

BRYANT'S CREEK LAKE
Morgan County
2007 Supplemental Evaluation

Date of Survey: 8/13/2007

Biologist: Jamie L. Smyth

Survey Objectives: Evaluate the stocking success of Bryant's Creek Lake and determine if further stocking is necessary.

Methods: Survey effort consisted of 0.34 h (one lap around the lake) of nighttime DC electrofishing. Collected fish were measured to the nearest 0.1 in TL.

Summary: Bryant's Creek is a 9 acre lake located within Morgan-Monroe State Forest. In the spring of 2006, the lake was drained to make repairs to the dam and levee. Upon completion of repairs, the lake refilled to normal pool that winter. Bryant's Creek was restocked by the Division of Fish and Wildlife (DFW) in the spring of 2007 with 6,768 bluegill, 2,212 redear sunfish, 643 largemouth bass, and 2,251 channel catfish.

Excluding a few sub-adult and adult surplus fish, the majority of fish stocked were fingerlings.

There were 141 fish collected and three species comprised the sample. A total of 88 bluegill was collected that ranged in length from 1.0 to 7.0 in and averaged 2.6 in. The CPUE for bluegill was 258.8/h. More than half (57%) of the bluegill collected were 1.0 to 1.5 in and were likely spawned in 2007. There were 44 largemouth bass collected that ranged in length from 2.3 to 19.3 in and averaged 5.8 in. Bass CPUE was 129.4/h. Fifty-seven percent of bass collected (2.3 to 4.0 in) were likely spawned in 2007. The rest were likely stocked by the DFW with exception of the 19.3-in largemouth which was likely stocked by an outside source. Nine redear sunfish were collected that ranged in length from 3.8 to 7.5 in and averaged 6.5 in. Redear CPUE was 26.5/h.

The fisheries recovery and restocking efforts at Bryant's Creek Lake appear to be a success. Anglers should expect to see good numbers of harvestable size bluegill and

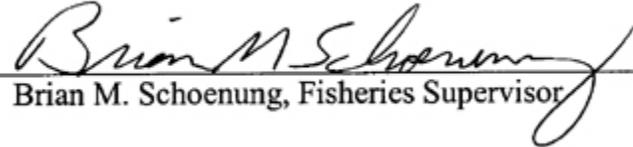
reappear within the next year. It will take a couple more years for decent numbers of 14 in and greater largemouth to be present. The large amount of catfish stocked should allow for some excellent fishing opportunities. Annual stockings of channel catfish are scheduled at a rate of 60, 8 in fish per acre (540 total). Excluding annual catfish stockings, no further stockings are required.

Submersed vegetation has been a problem in the past at Bryant's Creek. Starting again in 2009, the lake should be monitored and possibly treated for submersed vegetation on an annual basis. This will allow for improved angler access and make nutrients more available for fish production. Morgan-Monroe State Forest is responsible for purchasing the needed chemicals and DFW personnel will conduct the treatments if necessary.

Submitted by: Jamie L. Smyth, Assistant Fisheries Biologist

Date: July 25, 2008

Approved by: J. Rhett Wisener, Fisheries Biologist

Approved by: 
Brian M. Schoenung, Fisheries Supervisor

Date: December 17, 2008

NUMBER, PERCENTAGE, WEIGHT, AND AGE OF BLUEGILL

TOTAL LENGTH (inches)	NUMBER COLLECTED	PERCENT OF FISH COLLECTED	AVERAGE WEIGHT (pounds)	AGE OF FISH	TOTAL LENGTH (inches)	NUMBER COLLECTED	PERCENT OF FISH COLLECTED	AVERAGE WEIGHT (pounds)	AGE OF FISH
1.0	25	28.4			19.0				
1.5	25	28.4			19.5				
2.0					20.0				
2.5					20.5				
3.0	12	13.6			21.0				
3.5	13	14.8			21.5				
4.0	4	4.5			22.0				
4.5					22.5				
5.0	1	1.1			23.0				
5.5	3	3.4			23.5				
6.0	2	2.3			24.0				
6.5	2	2.3			24.5				
7.0	1	1.1			25.0				
7.5					25.5				
8.0					26.0				
8.5					TOTAL	88			
9.0									
9.5									
10.0									
10.5									
11.0									
11.5									
12.0									
12.5									
13.0									
13.5									
14.0									
14.5									
15.0									
15.5									
16.0									
16.5									
17.0									
17.5									
18.0									
18.5									

ELECTROFISHING CATCH	258.8/h	GILL NET CATCH	NA	TRAP NET CATCH	NA
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NUMBER, PERCENTAGE, WEIGHT, AND AGE OF LARGEMOUTH BASS

TOTAL LENGTH (inches)	NUMBER COLLECTED	PERCENT OF FISH COLLECTED	AVERAGE WEIGHT (pounds)	AGE OF FISH	TOTAL LENGTH (inches)	NUMBER COLLECTED	PERCENT OF FISH COLLECTED	AVERAGE WEIGHT (pounds)	AGE OF FISH
1.0					19.0	1	2.3		
1.5					19.5				
2.0	2	4.5			20.0				
2.5	12	27.3			20.5				
3.0	6	13.6			21.0				
3.5	4	9.1			21.5				
4.0	1	2.3			22.0				
4.5					22.5				
5.0					23.0				
5.5					23.5				
6.0					24.0				
6.5	1	2.3			24.5				
7.0	1	2.3			25.0				
7.5					25.5				
8.0	5	11.4			26.0				
8.5	3	6.8			TOTAL	44			
9.0	2	4.5							
9.5	3	6.8							
10.0	1	2.3							
10.5	1	2.3							
11.0									
11.5	1	2.3							
12.0									
12.5									
13.0									
13.5									
14.0									
14.5									
15.0									
15.5									
16.0									
16.5									
17.0									
17.5									
18.0									
18.5									

ELECTROFISHING CATCH	129.4/h	GILL NET CATCH	NA	TRAP NET CATCH	NA
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NUMBER, PERCENTAGE, WEIGHT, AND AGE OF REDEAR

TOTAL LENGTH (inches)	NUMBER COLLECTED	PERCENT OF FISH COLLECTED	AVERAGE WEIGHT (pounds)	AGE OF FISH	TOTAL LENGTH (inches)	NUMBER COLLECTED	PERCENT OF FISH COLLECTED	AVERAGE WEIGHT (pounds)	AGE OF FISH
1.0					19.0				
1.5					19.5				
2.0					20.0				
2.5					20.5				
3.0					21.0				
3.5	1	11.1			21.5				
4.0					22.0				
4.5					22.5				
5.0					23.0				
5.5					23.5				
6.0					24.0				
6.5	6	66.7			24.5				
7.0	1	11.1			25.0				
7.5	1	11.1			25.5				
8.0					26.0				
8.5					TOTAL	9			
9.0									
9.5									
10.0									
10.5									
11.0									
11.5									
12.0									
12.5									
13.0									
13.5									
14.0									
14.5									
15.0									
15.5									
16.0									
16.5									
17.0									
17.5									
18.0									
18.5									

ELECTROFISHING CATCH	26.5/hr	GILL NET CATCH	NA	TRAP NET CATCH	NA
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