

Appendix 2_20C Streamflow statistics for site S29 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:	132.6 km ²	Basin percent above 3000 m:	53.1
Basin slope percent:	53.2	Mean October precipitation:	20.7 mm
Centroid elevation:	2839.2 m	Mean November precipitation:	25.8 mm
Basin percent irrigated:	0.34	Mean December precipitation:	39.4 mm
		Mean January precipitation:	67.8 mm

Streamgage: Harzarnaw River at Sabay (340600070220000) 1-2.R00-7T

Drainage area, km²: 120

Results

Streamgage data:		Ungaged site estimate:	area exponent
90% flow duration:	0.27 m ³ /s	0.31 m ³ /s	1.25
80% flow duration:	0.30 m ³ /s	0.34 m ³ /s	1.18
Mean annual discharge:	2.34 m ³ /s	2.60 m ³ /s	1.04
October mean monthly discharge:	0.43 m ³ /s	0.48 m ³ /s	1.10
November mean monthly discharge:	0.39 m ³ /s	0.43 m ³ /s	1.09
December mean monthly discharge:	0.34 m ³ /s	0.38 m ³ /s	1.08
January mean monthly discharge:	0.28 m ³ /s	0.31 m ³ /s	1.06
February mean monthly discharge:	0.28 m ³ /s	0.31 m ³ /s	1.00
March mean monthly discharge:	0.42 m ³ /s	0.46 m ³ /s	0.92
April mean monthly discharge:	3.58 m ³ /s	3.92 m ³ /s	0.90
May mean monthly discharge:	6.38 m ³ /s	7.08 m ³ /s	1.05
June mean monthly discharge:	7.26 m ³ /s	8.17 m ³ /s	1.18
July mean monthly discharge:	3.91 m ³ /s	4.36 m ³ /s	1.08
August mean monthly discharge:	2.30 m ³ /s	2.56 m ³ /s	1.06
September mean monthly discharge:	1.58 m ³ /s	1.76 m ³ /s	1.09
October minimum monthly discharge:	0.30 m ³ /s	0.34 m ³ /s	1.20
November minimum monthly discharge:	0.31 m ³ /s	0.35 m ³ /s	1.19
December minimum monthly discharge:	0.28 m ³ /s	0.32 m ³ /s	1.18
January minimum monthly discharge:	0.25 m ³ /s	0.28 m ³ /s	1.21
February minimum monthly discharge:	0.17 m ³ /s	0.19 m ³ /s	1.17
March minimum monthly discharge:	0.36 m ³ /s	0.40 m ³ /s	1.04
April minimum monthly discharge:	2.76 m ³ /s	3.06 m ³ /s	1.03
May minimum monthly discharge:	4.95 m ³ /s	5.56 m ³ /s	1.17
June minimum monthly discharge:	4.93 m ³ /s	5.61 m ³ /s	1.30
July minimum monthly discharge:	1.88 m ³ /s	2.13 m ³ /s	1.25
August minimum monthly discharge:	0.76 m ³ /s	0.86 m ³ /s	1.29
September minimum monthly discharge:	0.91 m ³ /s	1.03 m ³ /s	1.27