

# Columbia County Stream Team Data Interpretation Workbook










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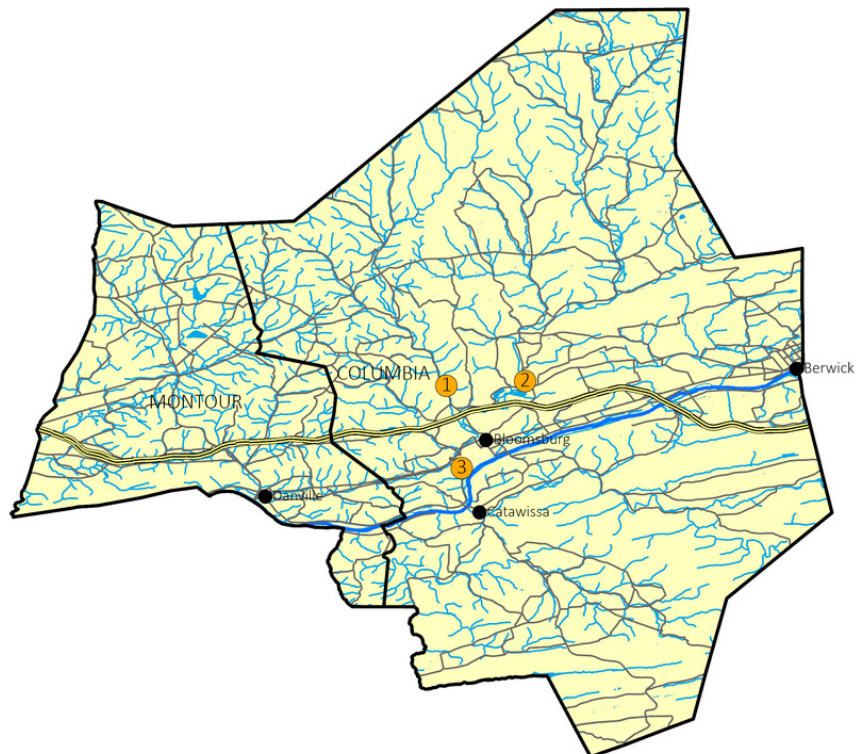
Stream Team | [streamteam@dickinson.edu](mailto:streamteam@dickinson.edu)  
Alliance for Aquatic Resource Monitoring (ALLARM)  
[dickinson.edu/ALLARM](http://dickinson.edu/ALLARM) | [@ALLARMwater](https://www.instagram.com/ALLARMwater) | 717.245.1565



# Monitoring Site Locations

## Monitoring Site Locations Columbia Stream Team

-  Monitoring Sites
-  Towns
-  Interstate
-  State Roads
-  Susquehanna River
-  Streams
-  Water



Number	Site ID	Stream Name
1	LITFISCRE 1.82	Little Fishing Creek
2	FISCRE 7.58	Fishing Creek 1
3	FISCRE 0.49	Fishing Creek 2



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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS  
Map updated: January 2024



0 2.5 5 10 Miles



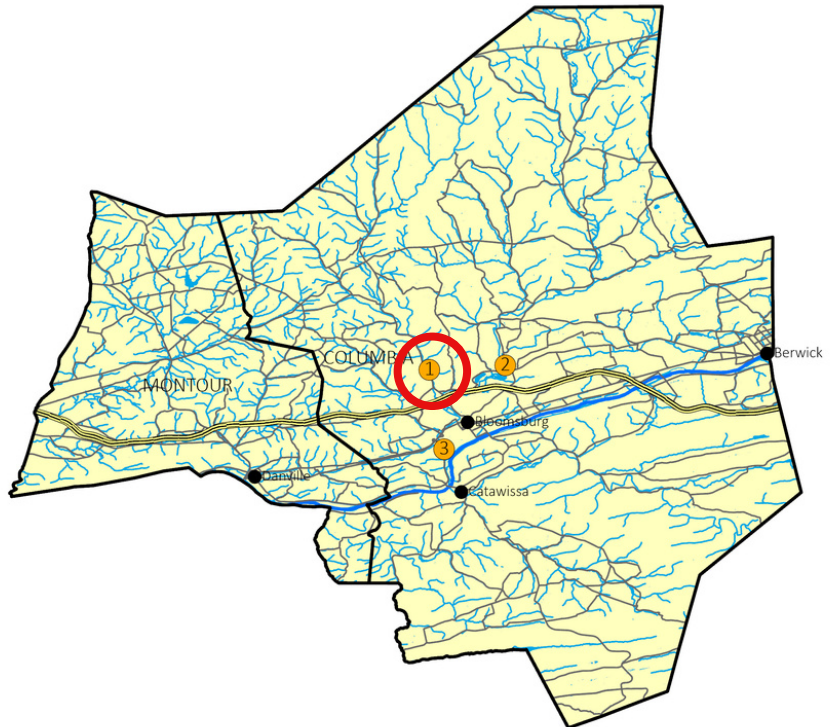
# Little Fishing Creek (LITFISCRE 1.82)

Monitor(s): Inactive, previously Linda & John Dietrichson

## Monitoring Site Locations

Columbia Stream Team

- Monitoring Sites
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- Interstate
- State Roads
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Map updated: January 2024



0 2.5 5 10 Miles

### Site information:

Drains: 57 mi<sup>2</sup>

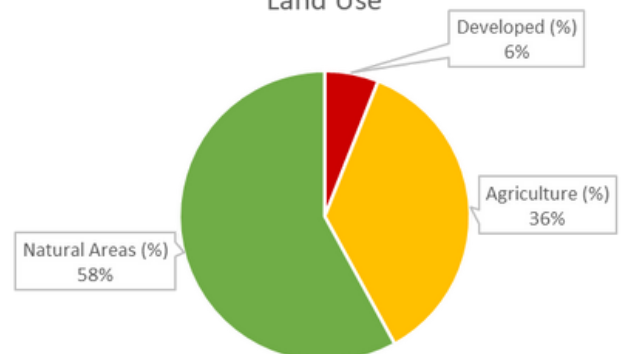
Impaired: No

Designation: High Quality Cold Water  
Fishes (HQ-CWF)

