BF 77015 Hwy 40 Over Winter Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.015
B = 4 m, h = 1.2 m, T_h = 7 m
Use n = 0.055

At Bank Height : Y = 1.2 m, V = 2.0 m/s, Q = 13 cms
At Channel Capacity : Y = 1.8 m, V = 2.8 m/s, Q = 30 cms

Historical Highwater Data :

Icing has built up to the bottom of the girders (1970, 2002, Y = 1.5m).

There are no WSC gauges on this stream. Gauges in the area indicate HW events in June 1972, June 1980, July 1990, June and July 1997, and July 1999. The storm database indicates 130mm in June 1972, July 1987, and June 1997, and about 100mm in June 1980 and July 1999.

Basin Runoff Potential :

d = 70 - 80 mm, T_p = 20 hrs, q = 1.0 cms/km^2.
DA = 12 km^2.
Q_p = 12 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.2 m, V = 2.0 m/s, Q = 13 cms.