

**HEC-6, *Scour and Deposition in Rivers and Reservoirs***  
**Version 4.2, May 2004**  
**Release Notes**

**BACKGROUND:**

HEC-6, Version 4.1, was released in October 1993 and updated in January 1994. A version was provided then that implemented Extended Memory on DOS PC's. This extension allowed the program to use more than the DOS limit of 640K of memory and therefore permitted use of larger array sizes and the associated large numbers of cross sections, etc. Windows XP and Windows 2000 do not support a true DOS operating environment, instead emulating the basic functionality to enable execution of legacy DOS programs. Although the low-memory version of HEC-6 worked with Windows XP, the extended memory version did not. Issuance of security patch KB835732 to Windows XP and 2000 by Microsoft in mid-April 2004 has prompted us to recompile HEC-6 and TABLE6 to operate on computers running those operating systems.

We have taken advantage of this situation to bundle into the new release several minor code changes and corrections that we have accumulated since the last release. No functionality has been added. The changes include:

- Corrections and adjustments were made to several format statements – some output may look different.
- An informative error message added in place of “ERROR 15” which was triggered by an incorrect GR point sequence.
- An error in the storage of X5 & R data was corrected.
- Errors in the handling of the X3 data were corrected.
- In support of the parameterization for the large arrays, several hard coded array dimensions and initialization loops were also parameterized.
- Additional adjustments made to accommodate the addition of the gravel and cobble grain sizes in the Toffaletti routine.

**INSTALLATION:**

1. Install the HEC-6, Version 4.1, October 1993 package from HEC's website if you have not already done so.
2. Unzip the recently recompiled HEC-6 Version 4.2 and TABLE6 executables (HEC6\_V4\_2\_May04exes.zip) into your \hecexe directory (or wherever you previously installed the HEC-6 package.)
3. HEC-6 should now function on WindowsXP/2000 with and without the recent Microsoft security patches. This HEC-6 has the large arrays.
4. If you use COED, obtain the current version from:  
<http://www.hec.usace.army.mil/software/legacysoftware/coed/coed.htm>.
5. Point of contact at HEC is Michael Gee ([Michael.gee@usace.army.mil](mailto:Michael.gee@usace.army.mil)).