APPENDIX B

HYDROLOGY AND WATER QUALITY CALIBRATION RESULTS

HYDROLOGY CALIBRATION

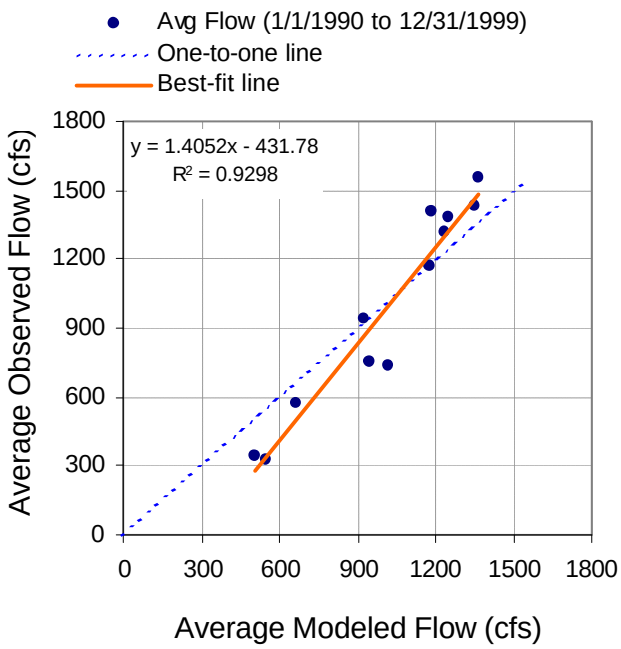

Figure 1. Comparison of observed and modeled annual flows, WFWR at Noblesville, 1990 to 1999.

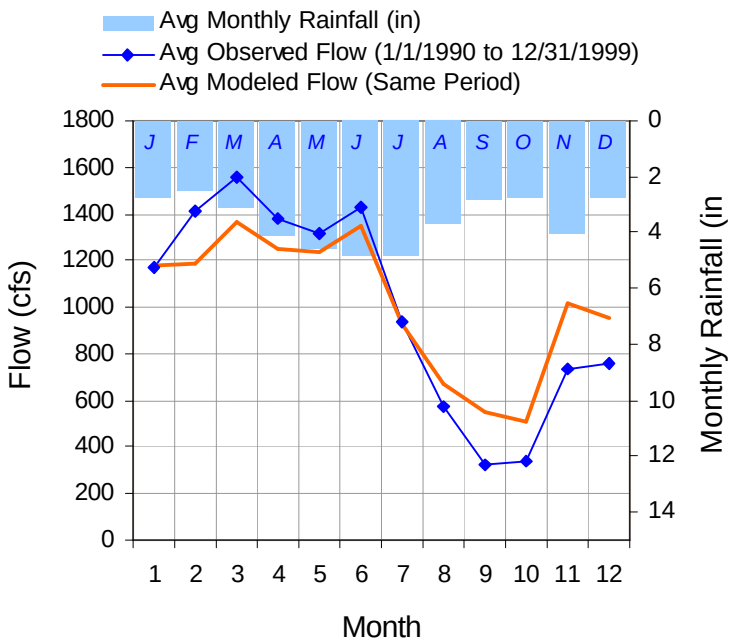

Figure 2. Comparison of average monthly flows, WFWR at Noblesville, 1990 to 1999.

