BF 09595 Local Road Over Beaver River
Hydrotechnical Summary

Channel Capacity :

S = 0.00025
B = 35 m, h = 5 m, T_h = 65 m
Use AT equation

At Bank Height : Y = 5 m, V = 1.3 m/s, Q = 300 cms
At Channel Capacity : Y = 6 m, V = 1.5 m/s, Q = 450 cms

Historical Highwater Data :

HW was observed in June 1962 (to bottom chord, Y ~ 6.5m), July 1970 (Y ~ 5.5m), and July 1997 (Y ~ 5.5m).

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 ~ 11,760 km^2 (exceed range of technique).

Conclusion :

Historic observations govern. Recommended parameters :

Y = 6.5 m, V = 1.6 m/s, Q = 550 cms.
EL 100.5 m (M-9595-96-5)