

# The Tygart Valley River Watershed

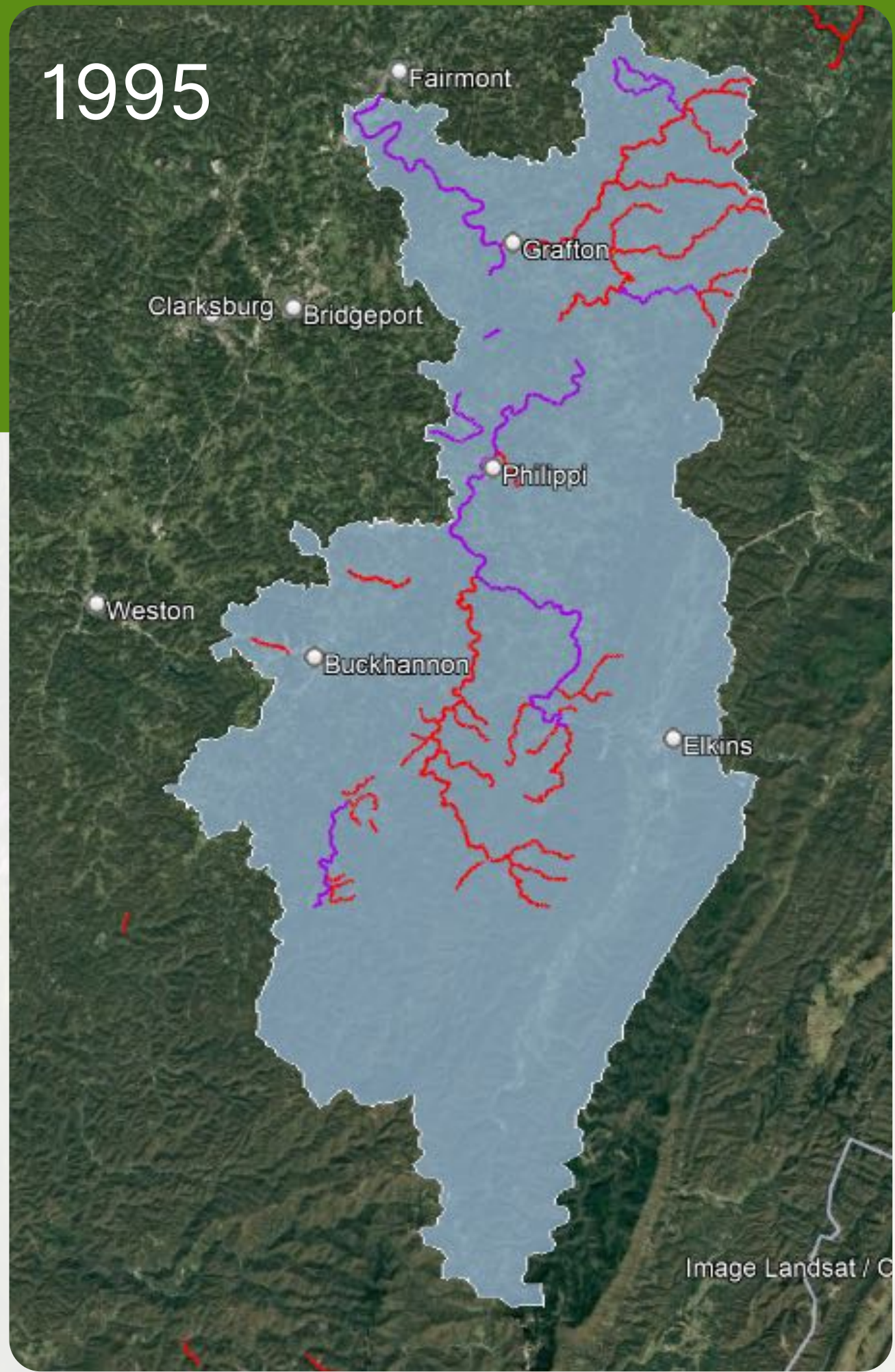
**A WORK IN PROGRESS**

**Save the Tygart Watershed  
Association Inc**

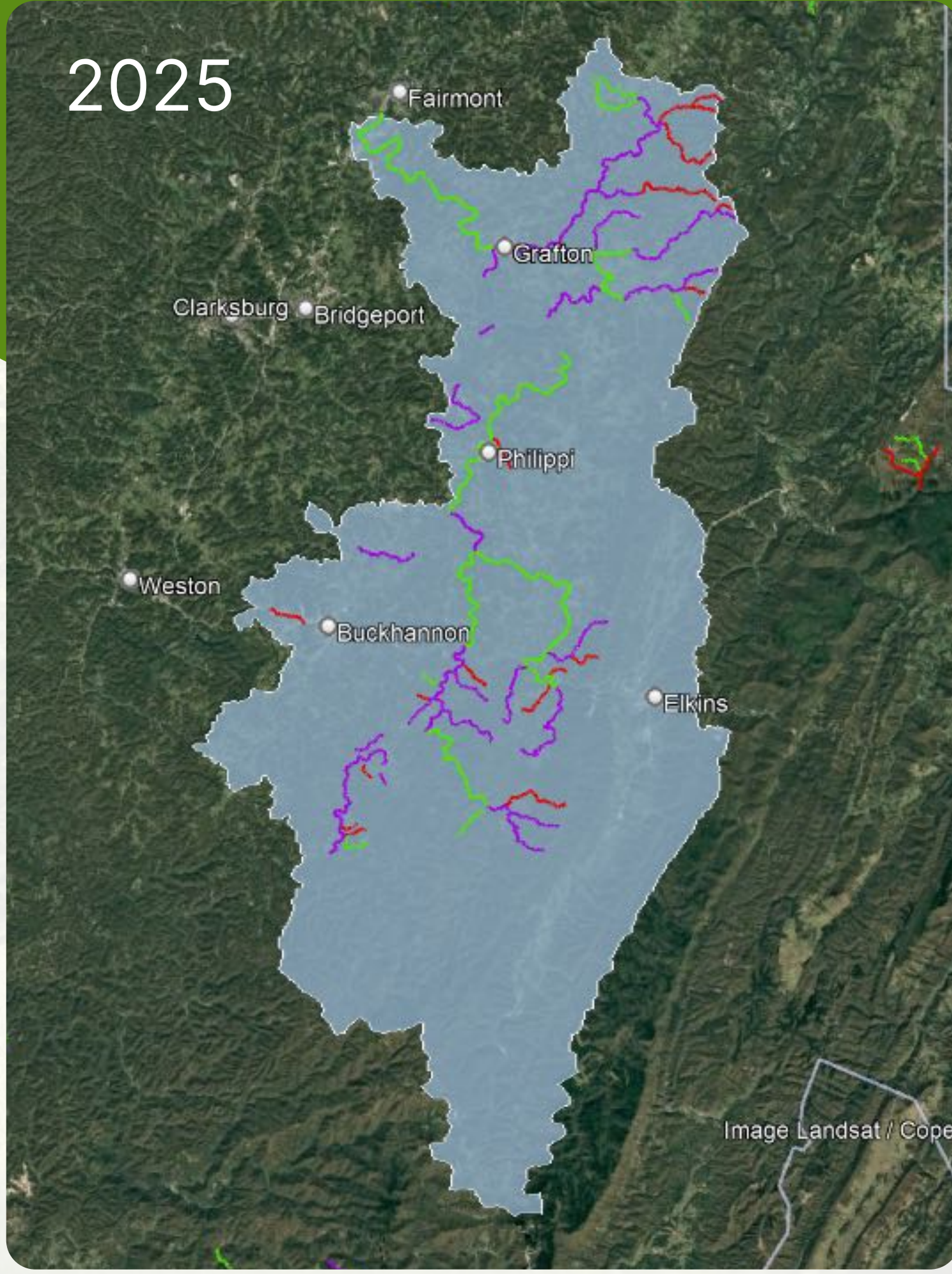
**Kelley Flaherty, Director**



1995



2025



# Active Dosing in Three Forks and Little Sandy Watersheds: It works - sort of

➤ Instream dosing increases pH resulting in healthier communities downstream

