

**Table 4.** Statistics summarizing basin characteristics selected for regional regression of peak flows in Virginia.

[DA, basin drainage area; DD, decimal degrees; ft, feet; in, inches; mi, mile; mi<sup>2</sup>, square mile; %, percent]

Basin characteristic	Standard				
	Mean value	deviation of values	Minimum value	Maximum value	Range of values
Mean Elevation (ft)	1,497	1,075	24.6	3,952	3,927
Drainage area (mi <sup>2</sup> )	283	832	0.060	7,866	7,866
Basin slope (ft/mi)	270	179	6.17	869	862
Perimeter (mi)	65.8	98.8	1.13	705	704
Latitude (DD)	37.8	0.783	36.4	39.3	2.87
Longitude (DD)	79.0	1.57	75.9	83.0	7.14
Elevation (ft)	2,242	1,628	40.2	5,729	5,689
Basin relief (ft)	1,472	1,271	27.3	4,532	4,505
Valley length (mi)	296	2,119	0.610	30,359	30,358
Channel slope(ft/mi)	36.6	81.5	0	886	886
Elevation at 10 percent (ft)	668	807	0	3,032	3,032
Elevation at 85 percent (ft)	916	1,007	0	3,731	3,731
Stream length (mi)	27.9	44.5	0.480	329	328
Forest (%)	60.9	22.3	2.65	100	97.0
Urban (%)	13.2	20.4	0	96.0	96.0
Agriculture (%)	2.89	5.11	0	40.4	40.4
Wetland (%)	1.02	2.76	0	45.5	45.5
Water (%)	0.354	0.710	0	7.43	7.43
Grass (%)	21.1	16.0	0	83.3	83.3
Bare (%)	0.541	1.27	0	15.1	15.1
Basin area in Coastal Plain physiographic region (mi <sup>2</sup> )	7.31	50.7	0	645	645
Basin area in Piedmont physiographic region (mi <sup>2</sup> )	74.1	380	0	5,169	5,169
Basin area in Blue Ridge physiographic region (mi <sup>2</sup> )	84.1	300	0	2,119	2,119
Basin area in Valley and Ridge physiographic region (mi <sup>2</sup> )	102	378	0	2,879	2,879
Basin area in Appalachian Plateaus physiographic region (mi <sup>2</sup> )	6.18	38.7	0	523	523
Basin area in Mesozoic Basins physiographic region (mi <sup>2</sup> )	7.96	38.4	0	383	383
Basin area in water (mi <sup>2</sup> )	1.23	7.18	0	109	109
Basin area in Coastal Plain physiographic region (%)	10.4	29.0	0	100	100
Basin area in Piedmont physiographic region (%)	26.7	41.5	0	100	100
Basin area in Blue Ridge physiographic region (%)	23.5	39.5	0	100	100
Basin area in Valley and Ridge physiographic region (%)	30.3	44.0	0	100	100
Basin area in Appalachian Plateau physiographic region (%)	3.89	18.3	0	100	100
Basin area in Mesozoic Basin physiographic region (%)	5.00	19.4	0	100	100
Basin area in water (%)	0.194	0.857	0	11.3	11.3
Mean annual precipitation (in)	45.2	3.43	35.8	59.1	23.2
January-February-March precipitation (in)	10.8	1.16	7.64	16.0	8.36
2-year 24-hour precipitation intensity (in)	3.19	0.342	2.37	4.33	1.96
Basin area with 0% impervious surface (%)	83.7	22.6	2.27	100	98.1
Basin area with 1-5% impervious surface (%)	5.29	3.53	0	24.0	24.0
Basin area with 6-10% impervious surface (%)	2.00	2.34	0	13.7	13.7
Basin area with 11-25% impervious surface (%)	3.84	6.48	0	33.6	33.6
Basin area with 26-50% impervious surface (%)	3.03	6.65	0	38.7	38.7
Basin area with 51-75% impervious surface (%)	1.52	4.63	0	41.0	41.0
Basin area with 76-100% impervious surface (%)	0.668	2.14	0	16.4	16.4
Basin area with 0% impervious surface (mi <sup>2</sup> )	255	752	0	7,045	7,045
Basin area with 1-5% impervious surface (mi <sup>2</sup> )	13.2	40.4	0	392	392
Basin area with 6-10% impervious surface (mi <sup>2</sup> )	3.87	12.0	0	128	128
Basin area with 11-25% impervious surface (mi <sup>2</sup> )	5.29	16.2	0	160	160
Basin area with 26-50% impervious surface (mi <sup>2</sup> )	3.35	10.5	0	95.1	95.1
Basin area with 51-75% impervious surface (mi <sup>2</sup> )	1.07	3.27	0	29.5	29.5
Basin area with 76-100% impervious surface (mi <sup>2</sup> )	0.514	1.67	0	16.1	16.1