HYDROLOGY VALIDATION

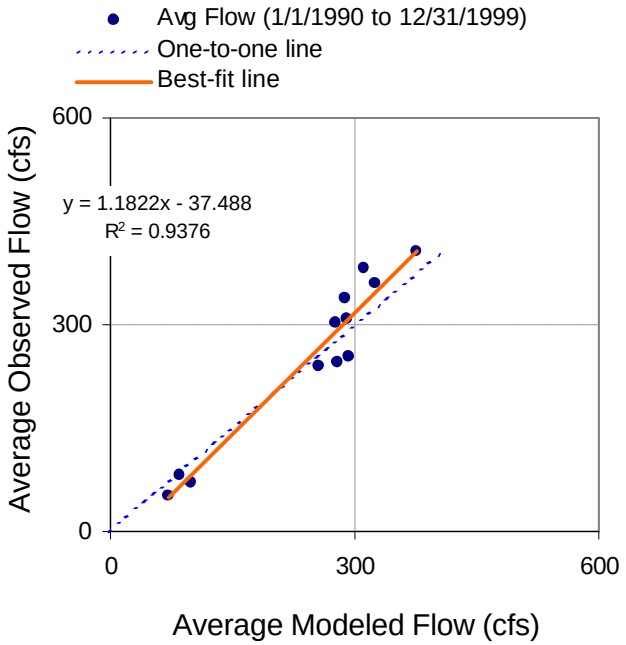

Figure 3. Comparison of observed and modeled annual flows, WFWR at Muncie, 1990 to 1999.

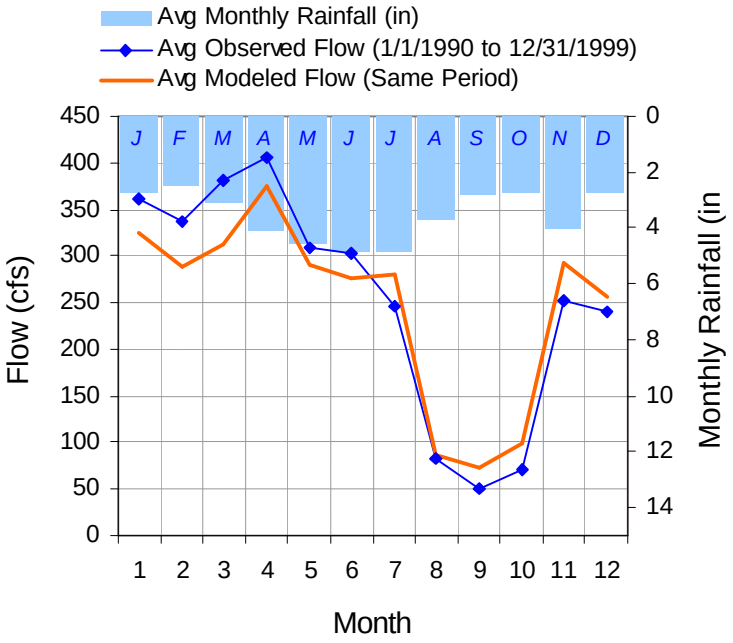

Figure 4. Comparison of average monthly flows, WFWR at Muncie, 1990 to 1999.

