
 DISTRIBUTION NOTES ON THE
 YONAHLOSSEE SALAMANDER IN
 SOUTHWESTERN VIRGINIA

by (Dr.) Douglas W. Ogle**
 Virginia Highlands Commu-
 nity College, Abingdon, VA

A range extension for the Yonahlossee salamander (Plethodon yonahlossee) E. of the New River drainage in PULASKI County, VA, is cited. This locality is the northernmost for the species and adds a new county to the Virginia records. The collection and dispersal of this salamander along the southern Blue Ridge escarpment in CARROLL Co. VA, is described and related to earlier texts.

 The distribution of the Yonahlossee salamander (P. yonahlossee), generally considered somewhat restricted in range, has been summarized for Virginia by Hoffman (1967), and discussed in detail by Highton (1971). Two new localities will provide additional information about the range and natural history of this organism.

In summer 1975, while collecting plants in the Fisher's Peak area of CARROLL County, VA (Lamburg Quadrangle, U.S.G.S. 7.5' series, 1965),

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**VaHS Director

I often turned over rocks and logs to look for salamanders. In several places along the top of the escarpment, from Fisher's Peak northeast to Fancy Gap, I found the slimy salamander (P. glutinosus) and an occasional red-spotted newt (Notophthalmus viridescens), but nothing else. However, as I started going to lower elevations, I began to find specimens of P. yonahlossee. At the base of the escarpment, in identical habitats, several species of Desmognathus were found.

During the last week of July, on a damp foggy night between 10 and 11, I collected two adult and four juvenile specimens of yonahlossee below Rich Mountain near the end of County Rte. 716. The specimens were given to Dr. Eugene Gourley* at Radford College, VA. At a later date, typical specimens were collected and sent to the National Museum of Natural History (Smithsonian Institution) Washington, D.C. (USNM-202,724-725). All the specimens were taken un-

der Rhododendron along an old logging road at an elevation of 2,760' (650m), and, as Hoffman (1967) stated, no other species were seen at this time.

The following day I found a specimen at 1,720 ft. (530 m), on an old access road below Rich Mountain and an extremely large adult just northeast of Lamburg, VA, near the base of the escarpment. These results would seem to indicate that further collection along the escarpment in CARROLL and PATRICK Counties should produce more specimens.

On October 3, 1976, on a collecting trip with C.E. Stevens, I again found yonahlossee under a log in colluvial soil (consisting of washout, rock, and cliff debris, --the material of avalanches) at the base of Brannon's Knob, PULASKI County, VA, at 2,570 feet (792 m.) (Mack's Mountain Quadrangle, USGS 15' series, 1965). This locality, 1.3 mi. (3 km.) NE of the CARROLL County station reported by Hoffman (1967) is important in several respects. Adding a new county to the Virginia records, the site is the

Yonahlossee Salamander
in Southwestern Virginia (continued)

northernmost for the species, and establishes yonahlossee northeast of Big Reed Island Creek into the Mack's Mountain area. The topography is such that further collection around Mack's Creek or Big Laurel Creek might further extend the known range of this lovely animal.

When compared to published information on the species, these results provide interesting data. All specimens were taken more than 100 ft. (30 m.) from streams as mentioned in Pope (1950). Although the species has been reported from elevations varying from 1,500 ft. or 457 m. (Newman 1954), to 5,700 ft. (1,737 m.) (Conant, 1975), the individuals collected and observed were taken from lower elevations (none above 2,800 ft. (854 m.) and no hybrid material was detected. This seems to substantiate Highton (1971) in that the populations at the fringe of the range seem to occur at lower elevations than those toward the center. The collections are unusual in some aspects, too. More yonahlossee were taken than glutinosisus, and although on Rich Mountain the range of the two species overlap, -----

there does seem to be a correlation between population density and elevation; i.e., above sea level.

It would be very interesting to learn what effects the environment and competition have on limiting the distribution of P. yonahlossee, especially in the fringe habitats of the Blue Ridge Mountains.

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References:

Conant, R., 1975. A Field Guide to Reptiles and Amphibians of Eastern and Central North America, 2d edition. Houghton Mifflin Company, Boston, MA.

