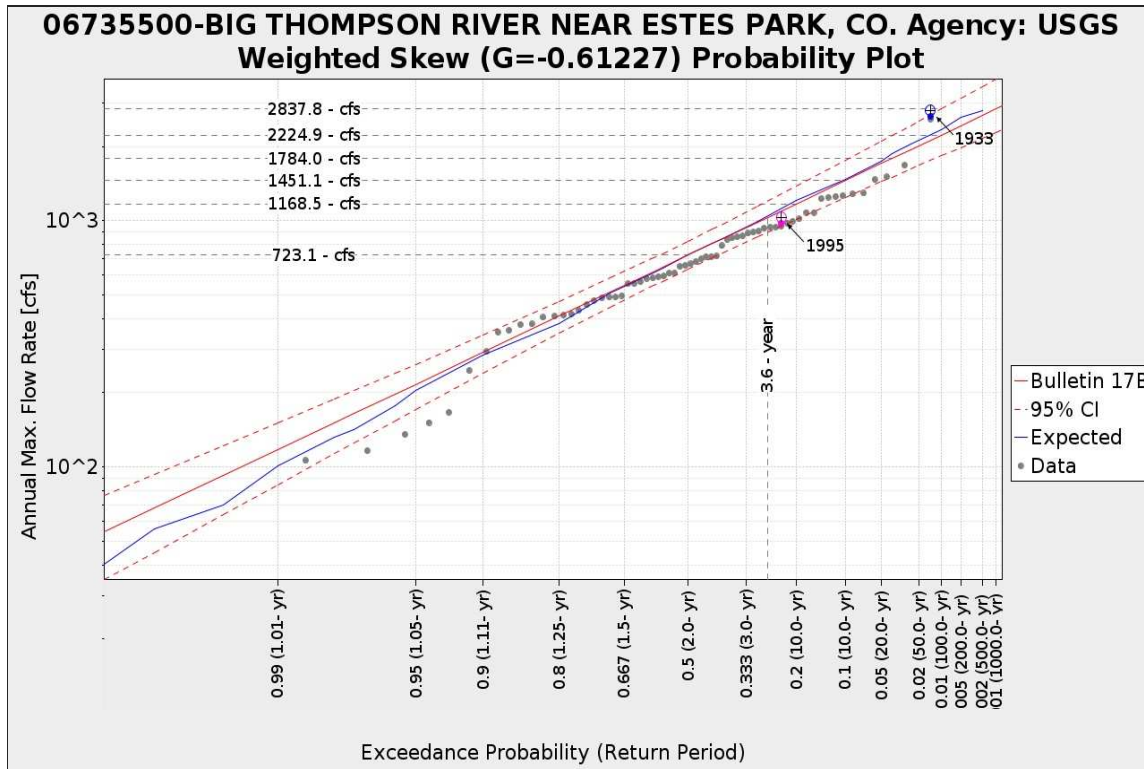


Flood Analysis Results:

The flood analysis follows the USGS Bulletin 17B (IACWD 1982) methodology for fitting a Log-Pearson Type III distribution to available annual flood data. The graph contains the Bulletin 17E fitted data and its corresponding 95% confidence interval, as well as the historic annual flood values. The flood analysis then estimates flood flow value (cfs) for standard return periods, which are summarized in the table below.



Return Period (year)	Expected (cfs)	Lower 95% CI for B17 (cfs)	B17 (cfs)	Upper 95% CI for B17 (cfs)
200	2619.6	1981.3	2422.8	3127.5
100	2335.3	1834.8	2224.9	2837.8
50	2116.0	1675.7	2012.7	2531.9
40	2049.8	1621.4	1941.0	2429.7
25	1863.3	1501.6	1784.0	2208.5
20	1748.5	1441.8	1706.4	2100.4
10	1469.2	1242.2	1451.1	1750.9
5.0	1203.6	1014.7	1168.5	1377.1
2.0	723.1	635.6	723.1	824.8
1.5	540.9	475.6	546.4	622.0
1.25	382.7	347.7	408.3	469.2

Analysis Summary:

- Total Observations: 66
- Start: 1930
- End: 1995
- Regional Skewness: -0.2115

Comments:

References:

Stream flow data and water quality test data courtesy of the U.S. Geological Survey, National Water Information System: Web Interface. <http://waterdata.usgs.gov/nwis>, accessed 01/24/2014

Interagency Advisory Committee on Water Data (IACWD). 1982. "Guidelines for determining flood flow frequency." *Bulletin No. 17B* (revised and corrected), Hydrology Subcommittee, Washington, D.C.

Water Resources Council, Hydrology Committee. 1967. "A Uniform Technique for Determining Flood Flow Frequencies." *Bulletin No. 15*, Washington, D.C.

Disclaimer:

The primary purpose of these graphs is to help identify possible flow and pollutant problems. The developers of eRAMS are not liable for use of this model (including but not limited to information extracted and results).