

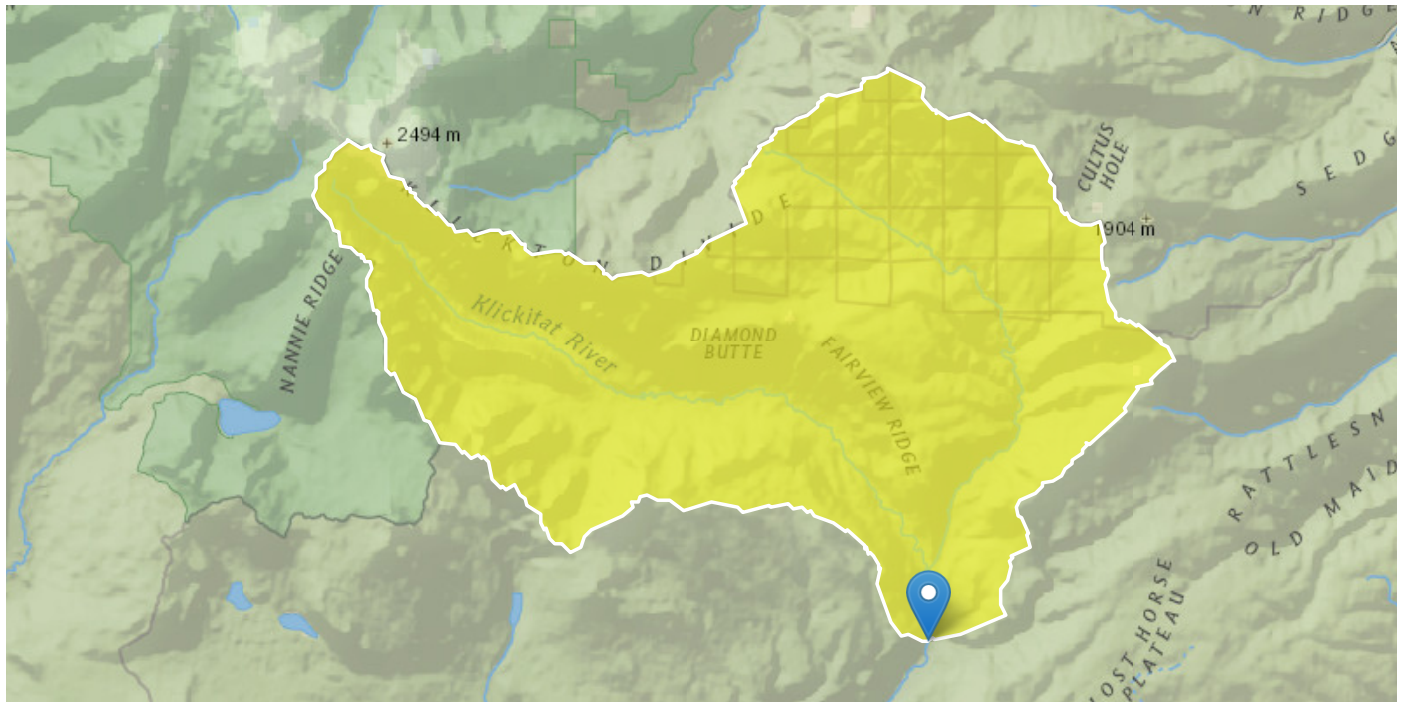
Howard Lake Rd 32 StreamStats Report

Region ID: WA

Workspace ID: WA20211108203330692000

Clicked Point (Latitude, Longitude): 46.35655, -121.19422

Time: 2021-11-08 12:33:51 -0800



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	88.72	square miles
PRECPRIS10	Basin average mean annual precipitation for 1981 to 2010 from PRISM	39.9	inches
BSLDEM30M	Mean basin slope computed from 30 m DEM	29.7	percent
CANOPY_PCT	Percentage of drainage area covered by canopy as described in OK SIR 2009_5267	60.2	percent
ELEV	Mean Basin Elevation	4910	feet
ELEVMAX	Maximum basin elevation	8100	feet
MINBELEV	Minimum basin elevation	3240	feet
NFSL30	North-Facing Slopes Greater Than 30 Percent	10	percent
PRECIP	Mean Annual Precipitation	64.3	inches
RELIEF	Maximum - minimum elevation	4860	feet
SLOP30_30M	Percent area with slopes greater than 30 percent from 30-meter DEM.	43.6	percent