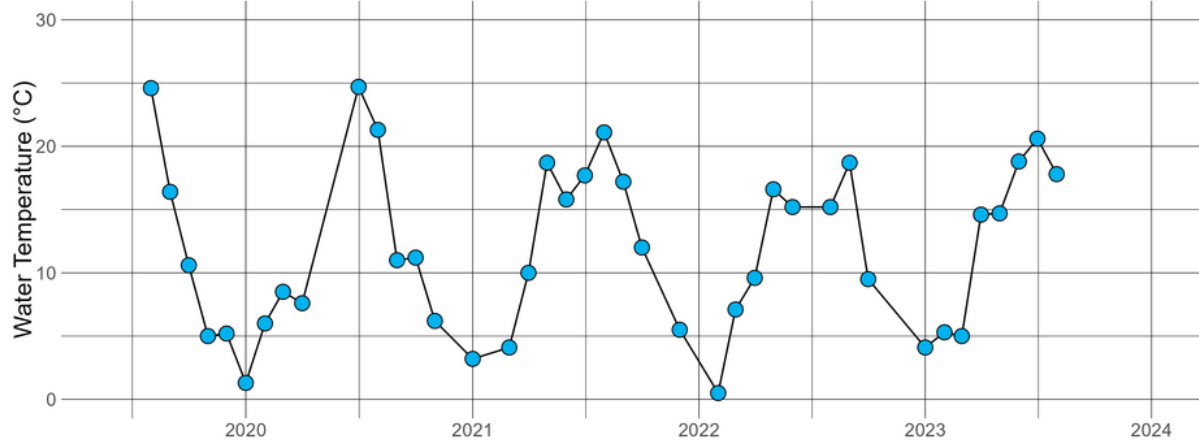
Geology: 100% Non-calcareous

### LITFISCRE 1.82

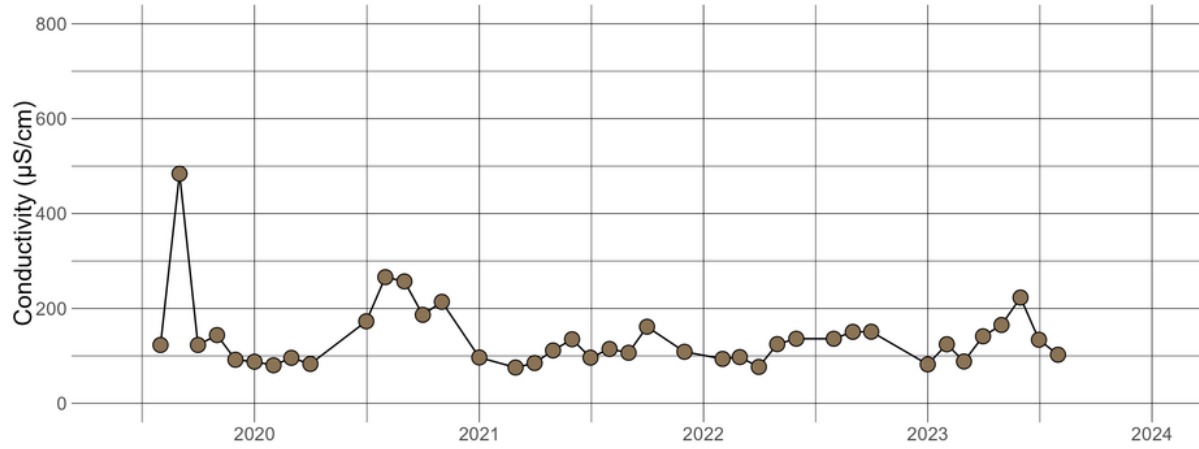
#### Land Use



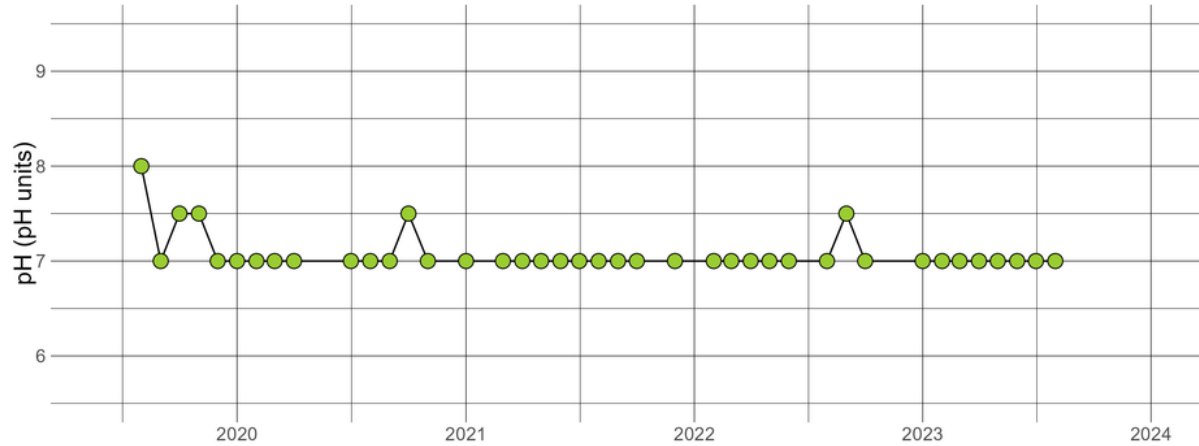
**LITFISCRE1.82 - Water Temperature**



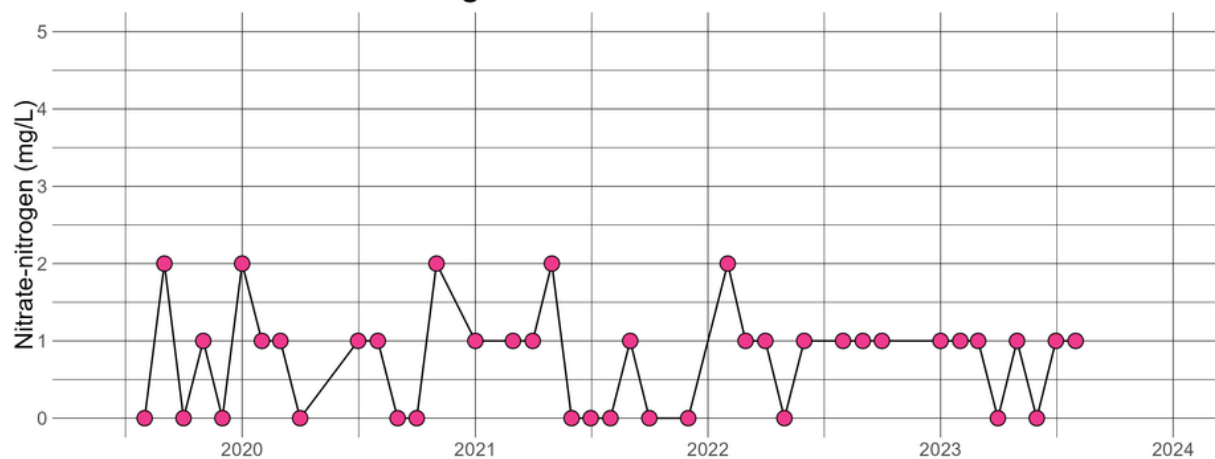
**LITFISCRE1.82 - Conductivity**



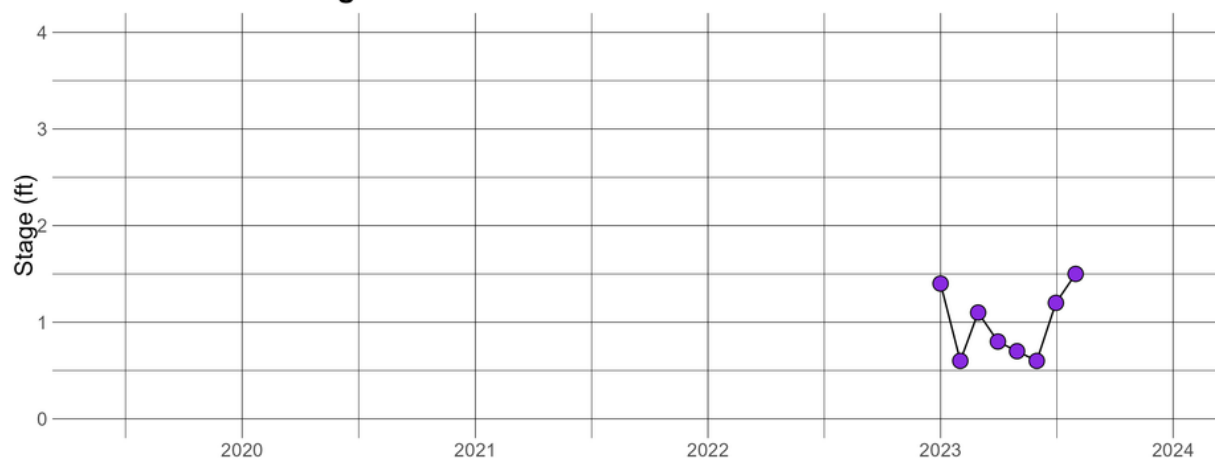
**LITFISCRE1.82 - pH**



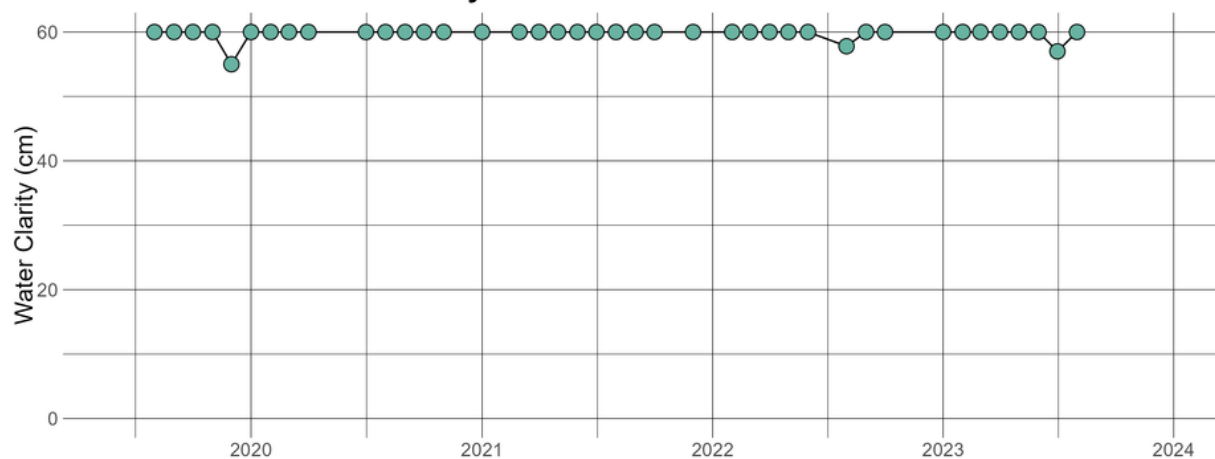
**LITFISCRE1.82 - Nitrate-nitrogen**



**LITFISCRE1.82 - Stage**



**LITFISCRE1.82 - Water Clarity**



# Raw Data and Summary Statistics

date	con	nitrate	ph	stage	clarity	watemp
Aug-19	123	0	8		60	24.6
Sep-19	484	2	7		60	16.4
Oct-19	123	0	7.5		60	10.6
Nov-19	143.9	1	7.5		60	5
Dec-19	91.9	0	7		55	5.2
Jan-20	87.8	2	7		60	1.3
Feb-20	80.3	1	7		60	6
Mar-20	95.9	1	7		60	8.5
Apr-20	83.1	0	7		60	7.6
Jul-20	172.9	1	7		60	24.7
Aug-20	266	1	7		60	21.3
Sep-20	257	0	7		60	11
Oct-20	186.5	0	7.5		60	11.2
Nov-20	214	2	7		60	6.2
Jan-21	96.7	1	7		60	3.2
Mar-21	75.5	1	7		60	4.1
Apr-21	85	1	7		60	10
May-21	111.5	2	7		60	18.7
Jun-21	135.1	0	7		60	15.8
Jul-21	96.3	0	7		60	17.7
Aug-21	114.6	0	7		60	21.1
Sep-21	106.6	1	7		60	17.2
Oct-21	161.5	0	7		60	12
Dec-21	108.7	0	7		60	5.5
Feb-22	93.7	2	7		60	0.5
Mar-22	97.5	1	7		60	7.1
Apr-22	76.8	1	7		60	9.6