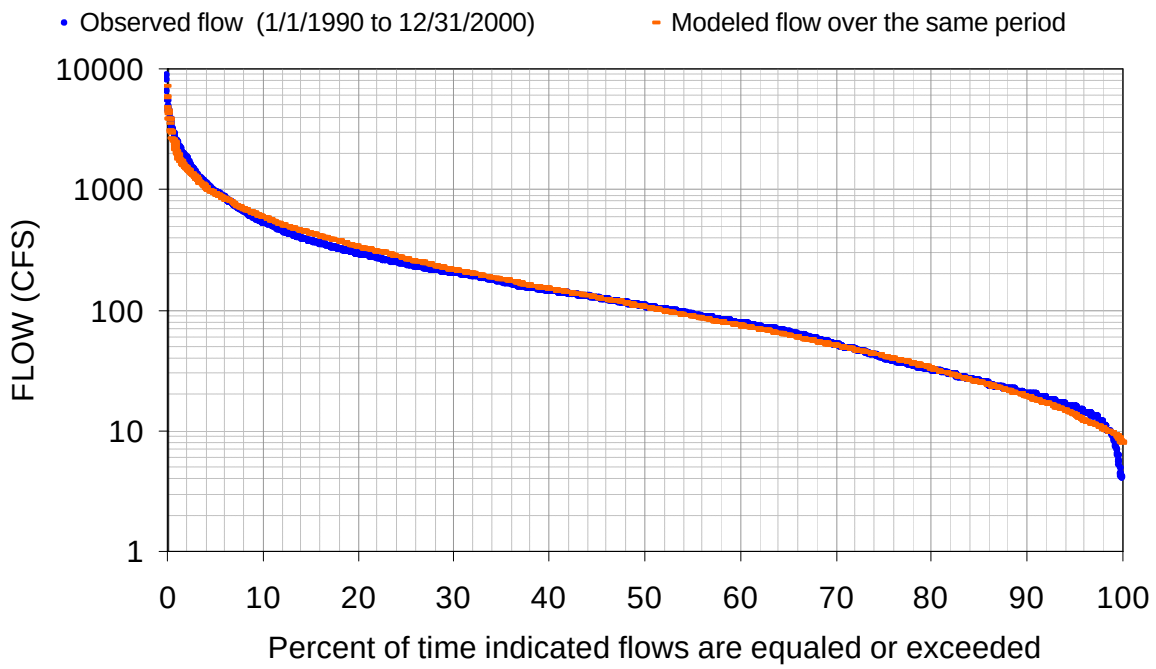

Figure 5. Flow duration curve of observed and modeled flows for WFWR at Muncie, 1990 to 1999.

WATER QUALITY CALIBRATION

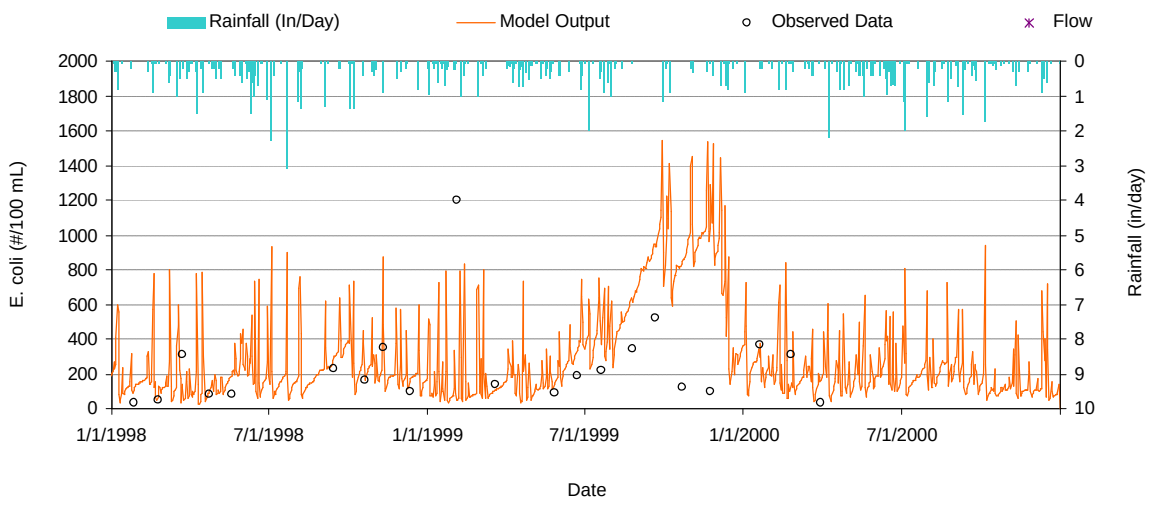

Figure 6. Comparison of modeled predicted *E. coli* at station WWU010-0001 (east edge of Muncie) for the period January 1, 1998 to December 31, 2000.

