**Model Uses**
To simulate the precipitation-runoff processes of dendritic watersheds.

**Major Categories**  
Hydrology and Water Use

**Subject Knowledge Level**  
Intermediate

**Minor Categories**  
Flood; Flow; Run-off; Temperature

**Technical Difficulty Level**  
Intermediate

**Model Type**  
Physical Model

**Geographic in Nature?**  
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)**

**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
- **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

**Supported Platforms**

<table>
<thead>
<tr>
<th>Platform</th>
<th>DOS</th>
<th>UNIX</th>
<th>Windows</th>
<th>Macintosh</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
</tbody>
</table>
Software Requirements
None

Cost, Licensing and Availability
Free.

USACE typically does not provide support to non corps users.