

# **Appendix A**

## **Input Description**



## Introduction

HEC-6 processes data from a single input data file. This introduction provides some basic information about an HEC-6 input data file and its records.

### The HEC-6 Input Data Record

This appendix contains a detailed description of the data input requirement for each variable on each input record. In general, the descriptions of records are ordered as the records would appear in a data file. Many of the records described can be omitted if the options to which they apply are not needed.

HEC-6 input records follow the basic HEC-2 input record format. Each record is divided into ten fields of eight columns each, except Field 1. A variable in Field 1 may only occupy columns 3 through 8 since columns 1 and 2 (called Field 0) are reserved for record identification.

The location of the variables for each input record is shown by field number. The values a variable may assume and the conditions for each are described. Where the value of a variable is to be zero, unless otherwise noted, the field may be left blank since a blank field is read as zero. Any number without a decimal point must be right justified in its field. Any number without a sign is considered positive.

The location of variables on records is often referred to by an abbreviated designation; for example, X1.5 refers to the fifth field of the X1 record.

HEC-6 recognizes only the records described in this appendix. Any

*Comment records may be used to annotate the input file. HEC-6 identifies any record with Field 0 blank as a comment record. These records are ignored by HEC-6 and will not be repeated in the output.*

unrecognized or misplaced records will, in most cases, cause HEC-6 to terminate execution.

### The HEC-6 Input File

A typical HEC-6 input file consists of 3 basic parts. The first part is the river system geometry; the second part is the sediment properties; and the third is the hydrology.

The records described in Section A1 are used to define the geometry of the river system being modeled. Title records (T1-T3) are required at the beginning of each stream segment. Each set of X1 through H (or HD) records are used to describe the geometry and special features of a cross section along a stream segment. The QT, STRIB, and CP records are used to combine single stream segments into a river network.



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