.

Fire Environment Mapping System: Mapping tools and data related to fuel moisture and other variables.

Planning for Wildfire in the Wildland-Urban Interface: A resource guide for Idaho communities developed by University of Idaho and Boise State University researchers.

Risk Factor: Individual address level flood risk analysis developed by First Street Foundation— a team of experts, including researchers from University of California, Berkeley and Rutgers University.

State Hazard Mitigation Plan: 2023 State of Idaho Hazard Mitigation Plan with updated appendices.

University of Idaho Extension Wildland Fire: University of Idaho Wildfire webpage with articles, publications and additional resources related to wildfires.

Unequal Impacts of Wildfire: An analysis and tool developed by Headwaters Economics for mapping wildfire risk and county level demographics.

Wildfire Risk to Communities: Interactive maps, charts and resources to help communities understand, explore and reduce wildfire risk developed by USDA and USFS.

Wildland-Urban Interface (WUI) Change, 1990-2010: Data and mapping tool for the WUI developed by researchers at the University of Wisconsin-Madison.

Land (Forests and Rangelands)

Fuelcast: A fuel and rangeland production forecasting system supported by USDA and USFS.

Idaho Climate-Economy Impacts Assessment Web Map: A web map with a variety of data layers developed by Idaho State University's GIS Training and Research Center for the Idaho Climate-Economy Impacts Assessment.

Migration Viewer: A global ungulate migration map developed by the Convention on the Conservation of Migratory Species of Wild Animals.

Multi-Resolution Land Characteristics Consortium (MRLC) Rangeland Viewer: Land use cover interactive map hosted by USGS and the U.S. Bureau of Land Management (BLM).

Policy Analysis Group: Natural resources information from the University of Idaho.

Rangelands Analysis Platform: Online platform that provides vegetation maps and trends at various scales created in collaboration with USDA's Natural Resources Conservation Service, BLM and University of Montana.

RangeSAT: Rangeland vegetation monitoring tools developed through a partnership among University of Idaho, The Nature Conservancy, USDA Northwest Climate Hub and USDA Natural Resources Conservation Service.

RAPP Map: A spatial data platform for the rangeland and pasture productivity supported by Commonwealth Scientific and Industrial Research Organisation (CSIRO) and through funding from the Australian Government's National Landcare Programme.

Resilient and Connected Landscapes: Land mapping tools from The Nature Conservancy.

Western Wildland Environmental Threat Assessment Center: Data and information related to the scientific understanding of environmental threats to the western United States and is supported by the USDA and USFS.

University of Idaho Extension Livestock Drought Videos: A series of presentations developed by University of Idaho Livestock Extension educators.

USDA Forest Atlas: Combines inventory and monitoring information with tree pollen counts, mill surveys, ownership records, bird observations and more.

Vegetation Dynamics and Drought Viewer: Vegetation and drought interactive map service hosted by USGS.

Recreation and Tourism

Idaho Snow Survey and Water Supply Forecasting Program: Mountain snowpack and precipitation information via reports, visuals and an interactive map hosted by USDA Natural Resources Conservation Service.

National Visitor Use and Monitoring: Survey results conducted by USFS on National Forest System lands every five years.

NPS Stats: National Park Service (NPS) visitor use statistics.

Outdoor Recreation, Bureau of Economic Analysis: U.S. Department of Commerce economic data and information related to outdoor recreation at various levels.

Tourism Research, Idaho Department of Commerce: Data and reports related to tourism in Idaho.

Visitor Spending Effects: Economic contributions of national park visitor spending provided by the NPS.

Tribal

The resources below are public webpages and provide resources related to climate change and tribal communities. Connect with local tribal communities to learn more about climate change impacts and additional resources.

[Tribal Climate Change Guide](#): Part of the Pacific Northwest Tribal Climate Change Project, provides information and resources, including funding opportunities for tribes in the Pacific Northwest.

[Tribal Climate Tool](#): Future climate projections for Pacific Northwest and Great Basin Tribes in the U.S. created by researchers at the University of California, Merced; Northwest Climate Adaptation Center and Great Basin Landscape Conservation Cooperative.

[U.S. Climate Resilience Toolkit](#): Building Tribal Resiliency and Partnerships was developed in partnership with the four member tribes of the Upper Snake River Tribes Foundation (Shoshone-Paiute Tribes of the Duck Valley Reservation, Shoshone-Bannock Tribes of the Fort Hall Reservation, Fort McDermitt Paiute Shoshone Tribe and Burns Paiute Tribe); University of Washington; Oregon State University; Pacific Northwest Tribal Climate Change Network; U.S Bureau of Indian Affairs and U.S. EPA.

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