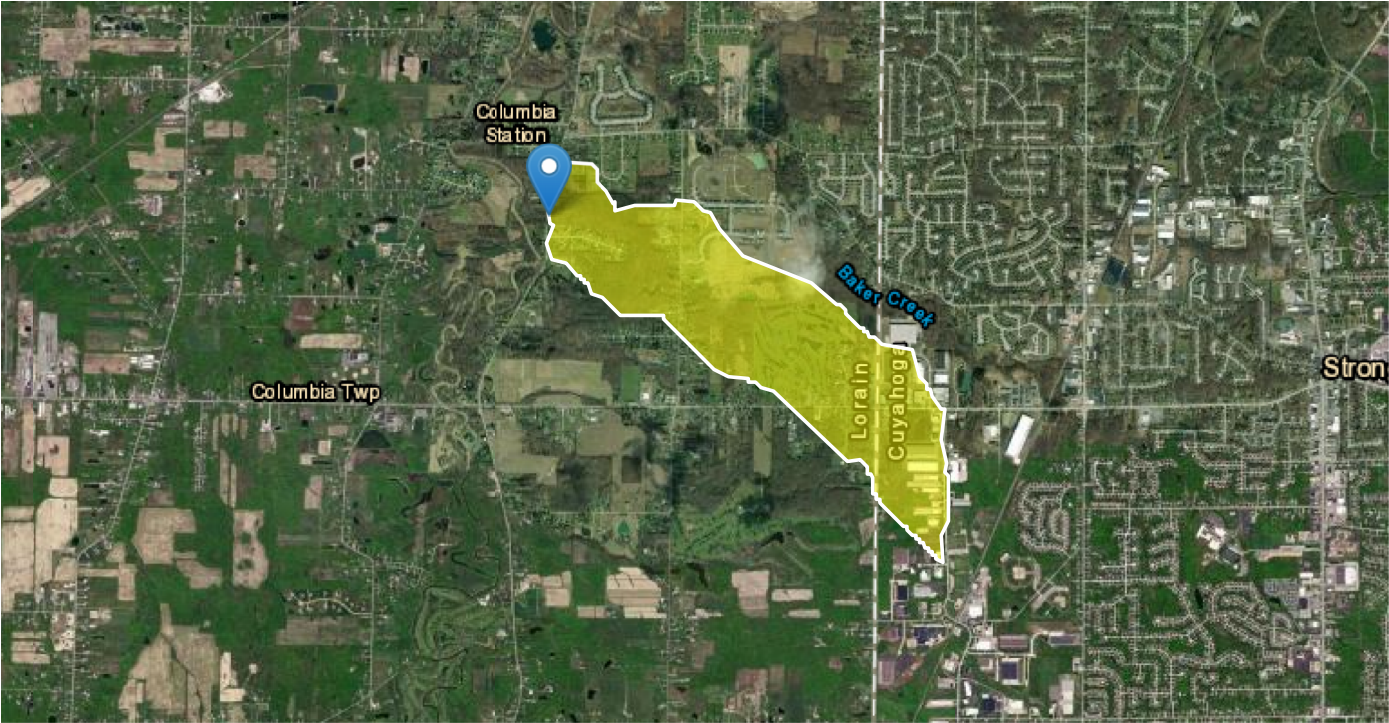


StreamStats Report

Region ID: OH
Workspace ID: OH20241003191923742000
Clicked Point (Latitude, Longitude): 41.32623, -81.90885
Time: 2024-10-03 15:19:45 -0400



 Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CENTROIDX	Basin centroid horizontal (x) location in state plane coordinates	425638.6	meters
CENTROIDY	Basin centroid vertical (y) location in state plane units	4574394	meters
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	40.8	feet per mi
DRNAREA	Area that drains to a point on a stream	1.29	square miles
FOREST	Percentage of area covered by forest	36.8	percent
LAT_CENT	Latitude of Basin Centroid	41.3176	decimal degrees

