

Records and Notes on Fishes of Great Smoky Mountains.

From August 29 to September 3, 1932, a preliminary survey of the fishes in the North Central section of the Great Smoky Mountains National Park was made. Nineteen species were taken; a few others doubtless occur in the region, but were not taken due to the short time given to the study and to their seasonal occurrence. Collections were made under special permit of Park Superintendent Eakin. A minnow net 4 feet by 8 feet was used. The swiftness of the current, clearness of the water, a stream bed of various sized boulders make collecting difficult. Too, the stream bottom is often covered with algae so as to make one's footing very insecure. Streams at low elevations present fewer difficulties and yield more species.

Locations in which collections were made with their elevations are:

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| | 1. | Little Pigeon River |
| ✓ 4 | 5 | a. Two miles below Gatlinburg, el. 1200 ft. |
| 6 | 9 | b. One and one-half miles above Gatlinburg, el. 1560 ft. |
| 4 | 3 | c. Mouth of Indian Gap Road, el. 1700 ft. |
| ✓ 1 | 1 | d. Along Indian Gap Road, el. 4000 ft. |
| | 2. | Tributaries of Little Pigeon River |
| 4 | 4 | a. Dudley Creek, el. 1500 ft. |
| 5 | 15 | b. Roaring Fork, el. 1500 ft. |
| | 3. | Middle Branch, Little Pigeon River |
| ✓ 9 | 9 | a. Green Briar, el. 1700 ft. |
| ✓ 6 | 64. | Little River, one mile below Elkmont, el. 2250 ft. |

Locality records of each species taken are given, also the relative number of individuals found in that location.

Adjectives describing occurrence are, in order of sequence: abundant, numerous, common, scarce, rare. On the average 100 yards of the stream were seined at each location. To be considered rare not more than two or three individuals of a species were to be found in one location; scarce, - not more than five; common, - five to ten; numerous and abundant indicating relative degrees of greater occurrence.

1. Salvelinus fontinalis (Mitchill)---Eastern Brook Trout
 - Little Pigeon River, el. 4000 ft. (scarce)
2. Hypentilium nigricans (Le Sueur)---Hog Sucker
 - Roaring Fork--(common)
 - Little Pigeon River
 - 2 miles below Gatlinburg--(common)
 - $1\frac{1}{2}$ miles above Gatlinburg--(common)
 - Dudley Creek--(common)
 - Roaring Fork--(numerous)
 - Little Pigeon River, Middle Branch, Green Briar--(numerous)
3. Hybopsis amblops (Rafinesque)---Silver Chub
 - Little Pigeon River
 - 2 miles below Gatlinburg--(scarce)
4. Rhinichthys atronasus croceus (Storer)---Black Nosed Dace
 - Roaring Fork--(common)
 - Little Pigeon River
 - Mouth of Indian Gap Road--(common)
 - Roaring Fork--(numerous)
 - Little Pigeon River, Middle Branch, Green Briar--(scarce)
 - Little River, Elkmont,--(numerous)
5. Rhinichthys cataractae cataractae (Cuvier and Valenciennes)
 - Little Pigeon River
 - Mouth of Indian Gap Road--(numerous)

- Roaring Fork--(numerous)
- Roaring, ^{Fork} at mouth,--(scarce)
- Little Pigeon River, Middle Branch, Green Briar--(numerous)
- Little River, Elkmont,--(numerous)

6. Cyprinella niveus (Cope)

Little Pigeon River

1½ miles above Gatlinburg--(scarce)

7. Notropis telescopus (Cope) ~~telescope~~ shiner

Little Pigeon River

- 1½ miles above Gatlinburg--(scarce)

- Roaring Fork--(three)

8. Notropis callistius (Jordan)

Little Pigeon River

1½ Miles above Gatlinburg--(abundant)

9. Notropis boops (Gilbert)---Big Eyed Shiner

Little Pigeon River

1½ miles above Gatlinburg--(scarce)

Roaring Fork--(numerous)

10. Hydrophlox chlorocephalus (Cope) ~~Saffron~~ Shiner?

- Dudley Creek--(numerous)

- Roaring Fork--(numerous)

- Little Pigeon River, Middle Branch, Green Briar,--(common)

11. Hydrophlox coccogenis (Cope) ~~Wapiti~~ Shiner

Little Pigeon River

- 1½ miles above Gatlinburg--(numerous)

- Roaring Fork--(scarce)--(common in a second location)

- Little Pigeon, Middle Branch, Green Briar,--(numerous)

- Little River, Elkmont--(numerous)

12. Nocomis micropogon (Cope)---River Chub

Little Pigeon River

- 1½ miles above Gatlinburg--(numerous)

- 7.
- Roaring Fork--(numerous)
 - Dudley Creek--(numerous)
 - Roaring Fork--(mouth, common)
 - Little River, Elkmont,--(abundant)
13. Campostoma anomalum (Rafinesque)--Central stoneroller
- Little Pigeon River
- Mouth Of Indian Gap Road--(numerous)
 - Dudley Creek--(common)
 - Little Pigeon River, Middle Branch, Green Briar,--(abundant)
 - Little River, Elkmont,--(common)
14. Micropterus dolomieu (Lacepede)--Small Mouthed Black Bass
- Little Pigeon River
- $1\frac{1}{2}$ miles above Gatlinburg--(numerous)
 - 2 miles below Gatlinburg--(numerous)
15. Nanostoma swannanoa (Jordan and Evermann) Swannanoa Darter
- Little Pigeon River
- $1\frac{1}{2}$ miles above Gatlinburg--(three)
 - Roaring Fork--(one)
 - Little Pigeon River, Middle Branch, Green Briar,--(one)
16. Etheostoma blennioides (Rafinesque)--Green-sided Darter
- Little Pigeon River
- 2 miles below Gatlinburg
 - Roaring Fork--(one specimen)
17. Catanotus flabellaris (Rafinesque)--Fan Tailed Darter
- Little Pigeon River, Middle Branch, Green Briar--(common)
18. Cottus cognatus (Richardson)---Eastern Miller's Thumb
- Little Pigeon River
- 2 miles below Gatlinburg--(one)
 - Little Pigeon River, Middle Branch, Green Briar,--(one)
 - Little River, Elkmont,--(common)
- * 19. Cottus bairdii zopherus ---Miller's Thumb
- Roaring Fork--(one)