Highton, R., 1971. Distributional Interactions Among Eastern North American Salamanders of the Genus Plethodon, pp. 139-188. IN P.C. Holt (Ed.) The Distributional History of the Biota of the Southern Appalachians, Part III Division Monograph #4, VPI & SU, Blacksburg, VA.

Hoffman, R.L., 1967. Distributional Records for Three Species of Plethodon in Virginia. The Radford Review, Vol. 21, No. 3, pp. 206-209.

Newman, W. B., 1954. A New Plethodontid Salamander from Southwestern Virginia. Herpetologica, Vol. 10, pp. 9-14.

Pope, C.H., 1950. A Statistical and Ecological Study of the Salamander Plethodon yonahlossee. Bulletin of the Chicago Academy of Science, Vol. 9, pp. 79-106.

MANY COLLECTION RECORDS
OF VIRGINIA HERPETILES IN

During 1976-1977, VaHS received a large number of records of amphibian and reptilian specimens collected in VA over the past 100 years. Much of the credit should go to Joseph C. Mitchell, VaHS member, and coordinator of the new phenology program. He has succeeded in soliciting a magnificent

response from many major scientific institutions in the eastern and central United States. These include natural history museums sponsored by a municipality or a sizable university. Placing all of these data on the VaHS Survey maps is taking all of the spare time of the editor not devoted to the

production of the VaHS BULLETIN. This is more a tribute to the volume of material than to the time spent on the map posting.

Individual contributions of data with VaHS collecting data slips completed for specimens will be put on the large VaHS Survey maps during the operation.

NOTICE OF PUBLICATION

During 1977, VaHS will be publishing a completely revised compilation of maps. These will be less than 8½" X 11" versions of the VA. HERPETOLOGICAL SURVEY maps, but based on those permanent records.

These maps will show what records exist, species by species, for all of Virginia. All records will be based (1) on actual specimens in major collections across the U.S. and (2) by photographic record (usually 2" X 2" color slides of captured and released specimens.) The latter are largely a way of "filling in" large gaps in distribution within the known range of the Virginian (indigenous or native) varieties. (See VaHS BULLETIN No. 80)

We hope this will give a boost to the "adopt-a-species" and revive the

"adopt-a-county" programs for clearing up some of the zoogeographic puzzles of which we have more than our share in VA.

REPTILES and AMPHIBIANS are not limited by strict political boundaries, but we find it convenient to inch up on the tremendous size of the state through a county-by-county survey.

Distribution of species is controlled more by the availability of suitable habitat.

SALVAGE PROGRAM:

Many specimens, particularly reptiles, can be collected as road kills. If the specimen was not destroyed (i.e., if the species is recognizable), the specimen should find its way into a suitable scientific collection. It is especially recommended

if the species is a rare one for which there are few records. Take safety precautions on the road during such salvage operations. If in Federal parks, such as the Skyline Drive or Blue Ridge Parkway, collecting isn't permitted under ANY circumstances without a NPS Collecting Permit. Bring such salvageable specimens to the attention of a NPS ranger or Park Naturalist.

Use the VaHS Collecting Data Slips. A specimen without adequate data is also without value. Data should be filled out when still in the field--don't depend upon your memory! For specimens reported through the VaHS system the collector(s) will be credited by notes in the VaHS BULLETIN and entry in the records of the VA Herpetological Survey volumes-- a permanent record.

VaHS LENDS ENCOURAGEMENT
TO NATURAL HISTORY OBSER-
VATIONS AT VA YCC CAMPS

(See Camp Mitchell, YCC,
Report -- on page five.)

Some excellent environ-
mental programs were con-
ducted at the Youth Con-
servation Corps (YCC)
camps around Virginia in
recent summers. One such
study is carried in this
VaHS BULLETIN.

an unexpected reptilian
or amphibian variety does
occur. In some cases, it
would be a contribution
to determine that the ex-
pected varieties occur.

GAP IN VA RANGE OF SMOOTH
EARTH SNAKE TO BE FILLED?

