BF 72160 Local Road Over Kakut Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.009
B = 3 m, h = 1.2 m, T_h = 5 m
Use n = 0.055

At Bank Height : Y = 1.2 m, V = 1.5 m/s, Q = 7 cms
At Channel Capacity : Y = 1.8 m, V = 2.1 m/s, Q = 17 cms

Historical Highwater Data :

HW was noted in 1956 with an estimated Q = 14cms. A 1956 report notes deep scour (degradation) and estimates Q = 42cms. A 1974 report notes an uplift failure, and estimates Q = 37cms.

There are no gauges on this stream. Gauges in the area suggest HW events in June 1968, April 1974, April 1979, June 1990, and April 1997. The largest storms in the storm database are June 1990 with about 135mm of rainfall, August 1982 with 115mm, and July 1935 and June 1965 with 105mm.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 20 km^2.
Q_p = 17 cms.

Conclusion :

Channel capacity estimate is consistent with basin runoff potential.

Recommended parameters : Y = 1.8 m, V = 2.1 m/s, Q = 17 cms.