BF 74562 Hwy 63 Over Pine Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0065
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.1 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.6 m/s, Q = 8 cms

Historical Highwater Data :

HW was noted in May 1956 with washout of 0.75m culvert and water over the grade (Q_{est} = 4cms). A 1965 report notes a HWM over the grade at a low spotand estimates Q = 6cms with Y = 1.5m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, August 1996 and April 1997. The largest storms in the storm database are about 100mm of rainfall in June 1970, June 1973, and August 1980.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 9 km^2.
Q_p = 5 cms.

Conclusion :

Basin runoff potential governs for this site (channel is man-made ditch).

Recommended parameters : Y = 1.2 m, V = 1.3 m/s, Q = 5 cms.