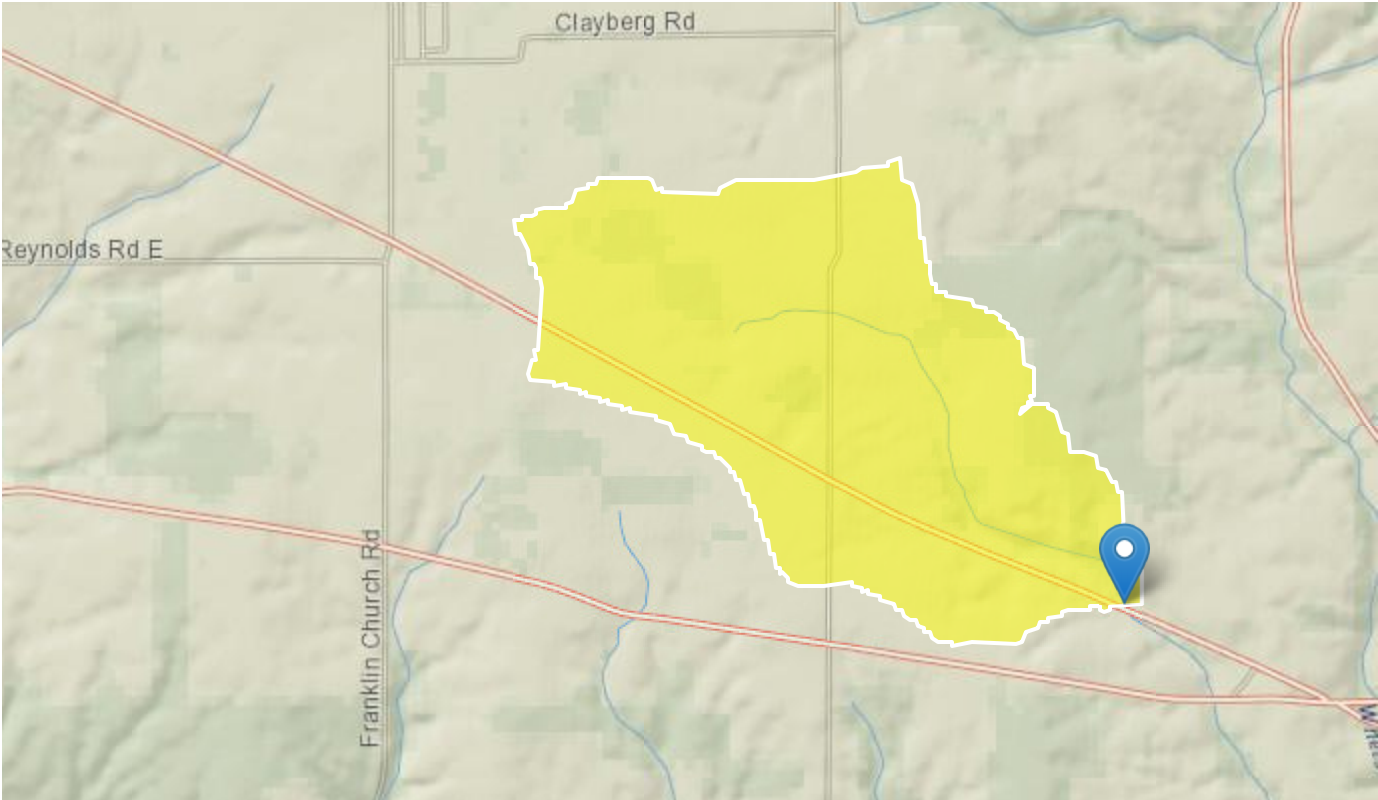


StreamStats Report

Region ID: OH
Workspace ID: OH20240808150709184000
Clicked Point (Latitude, Longitude): 40.89113, -82.44278
Time: 2024-08-08 11:07:37 -0400



 Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CSL1085LFP	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 2D grid	39.8	feet per mi
DRNAREA	Area that drains to a point on a stream	0.87	square miles
FOREST	Percentage of area covered by forest	16.8	percent
LAT_CENT	Latitude of Basin Centroid	40.898	decimal degrees

Parameter Code	Parameter Description	Value	Unit
LC92STOR	Percentage of water bodies and wetlands determined from the NLCD	1.55	percent
LONG_CENT	Longitude Basin Centroid	82.4552	decimal degrees
OHREGA	Ohio Region A Indicator	1	dimensionless
OHREGC	Ohio Region C Indicator	0	dimensionless
PRECIPCENT	Mean Annual Precip at Basin Centroid	36.3	inches
STREAM_VARG	Streamflow variability index as defined in WRIR 02-4068, computed from regional grid	0.57	dimensionless

➤ Peak-Flow Statistics

Peak-Flow Statistics Parameters [Peak Flow Full Model Reg A SIR2019 5018]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.04	5989
OHREGC	Ohio Region C Indicator 1 if in C else 0	0	dimensionless	0	1
OHREGA	Ohio Region A Indicator 1 if in A else 0	1	dimensionless	0	1
CSL1085LFP	Stream Slope 10 and 85 Longest Flow Path	39.8	feet per mi	1.53	516
LC92STOR	Percent Storage from NLCD1992	1.55	percent	0	25.35

Peak-Flow Statistics Flow Report [Peak Flow Full Model Reg A SIR2019 5018]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct (other -- see report)

Statistic	Value	Unit	PIL	PIU	ASEp
50-percent AEP flood	90	ft ³ /s	47.6	170	40.1
20-percent AEP flood	157	ft ³ /s	86.7	284	37.2
10-percent AEP flood	211	ft ³ /s	116	384	37.6

Statistic	Value	Unit	PIL	PIU	ASEp
4-percent AEP flood	289	ft ³ /s	158	530	38.1
2-percent AEP flood	353	ft ³ /s	190	655	37.8
1-percent AEP flood	423	ft ³ /s	226	793	39.6
0.2-percent AEP flood	606	ft ³ /s	320	1150	40.3

Peak-Flow Statistics Citations

Koltun, G.F.,2019, Flood-frequency estimates for Ohio streamgages based on data through water year 2015 and techniques for estimating flood-frequency characteristics of rural, unregulated Ohio streams: U.S. Geological Survey Scientific Investigations Report 2019–5018, 25 p. (<https://dx.doi.org/10.3133/sir20195018>)

➤ Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region A 2012 5138]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	1	1250
STREAM_VARG	Streamflow Variability Index from Grid	0.57	dimensionless	0.24	1.12

Low-Flow Statistics Disclaimers [Low Flow Region A 2012 5138]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region A 2012 5138]

Statistic	Value	Unit
1 Day 10 Year Low Flow	0.0103	ft ³ /s
7 Day 10 Year Low Flow	0.0134	ft ³ /s
30 Day 10 Year Low Flow	0.0213	ft ³ /s
90 Day 10 Year Low Flow	0.0343	ft ³ /s

Low-Flow Statistics Citations

Koltun, G.F., and Kula, S.P.,2013, Methods for estimating selected low-flow statistics and development of annual flow-duration statistics for Ohio: U.S. Geological Survey Scientific Investigations Report 2012–5138, 195 p. (<http://pubs.usgs.gov/sir/2012/5138/>)

➤ Flow-Duration Statistics

Flow-Duration Statistics Parameters [Low Flow Region A 2012 5138]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	1	1250
STREAM_VARG	Streamflow Variability Index from Grid	0.57	dimensionless	0.24	1.12

Flow-Duration Statistics Disclaimers [Low Flow Region A 2012 5138]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Flow-Duration Statistics Flow Report [Low Flow Region A 2012 5138]

Statistic	Value	Unit
80 Percent Duration	0.0738	ft ³ /s

Flow-Duration Statistics Citations

Koltun, G.F., and Kula, S.P.,2013, Methods for estimating selected low-flow statistics and development of annual flow-duration statistics for Ohio: U.S. Geological Survey Scientific Investigations Report 2012–5138, 195 p. (<http://pubs.usgs.gov/sir/2012/5138/>)

