



DATA & APPLICATIONS ONLINE

Agriculture and Food Security

Overview

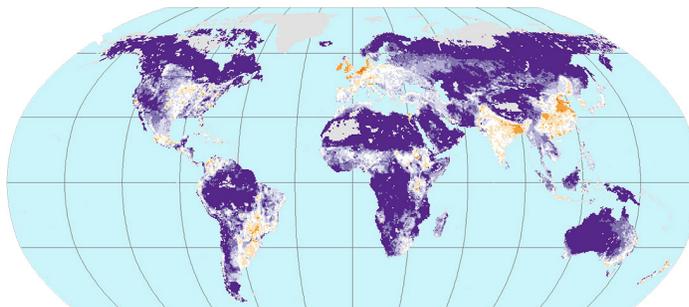
Because agriculture is a fundamental driver of environmental change, agriculture-related data can provide valuable insights into sustainability issues such as land use, biodiversity, and food security, for both researchers and applied users.

The Web site of the NASA Socioeconomic Data and Applications Center (SEDAC) offers a variety of interdisciplinary data and related resources grouped under socioeconomic and earth science themes. The Agriculture and Food Security theme spans global data holdings and resources that touch on the proportion of cropland and pasture, the extent of poverty, biodiversity, environmental indicators, and human consumption measures.

About the Data

The SEDAC Web site provides access to several global agriculture-related data sets:

- Global Agricultural Lands, which shows the proportion of land area used as cropland and pasture, for the year 2000
- Global Fertilizer and Manure, representing fertilizer application rates and manure production of Nitrogen (N) and Phosphorous (P)
- Effects of Climate Change on Global Food Production, providing data from a study that projected changes in the yields of major grain crops based on climate change scenarios
- Anthropogenic Biomes, helping delineate 21 anthropogenic biomes based on population density, land use, biota, climate, terrain and geology
- The Human Footprint, which aims to measure the extent of human influence on the Earth's surface
- Human Appropriation of Net Primary Productivity (HANPP), comparing the spatial distribution of human consumption of carbon (as embodied in food, fiber, and wood products) with the ability of land-based ecosystems to produce it



- The 2016 Environmental Performance Index (EPI), which is produced every two years by a research team from the Yale Center for Environmental Law and Policy and CIESIN, Columbia University. The EPI ranks country performance on high-priority environmental issues in two broad policy areas, protection of human health from environmental harm, and protection of ecosystems. This version of the EPI, available at <http://epi.yale.edu/downloads>, evaluated 180 countries, in nine categories of environmental concern.

Data Access

Go to bit.ly/1ZIHwB6 to download data, maps, and information.

References

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