

Appendix 2_6C Streamflow statistics for site S19 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:	2900 km ²	Basin percent above 3000 m:	0
Basin slope percent:	3.64	Mean October precipitation:	3.2 mm
Centroid elevation:	1059.5 m	Mean November precipitation:	11.7 mm
Basin percent irrigated:	0.14	Mean December precipitation:	19 mm
		Mean January precipitation:	32.9 mm

Streamgage: Adraskan River at Adraskan (333800062160000) 7-0.000-7M

Drainage area, km²: 1947

Results

Streamgage data:	Ungaged site estimate:		area exponent
7Q10:	0.02 m ³ /s	0.03 m ³ /s	1.14
7Q2:	0.24 m ³ /s	0.36 m ³ /s	1.03
90% flow duration:	0.33 m ³ /s	0.54 m ³ /s	1.25
80% flow duration:	0.72 m ³ /s	1.15 m ³ /s	1.18
Mean annual discharge:	6.53 m ³ /s	9.87 m ³ /s	1.04
October mean monthly discharge:	0.79 m ³ /s	1.22 m ³ /s	1.10
November mean monthly discharge:	1.69 m ³ /s	2.60 m ³ /s	1.09
December mean monthly discharge:	2.79 m ³ /s	4.28 m ³ /s	1.08
January mean monthly discharge:	3.03 m ³ /s	4.63 m ³ /s	1.06
February mean monthly discharge:	7.66 m ³ /s	11.41 m ³ /s	1.00
March mean monthly discharge:	17.9 m ³ /s	25.82 m ³ /s	0.92
April mean monthly discharge:	23.4 m ³ /s	33.47 m ³ /s	0.90
May mean monthly discharge:	13.4 m ³ /s	20.35 m ³ /s	1.05
June mean monthly discharge:	3.98 m ³ /s	6.36 m ³ /s	1.18
July mean monthly discharge:	1.35 m ³ /s	2.08 m ³ /s	1.08
August mean monthly discharge:	0.58 m ³ /s	0.88 m ³ /s	1.06
September mean monthly discharge:	0.56 m ³ /s	0.87 m ³ /s	1.09
October minimum monthly discharge:	0.15 m ³ /s	0.24 m ³ /s	1.20
November minimum monthly discharge:	0.7 m ³ /s	1.12 m ³ /s	1.19
December minimum monthly discharge:	0.42 m ³ /s	0.67 m ³ /s	1.18
January minimum monthly discharge:	1.02 m ³ /s	1.65 m ³ /s	1.21
February minimum monthly discharge:	1.57 m ³ /s	2.50 m ³ /s	1.17
March minimum monthly discharge:	2.46 m ³ /s	3.73 m ³ /s	1.04
April minimum monthly discharge:	3.85 m ³ /s	5.81 m ³ /s	1.03
May minimum monthly discharge:	2.8 m ³ /s	4.47 m ³ /s	1.17
June minimum monthly discharge:	0.72 m ³ /s	1.21 m ³ /s	1.30
July minimum monthly discharge:	0.31 m ³ /s	0.51 m ³ /s	1.25
August minimum monthly discharge:	0.01 m ³ /s	0.02 m ³ /s	1.29
September minimum monthly discharge:	0.01 m ³ /s	0.02 m ³ /s	1.27

Drainage area ratio technique:

Streamgage: Rud-i-Gas River near Adraskan (334200062170000) 7-5.R00-1A

Drainage area, km²: 2144

Streamgage data:	Ungaged site estimate:		area exponent
7Q10:	0 m ³ /s	0.00 m ³ /s	1.14
7Q2:	0.23 m ³ /s	0.31 m ³ /s	1.03
90% flow duration:	0.18 m ³ /s	0.26 m ³ /s	1.25
80% flow duration:	0.39 m ³ /s	0.56 m ³ /s	1.18
Mean annual discharge:	5.47 m ³ /s	7.48 m ³ /s	1.04
October mean monthly discharge:	0.51 m ³ /s	0.71 m ³ /s	1.10
November mean monthly discharge:	0.96 m ³ /s	1.33 m ³ /s	1.09
December mean monthly discharge:	1.74 m ³ /s	2.41 m ³ /s	1.08
January mean monthly discharge:	2.07 m ³ /s	2.85 m ³ /s	1.06
February mean monthly discharge:	4.51 m ³ /s	6.10 m ³ /s	1.00
March mean monthly discharge:	19.3 m ³ /s	25.48 m ³ /s	0.92
April mean monthly discharge:	24.2 m ³ /s	31.74 m ³ /s	0.90
May mean monthly discharge:	9.1 m ³ /s	12.49 m ³ /s	1.05
June mean monthly discharge:	1.78 m ³ /s	2.54 m ³ /s	1.18
July mean monthly discharge:	0.75 m ³ /s	1.04 m ³ /s	1.08
August mean monthly discharge:	0.39 m ³ /s	0.54 m ³ /s	1.06
September mean monthly discharge:	0.4 m ³ /s	0.56 m ³ /s	1.09
October minimum monthly discharge:	0.06 m ³ /s	0.09 m ³ /s	1.20
November minimum monthly discharge:	0.21 m ³ /s	0.30 m ³ /s	1.19
December minimum monthly discharge:	0.41 m ³ /s	0.59 m ³ /s	1.18
January minimum monthly discharge:	0.6 m ³ /s	0.87 m ³ /s	1.21
February minimum monthly discharge:	1.04 m ³ /s	1.48 m ³ /s	1.17
March minimum monthly discharge:	1.75 m ³ /s	2.40 m ³ /s	1.04
April minimum monthly discharge:	6.45 m ³ /s	8.81 m ³ /s	1.03
May minimum monthly discharge:	1.29 m ³ /s	1.84 m ³ /s	1.17
June minimum monthly discharge:	0.23 m ³ /s	0.34 m ³ /s	1.30
July minimum monthly discharge:	0.08 m ³ /s	0.12 m ³ /s	1.25
August minimum monthly discharge:	0 m ³ /s	0.00 m ³ /s	1.29
September minimum monthly discharge:	0 m ³ /s	0.00 m ³ /s	1.27