# BF 81715 Hwy 734 Over Moose Ck Tributary
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.009
B = 2 m, h = 1.0 m, $T_h$ = 4 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.3 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.9 m/s, Q = 10 cms

**Historical Highwater Data :**

There are no HW observations at this site. HW was observed at BF78249 on Moose Ck d/s in June 1990.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1965, June 1970, June 1972, July 1981, July 1986, June 1990, and July 1999. The largest storms in the database for this area are July 1965 with 125mm of rainfall, June 1970 and July 1986 115mm, and June 1972 and July 1982 with 105mm.

**Basin Runoff Potential :**

d = 80 mm, $T_p$ = 20 hrs, q = 1.1 cms/$km^2$
Gross DA = 9 $km^2$.
$Q_p$ = 10 cms.

**Conclusion :**

The channel capacity estimate is consistent with historic observations and matches the basin runoff potential.

Recommended parameters : Y = 1.5 m, V = 1.9 m/s, Q = 10 cms.