BF 77312 Hwy 947 Over Iosegun River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 1.5 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 2.2 m/s, Q = 11 cms

Historical Highwater Data :

A 1971 report notes a HWM with Y = 1.8m and estimates Q = 4cms, with a subsequent design note estimating Q = 7cms. A 1982 report estimates Q = 7cms, and notes icing to 0.9m below the crown (Y = 1.5m).

There are no WSC gauges on this stream. Gauge 07GG003 (DA = 1950km^2, 1970 – Now) on the Iosegun River reports HW events in June 1996 and July 1971. The largest storms for this area in the storm database are about 110 mm of rainfall in July 1964 and June 1978.

Basin Runoff Potential :

d = 80 mm, T_p = 20 hrs, q = 1.1 cms/km^2.
Gross DA = 14 km^2.
Q_p = 15 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 2.2 m/s, Q = 11 cms.