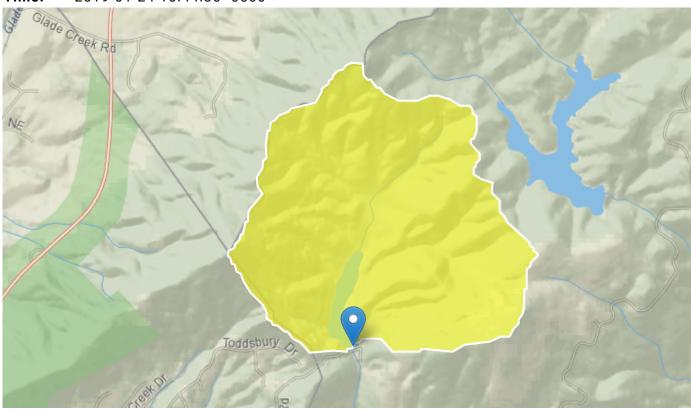
## **FCR Whole Watershed Report**

Region ID: VA

Workspace ID: VA20190124154412070000

Clicked Point (Latitude, Longitude): 37.30280, -79.83700

Time: 2019-01-24 10:44:30 -0500



Basin Characteristics					
Parameter Code	Parameter Description	Value	Unit		
DRNAREA	Area that drains to a point on a stream	1.37	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	1914.91	feet		
ELEVMAX	Maximum basin elevation	2601.24	feet		

	Circumstato		
Parameter Code	Parameter Description	Value	Unit
I24H2Y	Maximum 24-hour precipitation that occurs on average once in 2 years - Equivalent to precipitation intensity index	3.278	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	0.05	percent
LC01FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2001	97.22	percent
LC01HERB	Percentage of herbaceous upland from NLCD 2001 class 71	0	percent
LC01IMP	Percent imperviousness of basin area 2001 NLCD	0.01	percent
LC01WATER	Percentage of open water, class 11, from NLCD 2001	2.73	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	0.04	percent
LC06FORSHB	Percentage of forests and shrub lands, classes 41 to 52, from NLCD 2006	97.22	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	2.74	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  LC11DEV Percentage of developed (urban) land from NI 2011 classes 21-24  LC11FORSHB Percentage of forests and shrub lands, classe to 52, from NLCD 2011  LC11GRASS Percent of area covered by grassland/herbace using 2011 NLCD  LC11IMP Average percentage of impervious area determined from NLCD 2011 impervious datasets	es 41 97.26 eous 0.51 0.00437	Unit percent percent percent
2011 classes 21-24  LC11FORSHB Percentage of forests and shrub lands, classe to 52, from NLCD 2011  LC11GRASS Percent of area covered by grassland/herbace using 2011 NLCD  LC11IMP Average percentage of impervious area	es 41 97.26 eous 0.51 0.00437	percent
to 52, from NLCD 2011  LC11GRASS Percent of area covered by grassland/herbace using 2011 NLCD  LC11IMP Average percentage of impervious area	eous 0.51 0.00437	percent
using 2011 NLCD  LC11IMP Average percentage of impervious area	0.00437	·
		percent
LC11WATER Percent of open water, class 11, from NLCD 2	011 2.21	percent
LC11WETLND Percentage of wetlands, classes 90 and 95, fr NLCD 2011	om 0	percent
LFREGNO Low Flow Region Number	1546	dimensionless
MESZOIC Percent of area within the Mesozoic Basins	0	percent
MINBELEV Minimum basin elevation	1655.59	feet
PDIGMET Percent area of igneous and metamorphic wit the Piedmont Physiographic Region	hin O	percent
PKREGNO Peak Flow Region Number	1553	dimensionless
PRECIP Mean Annual Precipitation	45.689	inches
RELIEF Maximum - minimum elevation	946	feet
STATOM19_8 Percentage of soils with greater than 7.3 percent less than or equal to 19.8 percent organic matter from STATSGO		percent
STATOM55_7 Percentage of soils with greater than 19.8 per and less than or equal to 55.7 percent organic matter from STATSGO		percent
STATSCLAY10 Percentage of soils with less than 10 percent from STATSGO	clay 0	percent
STATSCLY20 Percentage of soils with greater than 10 percent and less than or equal to 20 percent clay from STATSGO		percent
STATSCLY30 Percentage of soils with greater than 20 percent and less than or equal to 30 percent clay from STATSGO		percent
STATSCLY40 Percentage of soils with greater than 30 percent and less than or equal to 40 percent clay from STATSGO		percent

Parameter Code	Dorometer Description	Value	llmit
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

Dook Flow Statistics	Parameters [Rlue Ridge 2011 5144]
Peak-Flow Statistics	Parameters [Blue Ridge 2011 5144]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.37	square miles	0.06	7866

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

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

Statistic	Value	Unit	SEp
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Statistic	Value	Unit	SEp
2 Year Peak Flood	167	ft^3/s	17
2 33 Year Peak Flood	199	ft^3/s	18
5 Year Peak Flood	381	ft^3/s	20
10 Year Peak Flood	599	ft^3/s	24
25 Year Peak Flood	953	ft^3/s	29
50 Year Peak Flood	1300	ft^3/s	32
100 Year Peak Flood	1840	ft^3/s	30
200 Year Peak Flood	2330	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	1.37	square miles	0.09	7393

