

StreamStats Version 3.0

Flow Statistics Ungaged Site Report

Date: Fri Dec 8, 2017 1:02:56 PM GMT-5

Study Area: Ohio

NAD 1983 Latitude: 39.4168 (39 25 01)

NAD 1983 Longitude: -84.472 (-84 28 20)

Drainage Area: 0.18 mi²

Peak Flows Basin Characteristics			
100% Peak Flow Full Model (0.18 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	115 acres	0.01	7422
Ohio Region C Indicator 1 if in C else 0 (dimensionless)	1	0	1
Ohio Region A Indicator 1 if in A else 0 (dimensionless)	0	0	1
Stream Slope 10 and 85 Longest Flow Path (feet per mi)	69.6	1.53	674
Percent Storage from NLCD1992 (percent)	0	0	25.8

Low Flows Basin Characteristics			
100% Low Flow Region A 2012 5138 (0.18 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.18 (below min value 1)	1	1250
Streamflow Variability Index from Grid (dimensionless)	0.57	0.24	1.12

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Probability of Zero Flow Basin Characteristics			
100% P zero Flow 2012 5138 (0.18 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.18 (below min value 1)	1	1250
Streamflow Variability Index from Grid (dimensionless)	0.57	0.24	1.12

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Mean and Percentile Basin Characteristics			
Y coordinate (latitude) of the centroid_ in decimal degrees=39.4133			
100% Low Flow LatLE 41.2 wri02 4068 (0.18 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.18	0.12	7422
Percent Forest (percent)	10.5	0	99.1
Percent Storage from NLCD1992 (percent)	0	0	19
Mean Annual Precipitation (inches)	40.1	34	43.2
Streamflow Variability Index from Grid (dimensionless)	0.57	0.25	1.13
Latitude of Basin Centroid (decimal degrees)	39.4133	38.68	41.2
Longitude of Basin Centroid (decimal degrees)	84.4668	80.53	84.6

Peak Flows Statistics

Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
PK2	52.9	ft3/s	37	2.1	26	108
PK5	95.1	ft3/s	35	3.3	48.5	187
PK10	125	ft3/s	34	4.4	63.6	247
PK25	164	ft3/s	35	5.9	81.4	332
PK50	193	ft3/s	37	6.8	93	400
PK100	221	ft3/s	38	7.5	104	474
PK500	289	ft3/s	42	8.6	124	670

<http://pubs.usgs.gov/sir/2006/5312/> (<http://pubs.usgs.gov/sir/2006/5312/>)

Koltun_ G.F._ Kula_ S.P._ and Puskas_ B.M._ 2006_ A Streamflow Statistics (StreamStats) Web Application for Ohio: U.S. Geological Survey Scientific Investigations Report 2006-5312_ 62 p.

Low Flows Statistics

Statistic	Value	Unit	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
M1D10Y	0.00213	ft3/s				
M7D10Y	0.00276	ft3/s				
M30D10Y	0.0044	ft3/s				
M90D10Y	0.00709	ft3/s				
D80	0.0153	ft3/s				

<http://pubs.usgs.gov/sir/2012/5138/#>

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.

Probability of Zero Flow Statistics

Statistic	Value	Unit	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
PROB 1DAY	0.0383	dim				
PROB 7DAY	0.0167	dim				
PROB 30DAY	0.000731	dim				

<http://pubs.usgs.gov/sir/2012/5138/#>

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.

Mean and Percentile Statistics

Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
Q1	0.26	ft3/s	17			
Q2	0.36	ft3/s	12			
Q3	0.38	ft3/s	14			
Q4	0.37	ft3/s	11			
Q5	0.24	ft3/s	20			
Q6	0.14	ft3/s	27			
Q7	0.0793	ft3/s	28			
Q8	0.0648	ft3/s	37			
Q9	0.0361	ft3/s	44			
QA	0.19	ft3/s	11			

Q10	0.0322	ft3/s	51			
Q11	0.0827	ft3/s	38			
Q12	0.18	ft3/s	22			
QAH	0.0192	ft3/s	66			
FPS25	0.052	ft3/s	29			
FPS50	0.0984	ft3/s	40			
FPS75	0.19	ft3/s	48			

<http://oh.water.usgs.gov/reports/wrir/wrir02-4068.pdf> (<http://oh.water.usgs.gov/reports/wrir/wrir02-4068.pdf>)
 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

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