BF 73186 Hwy 40 Over Mercoal Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 1.1 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.7 m/s, Q = 8 cms

Historical Highwater Data :

HW was noted in June 1980 (water over road, estimated Q ~ 8cms).

There are no WSC gauges on this stream. Gauges in the area suggest a HW event in June 1980. The largest storms in the storm database are June 1980 (155mm), August 1969 (130mm), July 1987 (130mm), June 1958 (120mm), Juy 1982 (110mm), and July 1986 (110mm).

Basin Runoff Potential :

d = 80 mm, T_p = 20 hrs, q = 1.1 cms/km^2.
Gross DA = 10 km^2.
Q_p = 11 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.7 m/s, Q = 8 cms.