A specimen of the eastern
smooth earth snake (Vir-
ginia valeriae valeriae),
has been recorded for
the first time from
SCOTT County, VA. (See
Dr. Conant's Field Guide,
Map #24). There has been
a large gap in the range
of this species until the
collection of this speci-
men by Ms. Charlotte How-
ington, a student at East
Tennessee State University
in 1974. Ms. Howington
was a member of Dr. Fred
J. Alsop's vertebrate
zoology class. She keyed
the specimen to Virginia
valeriae but raised the
question since Conant's
1958 Field Guide showed
that the species had not
been taken in that area.

In conversations with the
Division of Parks' and the
Department of Education's
representatives, we have
opened VaHS BULLETIN's
pages to YCC participants'
observations relating to
amphibians and reptiles.

We must stress that VaHS
is primarily interested
in reptiles and amphibians
albeit, with reference to
natural habitat: plants
and associated animals in
proper perspective.

Dr. Fred J. Alsop, III, As-
sistant Professor of Bio-
logy at East Tennessee,
at Kingsport University
Center, Kingsport, Tenn.,
also keyed the snake to
Virginia valeriae.

We have proposed to carry:
(1) Any good records or
notes on observations pre-
pared by YCC participants
that may make real contri-
butions to knowledge of
local plants and animals.
Interrelationships must
be shown to local reptile
and amphibian life forms.

We believe this will give
the local natural history
a boost. It will also
add to the statewide sur-
vey which VaHS has had
underway since early 1961.

The specimen came from
1 mi. west of Rye Cove,
SCOTT County, VA.

(2) The notes will carry
full credit to the YCC
observer(s) and YCC Camp
staff advisers (biologist
or naturalist, etc.).

We have requested that
the YCC staff encourage
their YCC camp partici-
pants to send any notes
or data to the VaHS for
use. We will do a little
cutting or polishing as
necessary to conform to
VaHS BULLETIN format, and
to reflect well upon the
participant's efforts.

The specimen was collect-
ed on a path in the open
near a cedar grove about
1:00 p.m. 13 October '74.
It is temporarily in the
possession of Franklin J.
Tobey, Jr., Loudoun Coun-
ty, VA. It will be re-
turned to Kingsport Univ.
Center in early summer.

(3) These data, observa-
tions, or wildlife lists
will become a part of the
state's reptile and amphi-
bian survey.

VaHS is preparing a kit
of materials that may be
useful to YCC staff bio-
logists, naturalists, or
others who are working
closely with this program.

Since some of the camps
are in areas of Virginia
that have been virtually
unsurveyed (from an eco-
logical viewpoint) we may
be able to establish that

YCC Camp Directors are in-
cluded in the list of VA
summer camp and park natu-
ralists who will receive
information kits from Va
HS during this summer '77.

VaHS BULLETIN: A mailing consists of 200 to 300 VaHS BULLETINS. The first mailing is sent to VaHS members and "exchange"-members in other states. The second mailing goes to prospective members and, in summertime, to camp & park naturalists.

MEMBERSHIP CARDS (VaHS)

Your updated membership card should be enclosed in this VaHS BULLETIN.

Those not receiving a new card with VaHS-B# 82 may write:

VaHS Secretary
P.O. Box # 1376
LEESBURG, VA 22075

if an error has been made please say so.

If support has not been kept current, please send your contribution to:

Mr. Louis C. Baker,
VaHS TREASURER,
Yorktown High School
5201 No. 28th Street
Arlington, VA 22207

Recommended Support Rate:

Science Faculty	\$1/year;
VA resident	\$2/year;
Out of State	\$3/year;
Overseas	\$5/year.

Membership cards are put in the mail all at one time, yearly, so that the uniformity (weight and size) requirement under Post Office regulations will not be violated.

Member's names will be carried in a forthcoming VaHS membership roster.

CAMP MITCHELL, YCC REPORT
OF 1976 PARTICIPANT

Summer 1976, I worked in the Y.C.C. (Youth Conservation Corps). I recently received a letter from my camp director, Mr. Edwin B. Swan of New Castle, VA, asking me to give any information that might be of use to VaHS BULLETIN.

