

Appendix 2_3C Streamflow statistics for site S3 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:	560.26 km ²	Basin percent above 3000 m:	23.7
Basin slope percent:	34.06	Mean October precipitation:	26.7 mm
Centroid elevation:	2839 m	Mean November precipitation:	53.3 mm
Basin percent irrigated:	0.05	Mean December precipitation:	63.6 mm
		Mean January precipitation:	59.1 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	0.89 m ³ /s	1.14
7Q2:	8.34 m ³ /s	1.31 m ³ /s	1.03
90% flow duration:	9.46 m ³ /s	1.01 m ³ /s	1.25
80% flow duration:	10.7 m ³ /s	1.29 m ³ /s	1.18
Mean annual discharge:	34.8 m ³ /s	5.40 m ³ /s	1.04
October mean monthly discharge:	21.5 m ³ /s	2.99 m ³ /s	1.10
November mean monthly discharge:	15.4 m ³ /s	2.19 m ³ /s	1.09
December mean monthly discharge:	12.8 m ³ /s	1.85 m ³ /s	1.08
January mean monthly discharge:	11.2 m ³ /s	1.66 m ³ /s	1.06
February mean monthly discharge:	10.5 m ³ /s	1.74 m ³ /s	1.00
March mean monthly discharge:	9.55 m ³ /s	1.83 m ³ /s	0.92
April mean monthly discharge:	10.5 m ³ /s	2.09 m ³ /s	0.90
May mean monthly discharge:	19.3 m ³ /s	2.93 m ³ /s	1.05
June mean monthly discharge:	74.8 m ³ /s	9.01 m ³ /s	1.18
July mean monthly discharge:	103 m ³ /s	14.74 m ³ /s	1.08
August mean monthly discharge:	84.6 m ³ /s	12.59 m ³ /s	1.06
September mean monthly discharge:	45.2 m ³ /s	6.35 m ³ /s	1.09
October minimum monthly discharge:	18.8 m ³ /s	2.17 m ³ /s	1.20
November minimum monthly discharge:	14.3 m ³ /s	1.68 m ³ /s	1.19
December minimum monthly discharge:	11.4 m ³ /s	1.35 m ³ /s	1.18
January minimum monthly discharge:	9.86 m ³ /s	1.11 m ³ /s	1.21
February minimum monthly discharge:	8.44 m ³ /s	1.03 m ³ /s	1.17
March minimum monthly discharge:	7.38 m ³ /s	1.13 m ³ /s	1.04
April minimum monthly discharge:	7.35 m ³ /s	1.15 m ³ /s	1.03
May minimum monthly discharge:	10.3 m ³ /s	1.25 m ³ /s	1.17
June minimum monthly discharge:	43.9 m ³ /s	4.27 m ³ /s	1.30
July minimum monthly discharge:	73.3 m ³ /s	7.78 m ³ /s	1.25
August minimum monthly discharge:	61 m ³ /s	6.03 m ³ /s	1.29
September minimum monthly discharge:	36.2 m ³ /s	3.72 m ³ /s	1.27