

## RAMAS RISK CALC 3.0

<b>Model Uses</b>	RAMAS Risk Calc is used to compute values based on precise or uncertain numbers.	
<b>Major Categories</b>	Decision Support	<u>Subject Knowledge Level</u> Intermediate
<b>Minor Categories</b>	Ecological Risk Assessment	<u>Technical Difficulty Level</u> Intermediate
<b>Model Type</b>	Conceptual Model	<u>Geographic in Nature?</u> No

### Abstract

RAMAS Risk Calc is a comprehensive tool giving users tools for computing certain or uncertain data along in a natural way. Inputs can be precise or uncertain numbers (characterized by both ignorance and variability) allowing users to work with incomplete or insufficient data. Additionally, the model can account for both probabilistic information and ignorance.

Many risk analyses compute with points estimate and treat the uncertainty associated with these estimates in a simplistic way, even though in the absence of perfect knowledge, exact values of numbers used as input can not be 100% supported. Virtually all calculations, although seemingly precise, actually harbor some level of uncertainty. RAMAS Risk Calc 3.0 used both traditional methods (such as probability theory and interval analysis and the newest techniques such as probability bounds analysis and fuzzy arithmetic) to represent uncertainty. It provides a convenient environment for computing with numbers in which all uncertainties are carried forward automatically. Risk Calc for Microsoft Windows brings sophisticated methods of uncertainty analysis into reach of anyone who can do arithmetic on a calculator.

### Future Developments

Unknown

### Model Limitations

Unknown

### Model Features

- Models uncertainty with traditional techniques (probability theory, interval analysis) and new techniques (probability bounds analysis and fuzzy arithmetic).

### Required Data Types

User inputs pertaining to data or information interested in modeling and a level of certainty associated with that data.

### Model Outputs

Equation solutions with accuracy analysis

### Hardware Requirements

At least 6Mb of disk space

### Supported Platforms

DOS  UNIX

### Software Requirements

Windows 3.1 or later

Windows  Macintosh

### Cost, Licensing and Availability

\$695 - Available from link below

### Source

RAMAS Environmental Software

### Source URL

<http://www.ramas.com/ramas2.htm#risk>