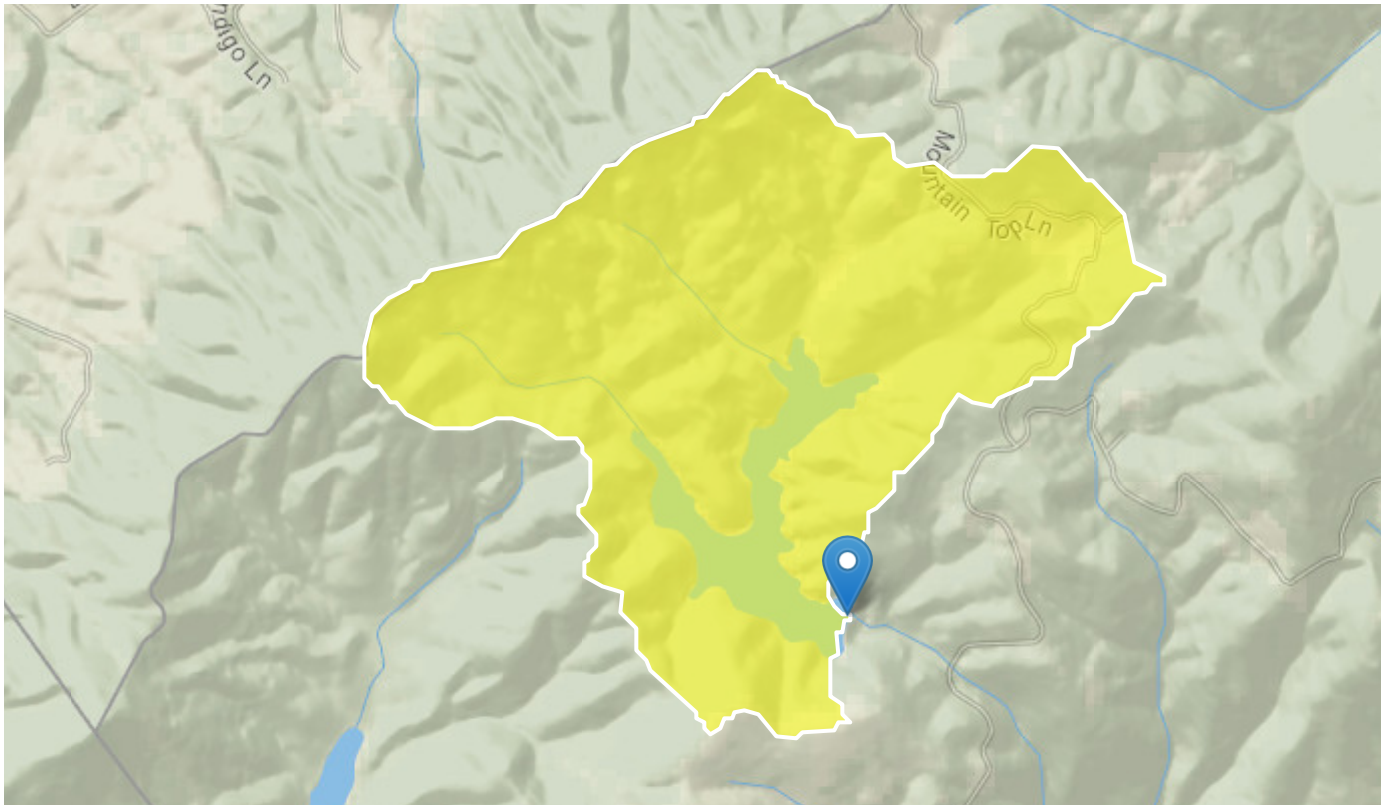
BVR Whole Watershed StreamStatsReport

Region ID: VA
Workspace ID: VA20190124153724086000
Clicked Point (Latitude, Longitude): 37.31321, -79.81535
Time: 2019-01-24 10:37:42 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.41	square miles
BRMETA	Percent area of metamorphic rocks within the Blue Ridge Physiographic Region	100	percent
CPSED	Percent area of sedimentary rockswithin the Coastal Plain Physiographic Region	0	percent
ELEV	Mean Basin Elevation	2024.78	feet
ELEVMAX	Maximum basin elevation	2301.95	feet

