

HEC-GEORAS 3.1.1 - ARCVIEW

Model Uses	For use in preparing data for HEC-RAS 3.1.1 through ArcView 3.x. Also enables the viewing of exported results from RAS.	
Major Categories	Hydrology and Water Use	<u>Subject Knowledge Level</u> Intermediate
Minor Categories	Flood; Flow; Run-off; Temperature	<u>Technical Difficulty Level</u> Advanced
Model Type	Other	<u>Geographic in Nature?</u> Yes

Abstract

HEC-GeoRAS 3.1.1 is an ArcView GIS extension that provides the user with a set of procedures, tools, and utilities for the preparation of GIS data for import into HEC-RAS 3.1.1 and generation of GIS data from RAS output. While the GeoRAS extension is designed for users with limited geographic information systems (GIS) experience, knowledge of ArcView GIS is advantageous. Users, however, must have experience modeling with HEC-RAS and have through understanding of river hydraulics to properly create interpret GIS data sets.

Future Developments

None noted

Model Limitations

Knowledge of ArcView 3.x

Model Features

- Creation of HEC-RAS import files for ease of use of HEC-RAS.
- Review of exported HEC-RAS results.

Required Data Types

Requires a DTM in the form of a TIN. The DTM must be a continuous surface that include the bottom of the river channel and the floodplain to be modeled. Because all cross-sectional data will be extracted from the DTM, only high-resolution DTM's should be considered for hydrologic modeling. Measurement units are relative to those in the DTM. If the units of the DTM are not specified, they will not be written to the HEC-RAS import file.

Model Outputs

HEC-RAS input file

Source

US Army Corps of Engineers

Source (URL)

http://www.hec.usace.army.mil/software/hecras-arcview_download.htm

Hardware Requirements

Only runs on Windows 2000/NT/XP

	Supported Platforms		
DOS	<input type="checkbox"/>	UNIX	<input type="checkbox"/>

Software Requirements

ArcView GIS 3.2, for Windows OS, with the 3D Analysts Extension is required. The Spatial Analyst extension is recommended.

Windows	<input checked="" type="checkbox"/>	Macintosh	<input type="checkbox"/>
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Cost, Licensing and Availability

Free. USACE typically does not provide support to non corps users.