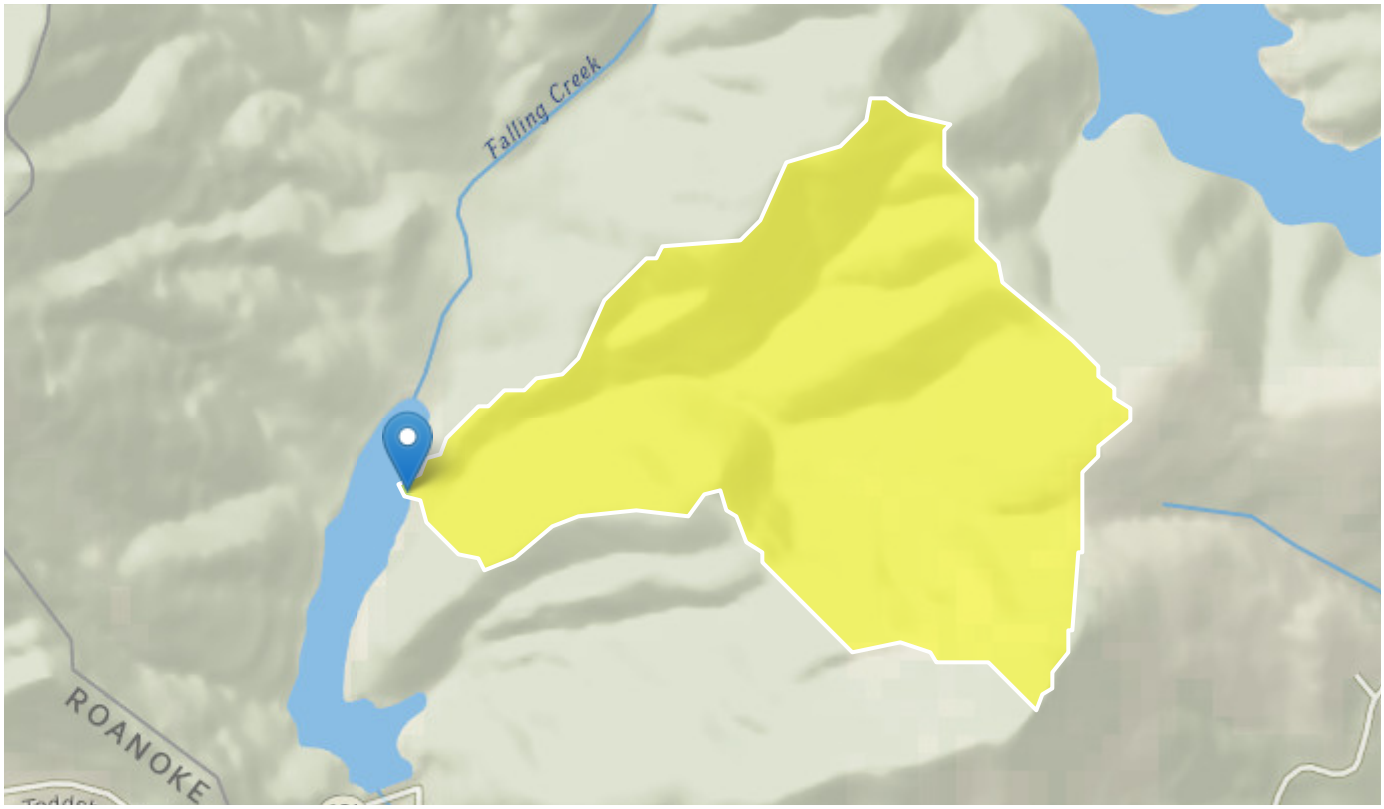
BVR Inflow Subwatershed

Region ID: VA
Workspace ID: VA20190128142202327000
Clicked Point (Latitude, Longitude): 37.30773, -79.83651
Time: 2019-01-28 09:22:17 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.3	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	1987.94	feet
ELEVMAX	Maximum basin elevation	2598.91	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	3.282	inches
LC01BARE	Percentage of area barren land, NLCD 2001 category 31	0	percent
LC01CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2001	0	percent
LC01DEV	Percentage of land-use from NLCD 2001 classes 21-24	0	percent
LC01FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2001	99.94	percent
LC01HERB	Percentage of herbaceous upland from NLCD 2001 class 71	0	percent
LC01IMP	Percent imperviousness of basin area 2001 NLCD	0	percent
LC01WATER	Percentage of open water, class 11, from NLCD 2001	0.06	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	percent
LC06CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2006	0	percent
LC06DEV	Percentage of land-use from NLCD 2006 classes 21-24	0	percent
LC06FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2006	99.85	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	percent
LC06WATER	Percent of open water, class 11, from NLCD 2006	0.15	percent
LC06WETLND	Percent of area covered by wetland using 2006 NLCD	0	percent
LC11BARE	Percentage of barren from NLCD 2011 class 31	0	percent
LC11CRPHAY	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2011	0	percent