May-22	124.8	0	7		60	16.6
Jun-22	136.2	1	7		60	15.2
Aug-22	136.2	1	7		57.8	15.2
Sep-22	150.7	1	7.5		60	18.7
Oct-22	151	1	7		60	9.5
Jan-23	82.1	1	7	1.4	60	4.1
Feb-23	124.5	1	7	0.6	60	5.3
Mar-23	88.3	1	7	1.1	60	5
Apr-23	141.3	0	7	0.8	60	14.6
May-23	165.2	1	7	0.7	60	14.7
Jun-23	223	0	7	0.6	60	18.8
Jul-23	134.1	1	7	1.2	57	20.6
Aug-23	102.5	1	7	1.5	60	17.8

Variable	Min	Max	Range	Average	Median
Conductivity	76	484	408	138	123
Nitrate-Nitrogen	0	2	2	0.78	1
pH	7	8	1	7.1	7
Stage	0.6	1.5	0.9	0.99	0.95
Water Clarity	55	60	5	60	60
Water Temp.	0.5	25	24	12	11

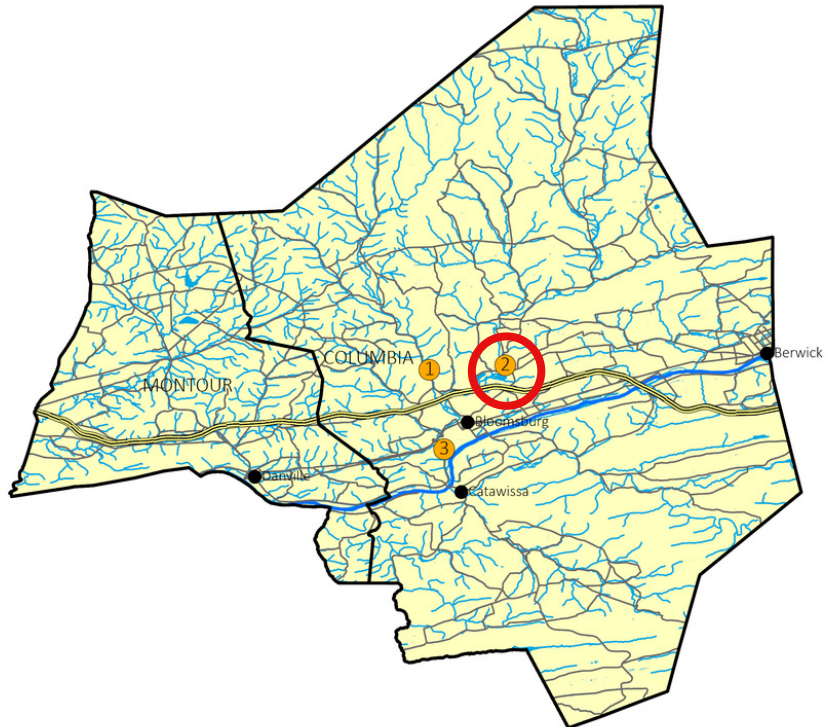
# Fishing Creek 1 (FISCRE 7.58)

Monitor(s): Krista & Darryl Wenner

## Monitoring Site Locations

Columbia Stream Team

- Monitoring Sites
- Towns
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water



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1	LITFISCRE 1.82	Little Fishing Creek
2	FISCRE 7.58	Fishing Creek 1
3	FISCRE 0.49	Fishing Creek 2



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Map updated: January 2024



0 2.5 5 10 Miles

### Site information:

Drains: 35 mi<sup>2</sup>

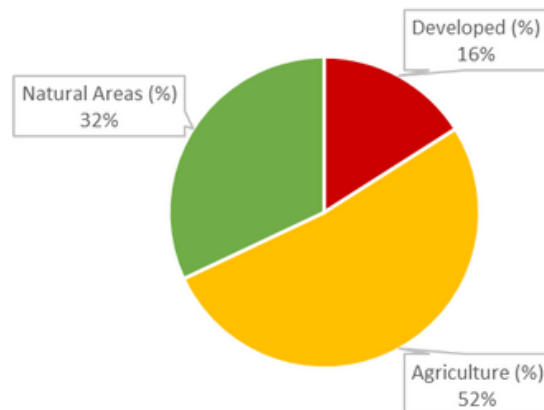
Impaired: No

Designation: Warm Water Fishes  
(WWF)

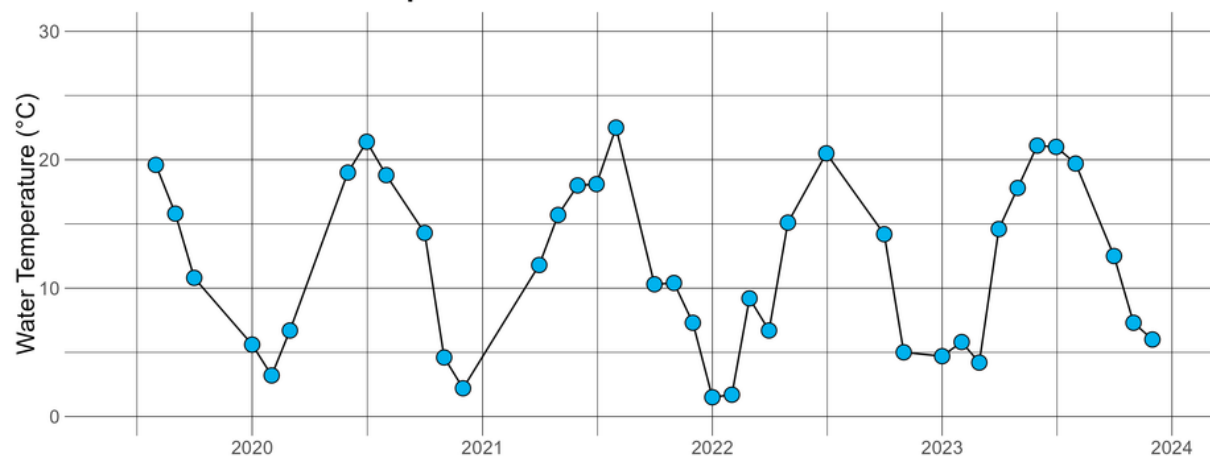
Geology:

3% Calcareous, 97% Non-calcareous

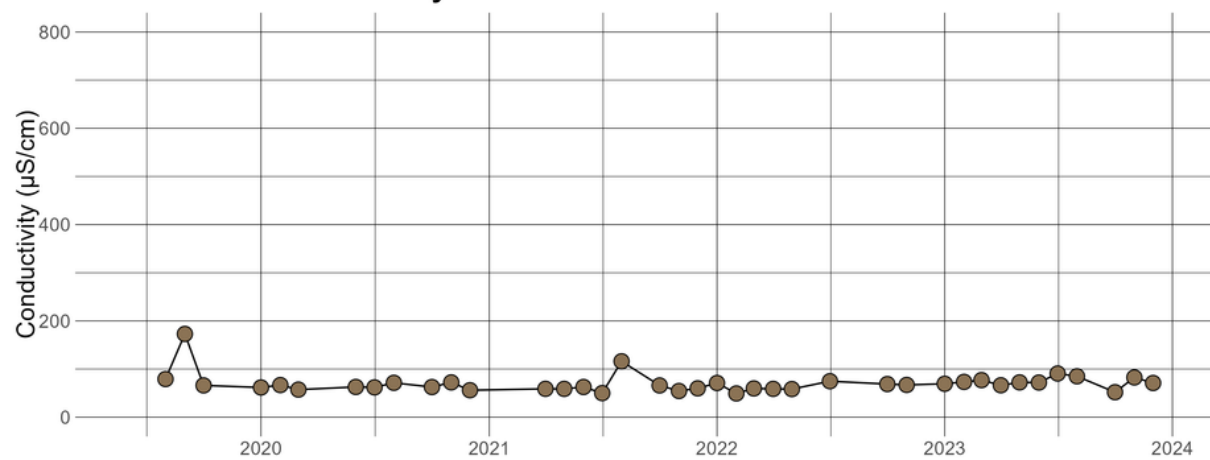
### FISCRE 7.58 Land Use



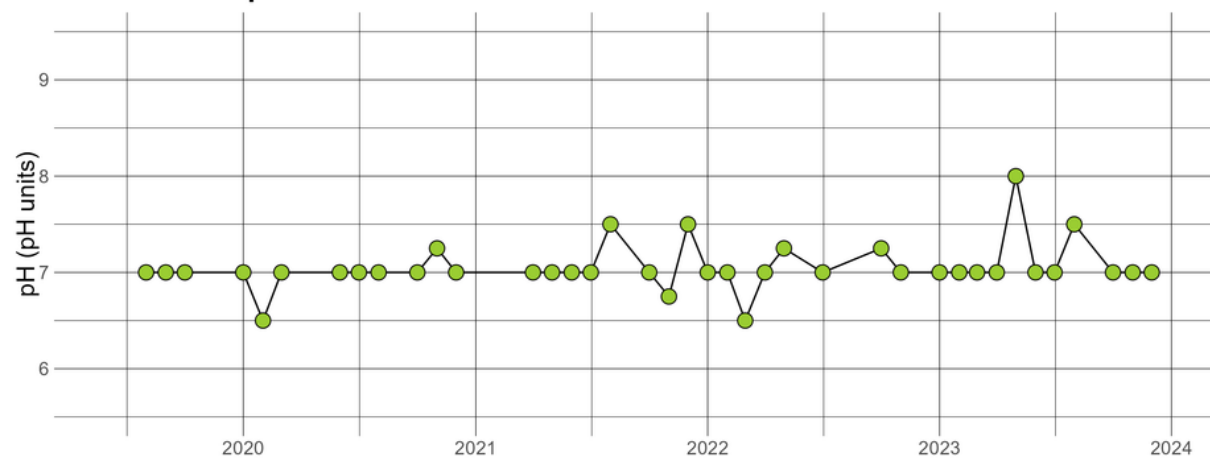
### FISCRE7.58 - Water Temperature



### FISCRE7.58 - Conductivity

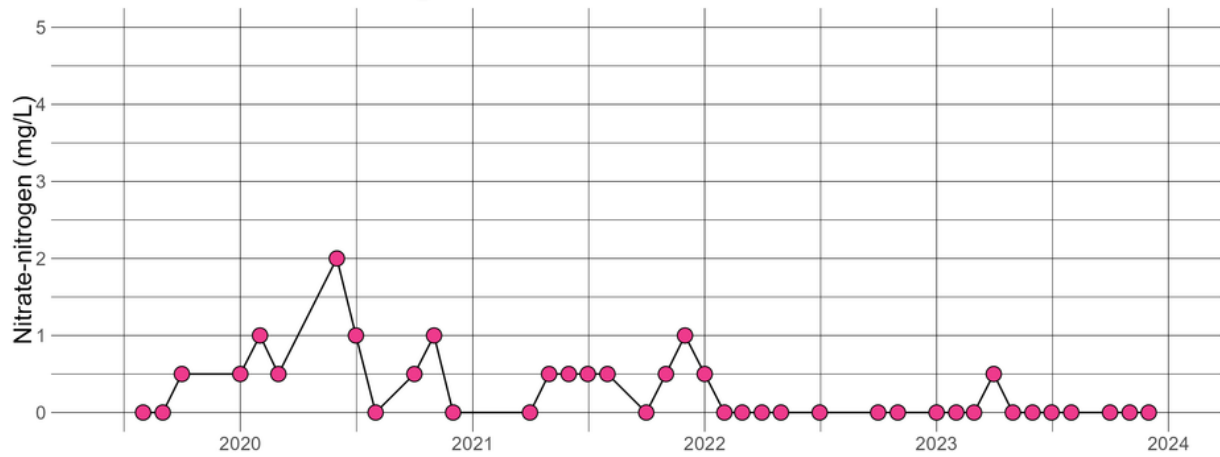


**FISCRE7.58 - pH**

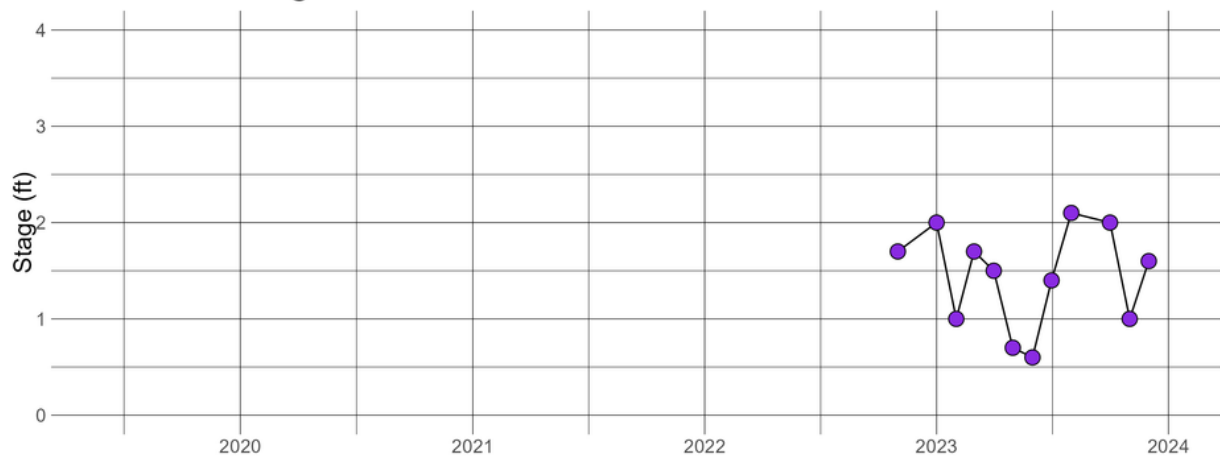




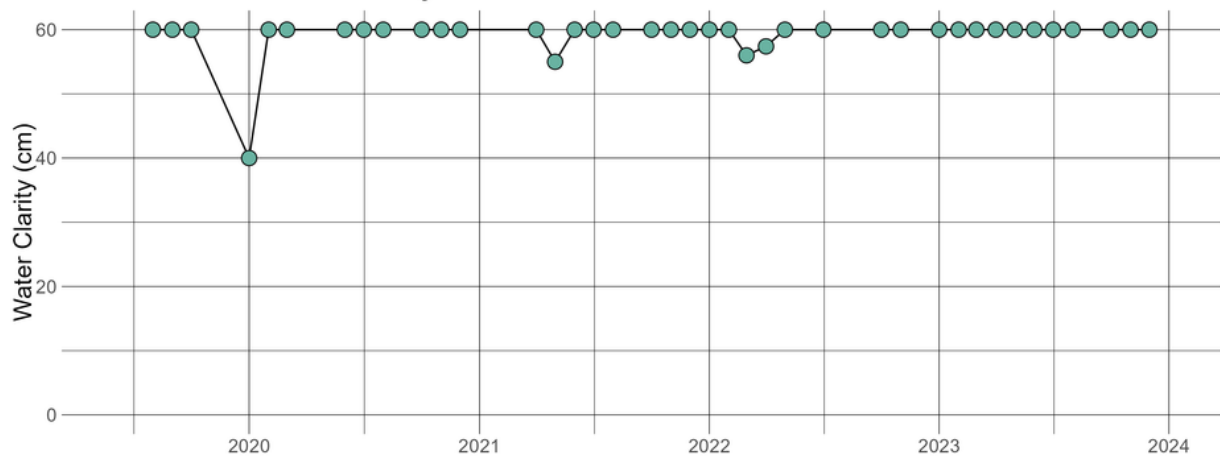
**FISCRE7.58 - Nitrate-nitrogen**



**FISCRE7.58 - Stage**



**FISCRE7.58 - Water Clarity**



# Raw Data and Summary Statistics

date	con	nitrate	ph	stage	clarity	watemp
Aug-19	79.2	0	7		60	19.6
Sep-19	172.9	0	7		60	15.8
Oct-19	66	0.5	7		60	10.8
Jan-20	61.7	0.5	7		40	5.6
Feb-20	66.7	1	6.5		60	3.2
Mar-20	57.3	0.5	7		60	6.7
Jun-20	62.8	2	7		60	19
Jul-20	61.9	1	7		60	21.4
Aug-20	71.4	0	7		60	18.8
Oct-20	62.6	0.5	7		60	14.3
Nov-20	72.3	1	7.25		60	4.6
Dec-20	56	0	7		60	2.2
Apr-21	58.9	0	7		60	11.8
May-21	58.8	0.5	7		55	15.7
Jun-21	62.7	0.5	7		60	18
Jul-21	50	0.5	7		60	18.1
Aug-21	116.1	0.5	7.5		60	22.5
Oct-21	65.9	0	7		60	10.3
Nov-21	54.4	0.5	6.75		60	10.4
Dec-21	59.9	1	7.5		60	7.3
Jan-22	71	0.5	7		60	1.5
Feb-22	49.3	0	7		60	1.7
Mar-22	59.7	0	6.5		56	9.2
Apr-22	58.8	0	7		57.4	6.7
May-22	58.4	0	7.25		60	15.1