Parameter Code	Parameter Description	Value	Unit
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	55.9	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	10.2	percent
LC92STOR	Percentage of water bodies and wetlands determined from the NLCD	2.94	percent
LFPLENGTH	Length of longest flow path	3.28	miles
LONG_CENT	Longitude Basin Centroid	-81.8885	decimal degrees
LONG_OUT	Longitude of Basin Outlet	-81.908874	degrees
OH_SVI2024	Mapped Ohio Streamflow Variability Index as defined in SIR 2024-5075	0.59	Log base 10
OHREGA	Ohio Region A Indicator	1	dimensionless
OHREGC	Ohio Region C Indicator	0	dimensionless
PRECIPCENT	Mean Annual Precip at Basin Centroid	34.7	inches
STREAM_VARG	Streamflow variability index as defined in WRIR 02-4068, computed from regional grid	0.71	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	1.29	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	40.8	feet per mi	1.53	516
LC92STOR	Percent Storage from NLCD1992	2.94	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, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	PIL	PIU	ASEp
50-percent AEP flood	116	ft^3/s	61.3	220	40.1

Statistic	Value	Unit	PIL	PIU	ASEp
20-percent AEP flood	198	ft^3/s	109	359	37.2
10-percent AEP flood	263	ft^3/s	144	479	37.6
4-percent AEP flood	355	ft^3/s	193	652	38.1
2-percent AEP flood	430	ft^3/s	232	798	37.8
1-percent AEP flood	511	ft^3/s	272	959	39.6
0.2-percent AEP flood	722	ft^3/s	381	1370	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 [Statewide annual one day ten year low flow with SVI less than or equal to 0.71 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Low-Flow Statistics Parameters [Statewide annual seven day ten year low flow with SVI less than or equal to 0.73 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Low-Flow Statistics Parameters [Statewide annual thirty day ten year low flow with SVI less than or equal to 0.85 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Low-Flow Statistics Parameters [Statewide annual ninety day ten year low flow with SVI less than or equal to 1.02 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Low-Flow Statistics Flow Report [Statewide annual one day ten year low flow with SVI less than or equal to 0.71 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
1 Day 10 Year Low Flow	0.0145	ft^3/s	0.97	0.82

Low-Flow Statistics Flow Report [Statewide annual seven day ten year low flow with SVI less than or equal to 0.73 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
7 Day 10 Year Low Flow	0.0184	ft^3/s	0.97	0.86

Low-Flow Statistics Flow Report [Statewide annual thirty day ten year low flow with SVI less than or equal to 0.85 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
30 Day 10 Year Low Flow	0.0371	ft^3/s	1.17	0.8

Low-Flow Statistics Flow Report [Statewide annual ninety day ten year low flow with SVI less than or equal to 1.02 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
90 Day 10 Year Low Flow	0.0802	ft^3/s	2.41	0.74

Low-Flow Statistics Flow Report [Area-Averaged]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
1 Day 10 Year Low Flow	0.0145	ft^3/s	0.97	0.82
7 Day 10 Year Low Flow	0.0184	ft^3/s	0.97	0.86
30 Day 10 Year Low Flow	0.0371	ft^3/s	1.17	0.8
90 Day 10 Year Low Flow	0.0802	ft^3/s	2.41	0.74

Low-Flow Statistics Citations

Branden L. VonIns and G.F. Koltun2024, Methods for Estimating Selected Low-Flow Statistics for Ungaged Locations in Ohio and Low-Flow Statistics Computed for Streamflow Gages in Ohio, Water Years 1975–2020; U.S. Geological Survey Scientific Information Report 2024-5075 (<https://pubs.usgs.gov/sir20245075>)

➤ Flow-Duration Statistics

Flow-Duration Statistics Parameters [Statewide 80% duration flow from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0	1.817873
LONG_OUT	Longitude of Basin Outlet	-81.908874	decimal degrees	-86.0944222	-79.7825507

Flow-Duration Statistics Flow Report [Statewide 80% duration flow from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
80 Percent Duration	2.58	ft^3/s	8.14	0.83

Flow-Duration Statistics Citations

Branden L. VonIns and G.F. Koltun2024, Methods for Estimating Selected Low-Flow Statistics for Ungaged Locations in Ohio and Low-Flow Statistics Computed for Streamflow Gages in Ohio, Water Years 1975–2020; U.S. Geological Survey Scientific Information Report 2024-5075 (<https://pubs.usgs.gov/sir20245075>)