- Kanetown Doser (Left Fork Little Sandy)
- Maple Run
- Raccoon Creek
- Birds Run
- Squires Creek





# Three Forks Restoration



Lower Three Forks now supports trout stocking efforts by Giants of the Tygart



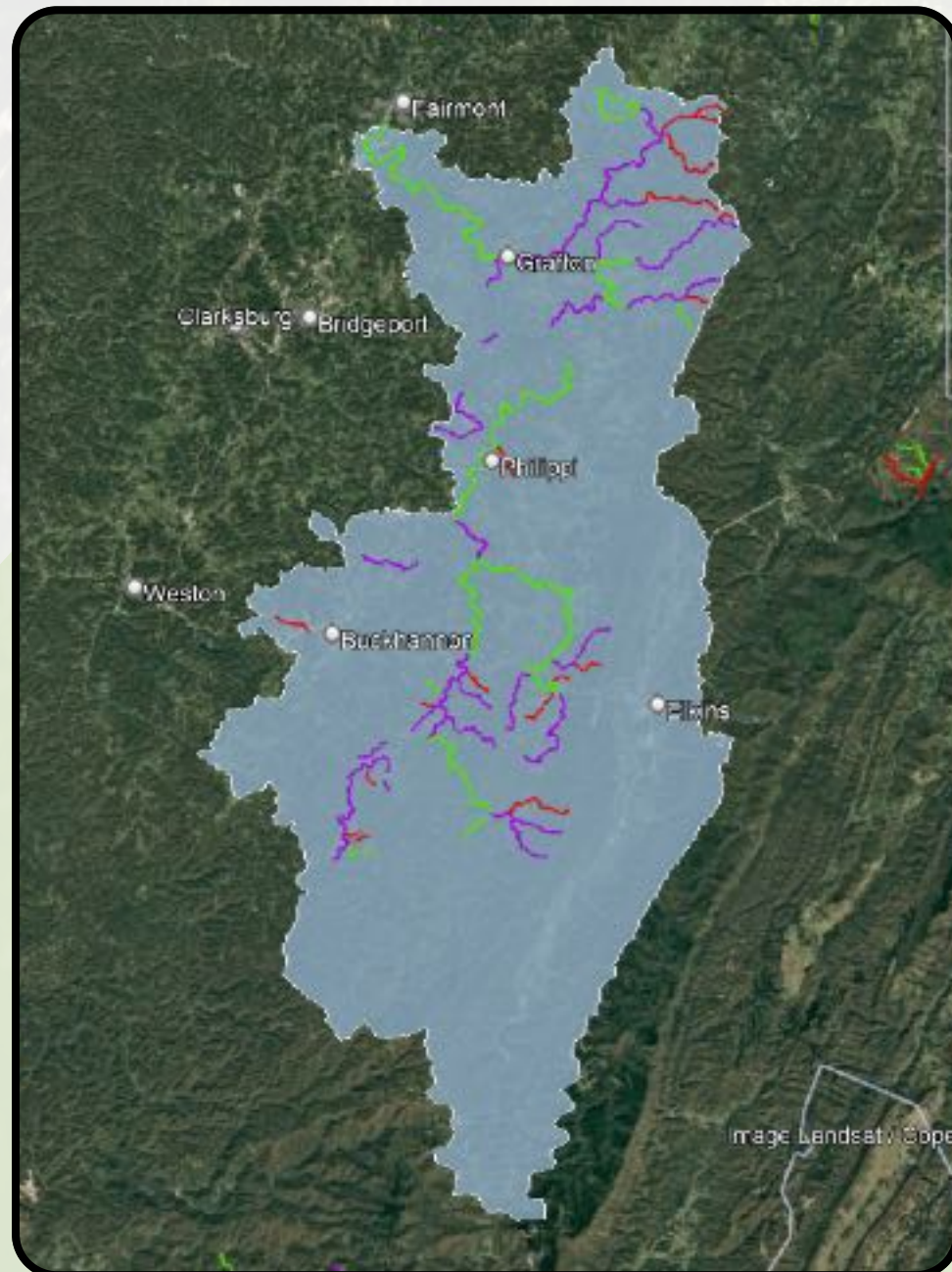
WVU study highlighting the economic benefits of the restored fishery



