

# DATA RETRIEVAL PROGRAM

**PROGRAM:** RETRIEVE.EXE

INTRODUCTION: The Data Retrieval program reads the HYSSR TABOUT file, retrieves the specified data, and outputs that data in standard HYSSR record format to a file.

INPUT: The Data Retrieval program executes interactively, so the program prompts the user to enter the necessary information. The program is menu-driven, so the first screen asks for a selection of either:

- 1. Specify input**
- 2. Run Retrieval program**
- 3. Exit menu.**

When the choice is **1. Specify input** the program asks for the following:

- the Study Characteristics file name
- the HYSSR TABOUT file name
- the starting year for data to be retrieved
- the starting period for data to be retrieved
- the ending year for data to be retrieved
- the ending period for data to be retrieved
- the "card code of the type of data to be retrieved" & the program lists the following choices:
  - 60** => Natural flows in CFS
  - 85** => Change in storage in AC-FT
  - 86** => End of Period Elevation in feet
  - 98** => Regulated flows in CFS
- the external project numbers for which data should be retrieved (maximum is 40 projects)

At this point, the program returns to the menu. If the necessary input has been given, the Data Retrieval program will execute when choice **2. Run Retrieve** is selected. Program execution requires a few minutes while the TABOUT file is sorted. A message is printed on the screen when execution is complete.

The program then returns to the menu and, if no more data retrieval is needed, choice **3. Exit menu** should be selected. Control is returned to the DOS C: prompt.

OUTPUT. The Data Retrieval program outputs the selected type of data to a file named **RETRIEVE.FIL** in the local **C:\HYSSR\DATA** subdirectory. The output is in standard HYSSR record format and is ready to be used as input into the TDDATA or TDMODS files (which are input files to the HYSSR regulator). Standard HYSSR format is:

COLS 1-2	Record code
COLS 8-19	HYSSR Project number
COLS 19-20	Year
COLS 21-23	Period identifier
COLS 24-32	Data value
COLS 33-35	Period identifier
COLS 36-44	Data value
COLS 45-47	Period identifier
COLS 48-56	Data value
COLS 57-59	Period identifier
COLS 60-68	Data value
COLS 69-71	Period identifier
COLS 72-80	Data value

EXECUTION ON THE PC. To execute the Data Retrieval program, have a copy of **RETRIEVE.EXE** in the local **C:\HYSSR\PGM** subdirectory. Now type **RETRIEVE** while in the **C:\HYSSR\PGM** subdirectory and the program will begin execution. Program execution also requires that the Sort program, **SORTTEX.EXE**, be available in the local **C:\HYSSR\SORT** subdirectory, and that two control files for the SORT program, **RETRIEVE.CNT** and **RETXPRJ.CNT**, be available in the local **C:\HYSSR\SORT\RETRIEVE** subdirectory.