Parameter Code	Parameter Description	Value	Unit
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	0	percent
LC11FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2011	99.78	percent
LC11GRASS	Percent of area covered by grassland/herbaceous using 2011 NLCD	0.22	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	0	percent
LC11WATER	Percent of open water, class 11, from NLCD 2011	0	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	1669.34	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	46.075	inches
RELIEF	Maximum - minimum elevation	930	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	0.3	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	57.1	ft^3/s	17
2 33 Year Peak Flood	68.9	ft^3/s	18
5 Year Peak Flood	138	ft^3/s	20
10 Year Peak Flood	224	ft^3/s	24
25 Year Peak Flood	367	ft^3/s	29
50 Year Peak Flood	510	ft^3/s	32
100 Year Peak Flood	748	ft^3/s	30
200 Year Peak Flood	959	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	0.3	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	0.052	ft^3/s	44
1 Day 1.25 Year Low Flow	0.0335	ft^3/s	54.2
1 Day 1.43 Year Low Flow	0.0233	ft^3/s	63.1
1 Day 1.67 Year Low Flow	0.0165	ft^3/s	71.7
1 Day 2 Year Low Flow	0.0115	ft^3/s	81.1
1 Day 2.5 Year Low Flow	0.00769	ft^3/s	91.9
1 Day 3.33 Year Low Flow	0.00475	ft^3/s	106
1 Day 5 Year Low Flow	0.00256	ft^3/s	126
1 Day 10 Year Low Flow	0.000912	ft^3/s	167

Statistic	Value	Unit	SEp
4 Day 1.11 Year Low Flow	0.0533	ft^3/s	44.7
4 Day 1.25 Year Low Flow	0.0348	ft^3/s	54.7
4 Day 1.43 Year Low Flow	0.0244	ft^3/s	63.8
4 Day 1.67 Year Low Flow	0.0173	ft^3/s	73
4 Day 2 Year Low Flow	0.0121	ft^3/s	82.8
4 Day 2.5 Year Low Flow	0.00821	ft^3/s	93.9
4 Day 3.33 Year Low Flow	0.00512	ft^3/s	108
4 Day 5 Year Low Flow	0.00275	ft^3/s	129
4 Day 10 Year Low Flow	0.000987	ft^3/s	169
4 Day 20 Year Low Flow	0.00032	ft^3/s	228
7 Day 1.11 Year Low Flow	0.0573	ft^3/s	44.1
7 Day 1.25 Year Low Flow	0.037	ft^3/s	54.2
7 Day 1.43 Year Low Flow	0.0259	ft^3/s	63.3
7 Day 1.67 Year Low Flow	0.0183	ft^3/s	72.5
7 Day 2 Year Low Flow	0.0129	ft^3/s	82.2
7 Day 2.5 Year Low Flow	0.00869	ft^3/s	93.3
7 Day 3.33 Year Low Flow	0.00545	ft^3/s	107
7 Day 5 Year Low Flow	0.00296	ft^3/s	127
7 Day 10 Year Low Flow	0.00112	ft^3/s	165
7 Day 20 Year Low Flow	0.000406	ft^3/s	217
30 Day 1.11 Year Low Flow	0.0867	ft^3/s	34.8
30 Day 1.25 Year Low Flow	0.0563	ft^3/s	43.3
30 Day 1.43 Year Low Flow	0.0398	ft^3/s	50.9
30 Day 1.67 Year Low Flow	0.029	ft^3/s	58.2
30 Day 2 Year Low Flow	0.0211	ft^3/s	65.9
30 Day 2.5 Year Low Flow	0.015	ft^3/s	74.6
30 Day 3.33 Year Low Flow	0.0101	ft^3/s	85.3
30 Day 5 Year Low Flow	0.00614	ft^3/s	99.8
30 Day 10 Year Low Flow	0.00288	ft^3/s	126
30 Day 20 Year Low Flow	0.00139	ft^3/s	156

Statistic	Value	Unit	SEp
30 Day 50 Year Low Flow	0.000562	ft^3/s	206
30 Day 100 Year Low Flow	0.000301	ft^3/s	252
30 Day 200 Year Low Flow	0.000206	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