
 ISIS

HYDROLOGICAL DATA

Catchment: 1

Catchment Characteristics

 Easting : 458350 Northing : 221850
 Area : 3.450 km2
 DPLBAR : 2.390 km
 DPSBAR : 12.200 m/km
 PROPWET : 0.320
 SAAR : 624.000 mm
 Urban Extent : 0.157
 C : -0.022
 d1 : 0.321
 d2 : 0.324
 d3 : 0.251
 e : 0.290
 f : 2.467
 SPR : 9.500 %

Summary of estimate using Flood Estimation Handbook rainfall-runoff method

Estimation of T-year flood

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 Unit hydrograph time to peak : 3.555 hours
 Instantaneous UH time to peak : 3.055 hours
 Data interval : 1.000 hours
 Design storm duration : 5.900 hours
 Critical storm duration : 5.773 hours
 Flood return period (not used) : 100.000 years
 Rainfall return period : 100.000 years
 ARF : 0.969
 Design storm depth : 64.024 mm
 CWI : 90.320
 Standard Percentage Runoff : 9.500 %
 Percentage runoff : 11.272 %
 snowmelt rate : 0.000 mm/day
 Unit hydrograph peak : 0.214 (m3/s/mm)
 Quick response hydrograph peak : 1.268 m3/s
 Baseflow : 0.025 m3/s
 Baseflow adjustment : 0.000 m3/s
 Hydrograph peak : 1.294 m3/s
 Hydrograph adjustment factor : 1.000

Flags

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 Unit hydrograph flag : FSRUH
 Tp flag : FEHTP
 Event rainfall flag : FEHER
 Rainfall profile flag : SUMRP
 Percentage Runoff flag : FEHPR
 Baseflow flag : F16BF