

Appendix 2_3C Streamflow statistics for site S1 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:	507.58 km ²	Basin percent above 3000 m:	49
Basin slope percent:	34.74	Mean October precipitation:	32.5 mm
Centroid elevation:	2774.7 m	Mean November precipitation:	68.4 mm
Basin percent irrigated:	1.45	Mean December precipitation:	78.4 mm
		Mean January precipitation:	68.7 mm

Streamgage: Warduj River near Baharak 15-10.R00-2A
Drainage area, km²: 3382.5

Streamgage data:		Ungaged site estimate:	area exponent
7Q10:	6.86 m ³ /s	0.79 m ³ /s	1.14
7Q2:	8.34 m ³ /s	1.18 m ³ /s	1.03
90 percent flow duration:	9.46 m ³ /s	0.89 m ³ /s	1.25
80 percent flow duration:	10.7 m ³ /s	1.14 m ³ /s	1.18
Mean annual discharge:	34.8 m ³ /s	4.87 m ³ /s	1.04
October mean monthly discharge:	21.5 m ³ /s	2.69 m ³ /s	1.10
November mean monthly discharge:	15.4 m ³ /s	1.96 m ³ /s	1.09
December mean monthly discharge:	12.8 m ³ /s	1.66 m ³ /s	1.08
January mean monthly discharge:	11.2 m ³ /s	1.49 m ³ /s	1.06
February mean monthly discharge:	10.5 m ³ /s	1.57 m ³ /s	1.00
March mean monthly discharge:	9.55 m ³ /s	1.67 m ³ /s	0.92
April mean monthly discharge:	10.5 m ³ /s	1.91 m ³ /s	0.90
May mean monthly discharge:	19.3 m ³ /s	2.64 m ³ /s	1.05
June mean monthly discharge:	74.8 m ³ /s	8.02 m ³ /s	1.18
July mean monthly discharge:	103 m ³ /s	13.25 m ³ /s	1.08
August mean monthly discharge:	84.6 m ³ /s	11.34 m ³ /s	1.06
September mean monthly discharge:	45.2 m ³ /s	5.70 m ³ /s	1.09
October minimum monthly discharge:	18.8 m ³ /s	1.93 m ³ /s	1.20
November minimum monthly discharge:	14.3 m ³ /s	1.50 m ³ /s	1.19
December minimum monthly discharge:	11.4 m ³ /s	1.21 m ³ /s	1.18
January minimum monthly discharge:	9.86 m ³ /s	0.98 m ³ /s	1.21
February minimum monthly discharge:	8.44 m ³ /s	0.92 m ³ /s	1.17
March minimum monthly discharge:	7.38 m ³ /s	1.02 m ³ /s	1.04
April minimum monthly discharge:	7.35 m ³ /s	1.04 m ³ /s	1.03
May minimum monthly discharge:	10.3 m ³ /s	1.11 m ³ /s	1.17
June minimum monthly discharge:	43.9 m ³ /s	3.75 m ³ /s	1.30
July minimum monthly discharge:	73.3 m ³ /s	6.87 m ³ /s	1.25
August minimum monthly discharge:	61 m ³ /s	5.31 m ³ /s	1.29
September minimum monthly discharge:	36.2 m ³ /s	3.28 m ³ /s	1.27