Parameter Code	Parameter Description	Value	Unit
I24H2Y	Maximum 24-hour precipitation that occurs on average once in 2 years - Equivalent to precipitation intensity index	3.298	inches
LC01BARE	Percentage of area barren land, NLCD 2001 category 31	0.12	percent
LC01CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2001	1.18	percent
LC01DEV	Percentage of land-use from NLCD 2001 classes 21-24	1.54	percent
LC01FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2001	88.94	percent
LC01HERB	Percentage of herbaceous upland from NLCD 2001 class 71	0	percent
LC01IMP	Percent imperviousness of basin area 2001 NLCD	0.06	percent
LC01WATER	Percentage of open water, class 11, from NLCD 2001	8.21	percent
LC01WETLND	Percentage of wetlands, classes 90 and 95, from NLCD 2001	0	percent
LC06BARE	Percent of area covered by barren rock using 2006 NLCD	0.12	percent
LC06CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2006	1.15	percent
LC06DEV	Percentage of land-use from NLCD 2006 classes 21-24	1.57	percent
LC06FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2006	88.91	percent
LC06GRASS	Percent of area covered by grassland/herbaceous using 2006 NLCD	0	percent
LC06IMP	Percentage of impervious area determined from NLCD 2006 impervious dataset	0.07	percent
LC06WATER	Percent of open water, class 11, from NLCD 2006	8.24	percent
LC06WETLND	Percent of area covered by wetland using 2006 NLCD	0	percent
LC11BARE	Percentage of barren from NLCD 2011 class 31	0.12	percent
LC11CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2011	1.18	percent

Parameter Code	Parameter Description	Value	Unit
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	1.55	percent
LC11FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2011	89.02	percent
LC11GRASS	Percent of area covered by grassland/herbaceous using 2011 NLCD	0	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	0.0612	percent
LC11WATER	Percent of open water, class 11, from NLCD 2011	8.13	percent
LC11WETLND	Percentage of wetlands, classes 90 and 95, from NLCD 2011	0	percent
LFREGNO	Low Flow Region Number	1546	dimensionless
MESZOIC	Percent of area within the Mesozoic Basins	0	percent
MINBELEV	Minimum basin elevation	1922.6	feet
PDIGMET	Percent area of igneous and metamorphic within the Piedmont Physiographic Region	0	percent
PKREGNO	Peak Flow Region Number	1553	dimensionless
PRECIP	Mean Annual Precipitation	46.225	inches
RELIEF	Maximum - minimum elevation	379	feet
STATOM19_8	Percentage of soils with greater than 7.3 percent and less than or equal to 19.8 percent organic matter from STATSGO	0	percent
STATOM55_7	Percentage of soils with greater than 19.8 percent and less than or equal to 55.7 percent organic matter from STATSGO	0	percent
STATSCLAY10	Percentage of soils with less than 10 percent clay from STATSGO	0	percent
STATSCLY20	Percentage of soils with greater than 10 percent and less than or equal to 20 percent clay from STATSGO	0	percent
STATSCLY30	Percentage of soils with greater than 20 percent and less than or equal to 30 percent clay from STATSGO	100	percent
STATSCLY40	Percentage of soils with greater than 30 percent and less than or equal to 40 percent clay from STATSGO	0	percent

Parameter Code	Parameter Description	Value	Unit
STATSCLY50	Percentage of soils with greater than 40 percent and less than or equal to 50 percent clay from STATSGO	0	percent
STATSCLY60	Percentage of soils with greater than 50 percent and less than or equal to 60 percent clay from STATSGO	0	percent
STATSGODEP	Area-weighted average soil depth from NRCS STATSGO database	59	inches
STATSOM0_5	Percentage of soils with less than 0.5 percent organic matter from STATSGO	0	percent
STATSOM2_6	Percentage of soils with greater than 0.50 percent and less than or equal to 2.60 percent organic matter from STATSGO	100	percent
STATSOM7_3	Percentage of soils with greater than 2.6 percent and less than or equal to 7.3 percent organic matter from STATSGO	0	percent
STATSPERM	Area-weighted average soil permeability from NRCS STATSGO database	3.08	inches per hour
STATSWATCP	Available water capacity of the top 60 inches of soil - determined from STATSGO data	0.15	inch per inch
VRCARB	Percent of area of carbonate rocks within the Valley and Ridge Physiographic Region	0	percent
VRPLSLC	Percent of area of siliciclastic rocks witin the Valley and Ridge or Appalachian Plateau Physiographic Regions	0	percent

Peak-Flow Statistics Parameters [Blue Ridge 2011 5144]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.41	square miles	0.06	7866

Peak-Flow Statistics Flow Report [Blue Ridge 2011 5144]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SEp

