

1306

**ILLINOIS LIBRARY**  
**natural History Survey**  
**BULLETIN**

An Annotated Bibliography of the  
Illinois Herpetological Literature  
1960-1980, and An Updated  
Checklist of Species of the State



THE LIBRARY OF THE

JUL 11 1983

UNIVERSITY OF ILLINOIS  
AT URBANA-CHAMPAIGN

Michael A. Morris  
Richard S. Funk  
Stephen W. Smith

UNIVERSITY OF ILLINOIS  
DEPARTMENT OF ENERGY AND NATURAL RESOURCES

NATURAL HISTORY SURVEY DIVISION  
URBANA, ILLINOIS

VOLUME 33, ARTICLE 2  
APRIL 1983





**ILLINOIS**  
**Natural History Survey**  
**BULLETIN**

An Annotated Bibliography of the  
Illinois Herpetological Literature  
1960-1980, and An Updated  
Checklist of Species of the State

Michael A. Morris  
Richard S. Funk  
Philip W. Smith

STATE OF ILLINOIS  
DEPARTMENT OF ENERGY AND NATURAL RESOURCES

NATURAL HISTORY SURVEY DIVISION  
URBANA, ILLINOIS

VOLUME 33, ARTICLE 2  
APRIL 1983

MICHAEL B. WITTE, B.S., *Chairman*; ROBERT L. METCALF, Ph.D., *Biology*; H. S. GUTOWSKY, Ph.D., *Chemistry*; WALTER E. HANSON, M.S., *Engineering*; LORIN I. NEVLING, JR., Ph.D., *Forestry*; L. L. SLOSS, Ph.D., *Geology*; DANIEL C. DRUCKER, Ph.D., *Representing the President of the University of Illinois*; JOHN C. GUYON, Ph.D., *Representing the President of Southern Illinois University.*

## NATURAL HISTORY SURVEY DIVISION, Champaign, Illinois

### SCIENTIFIC AND TECHNICAL STAFF

PAUL G. RISSER, Ph.D., *Chief*

ALICE K. ADAMS, *Secretary to the Chief*

#### Section of Aquatic Biology

ROBERT W. GORDEN, Ph.D., *Aquatic Biologist and Head*  
D. HOMER BUCK, Ph.D., *Aquatic Biologist*  
R. WELDON LARIMORE, Ph.D., *Aquatic Biologist*  
RICHARD E. SPARKS Ph.D., *Aquatic Biologist*  
ALLISON R. BRIGHAM, Ph.D., *Associate Aquatic Biologist*  
DAVID P. PHILIPP, Ph.D., *Associate Aquatic Biologist*  
KETURAH REINBOLD, Ph.D., *Associate Aquatic Toxicologist*  
WILLIAM STEINER, Ph.D., *Associate Aquatic Biologist*  
STANLEY B. ANDREWS, M.S., *Assistant Aquatic Biologist*  
PETER B. BAYLEY, Ph.D., *Assistant Aquatic Biologist*  
KENNETH S. LUBINSKI, Ph.D., *Assistant Aquatic Biologist*  
TED W. STORCK, Ph.D., *Assistant Aquatic Biologist*  
MICHAEL J. WILEY, Ph.D., *Assistant Aquatic Biologist*  
JANA L. WAITE, M.S., *Assistant Supportive Scientist*  
JENS D. SANDBERGER, M.S., *Junior Professional Scientist*  
EUGENE SONS, *Junior Professional Scientist*  
PAM TAZIK, M.S., *Junior Professional Scientist*  
MIN-YU HUANG, Ph.D., *Research Associate*  
THOMAS SKELLY, M.S., *Research Associate*  
STEPHEN W. WAITE, M.S., *Research Associate*  
ROBERT DAVIS, M.S., *Specialist in Aquatic Biology*  
BILL DIMOND, B.S., *Specialist in Aquatic Biology*  
SCOTT D. JACKSON, M.S., *Specialist in Aquatic Biology*  
STEVEN MILLER, B.S., *Specialist in Aquatic Biology*  
STEPHANIE SWECKER, B.S., *Specialist in Aquatic Biology*  
DOUGLAS K. BLODGETT, M.S., *Research Assistant*  
BRIAN C. HAMPSON, B.S., *Research Assistant*  
RICHARD E. HAZZARD, B.S., *Research Assistant*  
MICHAEL HOPE, B.S., *Research Assistant*  
JEFFREY KOPPELMAN B.S., *Research Assistant*  
PHIL C. MANKIN, B.S., *Research Assistant*  
DENNIS NEWMAN, M.S., *Research Assistant*  
LANCE PERRY, M.S., *Research Assistant*  
STEVE PESCIATELLI, M.S., *Research Assistant*  
TODD POWLESS, M.S., *Research Assistant*  
GARY L. WARREN, B.S., *Research Assistant*  
JOAN BROWER, B.S., *Technical Assistant*  
JOHN EPIFANIO, B.S., *Technical Assistant*  
KATHARYN L. EWING, B.S., *Technical Assistant*  
TOM KWAK, B.S., *Technical Assistant*  
SHIRLEY LOWE, B.S., *Technical Assistant*  
SUE PERATT, *Technical Assistant*  
KATIE ROAT, *Technical Assistant*  
STEPHEN SOBASKI, B.S., *Technical Assistant*  
JEFFREY VAN ORMAN, B.S., *Technical Assistant*  
RUTH M. WAGNER, *Junior Technical Assistant*

