

## 6.2 Postprocessor Programs Control Files

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This attachment presents the formats of the different kinds of control records created and used by ADAPS.

### 6.2.1 Introduction

Several ADAPS programs, particularly the application programs, are developed to run in an interactive preprocessor/batch postprocessor mode. In order for the batch postprocessor programs to run, they need information that is passed to them from the interactive preprocessor programs. This information is passed to them by records contained in control files. All preprocessor programs first call the ADAPS Startup Routine. The Startup Routine is described in section 4.3 of this manual. One of the functions that the Startup Program performs if batch postprocessing is required, is to produce a skeleton control file containing user-supplied data. The appropriate preprocessor program then adds data to that control file according to the requirements of the particular application being run. The postprocessing action then completes the application using the control file as input.

### 6.2.2 Common Control Records

The different kinds of control records are generally created or constructed in the sequence that they are discussed. Some types of records are common to each file and some are unique to a particular postprocessor program. Each of the common control records begins with a slash (/), followed immediately by an identifying label (name). The label is followed by formats for each item in the record. The location of the unique records in the sequence is mentioned where appropriate, but descriptions for most of them are given in separate sections. The following records appear in the order indicated in every ADAPS control file.

Directory Pathname Record		
Columns	Contents/Format	Description
1-5	/PATH	Record identification
6	Blank	
7-102	A*96	Directory name for placement of postprocessor program produced file

User Record		
Columns	Contents/Format	Description
1-5	/USER	Record identification
6	Blank	
7-38	A*32	ID of user who created control file
39	Blank	
40-43	A*4	Database number selected by the user
44	Blank	
45-49	A*5	Agency code selected by the user
50	Blank	
51-82	A*32	Batch postprocessor program error file name

Print Disposition Record		
Columns	Contents/Format	Description
1-5	/PRNT	Record identification
6	Blank	
7-10	A*4	Print disposition option: 1 = Output to file named in positions 17-48 >1 = Output to a spoolable printer (number to printer correspondence is site-specific).
11	Blank	
12-15	A*4	Number of copies to spool if print disposition is >1.
16	Blank	
17-48	A*32	Print file name if print disposition = 1.

Plot Disposition Record		
Columns	Contents/Format	Description
1-5	/PLOT	Record identification
6	Blank	
7-10	A*4	Plot disposition option: 1 = Output to Meta file named in positions 17-48. <1 = Output directly to a plotter (number to plotter correspondence is site-specific).
11	Blank	
12-15	A*4	Number of copies to plot if plot disposition is >1.
16	Blank	
17-48	A*32	Plot file name if plot disposition = 1.

Following the above four records, the order and type of data included in a final control file may vary from one ADAPS application program to another. The position of the following records in the control file depends upon the needs of the individual application program.

The site records (see below) describe the agency/site identifier/data descriptor information for the batch postprocessing. The site records may also contain site-specific data and statistic codes, depending upon the particular postprocessor program and the options specified for it.

The following fields are supplied by the Startup Routine:

<b>Site Record</b>		
<b>Columns</b>	<b>Contents/Format</b>	<b>Description</b>
1-5	/SITE	Record identification
6	Blank	
7-11	A*5	Agency code, left-justified
12	Blank	
13-27	A*15	USGS site identifier, left-justified
28	Blank	
29-32	A*4	Data descriptor identifier
33	Blank	

The following fields are added to the site record by the preprocessor program if specific retrieval periods or statistic code lists are specified. If these fields are blank, the period and statistic codes used are those contained in any previous date, year, and statistic code records (these records are described below).

<b>Site Record (continued)</b>		
<b>Columns</b>	<b>Contents/Format</b>	<b>Description</b>
34-41	A*8	Begin date (YYYYMMDD) or begin year/month (YYYY MM)
42	Blank	
43-50	A*8	Ending date (YYYYMMDD) or ending year (YYYY)
51	Blank	
52-56	A*5	First statistic code
57	Blank	
58-62	A*5	Second statistic code
63	Blank	
64-110	A*5, Blank	Third through tenth statistic codes, as indicated.

