

APPENDIX A

DATA DICTIONARY

A.1 DATA FILES

GRITS/STAT stores ground water data in the five database files shown in Table A-1. Each data directory that you maintain contains a copy of the five files and associated index files in Table A-1. The structures and field definitions for each DBF file may be found in Appendix B. The contents of the five files will, of course, vary from data directory to data directory.

| DBF File | Description | NTX Files | Key Expression |
|--------------|---|---|--|
| FACILITY.DBF | Each record (or row) describes one Facility (i.e., FCID, Address, Contact information, etc.). | FAC_ID.NTX | FCID |
| WELLS.DBF | Each record (or row) describes one Well at a Facility (i.e., Well ID, Gradient Position, Top of casing elevation, Depth at installation, etc.) | WELL_ID.NTX | FCID+WELL_ID |
| SAMPLING.DBF | Each record (or row) describes one Sampling Date for a given Facility (i.e., Sampling Date, Duplicate Code, Data Qualifier Code, etc.) | SAMPLES.NTX | FCID+DTOS(SAMP_DATE)+DUP_CODE |
| PARAMS.DBF | Each record (or row) describes one parameter being monitored at a given Facility (i.e., Parameter Code, Replicate Code, Default Detection Limit, Units, etc.). | PARAM_ID.NTX PARAMTR.NTX | FCID+STR(CODE,3,0)+NAME+REP_CODE FCID+NAME+REP_CODE |
| GWDATA.DBF | Each record (or row) contains one ground water observation from a given Facility and Well on a specified Sampling Date for a given Parameter. | GW_WELL.NTX GW_PARM.NTX GW_DATE.NTX | FCID+DTOS(SAMP_DATE)+DUP_CODE+PARAMETER+REP_CODE+WELL_ID FCID+DTOS(SAMP_DATE)+DUP_CODE+WELL_ID+PARAMETER+REP_CODE FCID+WELL_ID+PARAMETER+REP_CODE+DTOS(SAMP_DATE)+DUP_CODE |

Table A-1. GRITS/STAT data and index files.

The GSCOPE.DBF and GSWELLS.DBF files shown in Table A-2 are created and maintained

by the **GRITS/STAT** statistical modules. They contain the saved data set definitions used by the DataSet | File | Retrieve option of the statistical modules.

| DBF File | Description | NTX Files | Key Expression |
|-------------|---|-------------------------|----------------------|
| GSCOPE.DBF | Each record (or row) describes one data set (i.e., Facility, Parameter, Starting and Ending Dates). | SCOPE.NTX GDESCR.NTX | SETUPID SETUPNAME |
| GSWELLS.DBF | Each record (or row) describes one Well belonging to a saved data set (i.e., for each record in GSCOPE.DBF there will be one or more records in GSWELLS.DBF). | GSWELLS.NTX | SETUPID |

Table A-2. GRITS Statistics data sets are saved to and retrieved from GSCOPE.DBF and GSWELLS.DBF.

A.2. CODE SUPPORT FILES

Code support files are used in **GRITS/STAT** to validate data entry to insure consistency. Table A-3 lists all code support database files and index files.

| DBF File | Description | NTX Files | Key Expression |
|--------------|--|------------------------------|-------------------|
| ALL_PMTR.DBF | Contains the Master Parameter List . Each record (or row) describes one entry in the Master Parameter List. ALL_PMTR.DBF is located in the \GRITS500\GRITUTIL directory. | ALL_CODE.NTX ALL_PMTR.NTX | PARAMETER NAME |
| COUNTIES.DBF | Contains a list of every county in the United States. COUNTIES.DBF is used to validate county entry when adding or editing a new facility. COUNTIES.DBF is located in the \GRITS500\GRITUTIL directory. | | |

| | | | |
|--------------|---|--------------|-----------|
| UNIT_LST.DBF | <p>Contains the units list. Each record (or row) contains a conversion factor for between the units an observation is stored in and the units an observation is displayed in.</p> <p>UNIT_LST.DBF is located in the \GRITS500\GRITUTIL directory.</p> | UNIT_LST.NTX | SHOWUNITS |
|--------------|---|--------------|-----------|

Table A-3. Code Support database files used by **GRITS/STAT**.

A.3 SYSTEM FILES

GRITS/STAT uses DBF files to save user preferences and internal settings. Table A-4 lists the System DBF files. It is strongly recommended that great care be take in modifying these files.

| DBF File | Description | NTX Files | Key Expression |
|--------------|--|-------------|----------------|
| COLORS.DBF | <p>Contains current screen color settings for GRITS/STAT. Record 1 is used by GRITS Database, GRITS Utilities, GRITS Reported, GRITS Advanced Reporter, and GRITS Exporter. Record 2 is used by the statistics modules</p> <p>COLORS.DBF is located in the \GRITS500\GRITUTIL directory.</p> | <i>None</i> | |
| GRIT_LST.DBF | <p>Each record (or row) contains the program directory and drive information for each module in GRITS/STAT. This is also where the currently selected data directory and Facility is saved.</p> <p>GRIT_LST.DBF is located in the \GRITS500\GRITUTIL directory.</p> | <i>None</i> | |

| | | | |
|--------------|--|--------------|----------------------|
| INDX_LST.DBF | Each record (or row) describes an index file and key expression. The GRITS Utilities Index/Pack Files option builds all index files listed in INDX_LST.DBF. INDX_LST.DBF is located in the \GRITS500\GRITUTIL directory. | None | |
| PRNT_LST.DBF | Each record (or row) contains a printer definition used by the GRITS Reporter and GRITS Advanced Resporter modules. PRNT_LST.DBF is located in the \GRITS500\GRITUTIL directory, | None | |
| GRITHELP.DBF | Used as a help file for system messages. | GRITHELP.NTX | SUBS(HELPTTEXT,1,18) |

Table A-4. System database files.

A.4 Notes on the GRITS/STAT Data Dictionary

1. **GRITS/STAT** uses CA Clipper® index files. While commercially available programs such as Microsoft® Excel can easily open any **GRITS/STAT** database file, they do not open or maintain the accompanying index files and they do not make proper entries in related database files. This means that any changes made to **GRITS/STAT** files will always result in out-of-date index files and out-of-synch database files. This results in unpredictable behavior in **GRITS/STAT**. It is *strongly* recommended that off-the-shelf programs, such as Microsoft® Excel, should only be used for preparing ASCII files for importing data into **GRITS/STAT** or analyzing data exported from **GRITS/STAT**. **GRITS Database** and **GRITS SAGE** automatically maintain all index files and related database files.