

## **Fuel and Fire Tools (FFT)**

### **Installation and Basic Usage Instructions**

- 1) Download the latest version at: <http://www.fs.fed.us/pnw/fera/fft>  
*For Internet Explorer users, right click the link (Download (.exe) on the right side of the page) and select Save As. Specify a folder location to save the FFT installation file.*
- 2) Double-click the self-extracting file (**FuelFireTools.exe, 32.3 MB**) to install. The default installation location is c:\FuelFireTools. You can change the location or name of the folder, but it is **not** advisable to place it in c:\Program Files due to potential write privilege issues.

#### Installation notes:

- FFT runs on Microsoft Windows operating systems (version 7 or higher), and requires Microsoft .NET libraries (version 4 or higher) and Java (version 1.6 / 6 or higher).
  - The most common installation errors are that a Java update is needed, or that Java is installed in an unusual file location. You can check your java version and download a free update at: <https://java.com>.
  - If you already have FFT installed, we recommend that you either save FFT to a new folder location or delete your existing FuelFireTools folder before installing the new version. Before deleting your old FuelFireTools folder, consider saving copies of any custom fuelbeds, burn units and environmental inputs. Existing custom fuelbeds can be copied into the FuelFireTools\FCCS\_3\fuelbeds\user folder. Existing burn units (.bu) and environmental inputs (.ev files) can be copied into the FuelFireTools\UserConfig folder.
- 3) As part of the installation, Fuel and Fire Tools creates an icon on your desktop.  
Double click the **FuelFireTools** icon to launch the application.
  - 4) Click **Continue** on the splash screen to reach the Fuelbed Selection screen. FFT is slow to load on the first run.
  - 5) Fuelbeds are the main currency in the FFT. To begin work, you can select fuelbeds by:
    - Using search variables to narrow the list of available fuelbeds (top left).
    - Selecting fuelbeds directly from the left panel.  
Note: holding the **shift key** allows you to select a block of fuelbeds; the **CTRL key** allows you to pick multiple fuelbeds in any order. Use the **double-right arrow** to move fuelbeds to the Selected Fuelbeds box (right panel).
    - Using the **Browse to file(s)** button at the top. After selecting fuelbed(s) choose **Open** and the fuelbeds will appear in the Selected Fuelbeds box (right panel).
  - 6) To view or edit fuelbeds, click the **Edit Fuelbeds** button on the Fuelbed Selection screen. This will launch the Fuelbed Editor.
  - 7) To run FCCS:
    - Click the **Next: Specify Environmental Inputs** button (bottom right)
    - On the Environmental Inputs screen, review and edit the FCCS environmental inputs and click **Run FCCS**.
  - 8) To run Consume or FEPS, a burn unit must be specified.
    - Select fuelbeds and then click the **Save/edit unit** link (top right). This launches the Burn Unit editor.

At minimum, enter a Name, Size and review the fuelbed % areas and treatment type, which specifies the consumption equation to be used for each fuelbed.

- Click the **Save unit** button.
- On the Environmental Inputs screen, enter environmental inputs in the FCCS and Consume panel, then click the **Run Consume** button or enter environmental inputs on all three panels and click the **Run FEPS** button.

9) The Reports screen displays reports, graphs and tables (simple tabular outputs).

10) Detailed, screen-by-screen information is available from FFT help. Please also feel free to contact us with your questions