The following is a listing and location of all of the reptiles and amphibians which I encountered during my stay at the YCC Camp.

The location of my work was at Camp Mitchell New Castle, VA. It is a recreational area for the residents of New Castle.

Specimens encountered were:

Snakes:

Black Rat Snake: Five ft. in length, older specimen with one blind eye. Found in graveled area leaving the border of the woods near a small-sized stream.

Northern Ringneck Snake: 9-inch specimens and two smaller young from center of a rotten log behind a cabin.

Northern Copperhead: 2-ft. specimen in stream with trees surrounding.

Lizards:

Northern Fence Lizard
Found on trees around the cabins. Both females and males were in great abundance. One lizard near cabin (#3) would stay next to a garbage can and feed on the ants that lived under it. Ants seem to be the main ingredient in this lizard's diet.

Five-lined Skink: Female specimen lived under and around cabin (#3) and fed on flies and ants. It bit readily when captured.

Salamanders:

Slimy Salamander: Large (5 - 5½ inch) specimens were found under rocks or fallen, partially decayed trees.

Four-toed Salamander: In same habitat as slimy salamander and, in fact, often shared the same cover. Both found in woods behind the cabins.

Eft of red-spotted newt: Two specimens were found walking in the open on the forest floor after a rain.

Northern red salamander: Five-inch specimen found under mossy rock in a small stream near camp.

Frogs and Treefrogs:

Spring Peeper: Found in open, tree areas, and around the swimming-pool at night.

Gray Treefrog: Found around the swimming-pool area at night.

American Toad: Found mostly at night, around the small stream and the cafeteria area.

Turtles:

Eastern Box Turtle: A small, young turtle was found in the yard of the New Castle Ranger District Work Center.

(Mr.) Robert F. Wise
315 Dawn Avenue
WOODSTOCK, VA 22664

Editor's Note: We hope that this may be first of an occasional YCC report on reptile and amphibian life in the vicinity of Virginia's several YCC camps. Biologists and science teacher staff may assist VaHS by encouraging student participants.

(FJT)

FIELD BIOLOGY AND ECOLOGY
AT CORNELL SUMMER SESSION
JUNE 29 - AUGUST 12, 1977

PESTS ENCOUNTERED IN THE
SUMMERTIME ---- OUTDOORS

The Cornell University's summer session offers eight courses at the advanced undergraduate level: Laboratory methods in biology, general ecology, plant ecology, mammalogy, ornithology, herpetology, biology of fishes, and comparative vertebrate ethology. The courses provide extensive training in field problems and methods. A variety of field sites are located in the vicinity of the Cornell campus, Ithaca, Weekend trips will enable students to visit more distant areas of interest.

Herpetology: William J. Mautz--Evolution, distribution and adaptations of reptiles and amphibians, emphasis on zoogeography, ecology, behavior, and physiology. Admission is gained through formal application. For the forms instructions, and summer session catalog---Write:

Dean of Summer Session
Cornell University
105 Day Hall
Ithaca, N.Y. 14853

For specific information about the offerings in field biology and ecology write Dr. Simon A. Levin, Chairman, Section of Ecology and Systematics, CU, Langmuir Laboratory, Ithaca, N.Y., 14853

Chiggers or red bugs are frequently encountered on field trips. Chiggers cause intense itching all over the body by biting. Bites are small to large reddish welts on the skin. Chiggers are so tiny most people cannot see them. The larval chiggers bite, not the adults, injecting a tissue-dissolving fluid. This is usually at the site of a pore, or a hair follicle under the cover of tight clothing.

Young chiggers attach themselves to the skin of people and domestic or wild animals, including reptiles and birds. The bites have a more severe effect on some people. No disease is known to have been spread by chiggers in the U.S. Dusting your socks with powdered sulfur and avoiding sitting on the ground will often prevent chigger bites.

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column

Continued from column one:
The eight courses are open to candidates for undergraduate and graduate degrees, teachers and those interested in personal or professional improvement. Students may participate in two courses simultaneously; up to eight credits may be earned during the 6-week summer session. (Cost: \$100 a credit.)

