BF 81237 Highway 897 Over Beaver River
Hydrotechnical Summary

Channel Capacity :

S = 0.00025
B = 35 m, h = 5.5 m, Th = 70 m
Use AT equation

At Bank Height : Y = 5.5 m, V = 1.3 m/s, Q = 380 cms
At Channel Capacity : Y = 6.5 m, V = 1.5 m/s, Q = 550 cms

Historical Highwater Data :

HW was observed in 1997 (Y~4m). The 1989 design was based on the 1962 event (Y~6.5m, elev. 499.7m).

WSC gauge 06AD006 (DA=14,500km^2, operating 1955-present) reports high flow in June 1962 (Q~620cms), April 1974 (Q~400cms), and July 1997 (Q~340cms).

Basin Runoff Potential :

Gross DA = 14,350 km^2 (beyond range of technique)

Conclusion :

Historical observations govern.

Recommended parameters :

Y = 7 m, V = 1.6 m/s, Q = 640 cms