# BF 08779 Hwy 28 Over Beaver River
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.00025
B = 35 m, h = 5.5 m, $T_h$ = 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 June 1962 (Y ~ 7m), July 1970 (Y ~ 5.5m), and July 1997 (Y ~ 5.5m). The 1985 design was based on Q ~ 615cms.

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 ~ 13,470 km$^2$ (exceed range of technique).

**Conclusion :**

Historic observations govern. Recommended parameters :

Y = 7 m, V = 1.6 m/s, Q = 650 cms.
EL 501.0 m (12101-P)