

## ***APPENDIX D: Downloading HSPEXP***

## APPENDIX D: Downloading HSPEXP

### Questions addressed in this appendix:

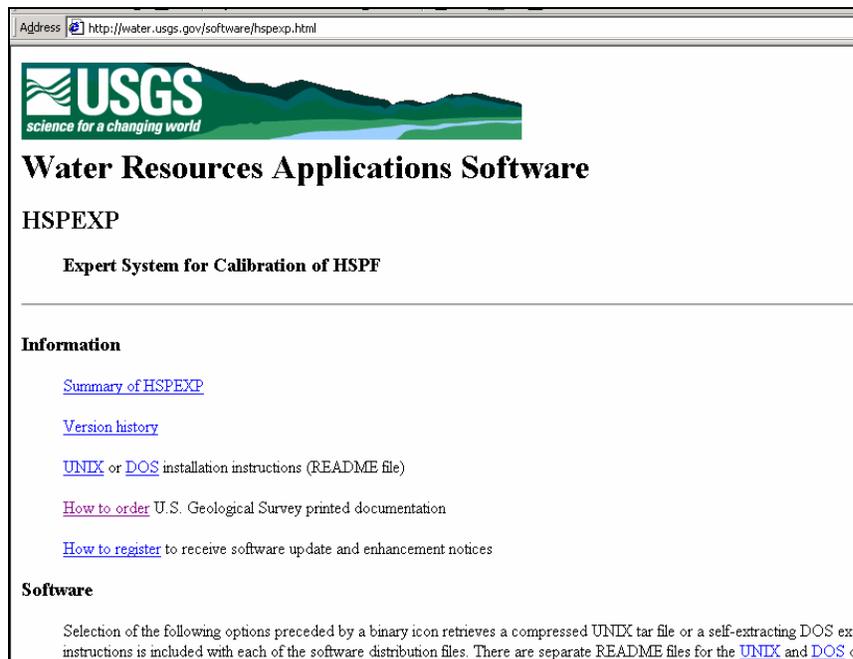
- 1) Where can I obtain HSPEXP?
- 2) How do I install HSPEXP?
- 3) How do I run HSPEXP for my project?

### A. Downloading HSPEXP

#### QUESTION ANSWERED:

##### 1) Where can I obtain HSPEXP?

1. Open Windows Explorer or My Computer. Navigate to *c:\basins\models*.
2. Navigate to the “models” folder (*c:\basins\models*). From the **File** menu, select “**New** → **Folder**.” Name the new folder “HSPEXP.”
3. Open a web browser (e.g., Internet Explorer) and navigate to <http://water.usgs.gov/software/hspexp.html>.



4. Under the “Software” heading, select “IBM-compatible PC, 386 or higher with math coprocessor.”

**Software**

Selection of the following options preceded by a binary icon retrieves a compressed UNIX containing installation instructions is included with each of the software distribution files distributions.

The Free Software Foundation's [gunzip](#) is necessary to uncompress the UNIX tar file automatically uncompress retrieved files. Thus, running `gunzip` as stated in the installa

**HSPEXP compiled for...**

 [Data General AViiON](#) (3.8MB)

 [IBM-compatible PC, 386 or higher with math coprocessor](#) (3.0MB)

5. When the “File Download” window appears, click SAVE.
6. Navigate to `c:\basins\models\hspexp`. Leave the name as “hspexp2\_3.exe” and click SAVE.

