

Appendix 2_15C Streamflow statistics for site S12 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:	167.74 km ²	Basin percent above 3000 m:	10.71
Basin slope percent:	22.84	Mean October precipitation:	6.6 mm
Centroid elevation:	2551.3 m	Mean November precipitation:	16.6 mm
Basin percent irrigated:	20.3	Mean December precipitation:	32.1 mm
		Mean January precipitation:	45.6 mm

Notes: Percent irrigated land is greater than 15. Use with caution.

Streamgage: Syahgel River at Syahgel		3-5.R00-3T	
Drainage area, km ² : 149		Results	
Streamgage data:		Ungaged site estimate:	area exponent
90% flow duration:	0.02 m ³ /s	0.02 m ³ /s	1.25
80% flow duration:	0.03 m ³ /s	0.03 m ³ /s	1.18
Mean annual discharge:	0.19 m ³ /s	0.21 m ³ /s	1.04
October mean monthly discharge:	0.04 m ³ /s	0.05 m ³ /s	1.10
November mean monthly discharge:	0.05 m ³ /s	0.06 m ³ /s	1.09
December mean monthly discharge:	0.12 m ³ /s	0.14 m ³ /s	1.08
January mean monthly discharge:	0.29 m ³ /s	0.33 m ³ /s	1.06
February mean monthly discharge:	0.34 m ³ /s	0.38 m ³ /s	1.00
March mean monthly discharge:	0.42 m ³ /s	0.47 m ³ /s	0.92
April mean monthly discharge:	0.57 m ³ /s	0.63 m ³ /s	0.90
May mean monthly discharge:	0.34 m ³ /s	0.38 m ³ /s	1.05
June mean monthly discharge:	0.14 m ³ /s	0.16 m ³ /s	1.18
July mean monthly discharge:	0.1 m ³ /s	0.11 m ³ /s	1.08
August mean monthly discharge:	0.1 m ³ /s	0.11 m ³ /s	1.06
September mean monthly discharge:	0.03 m ³ /s	0.03 m ³ /s	1.09
October minimum monthly discharge:	0.01 m ³ /s	0.01 m ³ /s	1.20
November minimum monthly discharge:	0.01 m ³ /s	0.01 m ³ /s	1.19
December minimum monthly discharge:	0.03 m ³ /s	0.03 m ³ /s	1.18
January minimum monthly discharge:	0.07 m ³ /s	0.08 m ³ /s	1.21
February minimum monthly discharge:	0.08 m ³ /s	0.09 m ³ /s	1.17
March minimum monthly discharge:	0.15 m ³ /s	0.17 m ³ /s	1.04
April minimum monthly discharge:	0.06 m ³ /s	0.07 m ³ /s	1.03
May minimum monthly discharge:	0.02 m ³ /s	0.02 m ³ /s	1.17
June minimum monthly discharge:	0.01 m ³ /s	0.01 m ³ /s	1.30
July minimum monthly discharge:	0.02 m ³ /s	0.02 m ³ /s	1.25
August minimum monthly discharge:	0.02 m ³ /s	0.02 m ³ /s	1.29
September minimum monthly discharge:	0.01 m ³ /s	0.01 m ³ /s	1.27

Streamgage: Park River near Park Dasht		3-1.1L0-5T	
Drainage area, km ² : 263.8		Results	
Streamgage data:		Ungaged site estimate:	area exponent
90% flow duration:	0.04 m ³ /s	0.02 m ³ /s	1.25
80% flow duration:	0.05 m ³ /s	0.03 m ³ /s	1.18
Mean annual discharge:	0.4 m ³ /s	0.25 m ³ /s	1.04
October mean monthly discharge:	0.06 m ³ /s	0.04 m ³ /s	1.10
November mean monthly discharge:	0.06 m ³ /s	0.04 m ³ /s	1.09
December mean monthly discharge:	0.09 m ³ /s	0.06 m ³ /s	1.08
January mean monthly discharge:	0.11 m ³ /s	0.07 m ³ /s	1.06
February mean monthly discharge:	0.32 m ³ /s	0.20 m ³ /s	1.00
March mean monthly discharge:	1.48 m ³ /s	0.98 m ³ /s	0.92
April mean monthly discharge:	1.89 m ³ /s	1.26 m ³ /s	0.90
May mean monthly discharge:	0.46 m ³ /s	0.29 m ³ /s	1.05
June mean monthly discharge:	0.13 m ³ /s	0.08 m ³ /s	1.18
July mean monthly discharge:	0.55 m ³ /s	0.34 m ³ /s	1.08
August mean monthly discharge:	0.2 m ³ /s	0.12 m ³ /s	1.06
September mean monthly discharge:	0.08 m ³ /s	0.05 m ³ /s	1.09
October minimum monthly discharge:	0.04 m ³ /s	0.02 m ³ /s	1.20
November minimum monthly discharge:	0.05 m ³ /s	0.03 m ³ /s	1.19
December minimum monthly discharge:	0.04 m ³ /s	0.02 m ³ /s	1.18
January minimum monthly discharge:	0.04 m ³ /s	0.02 m ³ /s	1.21
February minimum monthly discharge:	0.07 m ³ /s	0.04 m ³ /s	1.17
March minimum monthly discharge:	0.14 m ³ /s	0.09 m ³ /s	1.04
April minimum monthly discharge:	0.55 m ³ /s	0.34 m ³ /s	1.03
May minimum monthly discharge:	0.09 m ³ /s	0.05 m ³ /s	1.17
June minimum monthly discharge:	0.06 m ³ /s	0.03 m ³ /s	1.30
July minimum monthly discharge:	0.04 m ³ /s	0.02 m ³ /s	1.25
August minimum monthly discharge:	0.04 m ³ /s	0.02 m ³ /s	1.29
September minimum monthly discharge:	0.03 m ³ /s	0.02 m ³ /s	1.27