Jul-22	74.7	0	7		60	20.5
Oct-22	68.8	0	7.25		60	14.2
Nov-22	67	0	7	1.7	60	5
Jan-23	69.4	0	7	2	60	4.7
Feb-23	73.3	0	7	1	60	5.8
Mar-23	77	0	7	1.7	60	4.2
Apr-23	66.3	0.5	7	1.5	60	14.6
May-23	72.3	0	8	0.7	60	17.8
Jun-23	72	0	7	0.6	60	21.1
Jul-23	90.7	0	7	1.4	60	21
Aug-23	84.9	0	7.5	2.1	60	19.7
Oct-23	51.9	0	7	2	60	12.5
Nov-23	82.5	0	7	1	60	7.3
Dec-23	71	0	7	1.6	60	6

Variable	Min	Max	Range	Average	Median
Conductivity	49	173	124	70	66
Nitrate-Nitrogen	0	2	2	0.29	0
pH	6.5	8	1.5	7.1	7
Stage	0.6	2.1	1.5	1.4	1.6
Water Clarity	40	60	20	59	60
Water Temp.	1.5	22	21	12	12

# Fishing Creek 2 (FISCRE 0.49)

Monitor(s): Avery Bischoff & Brandon Ball

## Monitoring Site Locations

Columbia Stream Team

- Monitoring Sites
- Towns
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water



Number	Site ID	Stream Name
1	LITFISCRE 1.82	Little Fishing Creek
2	FISCRE 7.58	Fishing Creek 1
3	FISCRE 0.49	Fishing Creek 2



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Map updated: January 2024



0 2.5 5 10 Miles

### Site information:

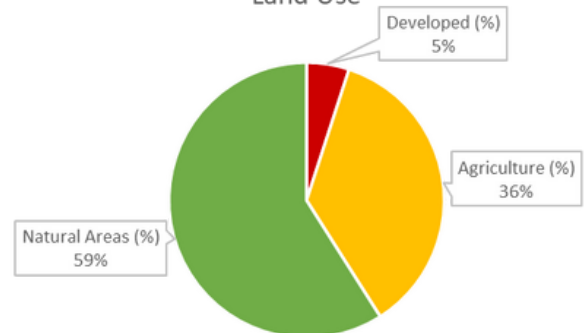
Drains 224 mi<sup>2</sup>

Impaired: No

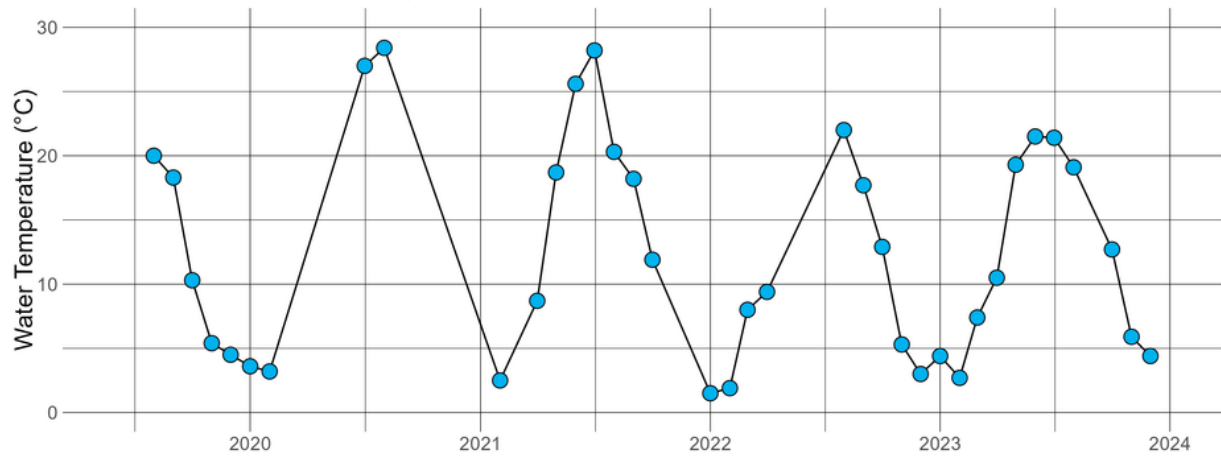
Designation: Warm Water Fishes  
(WWF)