Local municipalities recognize the potential of recreational tourism



# In stream Dosing Results in Sludge Deposition



Miles of stream remain impaired as a result of sludge deposition



Potential impacts include reduced macroinvertebrate and fish diversity



Planned clarifier on Left Fork of Little Sandy may reduce sludge impacts



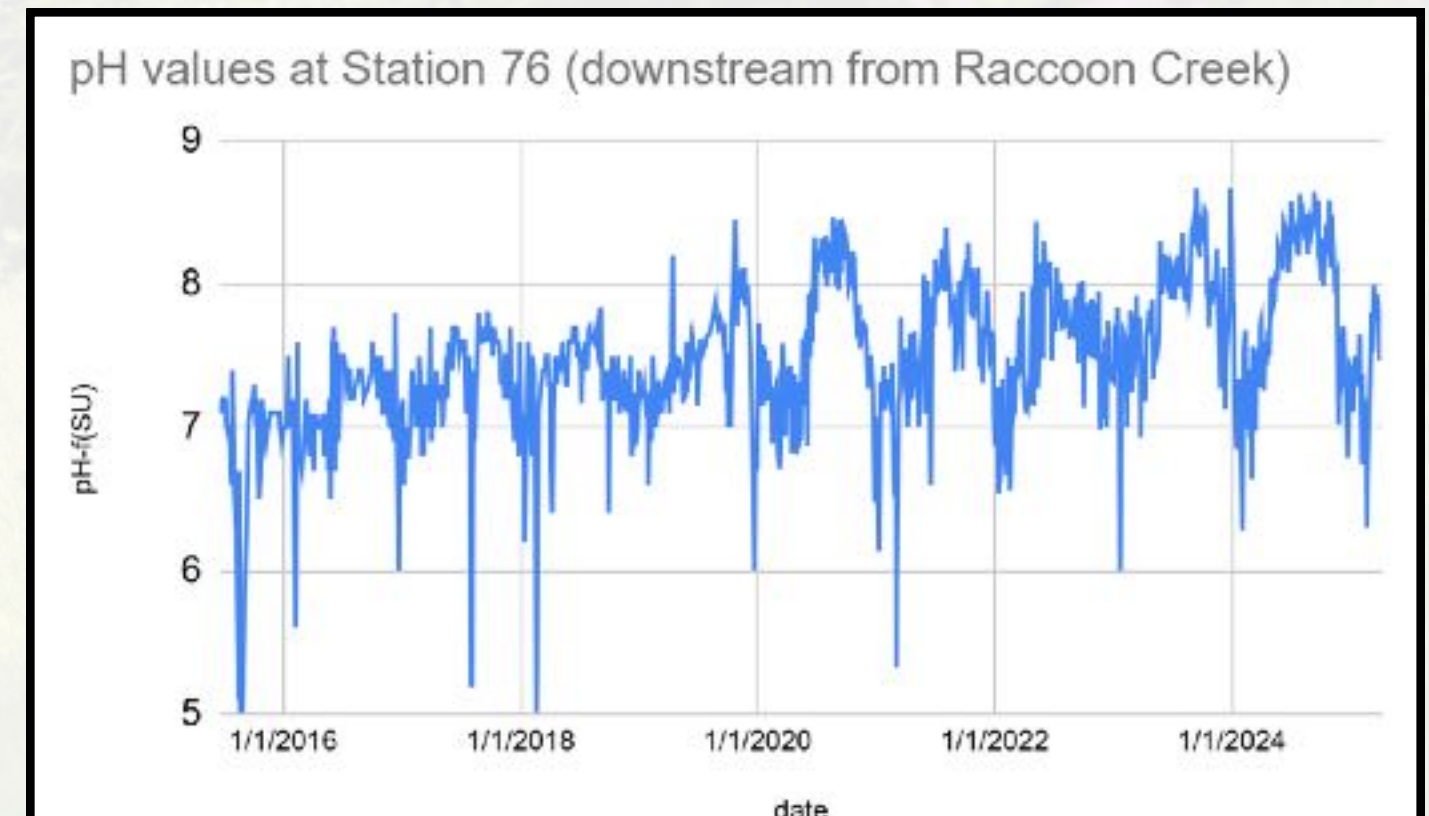
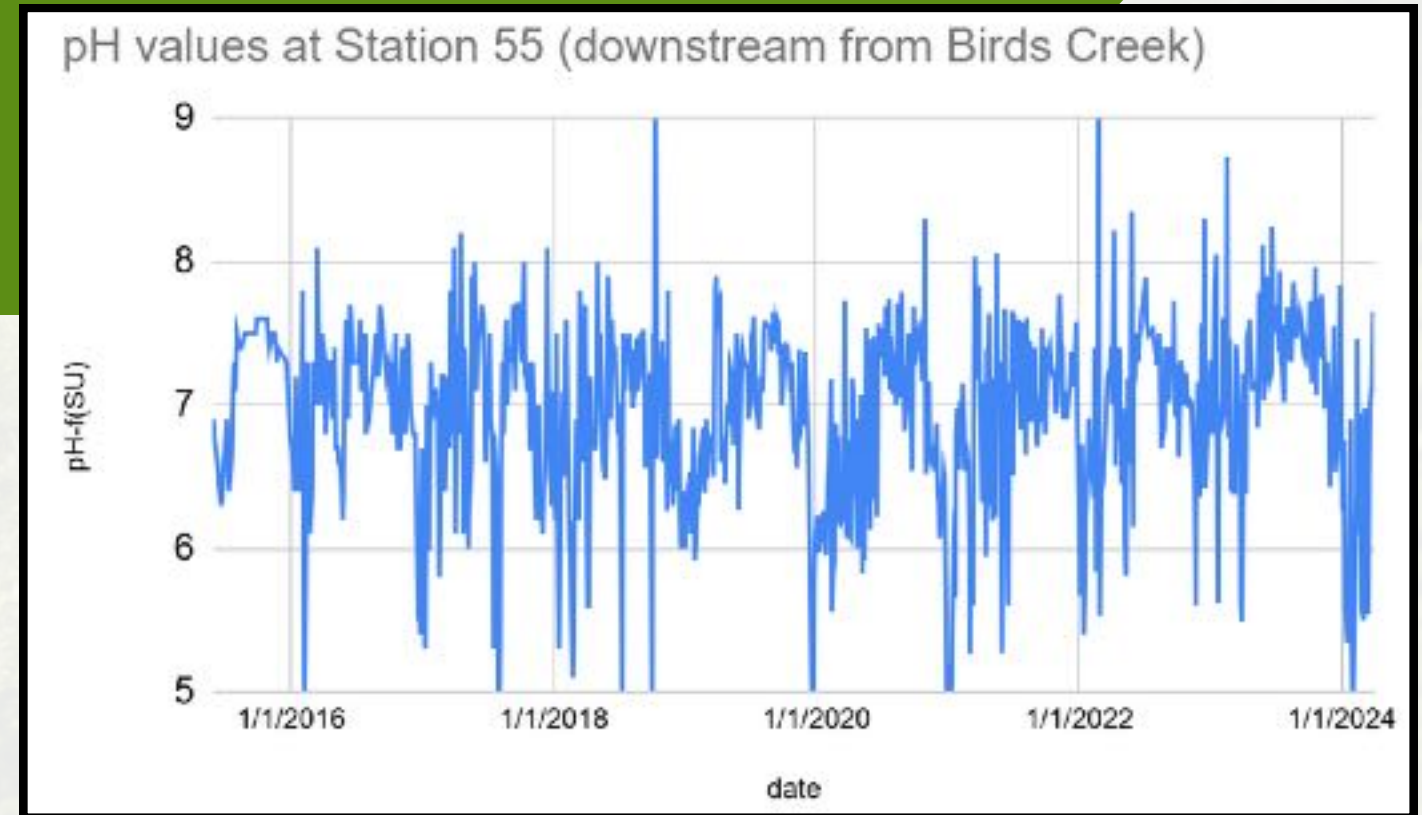
# Water Driven Dosers prone to high variability in pH



Fluctuations in water chemistry may prevent further restoration of biotic communities,