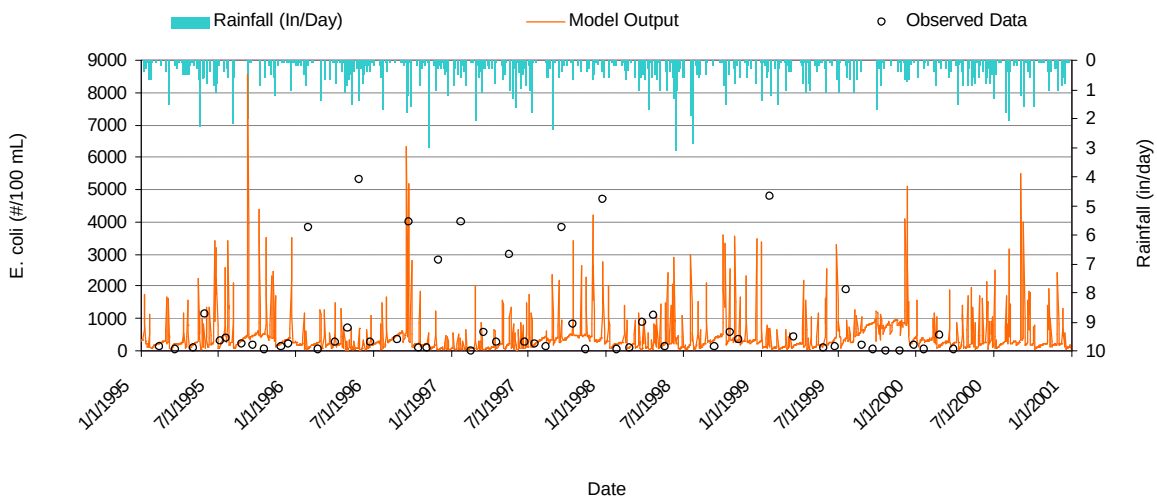

Figure 7. Comparison of modeled predicted *E. coli* at station WWU030-0003 (Anderson City Park Near Old Water Works Dam Site) for the period January 1, 1995 to December 31, 2000.

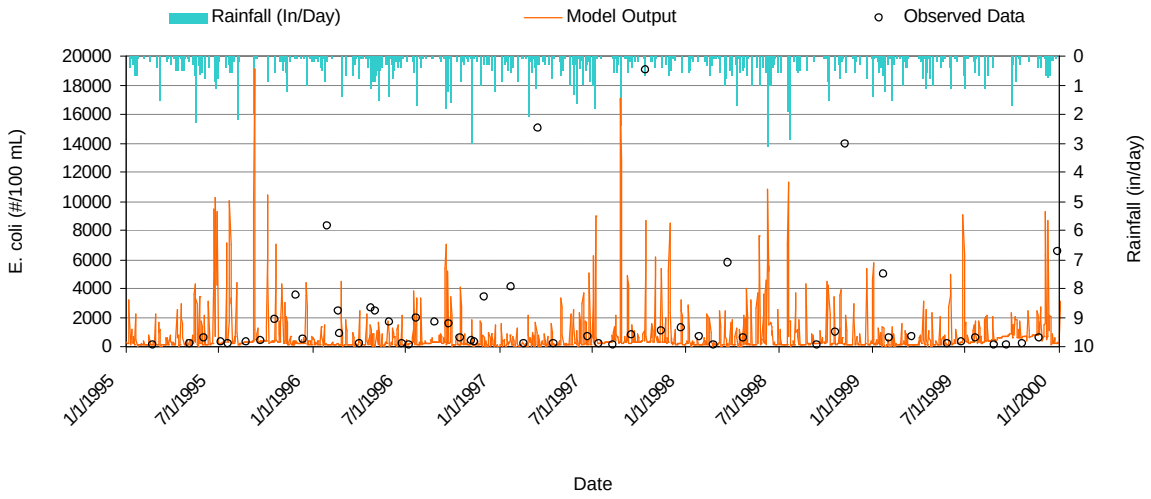

Figure 8. Comparison of modeled predicted *E. coli* at station WWU020-0005 (Tiger Dr, CR Bridge N of Yorktown HS) for the period January 1, 1995 to December 31, 1999.