

Bradys Run Lake

Beaver County

2020 Night Electrofishing Survey

Fisheries Management Area 1 conducted a night electrofishing survey of Bradys Run Lake on the evening of May 28, 2020. We performed 3 electrofishing runs, 20 minutes per run, totaling 1 hour of effort. Our target for this survey was the lake's Largemouth Bass population. We measured and collected scale samples from a subsample of the bass captured to calculate age and growth statistics. We will make fisheries management decisions based upon these data. Our 2020 sample is presented in Table 1 and compared to previous samples that have occurred since the lake was drained, dredged and refilled.

Table 1. Size distribution and catch rate statistics for Largemouth Bass captured by night electrofishing in Bradys Run Lake during surveys in 2013, 2017 and 2020.

| Size Group (in.) | 2013 | 2017 | 2020 |
|-----------------------------|-------------|-------------|-------------|
| 2 | 0 | 0 | 1 |
| 3 | 0 | 9 | 1 |
| 4 | 6 | 6 | 3 |
| 5 | 0 | 2 | 8 |
| 6 | 1 | 14 | 12 |
| 7 | 0 | 17 | 10 |
| 8 | 1 | 5 | 1 |
| 9 | 1 | 3 | 6 |
| 10 | 3 | 2 | 11 |
| 11 | 2 | 6 | 4 |
| 12 | 3 | 4 | 1 |
| 13 | 5 | 3 | 2 |
| 14 | 0 | 5 | 3 |
| 15 | 3 | 2 | 3 |
| 16 | 1 | 5 | 8 |
| 17 | 3 | 3 | 2 |
| 18 | 1 | 2 | 7 |
| 19 | | | 1 |
| 20 | | | |
| Total | 30 | 88 | 84 |
| Effort (hours) | 0.83 | 0.97 | 1.0 |
| CPUE (#/hour) | 36.1 | 90.7 | 84.0 |
| CPUE ≥ 12 in. | 19.3 | 24.7 | 27.0 |
| CPUE ≥ 15 in. | 9.6 | 12.4 | 21.0 |

The Largemouth Bass in Bradys Run Lake are managed under Big Bass regulations. The bass population continues to improve in size structure and abundance since the lake was refilled in 2011. The catch rates for bass equal to or greater than 12 inches and equal to or greater than 15 inches have steadily increased.



A couple of nice Bass from Bradys Run Lake

Bradys Run Lake appears to contain an over-abundance of Gizzard Shad, as was the case prior to de-watering. This promotes good growth in Largemouth Bass but this species can lead to diminished panfish populations. We will perform a trap net survey of the lake in 2021 to evaluate panfish and other species and make any necessary management adjustments based upon our findings. Bradys Run Lake will continue to be stocked with hatchery trout, both preseason and inseason.

Fisheries Management Area 1