

SOURCE:

1. Memo: May 21, 2007 from Tom Frederick to RWSA Board
“Throughout our discussions, we have been trying to manage two separate objectives which can compete for the same limited water supply during drought periods. (water supply and instream flows) “This principle is reflected in detail in Brian Richter’s book, Rivers for Life: Managing Water for People and Nature.”
2. In Rivers for Life, Brian Richter of The Nature Conservancy embraces the Tennant Method that states that "to sustain ‘optimum’ biological conditions, 60-100 percent of a river's average flow needs to be protected. But to provide ‘excellent habitat;’ only 30-50 percent of the flow might be needed."
3. Flow Data from Table 14: June 2006 RWSA Permit Support Document page 64
<http://www.rivanna.org/documents/community/permitsupportdocument.pdf>

Note the Moorman’s flow dips below 79% only one month per year and even then stays within “optimum conditions.”

**Existing and Proposed Flows in the Moormans River
Immediately Downstream of Sugar Hollow Dam
Data from RWSA permit document cited above**

Month	Average Proposed (natural) flow	Average flow with current dam	% preserved with current dam
	MGD	MGD	% flow with dam
January	22.3	19.7	88.3
February	26.2	23.8	90.8
March	34.5	32.2	93.3
April	32.3	29.9	92.6
May	18.5	16.1	87.0
June	13.8	11.4	82.6
July	7.8	5.0	64.1
August	13.5	11.0	91.5
September	11.4	9.1	79.8
October	14.0	11.7	83.6
November	15.6	12.9	82.7
December	18.3	15.5	84.7