

HEC-HMS 2.2.2

Model Uses	To simulate the precipitation-runoff processes of dendritic watersheds.	
Major Categories	Hydrology and Water Use	<u>Subject Knowledge Level</u> Intermediate
Minor Categories	Flood; Flow; Run-off; Temperature	<u>Technical Difficulty Level</u> Intermediate
Model Type	Physical Model	<u>Geographic in Nature?</u> Semi

Abstract

The Hydrologic Modeling System is designed to simulate the precipitation-runoff processes of dendritic watershed systems. It is designed to be applicable in a wide range of geographic areas for solving the widest possible range of problems. This includes large river basin water supply and flood hydrology, and small urban or natural watershed runoff. Hydrographs produced by the program are used directly or in conjunction with other software for studies of water availability, urban drainage, flow forecasting, future urbanization impact, reservoir spillway design, flood damage reduction, floodplain regulation, and systems operation.

The program features a completely integrated work environment including a database, data entry utilities, computation engine, and results reporting tools. A graphical user interface allows the user seamless movement between the different parts of the program. Program functionality and appearance are the same across all supported platforms.

Future Developments

None noted

Model Limitations

None noted

Model Features

- Integrated work environment with a database, data entry utilities, computation engine, and results / reporting tools. Works within a GUI.

Required Data Types

Will pull data in from HEC-DSS

Model Outputs

Unknown

Source

US Army Corps of Engineers

Source (URL)

<http://www.hec.usace.army.mil/software/hec-hms/hechms-hechms.html>

Hardware Requirements

Windows Requirements:

Intel 80486 compatible processor

16mb memory to run the program individually

15mb hard disk space

15" VGA monitor

Microsoft compatible mouse

DOS

Supported Platforms

UNIX

Windows

Macintosh

SUN / Solaris Requirements:

SuperSPARC processor

64mb memory to run the program individually

28mb hard disk space

10mb hard disk space - per user

17" color monitor

Mouse

Software Requirements

None

Cost, Licensing and Availability

Free.

USACE typically does not provide support to non corps users.