➤ Annual Flow Statistics

Annual Flow Statistics Parameters [Low Flow LatLE 41.2 wri02 4068]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.12	7422
LAT_CENT	Latitude of Basin Centroid	40.898	decimal degrees	38.68	41.2

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
PRECIPCENT	Mean Annual Precip at Basin Centroid	36.3	inches	34	43.2

Annual Flow Statistics Flow Report [Low Flow LatLE 41.2 wri02 4068]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct (other -- see report)

Statistic	Value	Unit	SE	ASEp
Mean Annual Flow	0.838	ft^3/s	11.4	11.4

Annual Flow Statistics Citations

Koltun, G. F., and Whitehead, M. T., 2002, Techniques for Estimating Selected Streamflow Characteristics of Rural, Unregulated Streams in Ohio: U. S. Geological Survey Water-Resources Investigations Report 02-4068, 50 p (<https://pubs.er.usgs.gov/publication/wri024068>)

➤ Monthly Flow Statistics

Monthly Flow Statistics Parameters [Low Flow LatLE 41.2 wri02 4068]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.12	7422
LC92STOR	Percent Storage from NLCD1992	1.55	percent	0	19
PRECIPCENT	Mean Annual Precip at Basin Centroid	36.3	inches	34	43.2
FOREST	Percent Forest	16.8	percent	0	99.1
LAT_CENT	Latitude of Basin Centroid	40.898	decimal degrees	38.68	41.2
STREAM_VARG	Streamflow Variability Index from Grid	0.57	dimensionless	0.25	1.13

Monthly Flow Statistics Flow Report [Low Flow LatLE 41.2 wri02 4068]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct (other -- see report)

Statistic	Value	Unit	SE	ASEp
January Mean Flow	1.17	ft ³ /s	16.6	16.6
February Mean Flow	1.46	ft ³ /s	11.9	11.9
March Mean Flow	1.62	ft ³ /s	14	14
April Mean Flow	1.52	ft ³ /s	11.2	11.2
May Mean Flow	0.904	ft ³ /s	19.5	19.5
June Mean Flow	0.604	ft ³ /s	27	27
July Mean Flow	0.364	ft ³ /s	28.2	28.2
August Mean Flow	0.231	ft ³ /s	36.8	36.8
September Mean Flow	0.141	ft ³ /s	43.6	43.6
October Mean Flow	0.166	ft ³ /s	50.8	50.8
November Mean Flow	0.375	ft ³ /s	37.5	37.5
December Mean Flow	0.813	ft ³ /s	21.8	21.8

Monthly Flow Statistics Citations

Koltun, G. F., and Whitehead, M. T., 2002, Techniques for Estimating Selected Streamflow Characteristics of Rural, Unregulated Streams in Ohio: U. S. Geological Survey Water-Resources Investigations Report 02-4068, 50 p
(<https://pubs.er.usgs.gov/publication/wri024068>)

➤ General Flow Statistics

General Flow Statistics Parameters [Low Flow LatLE 41.2 wri02 4068]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.12	7422
LC92STOR	Percent Storage from NLCD1992	1.55	percent	0	19
STREAM_VARG	Streamflow Variability Index from Grid	0.57	dimensionless	0.25	1.13
LAT_CENT	Latitude of Basin Centroid	40.898	decimal degrees	38.68	41.2

General Flow Statistics Flow Report [Low Flow LatLE 41.2 wri02 4068]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct (other -- see report)

Statistic	Value	Unit	SE	ASEp
Harmonic Mean Streamflow	0.0946	ft^3/s	65.9	65.9

General Flow Statistics Citations

Koltun, G. F., and Whitehead, M. T., 2002, Techniques for Estimating Selected Streamflow Characteristics of Rural, Unregulated Streams in Ohio: U. S. Geological Survey Water-Resources Investigations Report 02-4068, 50 p
(<https://pubs.er.usgs.gov/publication/wri024068>)