The following date, year, and statistic code records are supplied as needed by a particular preprocessor program. They define the default retrieval periods and statistic code lists used by all

site combinations identified by the site record(s) described above. Either a date or a year record may appear. A statistic code record appears for programs that retrieve from the daily values file.

The date record is used primarily by Unit-Values file retrievals, but may be used in Daily-Values retrievals. If used for Daily-Values retrievals, water-year retrievals are done for the water years covered by the date period (range). Sub-setting to the actual dates specified is the responsibility of the individual batch postprocessor programs.

Date Record		
Columns	Contents/Format	Description
1-5	/DATE	Record identification
6	Blank	
7-14	A*8	Begin date (YYYYMMDD)
15	Blank	
16-23	A*8	End date (YYYYMMDD); if blank, retrieval is for begin date only.

The year record is used primarily by Daily-Values file retrievals, but may be used by Unit-Values file retrievals. (If used for Unit-Values retrievals, retrieval is done for all days in the years covered by the retrieval period).

Year Record		
Columns	Contents/Format	Description
1-5	/YEAR	Record identification
6	Blank	
7-10	A*4	Begin year (YYYY)
11	Blank	
12-15	A*4	End year (YYYY); if blank, retrieval is for begin year only.
16	Blank	
17-18	A*2	Begin month of annual period (MM); if blank, default is 10, a water year retrieval.

Statistic Code Record		
Columns	Contents/Format	Description
1-5	/STAT	Record identification
6	Blank	
7-11	A*5	First statistic code
12	Blank	
13-17	A*5	Second statistic code
18	Blank	
19-65	A*5, Blank	Third through tenth statistic codes, as indicated

### 6.2.3 Tabling Program Control Records

The Daily-Values tabling program control records created by the preprocessor program are described below. The other records that are in the control file are described above.

The type of table record defines the type of table to be produced by the tabling postprocessor program. Valid table types are:

- 1 = single station/parameter code/statistic code combination
- 2 = two statistic codes
- 3 = three statistic codes
- 4 = discharge, sediment concentration, and sediment load (a computation)
- 5 = only sediment concentration and load (no computation)

Type of Table Record		
Columns	Contents/Format	Description
1-5	/TYPE	Record identification
6	Blank	
7-11	I5	Table type (NNNNN)

Remarks Record		
Columns	Contents/Format	Description
1-5	/REMK	Record identification
6	Blank	
7-11	I5	Remark option flag (NNNNN): 0 = Suppress remarks

Summary Option Record (Type-1 Daily-Values table only) contains a list of integer numbers, separated by commas or blanks. These numbers control monthly and annual summary options for Type-1 Daily-Values tables. Valid integers in the list are 1 through 11. The available summary options are: 1 = total, 2 = mean, 3 = maximum, 4 = minimum, 5 = median, 6 = acre-feet, 7 = cubic feet per second per square mile, 8 = inches, 9 = include annual summaries, 10 = include calendar year summaries, and 11 = print a skeleton table. The text string ALL selects all of the available summary options (except skeleton tables). The text string NONE indicates no summaries are to be printed. Leaving the option string blank causes the program to use the summary options stored in the data descriptor file.

Summary Option Record (Type-1 daily-values table only)		
Columns	Contents/Format	Description
1-5	/SOPT	Record identification
6	Blank	
7-86	A*80	Summary option string

Table Suppression Record (Type-1 only)		
Columns	Contents/Format	Description
1-5	/NTAB	Record identification
6	Blank	
7-11	I5	Table suppression flag (NNNNN): 0 = Suppress the body of the table (summaries only). 1 = Do not suppress the table.

The next record is used to tell the batch primary computation program the options to execute.

Record Type for Primary Computation		
Columns	Contents/Format	Description
1-5	/PRIM	Record identification
6	Blank	
7-9	A*3	Standard Report Flag (YES = standard report, NO = Historical report)
10	Blank	
11-13	A*3	Save result flag (YES = save results to database, NO = do not save)
14	Blank	
15-17	A*3	Diagnostic Report flag (YES = produce diagnostic report, NO = do not produce diagnostic report)