BF 71316 Hwy 892 Over Beaver River
Hydrotechnical Summary

Channel Capacity :

S = 0.0003
B = 40 m, h = 4 m, T_h = 70 m
Use AT equation

At Bank Height : Y = 4 m, V = 1.2 m/s, Q = 260 cms
At Channel Capacity : Y = 5 m, V = 1.4 m/s, Q = 400 cms

Historical Highwater Data :

HW was observed in June 1962 (Y ~ 6m), July 1970 (Y ~ 4.6m), and July 1997 (Y ~ 5m). The 1980 design was based on the 1962 event (Q ~ 540cms).

WSC Gauge 06AD006 (DA = 14,500km^2, 1955 – Now) reports Q ~ 620cms in June 1962 (gauged near peak, stage rise ~ 7m), Q ~ 400cms (April 1974), and Q ~ 340cms (July 1997).

Basin Runoff Potential :

Gross DA ~ 12,570 km^2 (exceeds range of technique).

Conclusion :

Historic observations govern. Recommended parameters :

Y = 6 m, V = 1.6 m/s, Q = 580 cms.
EL 508.2 m (DD861)