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

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

1 Day 1.11 Year Low Flow0.279ft^3/s441 Day 1.25 Year Low Flow0.188ft^3/s54.21 Day 1.43 Year Low Flow0.136ft^3/s63.11 Day 1.67 Year Low Flow0.1ft^3/s71.71 Day 2 Year Low Flow0.0726ft^3/s81.11 Day 2.5 Year Low Flow0.0511ft^3/s91.91 Day 3.33 Year Low Flow0.0335ft^3/s1061 Day 5 Year Low Flow0.0195ft^3/s126	Statistic	Value	Unit	SEp
1 Day 1.43 Year Low Flow       0.136       ft^3/s       63.1         1 Day 1.67 Year Low Flow       0.1       ft^3/s       71.7         1 Day 2 Year Low Flow       0.0726       ft^3/s       81.1         1 Day 2.5 Year Low Flow       0.0511       ft^3/s       91.9         1 Day 3.33 Year Low Flow       0.0335       ft^3/s       106	1 Day 1.11 Year Low Flow	0.279	ft^3/s	44
1 Day 1.67 Year Low Flow       0.1       ft^3/s       71.7         1 Day 2 Year Low Flow       0.0726       ft^3/s       81.1         1 Day 2.5 Year Low Flow       0.0511       ft^3/s       91.9         1 Day 3.33 Year Low Flow       0.0335       ft^3/s       106	1 Day 1.25 Year Low Flow	0.188	ft^3/s	54.2
1 Day 2 Year Low Flow       0.0726       ft^3/s       81.1         1 Day 2.5 Year Low Flow       0.0511       ft^3/s       91.9         1 Day 3.33 Year Low Flow       0.0335       ft^3/s       106	1 Day 1.43 Year Low Flow	0.136	ft^3/s	63.1
1 Day 2.5 Year Low Flow 0.0511 ft^3/s 91.9 1 Day 3.33 Year Low Flow 0.0335 ft^3/s 106	1 Day 1.67 Year Low Flow	0.1	ft^3/s	71.7
1 Day 3.33 Year Low Flow 0.0335 ft^3/s 106	1 Day 2 Year Low Flow	0.0726	ft^3/s	81.1
· · · · · · · · · · · · · · · · · · ·	1 Day 2.5 Year Low Flow	0.0511	ft^3/s	91.9
1 Day 5 Year Low Flow 0.0195 ft^3/s 126	1 Day 3.33 Year Low Flow	0.0335	ft^3/s	106
	1 Day 5 Year Low Flow	0.0195	ft^3/s	126
1 Day 10 Year Low Flow 0.00799 ft^3/s 167	1 Day 10 Year Low Flow	0.00799	ft^3/s	167

Statistic	Value	Unit	SEp
4 Day 1.11 Year Low Flow	0.291	ft^3/s	44.7
4 Day 1.25 Year Low Flow	0.199	ft^3/s	54.7
4 Day 1.43 Year Low Flow	0.145	ft^3/s	63.8
4 Day 1.67 Year Low Flow	0.107	ft^3/s	73
4 Day 2 Year Low Flow	0.0783	ft^3/s	82.8
4 Day 2.5 Year Low Flow	0.0556	ft^3/s	93.9
4 Day 3.33 Year Low Flow	0.0369	ft^3/s	108
4 Day 5 Year Low Flow	0.0214	ft^3/s	129
4 Day 10 Year Low Flow	0.00886	ft^3/s	169
4 Day 20 Year Low Flow	0.00339	ft^3/s	228
7 Day 1.11 Year Low Flow	0.313	ft^3/s	44.1
7 Day 1.25 Year Low Flow	0.212	ft^3/s	54.2
7 Day 1.43 Year Low Flow	0.155	ft^3/s	63.3
7 Day 1.67 Year Low Flow	0.114	ft^3/s	72.5
7 Day 2 Year Low Flow	0.0836	ft^3/s	82.2
7 Day 2.5 Year Low Flow	0.0593	ft^3/s	93.3
7 Day 3.33 Year Low Flow	0.0395	ft^3/s	107
7 Day 5 Year Low Flow	0.0232	ft^3/s	127
7 Day 10 Year Low Flow	0.00995	ft^3/s	165
7 Day 20 Year Low Flow	0.00418	ft^3/s	217
30 Day 1.11 Year Low Flow	0.458	ft^3/s	34.8
30 Day 1.25 Year Low Flow	0.311	ft^3/s	43.3
30 Day 1.43 Year Low Flow	0.229	ft^3/s	50.9
30 Day 1.67 Year Low Flow	0.172	ft^3/s	58.2
30 Day 2 Year Low Flow	0.13	ft^3/s	65.9
30 Day 2.5 Year Low Flow	0.0963	ft^3/s	74.6
30 Day 3.33 Year Low Flow	0.0679	ft^3/s	85.3
30 Day 5 Year Low Flow	0.0441	ft^3/s	99.8
30 Day 10 Year Low Flow	0.0228	ft^3/s	126
30 Day 20 Year Low Flow	0.0121	ft^3/s	156

Statistic	Value	Unit	SEp
30 Day 50 Year Low Flow	0.00555	ft^3/s	206
30 Day 100 Year Low Flow	0.00324	ft^3/s	252
30 Day 200 Year Low Flow	0.0023	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/)

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Application Version: 4.3.0