

**Appendix 1—Supplemental Information and External Data Files of  
Total Monthly Inflow to Canyon Lake from Six Soil and Water  
Assessment Tool Scenarios of Extensive Brush Management for the  
Upper Guadalupe River Watershed, South-Central Texas, 1995–2010**

Appendix 1 contains text files representing selected scenario simulations of the Soil and Water Assessment Tool (SWAT) for the upper Guadalupe River watershed upstream of Canyon Lake, Comal County, Texas. These scenarios represent total monthly inflow to Canyon Lake (cumulative monthly inflow to Canyon Lake) for the period of monthly record 1995–2010 (January through December).

The text files for total inflow (monthly) to Canyon Lake aggregated from the SWAT output files are formatted in the structure required in the inflow-record format of the Texas Water Availability Model (WAM). The inflow records for control point 2 (CP02) within the WAM correspond to U.S. Geological Survey streamflow-gaging station 08167500 Guadalupe River near Spring Branch, Tex., the “Spring Branch streamgage.” For application of the alternative total inflow files into the WAM for this investigation there is a requirement to effectively turn off the intervening watersheds downstream (3 of 4 are named in the WAM—Rebecca, Jentsch, and Tom Creeks—see fig. 5) and of the Spring Branch streamgage. Figure 5 and associated discussion provides further context.

The text files have the name “SWATpercent” 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:

SWATpercent000.txt, SWATpercent020.txt, SWATpercent040.txt,  
 SWATpercent060.txt, SWATpercent080.txt, and SWATpercent100.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 SWATpercent080.txt follow:

**	CP	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
IN	CP02	1995	19559.	11842.	10309.	9835.	25303.	33210.	16857.	10711.	9562.	9632.	25915.	21225.
IN	CP02	1996	12829.	7985.	5779.	4018.	11159.	9940.	7365.	6439.	18305.	40647.	19088.	33022.

where the entries below the three-character month abbreviations represent the total monthly inflow to Canyon Lake in acre-feet for the corresponding month. The CP represents control point of the WAM, whereas IN represents an input flow record to the WAM. In the example shown, the CP02 represents the Spring Branch streamgage. The YEAR column begins with 1995 to represent the actual beginning of SWAT simulation. An ad hoc post-simulation offset of –21 years was used to link the upper Guadalupe River SWAT output in the SWATpercent\*.txt files to the Guadalupe River WAM as explained in the text. For example, the total inflow to Canyon Lake in April 1996 is estimated as 4,018 acre-feet for the scenario in which 80 percent of the treatable ashe juniper has been converted to grassland.