"Swimmer's itch" is often reported following wading in seawater, freshwater ponds, lakes, or rivers. The animal causing the itch is a flatworm parasite no larger than an eyelash. The cercariae of about 20 (non-primate-infesting) schistosomes cause swimmer's itch. The cercariae are known to penetrate human skin, but since people are not an acceptable host, the parasites die under the skin. The natural hosts are non-primate mammals and waterfowl. Intermediate hosts are snails. You may want to grab a biology text in this connection: Schistosome eggs in solid body wastes from infected hosts hatch in water and produce miracidia which enter snails. Sporocysts (larval forms) emerge from the snails. These subsequently produce fork-tailed schistosome cercariae, thus completing the life cycle. The cercariae produce red spots on the swimmer's body. Rapid dry-towelling the body on emergence from the water may prevent penetration.

References:

Public Health Reports
Vol. 91, No.5 Sept.-Oct.
1976 pp. 469-470 (source)

Cort, W.W. (1950) Studies on schistosome dermatitis. XI. Status of knowledge...
Am J Hyg 52: 251-307.

Wills, Fried, Carroll and Jones (1976) Public Health Reports (cited above as the source of this item.)

 LETTERS, IDEAS, COMMENTS:

COSTELLO CRAIG
TO THE RESCUE!

Having a snake for a 'pet' may not have appealed to me less than a year ago, but has recently become a very special addition to my life. Locating a 'friendly' snake in the middle of winter would have been an impossible task had I not met Mr. Costello M. Craig, a VaHS member from Bedford, VA. He very graciously allowed me to borrow one of his corn snakes (which I now call 'Sophie'), to fulfill a college requirement in one of my teaching methods classes. I decided that it would be a great opportunity for kindergartners to have a 'hands on' learning experience with a real live snake rather than me just talking about reptiles and showing pictures from story books. Well, some experience it was, but I'm not sure for whom: the children, the snake, or myself!

Living with Sophie for over a week, I was able to learn a lot from handling and simply watching her execute many locomotor skills. However, her comic 'personality' and captivating charm really began to show itself the day she visited kindergarten. After a short while, a few of the children became very interested in this new critter and, consequently, very

competent in handling her. One girl, in particular, was very content just to sit and hold the snake as she watched it crawl. The situation seemed under control, so I began to read a story to the other children who were gathered around me. Well, it wasn't long before I received a tug on my arm from my snake sitter. It seems that 'Sophie's' infatuation with dark, cozy places had overcome her and she had managed to stuff almost all three feet of her body up the pant leg of this extremely startled kindergartner! All I can say is it was a good thing Sophie decided to come out on her own as I would have been a little hesitant to match strengths with her in that particular situation.

Honestly, after sharing several experiences like that with an animal, it's awfully difficult to have to give her up. But, Mr. Costello Craig came to the rescue again, for now this beautiful reptile is mine!

Gratefully,

(Ms.) Kathy Newhouse
 Student Teacher for
 Kindergarten & 1st Grade
 Hayfield Elementary School
 Fairfax County Schools, VA

 SECOND ANNUAL REPTILE
 PROPAGATION AND HUSBANDRY
 SYMPOSIUM

The Second Annual Reptile Propagation and Husbandry Symposium will be held in Cleveland, Ohio, in June. The first symposium was held at the Catocin Mtn. Zoo (Thurmont, MD) in the summer of 1976. Registration fee was \$25.00. The symposium, this year, is hosted by the Northern Ohio Association of Herpetologists, Cleveland Museum of Natural History, and Case Western Reserve University. The meetings will be held on the Case Western Reserve University campus and Cleveland Museum of Natural History on June 23, 24, & 25, 1977.

The sponsors of the 2nd Annual Reptile Symposium are: the Baltimore Zoological Society, Catocin Mountain Zoological Park, the Zoological Society of Philadelphia, and Reptiland. Preregistration can be obtained by writing to:

(Mr.) Bob Johnson
 Baltimore Zoo
 Druid Hill Park
 Baltimore, MD
 21217

ADD: (ATTN: Reptile
 Symposium)

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