

Appendix 2_24C Streamflow statistics for site S31 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:	1533.2 km ²	Basin percent above 3000 m:	88
Basin slope:	57.2	Mean October precipitation:	26.4 mm
Centroid elevation:	4409.7 m	Mean November precipitation:	55.1 mm
Basin percent irrigated:	0.88	Mean December precipitation:	76.5 mm
		Mean January precipitation:	87.1 mm

Streamgage: Pech River at Chaghasarai (345400071080000)		1-4.1R0-1A	
Drainage area, km ² : 3869.7		Results	
Streamgage data:		Ungaged site estimate:	area exponent
7Q10:	3.62 m ³ /s	1.26 m ³ /s	1.14
7Q2:	6.02 m ³ /s	2.32 m ³ /s	1.03
90% flow duration:	7.11 m ³ /s	2.24 m ³ /s	1.25
80% flow duration:	8.76 m ³ /s	2.94 m ³ /s	1.18
Mean annual discharge:	58.7 m ³ /s	22.48 m ³ /s	1.04
October mean monthly discharge:	14.4 m ³ /s	5.22 m ³ /s	1.10
November mean monthly discharge:	11.3 m ³ /s	4.14 m ³ /s	1.09
December mean monthly discharge:	8.59 m ³ /s	3.17 m ³ /s	1.08
January mean monthly discharge:	7.68 m ³ /s	2.87 m ³ /s	1.06
February mean monthly discharge:	9.78 m ³ /s	3.87 m ³ /s	1.00
March mean monthly discharge:	24.9 m ³ /s	10.63 m ³ /s	0.92
April mean monthly discharge:	82.7 m ³ /s	36.00 m ³ /s	0.90
May mean monthly discharge:	150 m ³ /s	56.82 m ³ /s	1.05
June mean monthly discharge:	206 m ³ /s	69.29 m ³ /s	1.18
July mean monthly discharge:	118 m ³ /s	43.36 m ³ /s	1.08
August mean monthly discharge:	46.5 m ³ /s	17.44 m ³ /s	1.06
September mean monthly discharge:	21.8 m ³ /s	7.94 m ³ /s	1.09
October minimum monthly discharge:	6.74 m ³ /s	2.22 m ³ /s	1.20
November minimum monthly discharge:	5.94 m ³ /s	1.97 m ³ /s	1.19
December minimum monthly discharge:	4.01 m ³ /s	1.34 m ³ /s	1.18
January minimum monthly discharge:	3.5 m ³ /s	1.14 m ³ /s	1.21
February minimum monthly discharge:	4.24 m ³ /s	1.44 m ³ /s	1.17
March minimum monthly discharge:	11.4 m ³ /s	4.34 m ³ /s	1.04
April minimum monthly discharge:	42.7 m ³ /s	16.41 m ³ /s	1.03
May minimum monthly discharge:	75.8 m ³ /s	25.61 m ³ /s	1.17
June minimum monthly discharge:	96.4 m ³ /s	29.03 m ³ /s	1.30
July minimum monthly discharge:	33.5 m ³ /s	10.55 m ³ /s	1.25
August minimum monthly discharge:	17 m ³ /s	5.16 m ³ /s	1.29
September minimum monthly discharge:	9.17 m ³ /s	2.84 m ³ /s	1.27