**B. Installing HSPEXP****QUESTION ANSWERED:****2) How do I install HSPEXP?**

1. HSPEXP is a DOS-based program. It is installed and run from a DOS window. To begin the installation process (after the file has finished downloading), open a DOS window. (An icon for the MS-DOS Prompt sometimes shows up on the Windows Desktop, or in the ‘Programs: Accessories’ menu from the Windows ‘Start’ button. Another way of opening a DOS window is to navigate through Windows Explorer to the Windows System folder, and then double-click on ‘command.com’ or ‘cmd.exe’.)
2. In the DOS window navigate to `c:\basins\models\hspexp` (type ‘`cd \basins\models\hspexp`’).
3. Extract the files contained in the distribution file using the command:  
`hspexp2_3 -d c:\basins\models\hspexp`

**Note:** Be sure to include the `-d` option and the correct hard disk letter.

4. Go to the newly-created `hspexp2.3` directory where the files have been extracted. For example:  
`cd \basins\models\hspexp\hspexp2.3`

5. Complete the installation by typing:

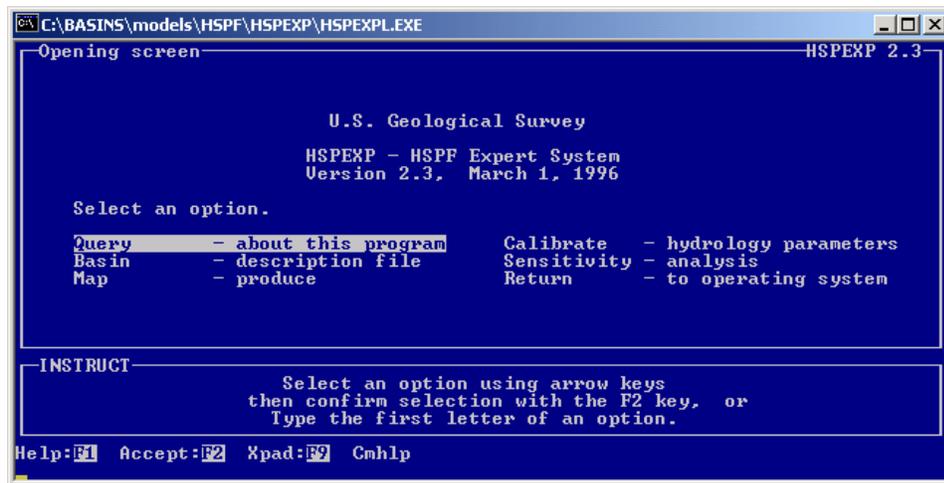
```
install c:\basins\models\hspexp
```

**Note:** Make sure you are using the same drive letter as for extracting the files.

The above install command must run successfully in order to create the batch files, *hspexp2.3\bin\hspexp.bat* and *hspexp2.3\test\hspexp.bat* which are necessary for successful execution of HSPEXP.

The install program will extract files for various tests, sample data sets, and informational text files into the *c:\basins\models\HSPEXP\HSPEXP2.3* folder. For more information on these, see the README file and the *HSPEXP User's Manual*. The test and example data sets can be used to gain further experience with HSPEXP.

6. To run HSPEXP, type 'hspexp' from *c:\basins\models\hspexp\hspexp2.3\bin*. HSPEXP will open.



7. To exit HSPEXP, type 'R' to return to the operating system.

## C. Applying HSPEXP to your watershed

### **QUESTION ANSWERED:**

#### **3) How do I run HSPEXP for my project?**

In order to use HSPEXP, the current directory must be the folder containing the \*.uci file (and its corresponding \*.wdm file) to which you want to apply HSPEXP. For the Western Patuxent model, we will apply HSPEXP to *hyd\_exp.uci*. This file, as well as the required \*.wdm file, are located in the *c:\basins\modelout\exp\_cal\* folder.

1. Navigate to *c:\basins\modelout\exp\_cal\*.
2. To start HSPEXP, type the full path of the HSPEXP executable plus the file name 'HSPEXP':

*c:\basins\models\hspexp\hspexp2.3\bin\hspexp*

**OR**

Copy the file *hspexp.bat* from *c:\basins\models\hspexp\hspexp2.3\bin* into the current project directory. Then HSPEXP can be started by typing 'HSPEXP' in the current project directory in the DOS window, or by double-clicking the file *hspexp.bat* from Windows Explorer.

You are now ready to apply HSPEXP to the Western Patuxent watershed as explained in Exercise 6.