

## Appendix A. Ohio Stream Classification Codes

Shreve Link: Link is the number of first-order streams upstream from the segment of interest.

Link code	Description	Category
1	1	Very small
2	2 - 10	Small
3	11 - 50	Medium
4	> 50	Large
5	9992	River w/ ditches (NWOHio)
6	9993	Ditch/channel (NWOHio)

Downstream link: Dlink is the link number of the segment downstream from the segment of interest. It takes into consideration the connectivity of the stream network

Dlink code	Description	Category
1	<= 10	Connected to small stream
2	11 - 50	Connected to medium stream
3	> 50	Connected to large stream
4	9998	Unconnected
5	9999	Reservoir
6	9996	Reservoir inlet
7	9997	Reservoir outlet
9	9995	Stream flowing into Lake Erie
12	9992	River w/ ditch(es)
13	9993	Ditch/channel

Gradient: Gradient of stream. See “\*Strahler stream order classes” (below) for description of strorder\_c.

Gradient code	Description (percent slope)	River size (strorder_c)*	Gradient category
1	0 - 1.0	Headwater (1)	Very low
2	1.1 - 6.0	Headwater(1)	Low
3	6.1 - 12.0	Headwater(1)	Moderate
4	> 12.0	Headwater(1)	High
1	0 - 1.0	Small (2)	Very low
2	1.1 - 5.0	Small(2)	Low
3	5.1 - 7.5	Small(2)	Moderate
4	> 7.5	Small(2)	High
1	0 - 1.0	Medium(3)	Very low
2	1.1 - 4.0	Medium(3)	Low
3	4.1 - 6.0	Medium(3)	Moderate
4	> 6.0	Medium(3)	High
1	0 - 0.5	Large(4)	Very low
2	.6 - 2.5	Large(4)	Low
3	2.6 - 4.0	Large(4)	Moderate
4	> 4.0	Large(4)	High

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Sinuosity

<b>Sinuosity code</b>	<b>Description</b>	<b>Category</b>
1	<= 1.199	Low
2	1.2 - 1.399	Medium
3	=> 1.4	High
4	9999	Lake Erie shore/other

Bedrock

<b>Bedrock code</b>	<b>Category</b>
1	Shale
2	Shale/limestone
3	Shale/sandstone/limestone
4	Shale/sandstone/limestone/coal
5	Shale/sandstone/coal

Stream Temperature

<b>Temperature code</b>	<b>Description</b>	<b>Category</b>
1	10 – 16 °C	Cold water
2	17 – 21 °C	Transition zone
3	= > 22 °C	Warm water

Glacial drift thickness

<b>Thickness code</b>	<b>Description</b>	<b>Category</b>
1	0 – 100 ft	Shallow
2	> 100 ft	Deep
3	N/A	Unglaciaded

Glacial character (lithology)

<b>Lithology code</b>	<b>Description</b>	<b>Category</b>
1	SGc, SGt, SGf, SG	Coarse-grained stratified
2	T, Tsg	Till
3	F, Fsg	Fine-grained stratified
4	N/A	Unglaciaded

\*Strahler stream order classes (used to classify gradient) (not item in stream classification)

<b>Strahler code (strorder_c)</b>	<b>Description</b>	<b>Category</b>
1	1st order	Headwater
2	2nd & 3rd order	Small
3	4th & 5th order	Medium
4	=> 6th order	Large

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EDU: Ecological drainage unit (an analysis unit in GARP model, not an item in stream classification)

<b>EDU code</b>	<b>ecoregion III</b>	<b>Historic drainage</b>	<b>Glacial history</b>	<b>Modern major drainage</b>
1	Erie/Ontario Drift and Lake Plains	Cuyahoga River	Glaciated	Lake Erie Drainage
2	Erie/Ontario Drift and Lake Plains	Cuyahoga River	Glaciated	Ohio River Drainage
3	Erie/Ontario Drift and Lake Plains	Lower Allegheny River	Glaciated	Lake Erie Drainage
4	Erie/Ontario Drift and Lake Plains	Lower Allegheny River	Glaciated	Ohio River Drainage
5	Erie/Ontario Drift and Lake Plains	Lake Erie	Glaciated	Lake Erie Drainage
6	Erie/Ontario Drift and Lake Plains	Lake Erie	Glaciated	Ohio River Drainage
7	Erie/Ontario Drift and Lake Plains	Newark River	Glaciated	Ohio River Drainage
8	Erie/Ontario Drift and Lake Plains	Newark River	Unglaciated	Ohio River Drainage
9	Erie/Ontario Drift and Lake Plains	Teays River	Glaciated	Lake Erie Drainage
10	Erie/Ontario Drift and Lake Plains	Teays River	Glaciated	Ohio River Drainage
11	Erie/Ontario Drift and Lake Plains	Vernon River	Glaciated	Ohio River Drainage
12	Eastern Corn Belt Plains	Brush Creek	Glaciated	Ohio River Drainage
13	Eastern Corn Belt Plains	Cincinnati River	Glaciated	Ohio River Drainage
14	Eastern Corn Belt Plains	Lake Erie	Glaciated	Lake Erie Drainage
15	Eastern Corn Belt Plains	Lake Erie	Glaciated	Ohio River Drainage
16	Eastern Corn Belt Plains	Newark River	Glaciated	Ohio River Drainage
17	Eastern Corn Belt Plains	Teays River	Glaciated	Lake Erie Drainage
18	Eastern Corn Belt Plains	Teays River	Unglaciated	Ohio River Drainage
19	Eastern Corn Belt Plains	Teays River	Glaciated	Ohio River Drainage
20	Eastern Corn Belt Plains	Vernon River	Glaciated	Ohio River Drainage
21	Eastern Corn Belt Plains	Wabash River	Glaciated	Lake Erie Drainage
22	Huron/Erie Lake Plains	Lake Erie	Glaciated	Lake Erie Drainage
23	Huron/Erie Lake Plains	Wabash River	Glaciated	Lake Erie Drainage
24	Interior Plateau	Brush Creek	Glaciated	Ohio River Drainage
25	Interior Plateau	Brush Creek	Unglaciated	Ohio River Drainage
26	Interior Plateau	Cincinnati River	Glaciated	Ohio River Drainage
27	Interior Plateau	Cincinnati River	Unglaciated	Ohio River Drainage
28	Interior Plateau	Teays River	Glaciated	Ohio River Drainage
29	Interior Plateau	Teays River	Unglaciated	Ohio River Drainage
30	Lake Erie Islands*	Lake Erie	Glaciated	Lake Erie Drainage
31	So. Mich./N. Indiana Drift Plains	Wabash River	Glaciated	Lake Erie Drainage
32	Western Allegheny Plateau	Cuyahoga River	Unglaciated	Ohio River Drainage
33	Western Allegheny Plateau	Lower Allegheny River	Unglaciated	Ohio River Drainage
34	Western Allegheny Plateau	Newark River	Unglaciated	Ohio River Drainage
35	Western Allegheny Plateau	Teays River	Unglaciated	Ohio River Drainage

\* Not used in this gap analysis