

Appendix 2_22C Streamflow statistics for site S26 estimated using a drainage-area-ratio method and historical streamflows (Olson, S.A., and Mack,T.J., 2011, Technique for estimation of streamflow statistics in mineral areas of interest in Afghanistan: U.S. Geological Survey Open-File Report 2011-1176)

[km², square kilometer; mm, millimeter; m, meter; m³/s, cubic meter per second; The streamgage, listed with Afghan identification number, is the historical site used for the ungaged site estimate.]

Basin Characteristics:

Drainage area:	460.4 km ²	Basin percent above 3000 m:	0
Basin slope percent:	13.3	Mean October precipitation:	6.5 mm
Centroid elevation:	626.6 m	Mean November precipitation:	21.1 mm
Basin percent irrigated:	0	Mean December precipitation:	24.7 mm
		Mean January precipitation:	28.8 mm

Streamgage: Bangi River at Pul-i-Bangi 14-1.1L0-1A
Drainage area, km²: 4482

Results

Streamgage data:		Ungaged site estimate:	area exponent
7Q10:	6.65 m ³ /s	0.50 m ³ /s	1.14
7Q2:	9.46 m ³ /s	0.91 m ³ /s	1.03
90% flow duration:	9.61 m ³ /s	0.56 m ³ /s	1.25
80% flow duration:	11.1 m ³ /s	0.76 m ³ /s	1.18
Mean annual discharge:	24.5 m ³ /s	2.31 m ³ /s	1.04
October mean monthly discharge:	13.2 m ³ /s	1.09 m ³ /s	1.10
November mean monthly discharge:	12.9 m ³ /s	1.09 m ³ /s	1.09
December mean monthly discharge:	12.8 m ³ /s	1.10 m ³ /s	1.08
January mean monthly discharge:	12.2 m ³ /s	1.08 m ³ /s	1.06
February mean monthly discharge:	11.7 m ³ /s	1.20 m ³ /s	1.00
March mean monthly discharge:	12.7 m ³ /s	1.57 m ³ /s	0.92
April mean monthly discharge:	21.2 m ³ /s	2.75 m ³ /s	0.90
May mean monthly discharge:	39.9 m ³ /s	3.67 m ³ /s	1.05
June mean monthly discharge:	72.1 m ³ /s	4.95 m ³ /s	1.18
July mean monthly discharge:	50.0 m ³ /s	4.27 m ³ /s	1.08
August mean monthly discharge:	21.5 m ³ /s	1.93 m ³ /s	1.06
September mean monthly discharge:	13.0 m ³ /s	1.08 m ³ /s	1.09
October minimum monthly discharge:	9.01 m ³ /s	0.59 m ³ /s	1.20
November minimum monthly discharge:	9.20 m ³ /s	0.61 m ³ /s	1.19
December minimum monthly discharge:	9.52 m ³ /s	0.64 m ³ /s	1.18
January minimum monthly discharge:	8.98 m ³ /s	0.57 m ³ /s	1.21
February minimum monthly discharge:	7.76 m ³ /s	0.54 m ³ /s	1.17
March minimum monthly discharge:	7.55 m ³ /s	0.70 m ³ /s	1.04
April minimum monthly discharge:	8.93 m ³ /s	0.85 m ³ /s	1.03
May minimum monthly discharge:	27.6 m ³ /s	1.92 m ³ /s	1.17
June minimum monthly discharge:	34.9 m ³ /s	1.83 m ³ /s	1.30
July minimum monthly discharge:	12.7 m ³ /s	0.74 m ³ /s	1.25
August minimum monthly discharge:	9.02 m ³ /s	0.48 m ³ /s	1.29
September minimum monthly discharge:	7.51 m ³ /s	0.42 m ³ /s	1.27