➤ Annual Flow Statistics

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.12	7422
LAT_CENT	Latitude of Basin Centroid	41.3176	decimal degrees	41.2	41.59
PRECIPCENT	Mean Annual Precip at Basin Centroid	34.7	inches	34	43.2

Annual Flow Statistics Flow Report [Low Flow LatGT 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, RMSE: Root Mean Squared Error, PseudoR²: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
Mean Annual Flow	1.14	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 LatGT 41.2 wri02 4068]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.12	7422
LC92STOR	Percent Storage from NLCD1992	2.94	percent	0	19
PRECIPCENT	Mean Annual Precip at Basin Centroid	34.7	inches	34	43.2
FOREST	Percent Forest	36.8	percent	0	99.1
LAT_CENT	Latitude of Basin Centroid	41.3176	decimal degrees	41.2	41.59
STREAM_VARG	Streamflow Variability Index from Grid	0.71	dimensionless	0.25	1.13

Monthly Flow Statistics Flow Report [Low Flow LatGT 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, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
January Mean Flow	1.64	ft^3/s	16.6	16.6
February Mean Flow	2.51	ft^3/s	11.9	11.9
March Mean Flow	2.8	ft^3/s	14	14
April Mean Flow	2.34	ft^3/s	11.2	11.2
May Mean Flow	1.71	ft^3/s	19.5	19.5
June Mean Flow	0.794	ft^3/s	27	27
July Mean Flow	0.455	ft^3/s	28.2	28.2
August Mean Flow	0.237	ft^3/s	36.8	36.8
September Mean Flow	0.158	ft^3/s	43.6	43.6
October Mean Flow	0.554	ft^3/s	50.8	50.8
November Mean Flow	1.05	ft^3/s	37.5	37.5
December Mean Flow	1.85	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>)

➤ Seasonal Flow Statistics

Seasonal Flow Statistics Parameters [Statewide May to November one day ten year low flow with SVI less than or equal to 0.71 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Seasonal Flow Statistics Parameters [Statewide May to November seven day ten year low flow

with SVI less than or equal to 0.73 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Seasonal Flow Statistics Parameters [Statewide May to November thirty day ten year low flow with SVI less than or equal to 0.86 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Seasonal Flow Statistics Parameters [Statewide May to November ninety day ten year low flow with SVI less than or equal to 1.02 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	41	1.23

Seasonal Flow Statistics Parameters [Statewide September to November one day ten year low flow with SVI less than or equal to 0.73 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Seasonal Flow Statistics Parameters [Statewide September to November seven day ten year low flow with SVI less than or equal to 0.74 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Seasonal Flow Statistics Parameters [Statewide September to November thirty day ten year low flow with SVI less than or equal to 0.94 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

Seasonal Flow Statistics Parameters [Statewide September to November ninety day ten year low flow from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0	1.817873
LONG_OUT	Longitude of Basin Outlet	-81.908874	decimal degrees	-86.0944222	-79.7825507

Seasonal Flow Statistics Parameters [Statewide December to February low flows from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0	1.817873
LONG_OUT	Longitude of Basin Outlet	-81.908874	decimal degrees	-86.0944222	-79.7825507

Seasonal Flow Statistics Flow Report [Statewide May to November one day ten year low flow with SVI less than or equal to 0.71 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
1 Day 10 Year lowflow May to Nov	0.0145	ft^3/s	0.97	0.84

Seasonal Flow Statistics Flow Report [Statewide May to November seven day ten year low flow with SVI less than or equal to 0.73 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo

R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
7 Day 10 Year lowflow May to Nov	0.0184	ft^3/s	0.95	0.87

Seasonal Flow Statistics Flow Report [Statewide May to November thirty day ten year low flow with SVI less than or equal to 0.86 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
30 Day 10 Year lowflow May to Nov	0.0371	ft^3/s	1.15	0.82

Seasonal Flow Statistics Disclaimers [Statewide May to November ninety day ten year low flow with SVI less than or equal to 1.02 from SIR 2024-5075]