Statistic	Value	Unit	SEp
2 Year Peak Flood	171	ft^3/s	17
2 33 Year Peak Flood	203	ft^3/s	18
5 Year Peak Flood	389	ft^3/s	20
10 Year Peak Flood	610	ft^3/s	24
25 Year Peak Flood	970	ft^3/s	29
50 Year Peak Flood	1320	ft^3/s	32
100 Year Peak Flood	1870	ft^3/s	30
200 Year Peak Flood	2370	ft^3/s	33

Peak-Flow Statistics Citations

Austin, S.H., Krstolic, J.L., and Wiegand, Ute,2011, Peak-flow characteristics of Virginia streams: U.S. Geological Survey Scientific Investigations Report 2011–5144, 106 p. + 3 tables and 2 appendixes on CD. (http://pubs.usgs.gov/sir/2011/5144/)

Low-Flow Statistics Parameters [Blue Ridge 2011 5143]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.41	square miles	0.09	7393

Low-Flow Statistics Flow Report [Blue Ridge 2011 5143]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SEp
1 Day 1.11 Year Low Flow	0.289	ft^3/s	44
1 Day 1.25 Year Low Flow	0.194	ft^3/s	54.2
1 Day 1.43 Year Low Flow	0.141	ft^3/s	63.1
1 Day 1.67 Year Low Flow	0.104	ft^3/s	71.7
1 Day 2 Year Low Flow	0.0752	ft^3/s	81.1
1 Day 2.5 Year Low Flow	0.053	ft^3/s	91.9
1 Day 3.33 Year Low Flow	0.0347	ft^3/s	106
1 Day 5 Year Low Flow	0.0203	ft^3/s	126
1 Day 10 Year Low Flow	0.00832	ft^3/s	167

Statistic	Value	Unit	SEp
4 Day 1.11 Year Low Flow	0.3	ft^3/s	44.7
4 Day 1.25 Year Low Flow	0.206	ft^3/s	54.7
4 Day 1.43 Year Low Flow	0.15	ft^3/s	63.8
4 Day 1.67 Year Low Flow	0.111	ft^3/s	73
4 Day 2 Year Low Flow	0.0812	ft^3/s	82.8
4 Day 2.5 Year Low Flow	0.0577	ft^3/s	93.9
4 Day 3.33 Year Low Flow	0.0383	ft^3/s	108
4 Day 5 Year Low Flow	0.0223	ft^3/s	129
4 Day 10 Year Low Flow	0.00924	ft^3/s	169
4 Day 20 Year Low Flow	0.00355	ft^3/s	228
7 Day 1.11 Year Low Flow	0.324	ft^3/s	44.1
7 Day 1.25 Year Low Flow	0.22	ft^3/s	54.2
7 Day 1.43 Year Low Flow	0.16	ft^3/s	63.3
7 Day 1.67 Year Low Flow	0.118	ft^3/s	72.5
7 Day 2 Year Low Flow	0.0867	ft^3/s	82.2
7 Day 2.5 Year Low Flow	0.0615	ft^3/s	93.3
7 Day 3.33 Year Low Flow	0.041	ft^3/s	107
7 Day 5 Year Low Flow	0.0241	ft^3/s	127
7 Day 10 Year Low Flow	0.0104	ft^3/s	165
7 Day 20 Year Low Flow	0.00437	ft^3/s	217
30 Day 1.11 Year Low Flow	0.473	ft^3/s	34.8
30 Day 1.25 Year Low Flow	0.321	ft^3/s	43.3
30 Day 1.43 Year Low Flow	0.236	ft^3/s	50.9
30 Day 1.67 Year Low Flow	0.178	ft^3/s	58.2
30 Day 2 Year Low Flow	0.135	ft^3/s	65.9
30 Day 2.5 Year Low Flow	0.0997	ft^3/s	74.6
30 Day 3.33 Year Low Flow	0.0704	ft^3/s	85.3
30 Day 5 Year Low Flow	0.0458	ft^3/s	99.8
30 Day 10 Year Low Flow	0.0237	ft^3/s	126
30 Day 20 Year Low Flow	0.0126	ft^3/s	156

Statistic	Value	Unit	SEp
30 Day 50 Year Low Flow	0.00579	ft^3/s	206
30 Day 100 Year Low Flow	0.00339	ft^3/s	252
30 Day 200 Year Low Flow	0.00241	ft^3/s	295

Low-Flow Statistics Citations

Austin, S.H., Krstolic, J.L., and Wiegand, Ute,2011, Low-flow characteristics of Virginia streams: U.S. Geological Survey Scientific Investigations Report 2011–5143, 122 p. + 9 tables on CD. (http://pubs.usgs.gov/sir/2011/5143/)

Application Version: 4.3.0