

**Appendix 2—Supplemental Information and External
Data Files of Monthly Storage from the Guadalupe
River Water Availability Model for Canyon Lake, South-
Central Texas, 1974–89 (synthetic)**

Appendix 2 contains text files representing selected scenario simulations of the Soil and Water Assessment Tool (SWAT) and subsequent execution of the Water Availability Model (WAM) for the upper Guadalupe River watershed upstream of Canyon Lake, Comal County, Texas. These scenarios represent the monthly storage of Canyon Lake for the period of monthly record 1974–89 (January through December, see fig. 7). This period is highly synthetic because the SWAT simulations were for 1995–2010. The authors believe, however, that it would be misleading to relabel the Canyon Lake monthly storage time series in the files identified in this appendix to the period 1995–2010; preference to archive the results for 1974–89 (synthetic) is the most appropriate method available.

The monthly storage of Canyon Lake text files aggregated from the WAM output files are formatted in an abbreviated structure of the WAM (Wurbs, 2011). Only the scenario number, time stamp (with synthetic use of the first day of the month to complete the time stamp), and storage in acre-feet are tabulated. An important note, which is repeated within the README.txt file of the appendix 2 download folder, is that the scenario column has the labels 00, 24, 25, 26, 27, and 28 to respectively represent the 0-, 20-, 40-, 60-, 80-, and 100-percent extensive brush-management scenarios. The choice of a scenario identification scheme away from the direct use of percentages (unlike the convention in appendix 1) is made to explicitly guard against confusion of the “20th scenario” of U.S. Geological Survey Scientific Investigations Report 2012–5051 with the 20-percent extensive brush-management scenario for this investigation.

The text files have the name “CanyonLakeStorage_” preamble to the scenario identifier followed by the “.txt” file extension. The files are encoded to the Unicode UTF-8 standard and have line ending carriage return and new line characters to ensure compatibility across computer operating systems. The baseline scenario is represented by 000 (0-percent replacement of ashe juniper with grassland) and the scenarios involving percentages of 20, 40, 60, 80, and 100 percent treatable ashe juniper are respectively denoted by the matching numbers: 020, 040, 060, 080, and 100. The leading zeros are used to ensure that a given computer operating system will sort the files in a logical progression. The total monthly inflow text files for Canyon Lake available for download are as follows: CanyonLakeStorage_percent000.txt, CanyonLakeStorage_percent020.txt, CanyonLakeStorage_percent040.txt, CanyonLakeStorage_percent060.txt, CanyonLakeStorage_percent080.txt, and CanyonLakeStorage_percent100.txt.

A conventional README.txt file also is provided in the downloads directory that provides cross-reference of the files to this report.

Lastly, it is useful to describe the opening lines of a selected file. The header and first two data lines of the file CanyonLakeStorage_percent080.txt follow:

SCENARIO	DATE	STORAGE(acre-feet)
27	01/01/1995	386200.00
27	02/01/1995	381215.81

where SCENARIO denotes the scenario number (as explained previously for scenario of 27 being the 80th percentile), DATE denotes a time stamp as explained previously, and STORAGE is monthly storage in acre-feet.