ANNIE

Model Uses   Annie is a Data Analysis Package that assists users with watershed modeling projects, regional regression analysis projects, and time-series data management efforts.

Major Categories   Hydrology and Water Use; Decision Support

Subject Knowledge Level
Intermediate

Minor Categories   Watershed Conditions; Time Series

Technical Difficulty Level
Intermediate

Model Type   Data Analysis Package

Geographic in Nature?
No

Abstract

ANNIE is a program designed to help users interactively store, retrieve, list, plot, check, and update spatial, parametric, and time-series data for hydrologic models and analyses. Data are stored in a direct access file called a Watershed Data Management (WDM) file. (Many hydrologic and water-quality models and analyses developed by the U.S. Geological Survey (USGS) and the Environmental Protection Agency (EPA) currently use WDM files). The WDM file provides users with a common data base for many applications, thus eliminating the need to reformat data from one application to another. There is also an expanding library of subroutines for graphics, user interaction, and data storage and retrieval available to application programmers designing software utilizing WDM files.

Future Developments
Unknown

Model Limitations
Unknown

Model Features
While data can be entered directly into the WDM file, an application called IOWDM allows users to convert flat-file format data or data from WATSTORE card image formats such as daily, unit, basin, peak, and n-day data.

Required Data Types
ANNIE is a program that allows for the storage of data in a specific format (known as a 'WDM File'). Desired data inputs vary but include information such as daily, unit, basin, peak, and n-day data that comes from WATSTORE.

Model Outputs
Data can be output in multiple graphical, tabular, and text file formats. The graphs produced can be viewed on the screen. Additional plot output options depend on the devices supported by the GKS library used and may include PostScript, Computer Graphics Metafile (CGM), Hewlett-Packard Graphics Language (HP-GL), and assorted printers and plotters.

An output option is also available to export data to a format that can be directly converted by ANNIE to a WDM file. This option is helpful for transferring data between WDM files including transferring data between files on different computer platforms on which ANNIE is implemented.

See the installation instructions (README.TXT) for details of output devices available with precompiled distributions of the program.

Source
US Geological Survey

Source (URL)
http://water.usgs.gov/software/annie.html

Hardware Requirements

None, but at least 4mb of RAM is recommended.

Supported Platforms

DOS	☒	**UNIX**	☒
Windows	☒	**Macintosh**	☐

Software Requirements
The ANN, WAIDE, GRAPH, STATS, AIDE, WDM, ADWDM, and UTIL libraries from LIBANNE are required to recompile. For more information, see System Requirements in LIBANNE.

Cost, Licensing and Availability
Model is offered free of charge from USGS through the link provided above.