

## SUMMARY OF RESULTS - FIBI022



| 1. Stream Name: | Six Mile Run |
| :--- | :--- |
| 2. Sampling Date: | $6 / 22 / 2006$ |
| 3. Sampling Location: | South Middlebush Road |
| 4. Municipality | Franklin Twp. |
| 5. County: | Somerset |
| 6. Watershed Management Area: | 10 |
| 7. Contributing Drainage Area (Sq. Mi.): | 11.1 |
| 8. Electrofishing Gear: | 2 Backpacks |
| 9. FIBI Score and Rating: | Round 1* Fair (36); Round 2 Fair (34) |
| 10. Habitat Score and Rating: | Round 1 Sub-Optimal (145); Round 2 Sub-Optimal (130) |
| 11. Fishable Species Present: | Yes |
| 12. Relevant AMNET ${ }^{1}$ Station Data: |  |
| $\quad$ Proximity of FIBI station to AMNET station: | $1.6 m i$ upstream AN0409 |
| AMNET Rating: | 1993 - Moderate; 1998 - Moderate; 2004 - Moderate |
| 13. Stream Chemistries: |  |
| $\quad$ Dissolved Oxygen (mg/l) | 7.79 |
| $\quad$ Temperature ${ }^{\text {O}} \mathrm{C}$. | 19.72 |
| pH | 6.56 |
| Conductivity ( $\mu$ mhos/cm) | 372 |
| 14. Length of Stream Sampled: | 150 m |
| 15. Water Clarity: | Slightly Turbid |
| 16. Average Open Forest Canopy: | $7 \%$ |
| 17. Discharge: | 8.8 cfs |
| 18. Substrate: | $30 \%$ Gravel/Sand, 10\% Cobble, 40\% Silt, 20\% Bedrock |
| 19. Habitat: | $25 \%$ Riffle, $65 \%$ Run, 10\% Pool |
| 20. Snags: | Yes |
| 21. Periphyton: | Moderate |
| 22. Submerged Aquatic Vegetation: | No |
| 23. Outfalls: | 1 |
| 24. Number of Fish Species Identified: | 19 |
| 2. Total Number of Fish Collected: | 527 |
| 26. Number of Fish With Anomalies: | 3 |
| 27. Other Observations: | Heavy fine sediment deposition |

1. Stream Name:
2. Sampling Date
3. Municipality
. County:
4. Contributing Drainage Area (Sq. Mi.):
.Electrofishing Gear:
5. FIBI Score and Rating
6. Habitat Score and Rating:
.

Proximity of FIBI station to AMNET station: AMNET Rating:

Dissolved Oxygen (mg/l)
perature ${ }^{0} \mathrm{C}$.

Conductivity ( $\mu \mathrm{mhos} / \mathrm{cm}$ )
4. Length of Stream Sampled:
16. Average Open Forest Canopy:

Discharge
19. Habitat:
20. Snags:
21. Periphyton:
22. Submerged Aquatic Vegetation
24. Number of Fish Species Identified
26. Number of Fish With Anomalies:
27. Other Observations:

Six Mile Run
教

Franklin Twp.
omerset
11.1

2 Backpacks
Round 1* Fair (36); Round 2 Fair (34)
Round 1 Sub-Optimal (145); Round 2 Sub-Optimal (130)
.6mi upstream AN0409
1993 - Moderate; 1998 - Moderate; 2004 - Moderate
7.79
19.72
6.56

372

Slightly Turbid
7\%

30\% Gravel/Sand, 10\% Cobble, 40\% Silt, 20\% Bedrock
25\% Riffle, 65\% Run, 10\% Pool

No
1

27

Heavy fine sediment deposition

[^0]

| FIBIO22-Six Mile Run @ S Middlebush Road Excellent GoodDate Sampled $-6 / 22 / 2006$ | Fair |
| :---: | :---: |
|  |  |
|  | Score |
| \# of Fish Species | 5 |
| \# of Benthic Insectivorous Species (BI) | 3 |
| (excluding White Suckers and Bullheads) |  |
| \# of Trout and Centrarchid Species | 3 |
| (excluding Green Sunfish and Bluegill) |  |
| \# of Intolerant Species (IS) | 1 |
| Proportion of Tolerant Individuals | 3 |
| Proportion of Individuals as Generalists | 5 |
| Proportion of Individuals as Insectivorous Cyprinids | 1 |
| Proportion of Individuals as Trout *whichever gives better score OR |  |
| Proportion of Individuals as Piscivores (excluding American Eel)* | 3 |
| \# of Individuals in Sample <br> (excluding Tolerant Species) | 5 |
| Proportion of Individuals w/disease/anomalies (excluding blackspot) | 5 |
| Total | 34 |

Total


| HABITAT SCORE |
| :---: |
| 130 |


| HABITAT SCORES | VALUE |
| :--- | :---: |
| OPTIMAL | $160-200$ |
| SUB-OPTIMAL | $\mathbf{1 1 0 - \mathbf { 1 5 9 }}$ |
| MARGINAL | $60-109$ |
| POOR | $<60$ |

FIBI022-R2

## Common Name

Tessellated Darter
American Eel
White Sucker
Longnose Dace
Pumpkinseed
Common Shiner
Creek Chub
Spottail Shiner
Swallowtail Shiner
Redbreast Sunfish
Green Sunfish
Fallfish
Redfin Pickerel
Banded Killifish
Blacknose Dace
Largemouth Bass
Yellow Bullhead
Bluegill
Brown Bullhead

Scientific Name
Etheostoma olmstedi
Anguilla rostrata
Catostomus commersoni
Rhinichthys cataractae
Lepomis gibbosus
Luxilus cornutus
Semotilus atromaculatus
Notropis hudsonius
Notropis procne
Lepomis auritus
Lepomis cyanellus
Semotilus corporalis
Esox americanus americanus
Fundulus diaphanus
Rhinichthys atratulus
Micropterus salmoides
Ameiurus natalis
Lepomis macrochirus
Ameiurus nebulosus

| Abundance | Size Range (inches) |
| :---: | :---: |
| 275 | - |
| 67 | - |
| 46 | - |
| 40 | - |
| 14 | 1.8-3.6 |
| 13 | - |
| 11 | - |
| 10 | - |
| 9 | - |
| 8 | 1.5-6.1 |
| 7 | 1.6-4.5 |
| 6 | - |
| 6 | 2.0-2.9 |
| 5 | - |
| 4 | - |
| 2 | 4.1-5.8 |
| 2 | 4.1-7.6 |
| 1 | 1.8-1.8 |
| 1 | 5.1-5.1 |

## Species Identified at Six Mile Run (FIBIO22)

(Not to Scale)


White Sucker


Tessellated Darter


Swallowtail Shiner


Blacknose Dace


Yellow Bullhead


Redbreast Sunfish

## Species Identified at Six Mile Run (FIBIO22)

(Not to Scale)


Green Sunfish


Creek Chub


Banded Killifish


Redfin Pickerel


Common Shiner


Longnose Dace

## Species Identified at Six Mile Run (FIBIO22)

(Not to Scale)


Pumpkinseed


Spottail Shiner


Fallfish


American Eel


Largemouth Bass

## Species Identified at Six Mile Run (FIBIO22)

(Not to Scale)


Brown Bullhead


[^0]:    ${ }^{1}$ AMNET is the acronym for the DEP's ambient benthic macroinvertebrate monitoring network - a series of 820 monitoring stations located throughout the state's waterways that collects data on the health of bottom dwelling stream fauna which in turn is used to assess general water quality
    Round 1 data was scored prior to the FIBI metric recalibration.