Geology: 100% Non-calcareous

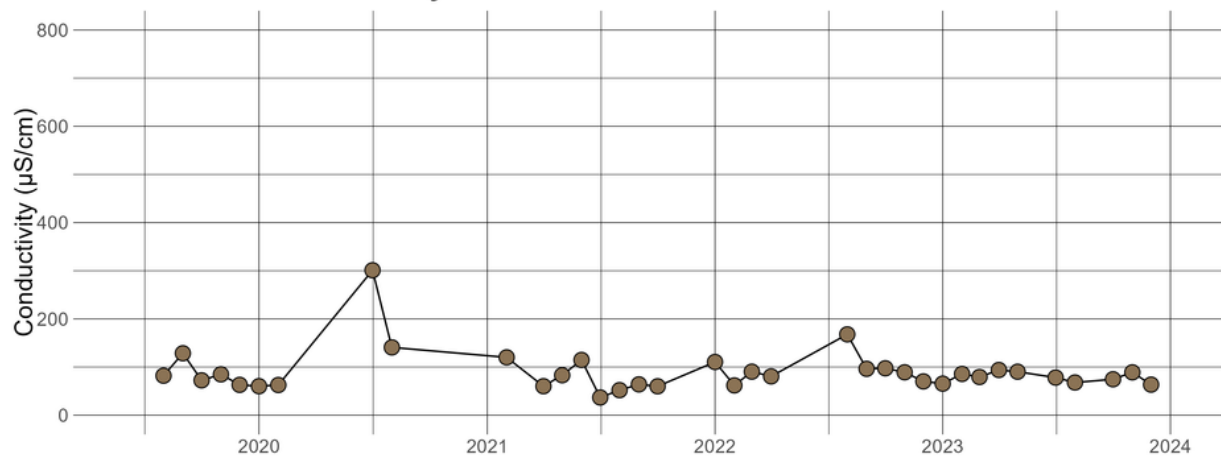
### FISCRE 0.49 Land Use



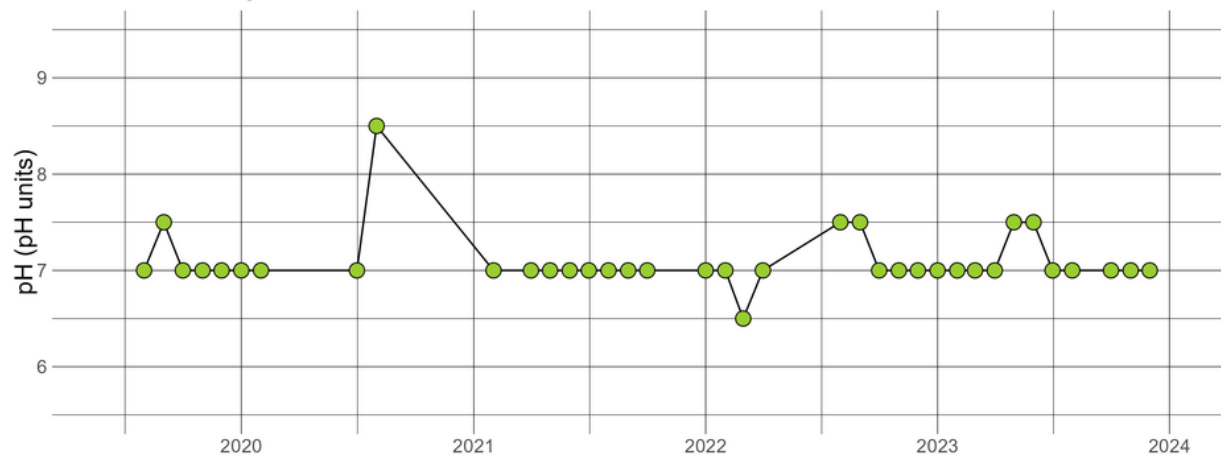
**FISCRE0.49 - Water Temperature**



**FISCRE0.49 - Conductivity**

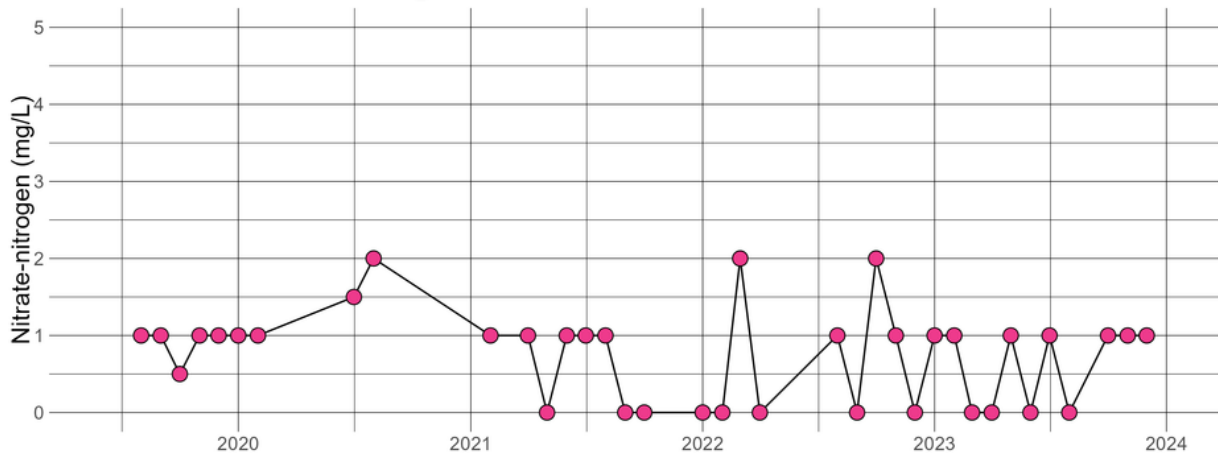


**FISCRE0.49 - pH**

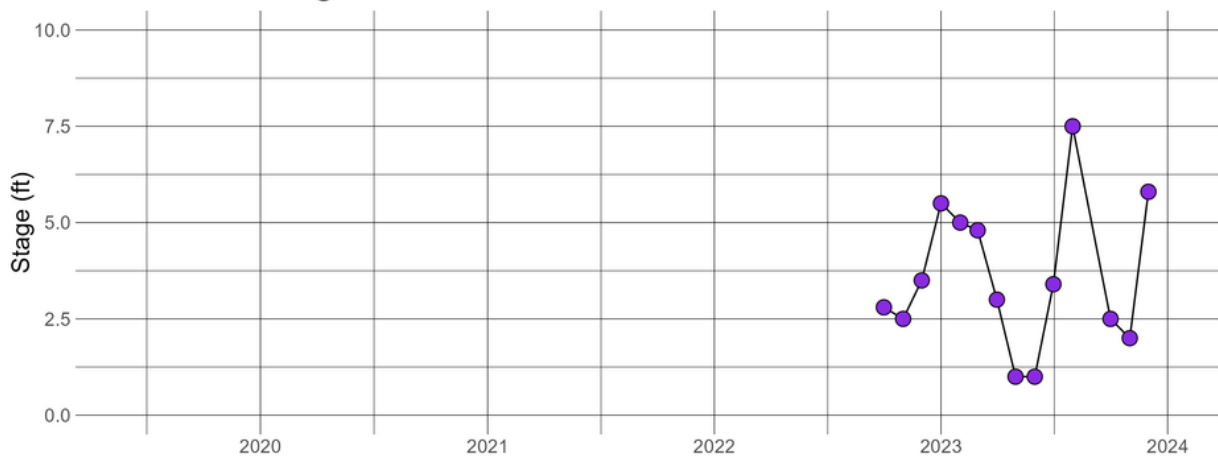




**FISCRE0.49 - Nitrate-nitrogen**



**FISCRE0.49 - Stage**



# Raw Data and Summary Statistics

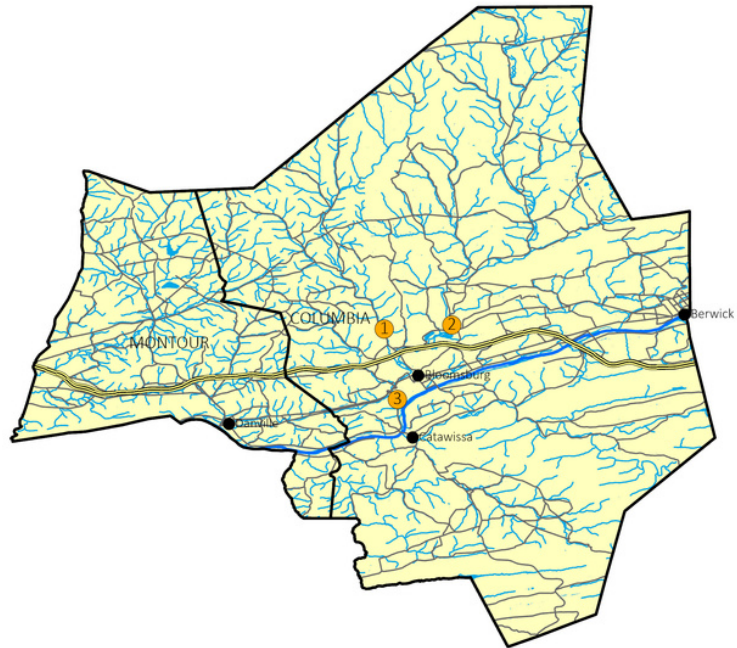
date	con	nitrate	ph	stage	clarity	watemp
Aug-19	82	1	7		29	20
Sep-19	128.6	1	7.5		60	18.3
Oct-19	72.4	0.5	7		60	10.3
Nov-19	84.8	1	7		60	5.4
Dec-19	63	1	7		60	4.5
Jan-20	60.2	1	7		55	3.6
Feb-20	62.7	1	7		60	3.2
Jul-20	301	1.5	7		60	27
Aug-20	140.8	2	8.5		60	28.4
Feb-21	120.1	1	7		60	2.5
Apr-21	60.2	1	7		60	8.7
May-21	83	0	7		60	18.7
Jun-21	114.7	1	7		60	25.6
Jul-21	36.8	1	7		60	28.2
Aug-21	52	1	7		60	20.3
Sep-21	64	0	7		60	18.2
Oct-21	60	0	7		60	11.9
Jan-22	110.5	0	7		60	1.5
Feb-22	61.9	0	7		49	1.9
Mar-22	90.4	2	6.5		60	8
Apr-22	80.6	0	7		60	9.4
Aug-22	167.9	1	7.5		60	22
Sep-22	96.3	0	7.5		60	17.7
Oct-22	97.4	2	7	2.8	60	12.9
Nov-22	89.1	1	7	2.5	60	5.3
Dec-22	70.2	0	7	3.5	60	3
Jan-23	65.5	1	7	5.5	60	4.4
Feb-23	85.7	1	7	5	60	2.7
Mar-23	79.3	0	7	4.8	60	7.4
Apr-23	93.9	0	7	3	60	10.5
