BF 00237 Hwy 834 Over Norris Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0004
B = 4 m, h = 1.3 m, T_h = 8 m
Use n = 0.05

At Bank Height : Y = 1.3 m, V = 0.4 m/s, Q = 3 cms
At Channel Capacity : Y = 2.0 m, V = 0.5 m/s, Q = 7 cms

Historical Highwater Data :

A 1974 report estimates Q ~ 20cms and Y ~ 1.8m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974 and April 1997. The largest storms in the storm database are about 120mm in July 1955, September 1958, and June 1965.

Basin Runoff Potential :

d = 35 mm, T_p = 40 hrs, q = 0.25 cms/km^2.
Gross DA = 255 km^2. (lots of storage and potentially ineffective area)
Q_p = 65 cms.

Conclusion :

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

Recommended parameters : Y = 2.0 m, V = 0.5 m/s, Q = 7 cms.