# BF 71928 Local Rd Over Spruce Creek
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.007
B = 0.7 m, h = 0.7 m, $T_h$ = 3 m
Use n = 0.055

At Bank Height : Y = 0.7 m, V = 0.8 m/s, Q = 1 cms
At Channel Capacity : Y = 1.2 m, V = 1.4 m/s, Q = 4 cms

**Historical Highwater Data:**

This file has one mention of HW = 1.8 in 1954 (this is probably a guess) and the same engineers specifies a maximum flow of 100 cfs.

There are no WSC Gauges on this stream or gauges with similar drainage basin characteristics on nearby streams.

**Basin Runoff Potential :**

d = 60 mm, $T_p$ = 20 hrs, q = 0.83 cms/$km^2$.
Gross DA = 13 $km^2$.
$Q_p$ = 11 cms.

**Conclusion :**

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

Recommended parameters : Y = 1.2 m, V = 1.4 m/s, Q = 4 cms