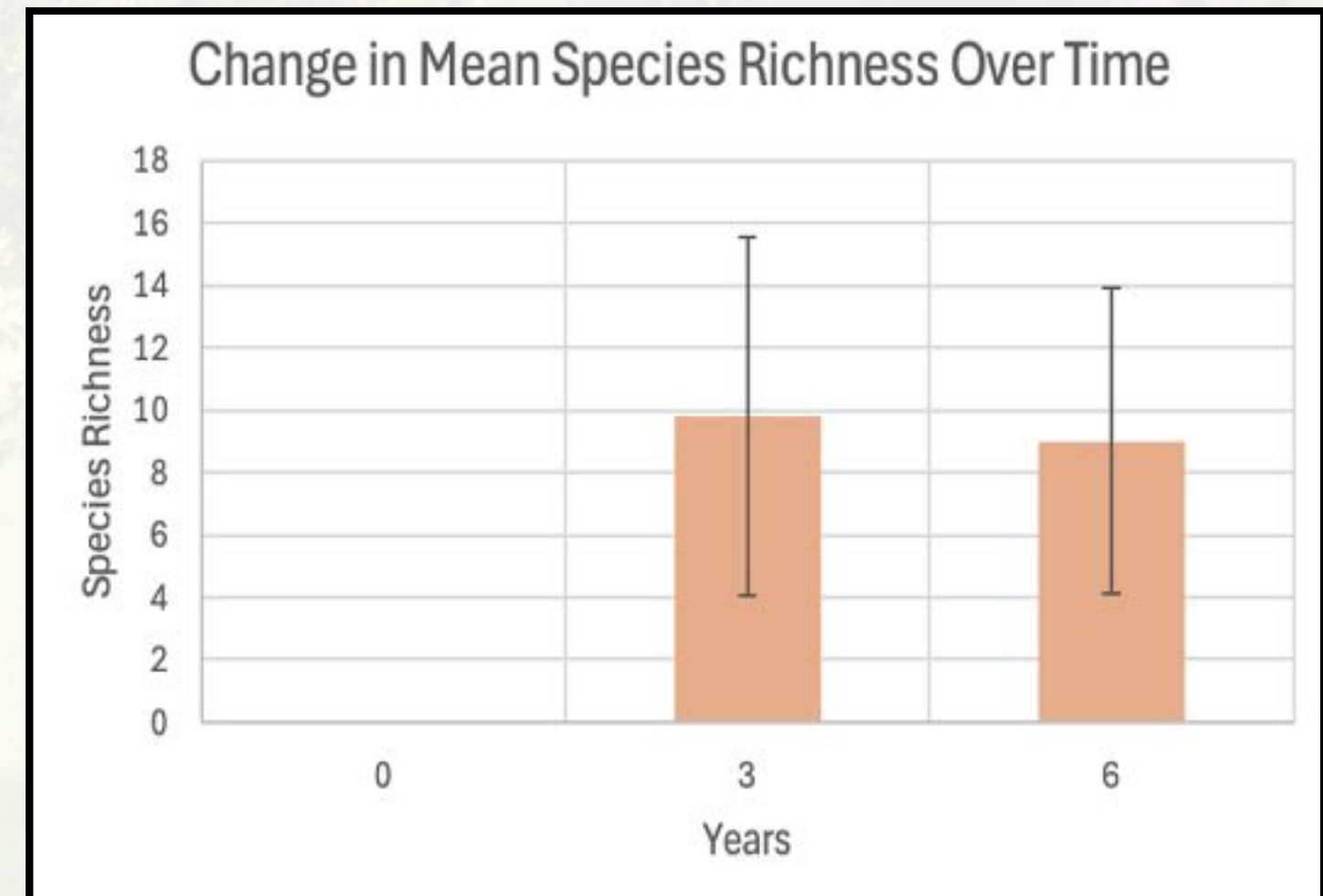
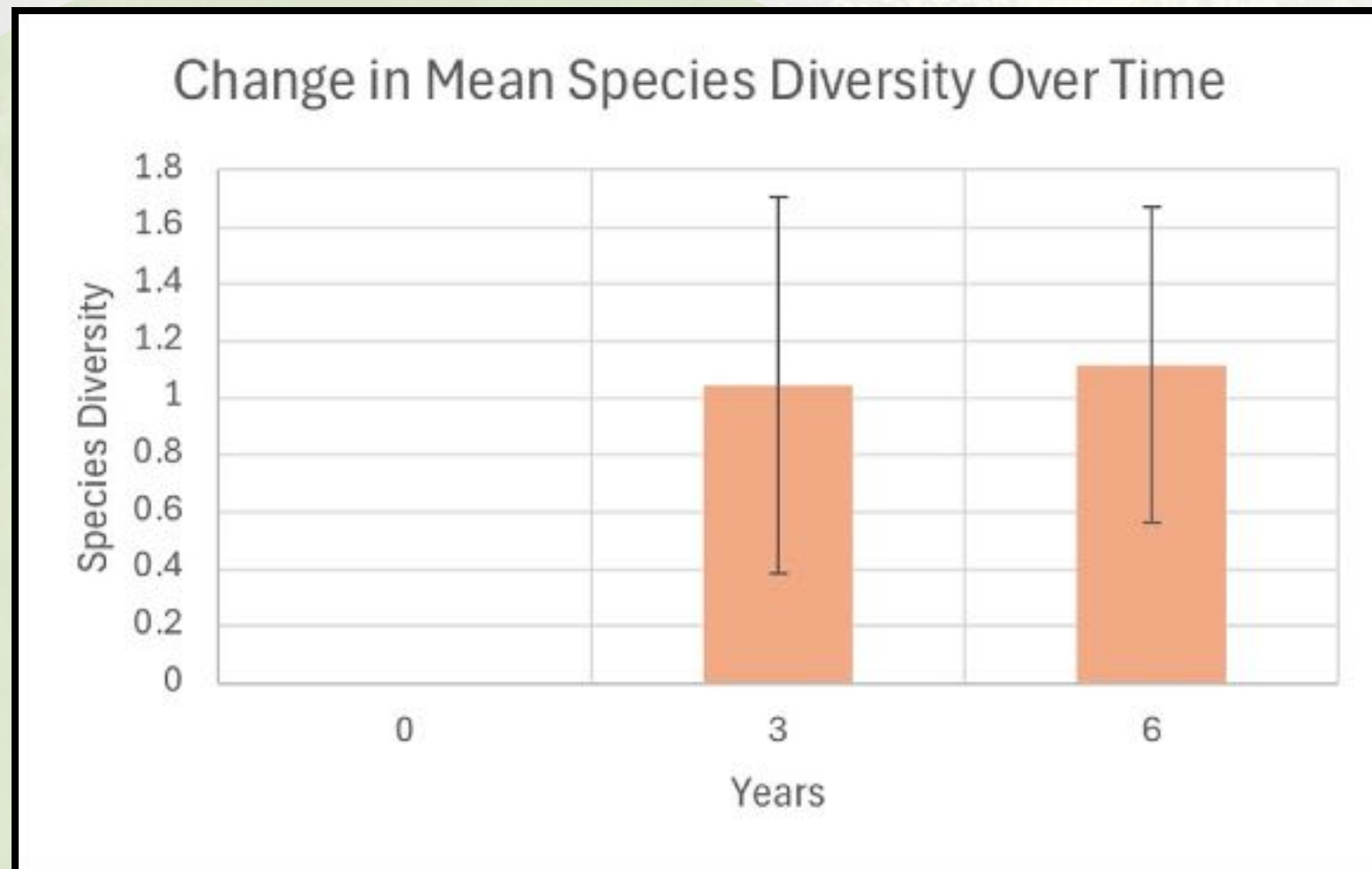
Dosers in Three Forks watershed are currently being updated for remote access for monitoring and adjustment