May-23	90.3	1	7.5	1	60	19.3
Jun-23		0	7.5	1	60	21.5
Jul-23	78.1	1	7	3.4	41	21.4
Aug-23	67.9	0	7	7.5	0	19.1
Oct-23	74.6	1	7	2.5	60	12.7
Nov-23	89	1	7	2	60	5.9
Dec-23	63.5	1	7	5.8	60	4.4

Variable	Min	Max	Range	Average	Median
Conductivity	37	301	264	90	81
Nitrate-Nitrogen	0	2	2	0.76	1
pH	6.5	8.5	2	7.1	7
Stage	1	7.5	6.5	3.6	3.2
Water Clarity	0	60	60	57	60
Water Temp.	1.5	28	27	13	10

# Supplemental Maps

## Monitoring Site Locations Columbia Stream Team

- Monitoring Sites
- Towns
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water



Number	Site ID	Stream Name
1	LITFISCRE 1.82	Little Fishing Creek
2	FISCRE 7.58	Fishing Creek 1
3	FISCRE 0.49	Fishing Creek 2



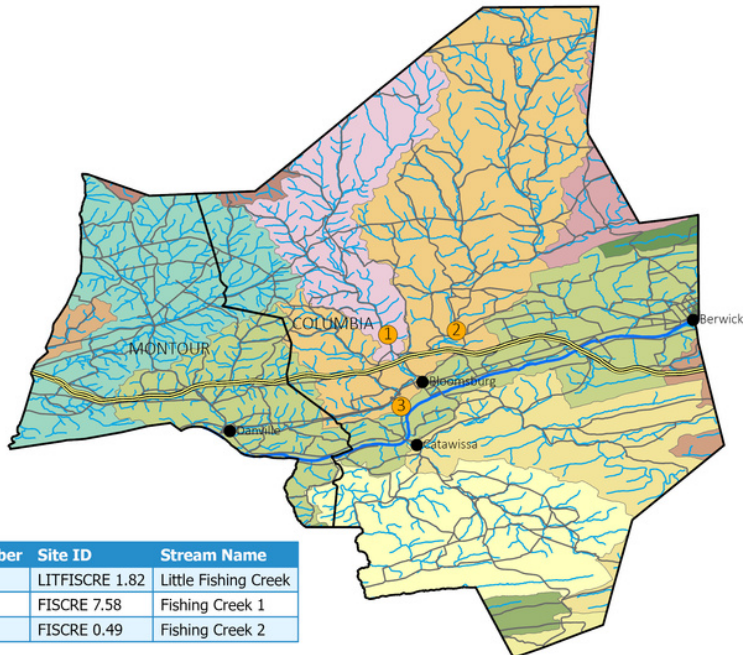
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0 2.5 5 10 Miles

## Subwatersheds Columbia Stream Team

- Monitoring Sites
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water
- Watershed (HUC 10)
  - Catawissa Creek
  - Chillisquaque Creek
  - Fishing Creek
  - Huntington Creek
  - Little Fishing Creek
  - Little Muncy Creek
  - Lower Susquehanna River
  - Mahanoy Creek
  - Middle Susquehanna River
  - Nescopeck Creek
  - Roaring Creek
  - Shamokin Creek
  - West Branch Susquehanna River



