

# Van Duzen Mainstem at Shakefork



# Hydesville at Hely Creek



# Exploring and Observing



# What's in the River? Taking samples







# Finding Surprises



# What have we here?





# Keeping Data





- What temperature do salmon prefer?
- What temperature is lethal to salmon?
- What fish prefers a warmer temperature?

# The World of Macroinvertebrates



What do we find? What does it mean.



# Scoping it out



# Young Scientists in the Redwoods.



# What do we see?



# Mayfly





# Stonefly



# Caddisfly



We found a good  
diversity of  
macroinvertebrates.

Dragonfly larvae

Black Fly larvae

Mayflies

Caddis Flies

Water Penny Beetles



# Dragonfly



# Collecting the Rocks D50



# William working the rocks and the river



Measuring across the rock.



# D50

How does the D50 data collection work?

Why is it part of every good habitat study?

Why collect rock samples?

What does it tell us?





You try it! Here is our data. What is the median? What does it mean?



# Installing Hobo Water Temperature Pro v2 Onset Probes

Together with our TEAM of resource specialists, the Young Scientists placed 12 out of our 24 probes in the Van Duzen

Watershed in the summer of 2016.

Friends of the Van Duzen and Friends of the Eel have been installing probes for the past 4 years.

In the summer of 2015, for the 1<sup>st</sup> time, we retrieved 100% of our probes.

What happened to them?

We are hoping for a 100% retrieval rate in the summer of 2016.

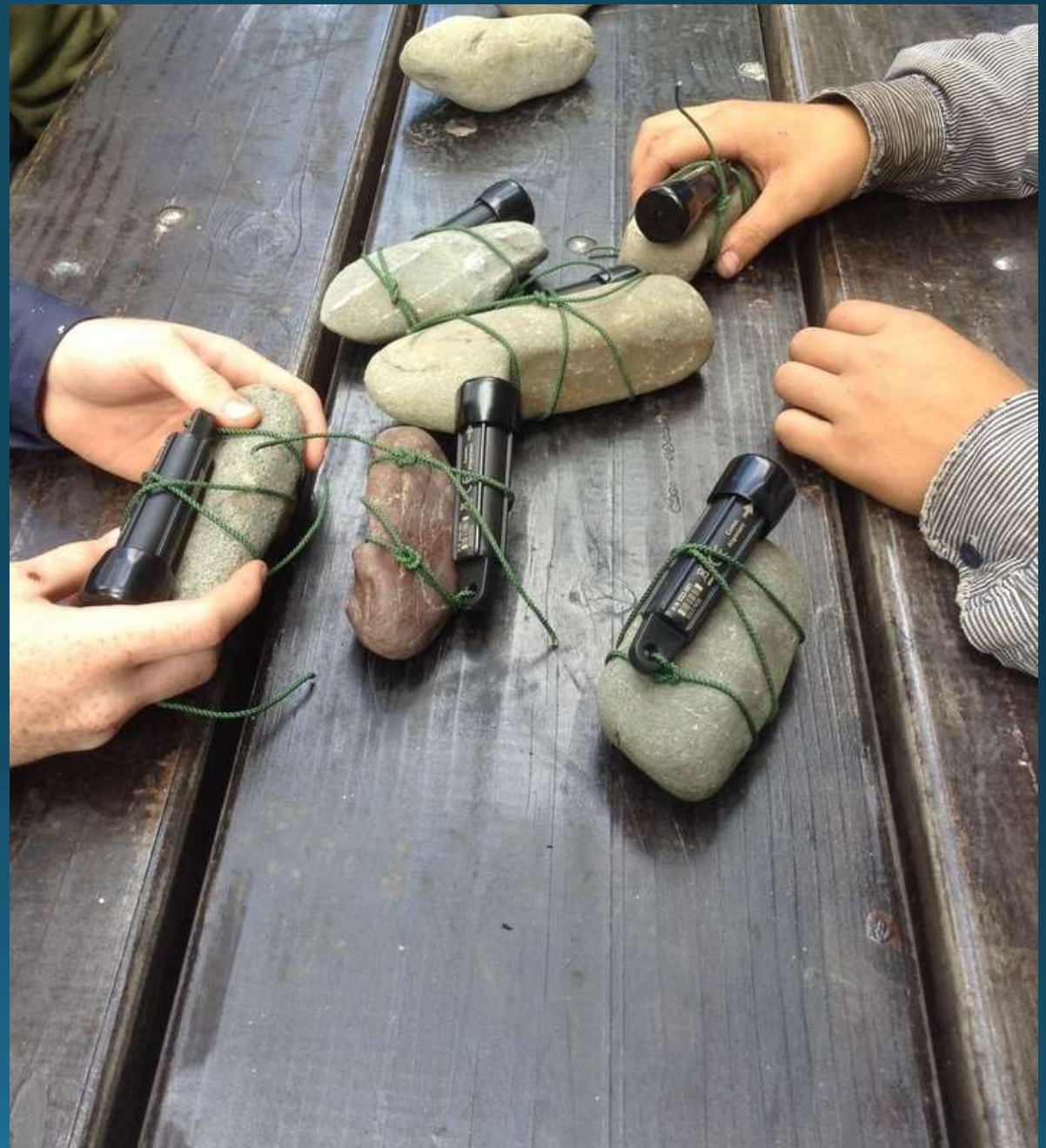


# Probe Silence Vow

Students in the Kids in the Woods Young Scientist Project took a vow of silence as to the exact locations of the temperature probes.

Along with the resource scientists, the young scientists will be retrieving probes in the last week of September and the first week of October.

Will we get them all? We shall see. Stay tuned for data analysis of temperature in the Van Duzen Watershed.



Heading up river on a hot summer day.



# Taking depth and surveying for aquatic species.



## Taking a look.

15 Pike Minnows 4-6 inches

1 Roach in the Moss

2 Pike Minnow 18 inches long



William photographs an unknown species.



# Nathan straps on snorkel and mask





Justin explores with a GoPro underwater camera.



# Teamwork is a key factor to success!



# Learn from the Master : Biologist Pat Higgins



# Be the Next Generation of Scientists