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

Seasonal Flow Statistics Flow Report [Statewide May to November ninety day ten year low flow with SVI less than or equal to 1.02 from SIR 2024-5075]

Statistic	Value	Unit
90 Day 10 Year lowflow May to Nov	0.0802	ft^3/s

Seasonal Flow Statistics Flow Report [Statewide September to November one day ten year low flow with SVI less than or equal to 0.73 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
1 Day 10 Year lowflow Sep to Nov	0.0171	ft^3/s	1.06	0.85

Seasonal Flow Statistics Flow Report [Statewide September to November seven day ten year low flow with SVI less than or equal to 0.74 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
7 Day 10 Year lowflow Sep to Nov	0.0216	ft^3/s	1.02	0.87

Seasonal Flow Statistics Flow Report [Statewide September to November thirty day ten year low flow with SVI less than or equal to 0.94 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
30 Day 10 Year lowflow Sep to Nov	0.0461	ft^3/s	1.77	0.76

Seasonal Flow Statistics Flow Report [Statewide September to November ninety day ten year low flow from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
90 Day 10 Year lowflow Sep to Nov	5	ft^3/s	10.9	0.72

Seasonal Flow Statistics Flow Report [Statewide December to February low flows from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
1 Day 10 Year lowflow Dec to Feb	0.713	ft^3/s	7.67	0.75
7 Day 10 Year lowflow Dec to Feb	1.37	ft^3/s	8.48	0.78
30 Day 10 Year lowflow Dec to Feb	2.25	ft^3/s	19.4	0.78
90 Day 10 Year lowflow Dec to Feb	8.39	ft^3/s	65.3	0.81

Seasonal Flow Statistics Flow Report [Area-Averaged]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
1 Day 10 Year lowflow May to Nov	0.0145	ft^3/s	0.97	0.84
7 Day 10 Year lowflow May to Nov	0.0184	ft^3/s	0.95	0.87
30 Day 10 Year lowflow May to Nov	0.0371	ft^3/s	1.15	0.82
90 Day 10 Year lowflow May to Nov	0.0802	ft^3/s		
1 Day 10 Year lowflow Sep to Nov	0.0171	ft^3/s	1.06	0.85
7 Day 10 Year lowflow Sep to Nov	0.0216	ft^3/s	1.02	0.87
30 Day 10 Year lowflow Sep to Nov	0.0461	ft^3/s	1.77	0.76

Statistic	Value	Unit	RMSE	PseudoR^2
90 Day 10 Year lowflow Sep to Nov	5	ft^3/s	10.9	0.72
1 Day 10 Year lowflow Dec to Feb	0.713	ft^3/s	7.67	0.75
7 Day 10 Year lowflow Dec to Feb	1.37	ft^3/s	8.48	0.78
30 Day 10 Year lowflow Dec to Feb	2.25	ft^3/s	19.4	0.78
90 Day 10 Year lowflow Dec to Feb	8.39	ft^3/s	65.3	0.81

Seasonal Flow Statistics Citations

Branden L. VonIns and G.F. Koltun2024, Methods for Estimating Selected Low-Flow Statistics for Ungaged Locations in Ohio and Low-Flow Statistics Computed for Streamflow Gages in Ohio, Water Years 1975–2020; U.S. Geological Survey Scientific Information Report 2024-5075 (<https://pubs.usgs.gov/sir20245075>)

➤ General Flow Statistics

General Flow Statistics Parameters [Statewide harmonic mean flow with SVI less than or equal to 0.91 from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0.41	1.23

General Flow Statistics Flow Report [Statewide harmonic mean flow with SVI less than or equal to 0.91 from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	RMSE	PseudoR^2
Harmonic Mean Streamflow	0.205	ft^3/s	8.21	0.84

General Flow Statistics Citations

Branden L. VonIns and G.F. Koltun2024, Methods for Estimating Selected Low-Flow Statistics for Ungaged Locations in Ohio and Low-Flow Statistics Computed for Streamflow Gages in Ohio, Water Years 1975–2020; U.S. Geological Survey Scientific Information Report 2024-5075 (<https://pubs.usgs.gov/sir20245075>)

