# BF 81239 Hwy 986 Over Peace River
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0003
B = 400 m, h = 13 m, $T_h$ = 550 m
Use AT equation

At Bank Height : Y = 13 m, V = 2.8 m/s, Q = 17000 cms
At Channel Capacity : Y = 14 m, V = 2.9 m/s, Q = 20000 cms

**Historical Highwater Data :**

HW was observed in 1990 (Y ~ 14m) and high ice in 1992 (Y ~ 15m), and 1979 (Y ~ 14m). The 1965 design was based on Y ~ 12m.

WSC Gauge 07HA001 (DA = 186,000km$^2$, 1915-31, 1957 - Now) reports Q ~ 18500cms (~ 11m stage rise) in June 1990, Q ~ 15600cms in 1972, and Q ~ 14000 in 1965. The highest gauging was at Q ~ 12000cms in 1964.

**Basin Runoff Potential :**

DA = 186,000km$^2$, beyond range of basin runoff potential technique.

**Conclusion :**

Historic observations govern. Recommended parameters :

Y = 14.0m, V = 2.9 m/s, Q = 20000 cms
EL 315.5m (13302-P)