BF 77383 Hwy 947 Over Iosegun River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.02
B = 1.5 m, h = 0.8 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 0.8 m, V = 1.6 m/s, Q = 3 cms
At Channel Capacity : Y = 1.3 m, V = 2.5 m/s, Q = 8 cms

Historical Highwater Data :

A 1971 report notes a HWM with Y = 1.2 – 1.5m and estimates Q = 4cms. A 1982 report estimates Q = 5cms. A 1998 BIM report notes a HWM with Y = 2m, but no description is given and may have been influenced by operation of the culvert.

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 = 5 km^2.
Q_p = 6 cms.

Conclusion :

Basin runoff potential governs for this site and is consistent with historic information.

Recommended parameters : Y = 1.1 m, V = 2.2 m/s, Q = 6 cms.