Peak-Flow Statistics Parameters [100.0 Percent (88.7 square miles) Peak Region 4 2016 5118]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	88.72	square miles	0.18	2230
PRECPRIS10	Mean Annual Precip PRISM 1981 2010	39.9	inches	11.9	187

Peak-Flow Statistics Flow Report [100.0 Percent (88.7 square miles) Peak Region 4 2016 5118]

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

Statistic	Value	Unit	PII	Plu	ASEp
50-percent AEP flood	1790	ft ³ /s	630	5080	52.5
20-percent AEP flood	3100	ft ³ /s	1120	8580	50.6
10-percent AEP flood	4190	ft ³ /s	1510	11600	50.5
4-percent AEP flood	5690	ft ³ /s	1990	16300	51.7
2-percent AEP flood	6910	ft ³ /s	2340	20400	52.9
1-percent AEP flood	8220	ft ³ /s	2700	25000	54.2
0.5-percent AEP flood	9520	ft ³ /s	3040	29800	55.5
0.2-percent AEP flood	11600	ft ³ /s	3520	38200	58

Peak-Flow Statistics Citations

Mastin, M.C., Konrad, C.P., Veilleux, A.G., and Tecca, A.E., 2016, Magnitude, frequency, and trends of floods at gaged and ungaged sites in Washington, based on data through water year 2014 (ver 1.1, October 2016): U.S. Geological Survey Scientific Investigations Report 2016-5118, 70 p. (<http://dx.doi.org/10.3133/sir20165118>)

Bankfull Statistics Parameters [Pacific Mountain System D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	88.72	square miles	6.1776	8079.9147

Bankfull Statistics Parameters [Cascade Sierra Mountains P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	88.72	square miles	43.89957	8079.95331

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	88.72	square miles	0.07722	59927.7393

Bankfull Statistics Parameters [Western Cordillera CastroJackson 2001]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	88.72	square miles	19.6	5090

Bankfull Statistics Flow Report [Pacific Mountain System D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	79.3	ft
Bieger_D_channel_depth	3.73	ft
Bieger_D_channel_cross_sectional_area	324	ft ²

Bankfull Statistics Flow Report [Cascade Sierra Mountains P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	85	ft
Bieger_P_channel_depth	3.19	ft
Bieger_P_channel_cross_sectional_area	269	ft ²

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	60.1	ft
Bieger_USA_channel_depth	3.13	ft
Bieger_USA_channel_cross_sectional_area	193	ft ²

Bankfull Statistics Flow Report [Western Cordillera CastroJackson 2001]

Statistic	Value	Unit
Bankfull Width	61.8	ft
Bankfull Depth	2.68	ft
Bankfull Area	137	ft ²
Bankfull Streamflow	818	ft ²

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bieger_D_channel_width	79.3	ft
Bieger_D_channel_depth	3.73	ft
Bieger_D_channel_cross_sectional_area	324	ft ²
Bieger_P_channel_width	85	ft
Bieger_P_channel_depth	3.19	ft
Bieger_P_channel_cross_sectional_area	269	ft ²

Statistic	Value	Unit
Bieger_USA_channel_width	60.1	ft
Bieger_USA_channel_depth	3.13	ft
Bieger_USA_channel_cross_sectional_area	193	ft ²
Bankfull Width	61.8	ft
Bankfull Depth	2.68	ft
Bankfull Area	137	ft ²
Bankfull Streamflow	818	ft ²

Bankfull Statistics Citations

Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G., 2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p.
https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_campaign=PDFCover
Castro, J.M, and Jackson, P.L. Castro, J.M, and Jackson, P.L., 2001, Bankfull Discharge Recurrence Intervals and Regional Hydraulic Geometry Relationships: Patterns in the Pacific Northwest, USA, Journal of the American Water Resources Association, Volume 37, No. 5, 14 p.
<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1752-1688.2001.tb03636.x>

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Application Version: 4.6.2

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2