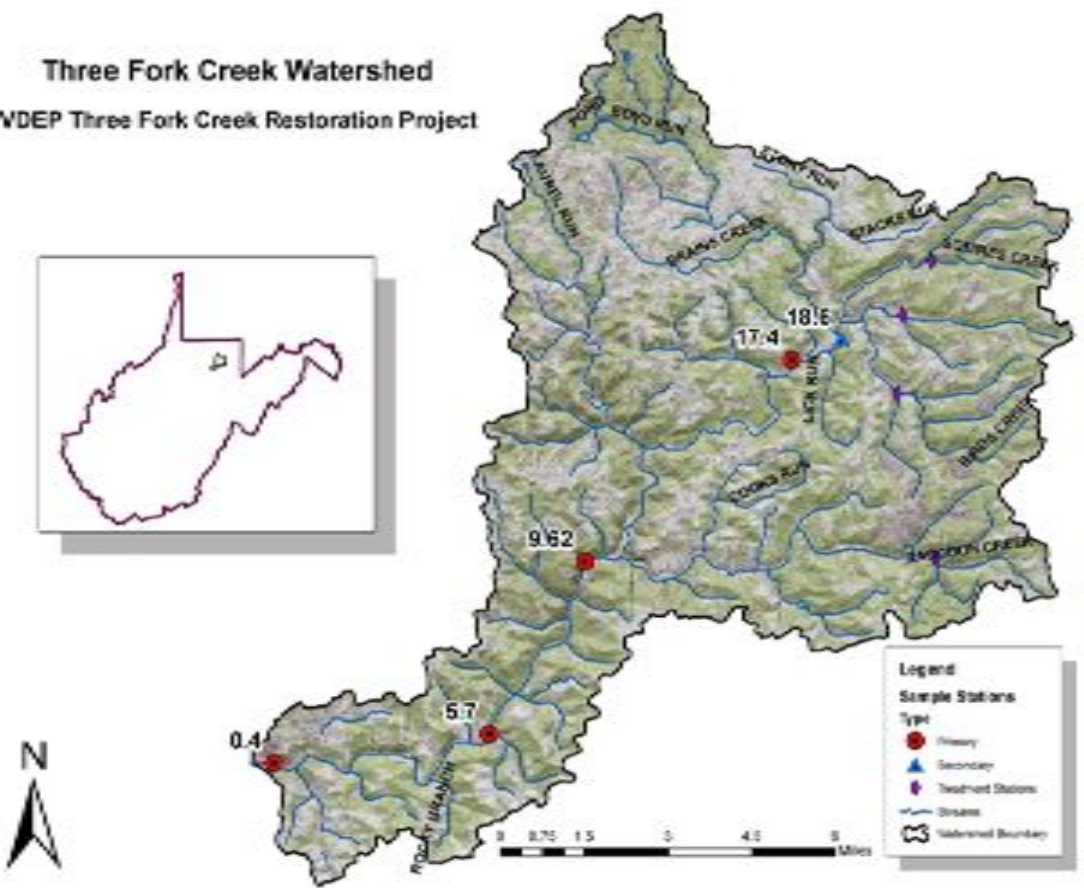
# Fish Community Metrics

## Fish Species Diversity and Richness Below Active In-stream Dosers Before and After Construction



# Fish Community Composition

Three Fork Creek Watershed  
WVDEP Three Fork Creek Restoration Project



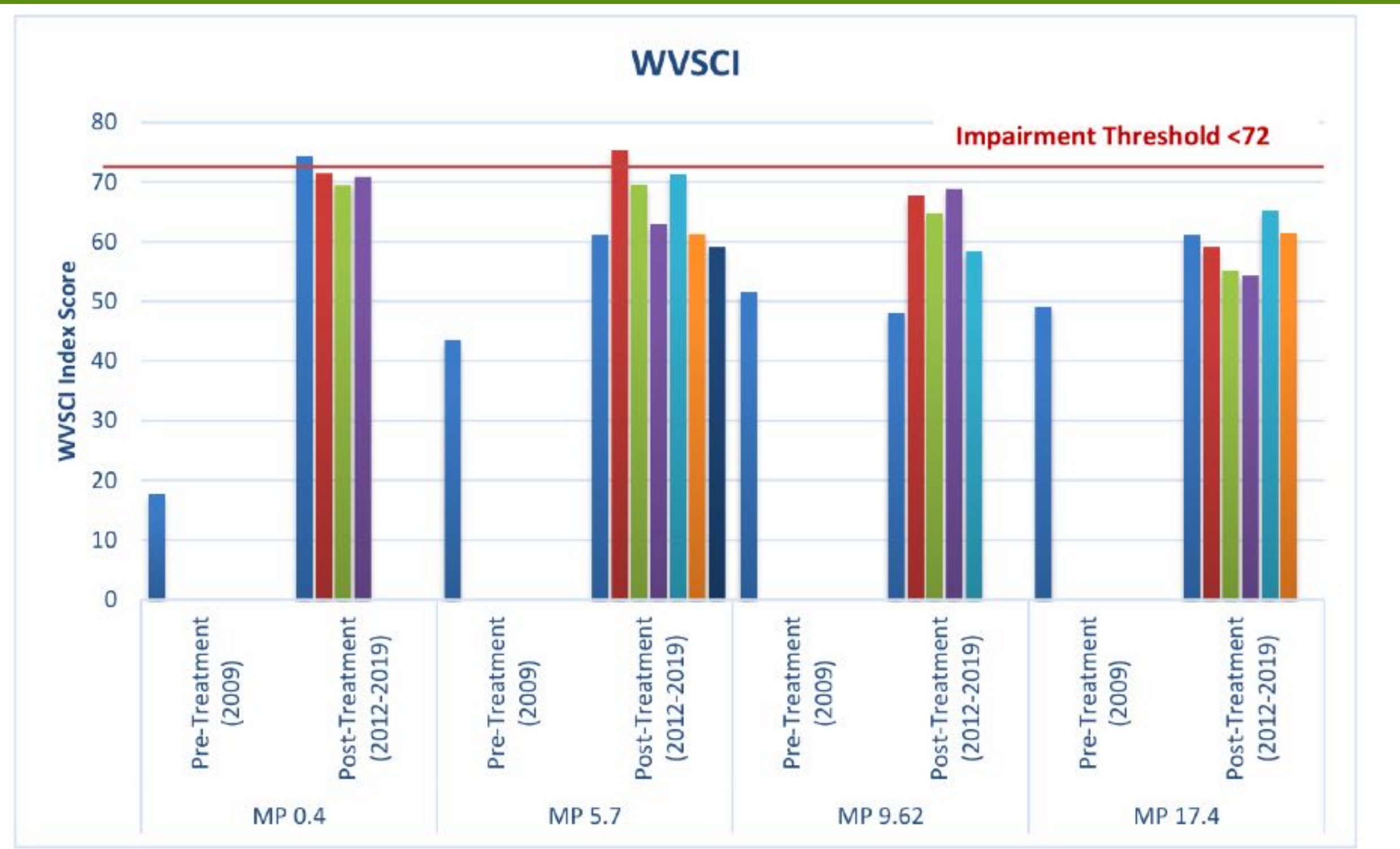
Station 0.4					
Species	2009	2012	2014	2016	2019
Green Sunfish	No Fish Present	35	No Sample Collected	8	35
Northern Hogsucker		4		3	14
Smallmouth Bass		262		125	69
River Chub		67		24	16
Rock Bass		59		56	28
Greenside Darter		176		198	377
Fantail Darter		17		10	67
Johnny Darter		13		1	9
Rosyface Shiner		255		20	25
Spotfin Shiner		19		2	33
Sand Shiner		2		73	5
Yellow Bullhead		3		1	6
Logperch		1		5	
Central Stoneroller		8		6	10
Bluntnose Minnow		3		1	
Blackside Darter		1			
Silver Shiner		25		21	6
Mimic Shiner			118		
Longnose Dace			1		
Mottled Sculpin			1		
<b>Total Species Collected</b>	0	17		16	17
<b>Total Fish Collected</b>	0	950		554	700
<b>Fish/m</b>	0.00	2.38		1.39	1.75

Table 6-Fish community results for Station 0.4.