➤ Flow Percentile Statistics

Flow Percentile Statistics Parameters [Low Flow LatLE 41.2 wri02 4068]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.12	7422
LC92STOR	Percent Storage from NLCD1992	1.55	percent	0	19
STREAM_VARG	Streamflow Variability Index from Grid	0.57	dimensionless	0.25	1.13
LAT_CENT	Latitude of Basin Centroid	40.898	decimal degrees	38.68	41.2
LONG_CENT	Longitude of Basin Centroid	82.4552	decimal degrees	80.53	84.6

Flow Percentile Statistics Flow Report [Low Flow LatLE 41.2 wri02 4068]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct (other -- see report)

Statistic	Value	Unit	SE	ASEp
25th Percentile Flow	0.168	ft^3/s	29.2	29.2
50th Percentile Flow Median	0.373	ft^3/s	40.3	40.3
75th Percentile Flow	0.846	ft^3/s	47.9	47.9

Koltun, G. F., and Whitehead, M. T., 2002, Techniques for Estimating Selected Streamflow Characteristics of Rural, Unregulated Streams in Ohio: U. S. Geological Survey Water-Resources Investigations Report 02-4068, 50 p
(<https://pubs.er.usgs.gov/publication/wri024068>)

➤ Bankfull Statistics

Bankfull Statistics Parameters [Interior Plains D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.19305	59927.7393

Bankfull Statistics Parameters [Central Lowland P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.200772	59927.66594

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Interior Plains D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	11.2	ft
Bieger_D_channel_depth	1.46	ft
Bieger_D_channel_cross_sectional_area	20.2	ft^2

Bankfull Statistics Flow Report [Central Lowland P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	12.9	ft
Bieger_P_channel_depth	1.81	ft
Bieger_P_channel_cross_sectional_area	19.5	ft^2

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	11.8	ft
Bieger_USA_channel_depth	1.17	ft
Bieger_USA_channel_cross_sectional_area	15.9	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bieger_D_channel_width	11.2	ft
Bieger_D_channel_depth	1.46	ft
Bieger_D_channel_cross_sectional_area	20.2	ft^2
Bieger_P_channel_width	12.9	ft
Bieger_P_channel_depth	1.81	ft
Bieger_P_channel_cross_sectional_area	19.5	ft^2
Bieger_USA_channel_width	11.8	ft
Bieger_USA_channel_depth	1.17	ft
Bieger_USA_channel_cross_sectional_area	15.9	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_cam

➤ Probability Statistics

Probability Statistics Parameters [P zero Flow 2012 5138]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	1	1250
STREAM_VARG	Streamflow Variability Index from Grid	0.57	dimensionless	0.24	1.12

Probability Statistics Disclaimers [P zero Flow 2012 5138]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Probability Statistics Flow Report [P zero Flow 2012 5138]

Statistic	Value	Unit
Probability zero flow 1Day	0.0382	dim
Probability zero flow 7Day	0.0167	dim
Probability zero flow 30Day	0.000731	dim

Probability Statistics Citations

Koltun, G.F., and Kula, S.P.,2013, Methods for estimating selected low-flow statistics and development of annual flow-duration statistics for Ohio: U.S. Geological Survey Scientific Investigations Report 2012–5138, 195 p. (<http://pubs.usgs.gov/sir/2012/5138/>)

➤ Maximum Probable Flood Statistics

Maximum Probable Flood Statistics Parameters [Crippen Bue Region 6]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.87	square miles	0.1	10000

Maximum Probable Flood Statistics Flow Report [Crippen Bue Region 6]

Statistic	Value	Unit
Maximum Flood Crippen Bue Regional	6150	ft ³ /s

Maximum Probable Flood Statistics Citations

Crippen, J.R. and Bue, Conrad D.1977, Maximum Floodflows in the Conterminous United States, Geological Survey Water-Supply Paper 1887, 52p. (<https://pubs.usgs.gov/wsp/1887/report.pdf>)

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StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1