➤ Flow Percentile Statistics

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.12	7422
LC92STOR	Percent Storage from NLCD1992	2.94	percent	0	19
STREAM_VARG	Streamflow Variability Index from Grid	0.71	dimensionless	0.25	1.13
LAT_CENT	Latitude of Basin Centroid	41.3176	decimal degrees	41.2	41.59
LONG_CENT	Longitude of Basin Centroid	-81.8885	decimal degrees	80.53	84.6

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.12	7422
LC92STOR	Percent Storage from NLCD1992	2.94	percent	0	19
STREAM_VARG	Streamflow Variability Index from Grid	0.71	dimensionless	0.25	1.13
LAT_CENT	Latitude of Basin Centroid	41.3176	decimal degrees	38.68	41.2
LONG_CENT	Longitude of Basin Centroid	-81.8885	decimal degrees	80.53	84.6

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

Statistic	Value	Unit
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Flow Percentile Statistics Flow Report [Low Flow LatLE 41.2 wri02 4068]

Statistic	Value	Unit
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Flow Percentile Statistics Citations

➤ Bankfull Statistics

Bankfull Statistics Parameters [Interior Plains D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	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	1.29	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	1.29	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Interior Plains D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	12.8	ft
Bieger_D_channel_depth	1.57	ft
Bieger_D_channel_cross_sectional_area	24.3	ft^2

Bankfull Statistics Flow Report [Central Lowland P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	14.7	ft
Bieger_P_channel_depth	1.93	ft
Bieger_P_channel_cross_sectional_area	23.4	ft^2

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	13.5	ft
Bieger_USA_channel_depth	1.27	ft
Bieger_USA_channel_cross_sectional_area	19.6	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bieger_D_channel_width	12.8	ft
Bieger_D_channel_depth	1.57	ft
Bieger_D_channel_cross_sectional_area	24.3	ft^2
Bieger_P_channel_width	14.7	ft
Bieger_P_channel_depth	1.93	ft
Bieger_P_channel_cross_sectional_area	23.4	ft^2
Bieger_USA_channel_width	13.5	ft
Bieger_USA_channel_depth	1.27	ft
Bieger_USA_channel_cross_sectional_area	19.6	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=PDFC)

➤ Probability Statistics

Probability Statistics Parameters [Statewide seasonal low flow probability of being greater than 0.01 cubic feet per second from SIR 2024-5075]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.29	square miles	0.21	540
OH_SVI2024	Mapped Ohio Streamflow Variability Index	0.59	Log base 10 cubic feet per second	0	1.817873

Probability Statistics Flow Report [Statewide seasonal low flow probability of being greater than 0.01 cubic feet per second from SIR 2024-5075]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	PC
Probability that Apr-Mar 1-day, 10-yr low flow is over 0.01	0.865	dim	84.7
Probability that Apr-Mar 7-day, 10-yr low flow is over 0.01	0.866	dim	84.7

Statistic	Value	Unit	PC
Probability that Apr-Mar 30-day, 10-yr low flow is over 0.01	0.979	dim	93.2
Probability that May-Nov 1-day, 10-yr low flow is over 0.01	0.865	dim	84.7
Probability that May-Nov 7-day, 10-yr low flow is over 0.01	0.866	dim	84.7
Probability that May-Nov 30-day, 10-yr low flow is over 0.01	0.979	dim	93.2
Probability that Sep-Nov 1-day, 10-yr low flow is over 0.01	0.866	dim	84.7
Probability that Sep-Nov 7-day, 10-yr low flow is over 0.01	0.866	dim	84.7
Probability that Sep-Nov 30-day, 10-yr low flow is over 0.01	0.987	dim	94.9

Probability Statistics Citations

Branden L. VonIns and G.F. Koltun2024, Methods for Estimating Selected Low-Flow Statistics for Ungaged Locations in Ohio and Low-Flow Statistics Computed for Streamflow Gages in Ohio, Water Years 1975–2020; U.S. Geological Survey Scientific Information Report 2024-5075 (<https://pubs.usgs.gov/sir20245075>)

➤ 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	1.29	square miles	0.1	10000

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

Statistic	Value	Unit
Maximum Flood Crippen Bue Regional	8510	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