

SUMMARY OF RESULTS FIBI070 - Stony Brook



 2. Sampling Date: 07-18-2003 3. Sampling Location: CR 583 4. Municipality Princeton 5. County: Mercer 6. Watershed Management Area: 10 7. Contributing Drainage Area: 45.1 Square Miles 8. Electrofishing Gear: 2 Backpack 9. FIBI Score and Rating: 124 - Suboptimal 10. Habitat Score and Rating: 124 - Suboptimal 11. Fishable Species Present: Yes 12. Relevant AMNET Station Data: Proximity of FIBI station to AMNET station: AMNET Rating: 0.47 mi downstream AN0393 remperature. 21.3 ^oC pH pH conductivity 314 µmhos/cm 14. Number of Fish With Anomalies: 1 Bluegill with deformities 15. Length of Stream Segment Sampled 150 Meters 16. Water Clarity: Clear 7. Average Forest Open Canopy: 77.5% 18. Discharge: 61.ft.³/sec 19. Substrate: 20% Gravel and Sand, 30% Cobble, 20% Silt 20. Habitat: 20% Riftle, 70% Run, 10% Pool 21. Snags Yes 22. Periphyton Moderate 23. Submerged Aquatic Vegetation Yes 24. Other observations: 20 24. Total Number of Fish Decies Identified: 20 26. Total Number of Fish Collected: 285 	1. Stream Name:	Stony Brook
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24. Other observations:25. Number of Fish Species Identified:20		Moderate
25. Number of Fish Species Identified: 20	23. Submerged Aquatic Vegetation	Yes
26. Total Number of Fish Collected:285		20
	26. Total Number of Fish Collected:	285

 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.

² A small, isolated pool located on the north side of County Route 583 and on the west side of Stony Brook contained the only Salmonids found in this survey. There was a temp. difference of $3^{\circ}C(18.3^{\circ}F)$ in the pool apparently caused by upwelling groundwater.

FIBI070 STONY BROOK ROUTE 583 PRINCETON TOWNSHIP, MERCER COUNTY



FIBI070 - Stony Bro Date Sampled - 7/1	•	Excellent	Good	Fair	Poor
# of Fish Species				Score 5	
# of Benthic Insectiv	rorous Species (BI)			5	
# of Trout and Centr	archid Species (trout, bass	, sunfish, crappie)		5	
# of Intolerant Speci	es (IS)			5	
Proportion of Individ	uals as White Suckers			5	
Proportion of Individ goldfish, fathead minnow	uals as Generalists (carp, cre	eek chub, banded killifish,		5	
-	uals as Insectivorous Cypr	inids (I and BI)		1	
Proportion of Individ OR	uals as Trout *	whichever gives better	rscore		
	uals as Piscivores (Excludi	ng American Eel)*		1	
Number of Individua	ls in Sample			5	
Proportion of Individ	uals w/disease/anomalies (excluding blackspot)		5	
Total				42	
Stream I	Rating				
45-50	Excellent				
37-44	Good				

29-36

10-28

Fair

Poor

HABITAT ASSESSMENT FOR *HIGH* GRADIENT STREAMS Stony Brook (FIBI070) – 7/18/03

			Category	-	
	Optimal	Suboptimal	Marginal	Poor	
1. Epifaunal Substrate /Available Cover	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and not transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lac of habitat is obvious; substrate unstable or lacking.	
SCORE 16	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0	
2. Embeddedness	Gravel, cobble, and boulder particles are 0-25% surrounded by fine sediment. Layering of cobble provides diversity of niche space	Gravel, cobble, and boulder particles are 25-50% surrounded by fine sediment.	Gravel, cobble, and boulder particles are 50-75% surrounded by fine sediment.	Gravel, cobble, and boulder particles are more than 75% surrounded by fine sediment.	
SCORE 13	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0	
3. Velocity/Depth Regimes	All 4 velocity/depth regimes present (slow-deep, slow-shallow, fast-deep, fast-shallow). (slow is <0.3 m/s, deep is >0.5 m)	Only 3 of the 4 regimes present (if fast-shallow is missing, score lower than if missing other regimes).	Only 2 of the 4 habitat regimes present (if fast-shallow or slow- shallow are missing, score low).	Dominated by 1 velocity / depth regime (usually slow-deep).	
SCORE 16	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1	
4. Sediment Deposition	Little or no enlargement of islands or point bars and less than 5% (<20% for low-gradient streams) of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment; 5-30% (20-50% for low-gradient) of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 30-50% (50- 80% for low-gradient) of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; mor than 50% (80% for low-gradient of the bottom changing frequently; pools almost absent due to substantial sediment deposition.	
SCORE 13	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1	
5. Channel Flow Status SCORE 10	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.2019181716	Water fills >75% of the available channel; or <25% of channel substrate is exposed. 15 14 13 12 11	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed. 10 9 8 7 6	Very little water in channel and mostly present as standing pools	
SCORE IV	Channelization or dredging	Some channelization present,	Channelization may be extensive;	Banks shored with gabion or	
6. Channel Alteration	absent or minimal; stream with normal pattern.	some chamerization present, usually in areas of bridge abutments; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present, but recent channelization is not present.	embankments or shoring structures present on both banks; and 40 to 80% of stream reach channelized and disrupted.	cement; over 80% of the stream reach channelized and disrupted In stream habitat greatly altered or removed entirely.	
SCORE 18	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1	
7. Frequency of Riffles (or bends)	Occurrence of riffles relatively frequent; ratio of distance between riffles divided by width of the stream <7:1 (generally 5 to 7); variety of habitat is key. In streams where riffles are continuous, placement of boulders or other large, natural obstruction is important.	Occurrence of riffles infrequent; distance between riffles divided by the width of the stream is between 7 to 15.	Occasional riffle or bend; bottom contours provide some habitat; distance between riffles divided by the width of the stream is between 15 to 25.	Generally all flat water or shallor riffles; poor habitat; distance between riffles divided by the width of the stream is a ratio of >25.	
SCORE 13	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1	
8. Bank Stability (score each bank) Note: determine left or right side by facing downstream.	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion; high erosion potential during floods.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious bank sloughing; 60- 100% of bank has erosional scar	
SCORE <u>1</u> (LB) SCORE <u>4</u> (RB)	Left 10 9 Right 10 9	8 7 6 8 7 6	5 4 3 5 4 3	2 1 0 2 1 0	
SCORE <u>4</u> (RB) 9. Bank Vegetative Protection (score each bank)	Right 10 9 More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, under story shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	8 / 6 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	5 4 3 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.	2 1 0 Less than 50% of the streambani surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.	
SCORE (LB)	Left 10 9	8 7 6	5 4 3	2 1 0	
SCORE 2 (RB) 10. Riparian Vegetative Zone Width (score each bank riparian	Right 10 9 Width of riparian zone >18 meters; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, or crops) have not 9	8 7 6 Width of riparian zone 12-18 meters; human activities have impacted zone only minimally.	5 4 3 Width of riparian zone 6-12 meters; human activities have impacted zone a great deal.	2 1 0 Width of riparian zone <6 meter little or no riparian vegetation du to human activities.	
zone) SCORE8 (LB)	impacted zone. Left 10 9	8 7 6	5 4 3	2 1 0	
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habitat score 124

