



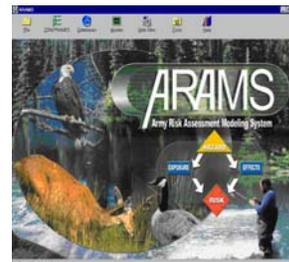
# An Adaptive Risk Assessment Modeling System

Developed for the Army by the U.S. Army Engineer Research and Development Center, Vicksburg, MS, and the U.S. Army Center for Health Promotion and Preventive Medicine, Edgewood, MD

**What is ARAMS™:** A computer-based, information delivery, dynamic modeling, and analysis system that integrates *multimedia* fate/transport, exposure, intake/uptake, and effects of contaminants and military relevant compounds to assess *human* and *ecological* health impacts/risks for existing, baseline and future conditions.

## Capabilities:

- Can assess human and ecological health risks
- Can use measured or predicted exposure data
- Can assess existing or future, time-varying exposure/risks to help manage sites for compliance and sustainment
- Can conduct site-specific assessments
- Can conduct screening or comprehensive risk assessments
- Can assess a wide array of exposure pathways and uptake routes
- Provides much flexibility for describing exposure/risk scenarios



## Features:

- Object-oriented framework (FRAMES) for linking objects to describe risk scenarios
- Seamless linkages to Web-based and local databases to filter and load data for assessment
- Flexible graphical and textual output options including generating RAGS reports
- Uncertainty analysis
- Modules for multi-media fate/transport, exposure, and effects analysis, including:

Source zone	Human receptor intake
Air	Human health impacts
Soil/vadose	Eco tissue concentration
Aquifer	Eco receptor intake
Surface water	Human exposure pathways
Soil and overland runoff	Eco effects

**Status:** First released June 2002. Version 1.4 released in January 2009.

**Availability:** Free download: <http://el.ercd.usace.army.mil/arams>



## Requirements:

- Operating System: Windows 2000 or XP with 64K RAM
- Free disk space: ~ 800MB
- MS Excel and ACCESS and .NET Framework 1.1

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