Station 17.4					
Species	2009	2012	2014	2016	2019
White Sucker	No Fish Present	13	1	1	1
Creek Chub		377	259	377	266
Western Blacknose Dace		46	2	22	40
Spotted Bass			1		
Largemouth Bass				5	
Mottled Sculpin				1	34
<b>Total Species Collected</b>	0	3	4	5	4
<b>Total Fish Collected</b>	0	436	263	406	341
<b>Fish/m</b>	0.00	1.61	0.97	1.50	1.26

Table 9-Fish community results for Station 17.4.

# Macroinvertebrate Community Metrics

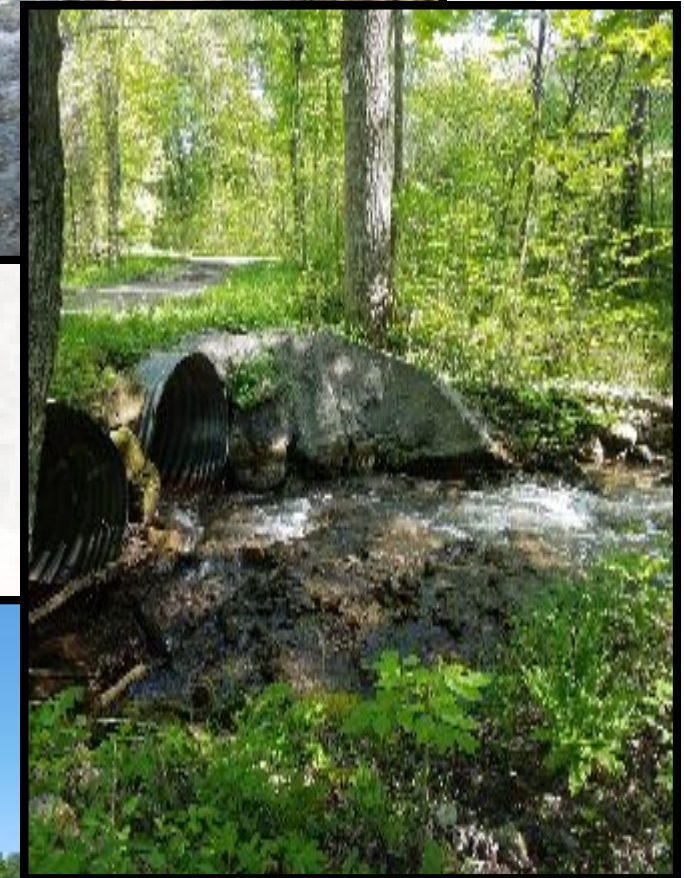


# Beaver Creek Watershed Remediation

➤ Save the Tygart is developing a watershed-based plan Beaver Creek watershed

➤ Existing passive treatment is antiquated and only effective intermittently

➤ WVDEP AML is considering a watershed-based approach to treating the many sources of AMD within the watershed



# Roaring Creek Passive Treatments

➤ Save the Tygart is undertaking the construction of passive treatment systems in the Roaring Creek Watershed

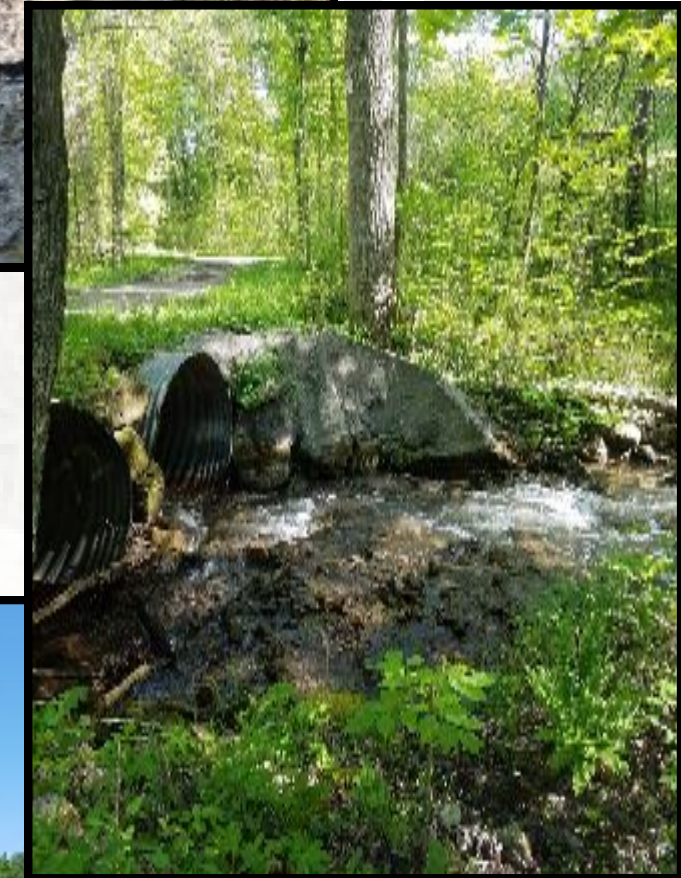
➤ STTWA is working with WVVRI on multiple projects to address the North Portals and Mars portals of Roaring Creek tributaries



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# THANK YOU



[www.savethetygart.org](http://www.savethetygart.org)