HABITAT SCORES	VALUE
OPTIMAL	160 - 200
SUB-OPTIMAL	110 - 159
MARGINAL	60 - 109
POOR	< 60

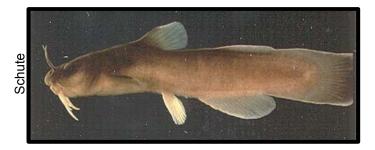
FIBI070 07-18-2003

Stony Brook

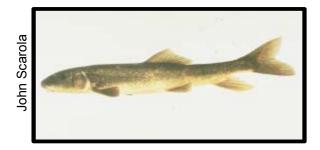
LISTED IN ORDER OF ABUNDANCE FOUND

COMMON NAME	SCIENTIFIC NAME	# FOUND	SIZE RANGE (INCHES)
American eel	Anguilla rostrata	54	
Rock bass	Ambloplites rupestris	41	2.6 - 5.5
Redbreast sunfish	Lepomis auritus	41	1.6 - 6.7
Pumpkinseed sunfish	Lepomis gibbosus	25	2.6 - 4.7
Tesselated darter	Etheostoma olmstedi	21	
Banded killifish	Fundulus diaphanus	19	
Green sunfish	Lepomis cyanellus	17	1.8 - 4.5
Bluegill sunfish	Lepomis macrochirus	15	2.2 - 5.3
Swallowtail shiner	Notropis procne	13	
White sucker	Catostomus commersoni	13	
Satinfin shiner	Cyprinella analostana	10	
Common shiner	Luxilus cornutus	4	
Largemouth bass	Micropterus salmoides	2	2.6 - 12.2
Spottail shiner	Notropis hudsonius	2	
Rainbow trout	Oncorhynchus mykiss	2	11.8 - 12.6
Golden shiner	Notemigonus crysoleucas	2	
Brook trout	Salvelinus fontinalis	1	9.4
Blacknose dace	Rhinichthys atratulus	1	
Margined madtom	Noturus insignis	1	
Creek chub	Semotilus atromaculatus	1	

* Regulated as a fishable species under current New Jersey Fish and Wildlife codes



Margined Madtom



White Sucker

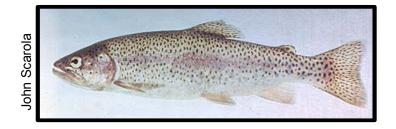
John Scarola



Bluegill



Largemouth Bass



Rainbow Trout



Blacknose Dace



Creek Chub



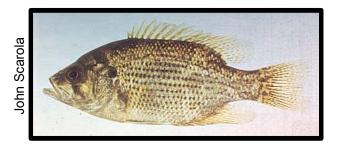
Pumpkinseed



Tesselated Darter



Green Sunfish



Rock Bass



Brook Trout



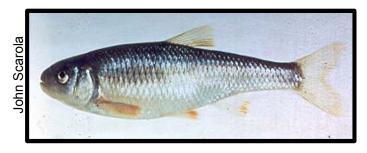
Redbreast Sunfish







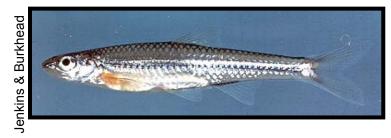
American Eel



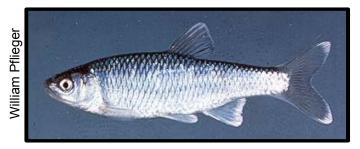
Common Shiner



Spottail Shiner



Swallowtail Shiner



Satinfin Shiner



Banded Killifish