Release Notice: Behave version 7.1

1. Introduction

The Behave Fire Modeling System version 7 (Behave[7]) is a collection of models that describe fire and the fire environment. Behave has been completely reimagined, with a new interface and streamlined code. For the first time, it can be run on Windows, macOS and Linux Operating Systems. It is a flexible system that produces tables, graphs, and diagrams of fire behavior (surface and crown fire rate of spread and flame length; fire growth; maximum spotting distance; and probability of containment) and fire effects (scorch height and probability of mortality). Behave[7] can be used for a variety of wildland fire management applications. Behave[7] is the successor to the BehavePlus Fire Modeling System versions 1-6 (2001-2025) and BEHAVE fire behavior prediction and fuel modeling system (1984-2001).

The Behave[7] application and source code are available on the Missoula Fire Sciences Lab's GitHub repository. Information and supporting material are available on www.frames.gov/Behave.
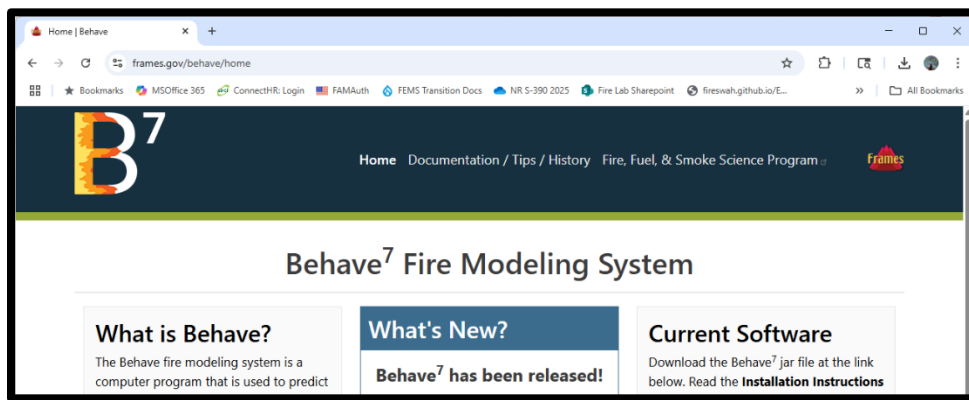
2. System Requirements

Operating System	Windows 10 ®, Windows 11 ® macOS X 10.9+ ® Ubuntu 13.04+
Additional Software	Java (Oracle's Java® and Amazon Corretto® have both been tested.) Internet Browser (It works best in Chrome®.)
Memory	4 Gb (1 Gb free)
Storage	400 Mb
Display	Minimum 1280 x 720 pixels, 264K (16-bit) colors

License	Consider sending a postcard with a picture of your local area to:
	    Behave[7], Fire Sciences Laboratory
	    5775 US Highway 10 West
	    Missoula, MT 59808

Data Requirements	BehavePlus does not use data input files. Data are entered directly by the user.

3. Download and Installation

3.1. Download

The Behave[7] program is available at www.frames.gov/Behave7 under **Current Software**.

a. Installation

Behave[7] is a self-contained Java-based file (JAR file) that does not need to be installed on a computer. You must have Java, Amazon Corretto or another Java package on your computer to open the JAR file.

Simply download the JAR file from the Behave website and double-click on it to open a local window of your default web browser. If your computer asks which app to use to open the file, select Java or Amazon Corretto. If the option allows, select **Always**.

b. Uninstall Behave[7]

As with installation, you do not need to uninstall the software. Delete the JAR file to remove Behave[7] from your computer.

4. Support

The following sources of technical support and training are available.

a. U.S. Government National Support

The first level of technical support, particularly in the use of Behave[7] in fire management, is provided through your local support channels.

b. National Support Desk

During the initial rollout, contact the co-developers of Behave[7] about any issues or bugs that you find.

After the rollout, primary user support for Behave[7] installation and use is provided by the Interagency Incident Applications HelpDesk.

Interagency Incident Applications HelpDesk: https://iiahelpdesk.nwcg.gov/

The HelpDesk is available for help with software issues only. Agents cannot answer fire behavior questions.

   c. Training Material

Updated courses are being developed for NWCG's [Wildland Fire Learning Portal](#). You do not have to be a federal or state employee. There are currently no restrictions on who can enroll in the portal.

5. Changes to Behave

Behave[7] has a new, more intuitive interface and updated, more streamlined code. The surface and crown fire behavior code has been replaced with the code used in FlamMap Basic. The probability of mortality code has been replaced with the code used in the First Order Fire Effects Model (FOFEM). Finally, the probability of containment has been updated by implementing the code used in the Wildland Fire Investment Planning System (WFIPS). For these reasons, results in Behave[7] may differ from those in BehavePlus v6, but they will better match results from FlamMap and FOFEM.

The [Change Log](#) will contain major differences between Behave[7] and BehavePlus v6, particularly internal changes. [Version Compare](#), a complete list of changes from DOS BEHAVE through BehavePlus and to Behave[7], is also available.

6. Frequently Asked Questions (FAQ's)

The [Frequently Asked Questions](#) address common questions and issues. They cover various aspects of Behave[7] installation and usage.