# BF 74653 Hwy 36 Over Oldman River
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0007
B = 140 m, h = 8 m, $T_h$ = 220 m
Use AT equation

At Bank Height : Y = 8 m, V = 2.7 m/s, Q = 3900 cms
At Channel Capacity : Y = 9 m, V = 3.0 m/s, Q = 5000 cms

**Historical Highwater Data :**

HW has been noted at this site in 1902, 1908 (Y ~ 8.5m), 1953, 1964, 1972 (Ice), 1975, 1995 (Y ~ 8m), and 2005.

WSC Gauge 05AD007 (DA ~ 17000km$^2$, 1911 – Now) reports Q ~ 4600cms (1995, Y ~ 8.5m), and Q ~ 3000 – 3500cms (1923, 1942, 1948, 1953, and 1975, Y ~ 7 – 7.5m). WSC Gauge 05AG006 (DA ~ 27530km$^2$, 1964 – 1968, 1982 – Now) reports Q ~ 4600cms in 1995 (highest gauging at Q < 2000cms).

**Basin Runoff Potential :**

Gross DA = 25350 km$^2$, runoff potential is not applicable

**Conclusion :**

Historic observations govern. Recommended parameters :

Y = 9.0 m, V = 3.0 m/s, Q = 5000 cms.
HW EL 739.0m (Dwg. 1855)