Table D6-1a Peak Flow Regression Equations

			Average equivalent	95-percent prediction interval factor	
Equation	SE _E (percent)	SE _p (percent)	years of record	Lower limit	Upper limit
$Q_{1.5} = 12.7(AREA^{0.626})((LAT-40)^{-1.18})$	66	72	3.2	0.266	3.76
$\mathcal{Q}_2 = 22.2 (AREA^{0.608}) ((LAT-40)^{-1.24})$	60	66	3.2	.292	3.43
$Q_{2.33} = 28.1(AREA^{0.600})((LAT-40)^{-1.26})$	59	64	3.3	.301	3.32
$Q_5 = 66.4(AREA^{0.567})((LAT-40)^{-1.35})$	53	59	4.7	.328	3.05
$\mathcal{Q}_{10} = 116(AREA^{0.544})((LAT-40)^{-1.40})$	52	57	6.4	.336	2.98
$\mathcal{Q}_{25} = 204 (AREA^{0.520}) ((LAT-40)^{-1.44})$	52	58	8.5	.331	3.02
$\mathcal{Q}_{50} = 290(AREA^{0.504})((LAT-40)^{-1.46})$	53	60	9.7	.320	3.13
$\mathcal{Q}_{100} = 394(AREA^{0.489})((LAT-40)^{-1.47})$	56	63	10.4	.304	3.29
$Q_{200} = 519(AREA^{0.476})((LAT-40)^{-1.48})$	59	67	10.9	.286	3.49
$Q_{500} = 719(AREA^{0.459})((LAT-40)^{-1.49})$	64	73	11.1	.261	3.83

 SE_E =average standard error of estimate; SE_P =average standard error of prediction; Q_T =estimated peak flow (cfs) for the recurrence interval of T years; AREA=total drainage area (mi²); LAT=latitude of basic outlet location in decimal degrees.