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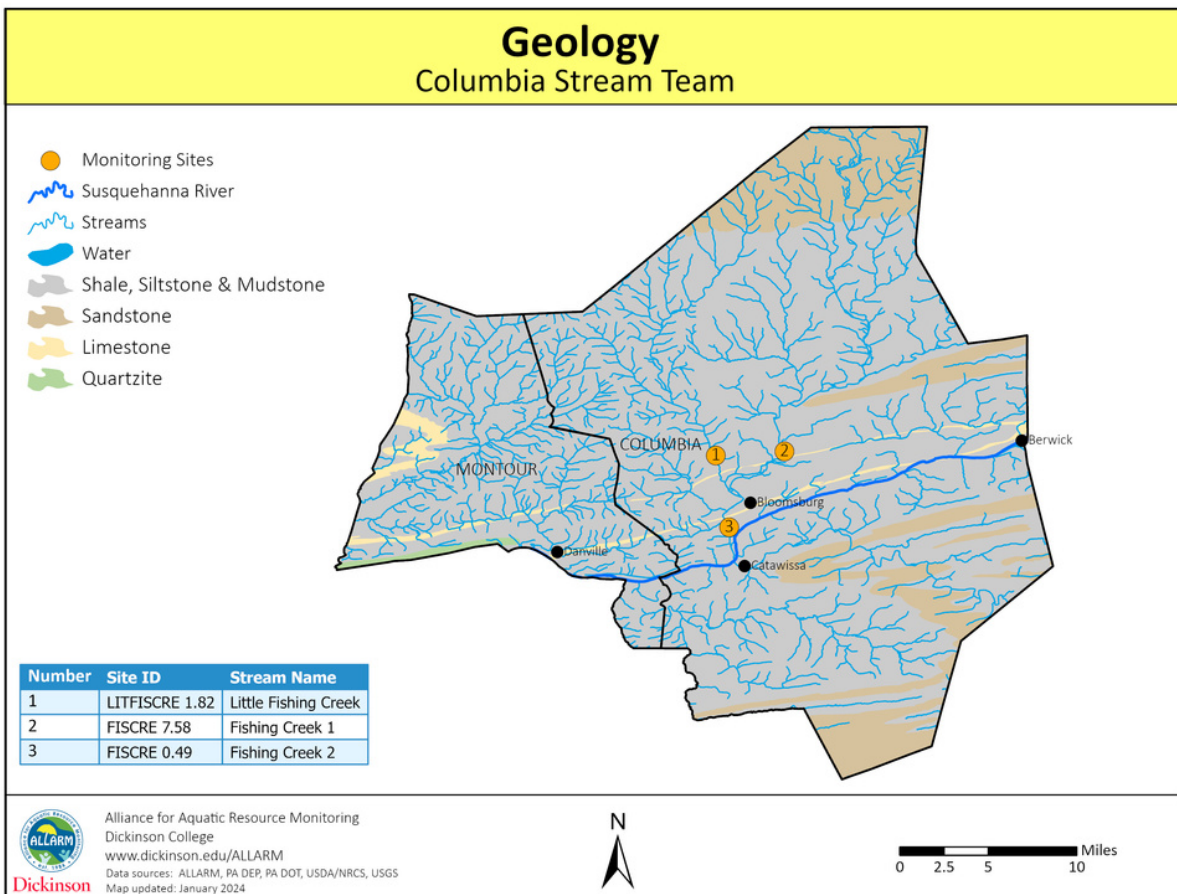
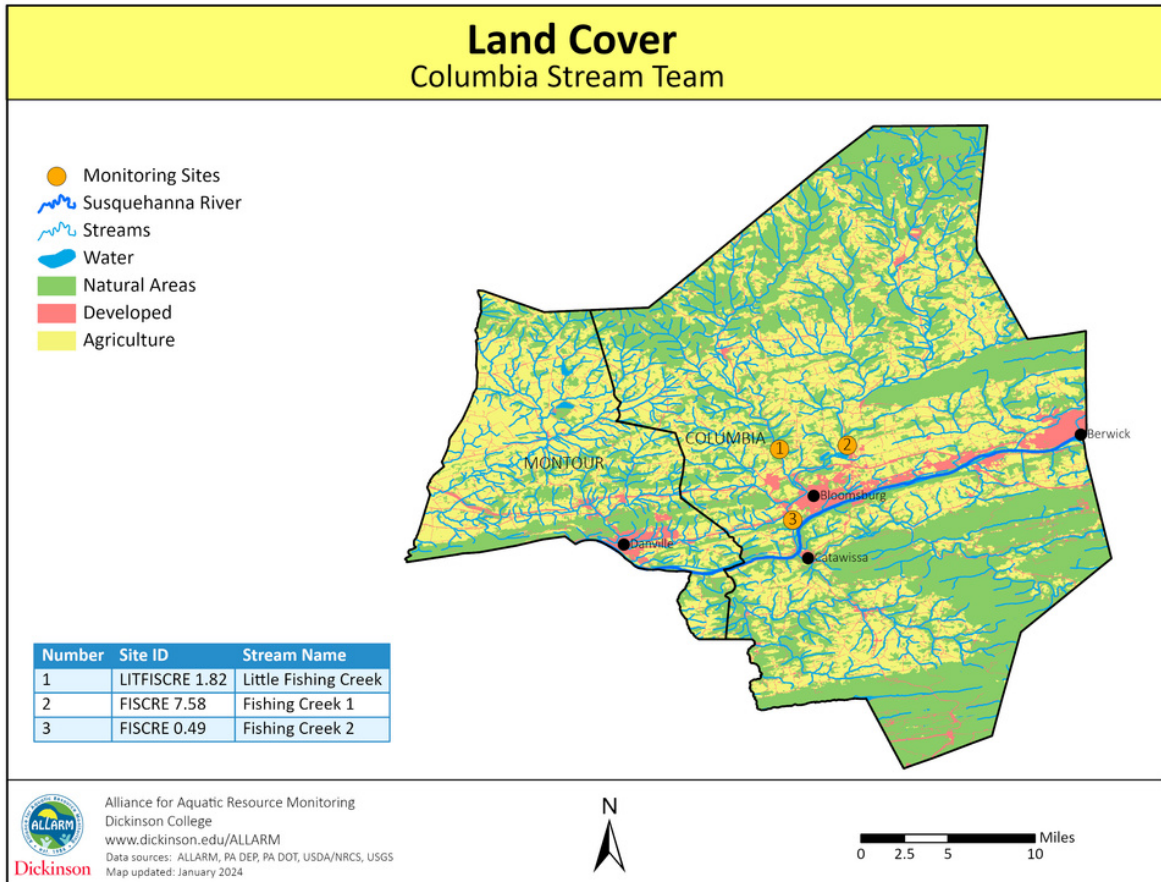


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0 2.5 5 10 Miles

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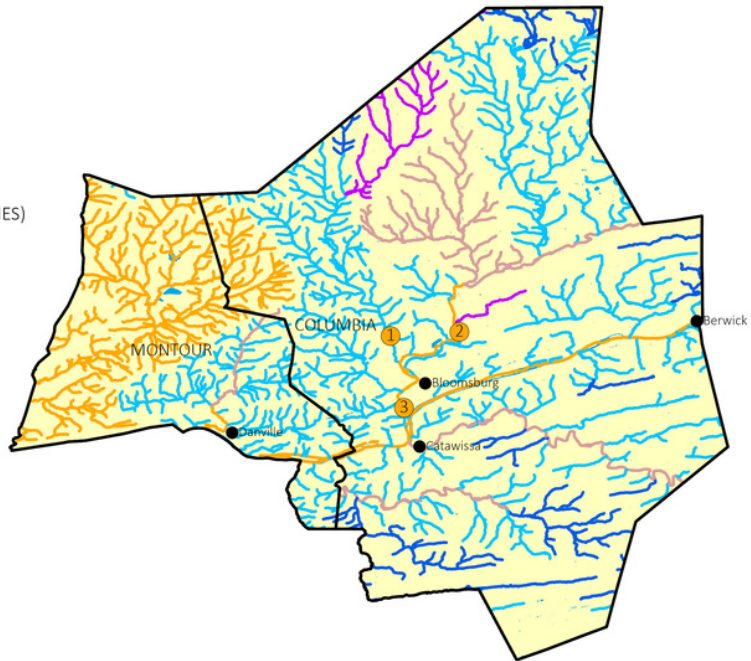


# Supplemental Maps

## Stream Designated Uses Columbia Stream Team

- Monitoring Sites
- Towns
- Water
- CWF (COLD WATER FISHES)
- EV (EXCEPTIONAL VALUE)
- HQ-CWF (HIGH QUALITY-COLD WATER FISHES)
- TSF (TROUT STOCKING)
- WWF (WARM WATER FISHES)

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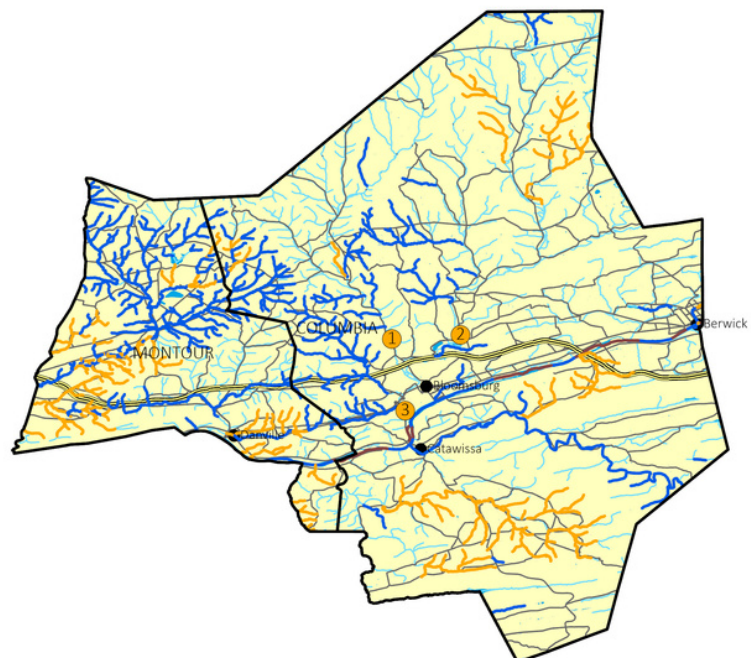


0 2.5 5 10 Miles

## Impaired Streams Columbia Stream Team

- Monitoring Sites
- Towns
- Non-impaired Streams
- Water
- Impairment Type
  - Aquatic Life
  - Fish Consumption (PCBs)
  - Recreational (Bacteria)

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0 2.5 5 10 Miles