

Snapshot Day 10/20/15 Data
Mohawk River Valley
SCHOHARIE RIVER SITE RIVER MILE
Middleburgh, NY
Mollie Burgett, Middleburgh High School & 11 students 11/12th grade
42.599640 Lat and -74.337176 Long



Middleburgh Sampling Team



Macroinvertebrate sampling

Greensided darter

Location: On the Schoharie Creek by the Bridge Into Middleburgh, Schoharie County
Sample location runs right along river street (one of the main streets in the village) and is full of cobbles, some grasses and short shrubs under 4 feet tall. The trees along the bank on one side make a break between the road and the creek and the other side divide the creek from farm fields.

Surrounding Land Use: 45% urban/residential, 45% farmland, 10 % forested

Shoreline: Banks altered, Riprap, Concrete blocking, 1 stormdrain of some sort occasionally discharges in to the creek just down from the sample site. Lots of cobbles in stream channel, area covered in vegetation

River Bottom: Mostly rocky although sandy and muddy and brick on ground

Water Depth: 30 cm

Water Conditions: Calm, clear

Plants in water: 90 % algae, covered rocks (cobbles)

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|--|--|--|--|------------------------------|
| Physical | | | | |
| Air Temperature | 8:40 AM 8:39 AM 9:10 AM | 14°C 14°C 10.5°C | | |
| Wind Speed | | Beaufort #1 | none | |
| Cloud Cover | 8:40 AM | 26-51% | | |
| Weather today | 10:00 AM | sprinkles /light rain | | |
| Weather recently | 40s and some snow | | | |
| Water Temperature | 9:30 AM | 8°C – 2 ft depth 9°C – ½ ft | Riffle | |
| | 8:45 AM | 8°C – ½ ft. 9 9 | Still water | |
| Turbidity 60 cm Site tube | 8:30 AM | >60 cm clarity | | |
| Chemical | | | | |
| DO – drop count – old kit Riffle | 9:25 AM | 8.5°C | 10.4 mg/L | 90% |
| Still Old kit | 8:36 AM 8:38 AM 9:05 AM | 9°C | 7 16.6 ?? 13.6 ?? | 60% 150% 120% |
| pH – test strips Average - 6.5 | Still water 9:05 AM 9:20 AM 9:20 AM 9:45 AM | 7 6 6 7 | Riffle 9:09 AM 9:30 AM 9:45 AM | 6.5 6 6.5 |
| Flow Rate (no current up here) | Riffle | 92.2 cm/sec 140 cm/sec 14 cm/sec | Used stick Used leaf Used stick | |
| | Still water | 14.67cm/sec 46 cm/sec 2.9 cm/sec | Used stick Used leaf Used leaf | |
| Fish –kick net 9:30 AM | 1 | Greensided darter | 6 cm - | DIV – 2 TOTAL- 14 |
| Butterfly net by hand | 13 | Shiners | 7 cm | |
| Large Macros | 4 | Rusty Crayfish | Invasive – 3 F /1 M | Div – 1 Total 4 |
| Macroinvertebrates | Number | Species | 2:00 PM | Diversity 7 |
| Kicknet & hand net | 1 | Fishfly larvae | | Totals 142 |
| | 104 | Mayfly larvae | | |
| | 11 | Helgramite | | |

| | | | | |
|----------------------------|-------------------|---------------|---------------|-----------------|
| | 7 | Stonefly | | |
| | 2 | Riffle Beetle | | |
| | 1 | Water Penny | | |
| | 17 | Caddisfly | | |
| <i>Core Sample</i> | Length | Rare | Common | Abundant |
| | No soil | | | |
| <i>Observations</i> | 1 bird, dead vole | | | |