#### Section of Botany and Plant Pathology

CLAUS GRUNWALD, Ph.D., *Botanist and Head*  
J. LELAND CRANE, Ph.D., *Mycologist*  
EUGENE HIMELICK, Ph.D., *Plant Pathologist*  
DAN NEELY, Ph.D., *Plant Pathologist*  
D. F. SCHOENEWEISS, Ph.D., *Plant Pathologist*  
ANTON G. ENDRESS, Ph.D., *Associate Botanist*  
KENNETH R. ROBERTSON, Ph.D., *Associate Botanist*  
LOUIS R. IVERSON, Ph.D., *Assistant Botanist*  
MARY DEYSHER, *Assistant Biologist*  
ROBERTA STEWARD, *Assistant Biologist*  
BETTY NELSON, *Assistant Supportive Scientist*  
JAMES E. SERGENT, *Greenhouse Superintendent*  
STEVE CLINE, Ph.D., *Research Assistant*  
ROBERT A. HARRISON, *Technical Assistant*  
DAVID R. MOORE, B.S., *Technical Assistant*  
LAUREL MCKEE, *Research Assistant*  
JOHN M. MCPARTLAND, *Research Assistant*  
ROBBIN C. MORAN, *Research Assistant*  
JAMES A. STIM, *Research Assistant*  
DIANE SZAFONI, B.S., *Research Assistant*

#### Section of Economic Entomology

WILLIAM H. LUCKMANN, Ph.D., *Entomologist and Head*  
JAMES E. APFLEBY, Ph.D., *Entomologist*  
EDWARD J. ARMBRUST, Ph.D., *Entomologist*

MARCOS KOGAN, Ph.D., *Entomologist*  
DONALD E. KUHLMAN, Ph.D., *Entomologist, Extension*  
JOSEPH V. MADDOX, Ph.D., *Entomologist*  
STEVENS MOORE, III, Ph.D., *Entomologist, Extension*  
ROSCOE RANDELL, Ph.D., *Entomologist, Extension*  
CATHERINE E. EASTMAN, Ph.D., *Associate Entomologist*  
ALLAN S. FELSOT, Ph.D., *Associate Entomologist*  
MICHAEL E. IRWIN, Ph.D., *Associate Entomologist*  
WILLIAM G. RUESINK, Ph.D., *Associate Entomologist*  
JOHN K. BOUSEMAN, M.S., *Assistant Entomologist*  
CURTIS COLWELL, M.S., *Assistant Entomologist, Extension*  
MICHAEL JEFFORDS, Ph.D., *Assistant Entomologist*  
ELI LEVINE, Ph.D., *Assistant Entomologist*  
CHARLES MACMONEGLE, M.S., *Assistant Entomologist, Extension*  
KEVIN STEFFEY, Ph.D., *Assistant Entomologist, Extension*  
LUIS R. ZAVALETA, Ph.D., *Assistant Entomologist*  
STEPHEN P. BRIGGS, M.S., *Assistant Specialist, Extension*  
DAVID SWOFFORD, Ph.D., *Biometrician/Statistician*  
LESTER WEI, Ph.D., *Assistant Professional Scientist*  
JOHN T. SHAW, B.S., *Associate Supportive Scientist*  
JEAN G. WILSON, B.A., *Associate Supportive Scientist*  
CHARLES G. HELM, M.S., *Assistant Supportive Scientist*  
STEPHEN J. ROBERTS, B.A., *Assistant Supportive Scientist*  
JO ANN AUBLE, *Junior Professional Scientist*  
JENNY KOGAN, M.S., *Research Associate*  
WILLIAM O. LAMP, Ph.D., *Research Associate*  
KAREN O'HAYER, *Research Associate*  
BRENDA M. PETERS, *Research Associate*  
CHARLES GUSE, B.S., *Research Assistant*  
DOYLE DAZEY, *Field Entomologist*  
CRAIG D. REID, *Field Assistant*  
LAURIE CASE, *Research Technician*  
Tzu-SUAN CHU, M.S., *Research Technician*  
GAIL KAMPMEIER, M.S., *Research Technician*  
GERALD LEPAR, *Research Technician*  
MICHAEL MCGUIRE, M.S., *Research Technician*  
MARILYN MORRIS, *Research Technician*  
SARA MYERS, *Research Technician*  
SUSAN POST, *Research Technician*  
ELLEN BREWER, M.S., *Computer Programmer*  
FRANK M. BROOKFIELD, M.S., *Computer Programmer*  
DOROTHEA GRIDER, *Transcribing Secretary, Extension*  
SANDRA MCGARY, *Clerk-Typist III*  
JOAN TRAUB, *Clerk-Typist III*  
MARY COUNCIL, *Clerk-Typist II*  
DIANE ERDMAN, *Clerk-Typist II*  
WEIBO CHEN, B.S., *Visiting Scientist*  
MIKE FOSTER, M.S., *Graduate Teaching Assistant*  
JOEL SIEGEL, M.S., *Graduate Research Assistant*  
LANE SMITH, M.S., *Graduate Research Assistant*

#### Section of Faunistic Surveys and Insect Identification

LAWRENCE M. PAGE, Ph.D., *Fish Taxonomist and Acting Head*  
WALLACE E. LABERGE, Ph.D., *Insect Taxonomist*  
WARREN U. BRIGHAM, Ph.D., *Insect Taxonomist*  
DONALD W. WEBB, Ph.D., *Insect Taxonomist*  
GEORGE L. GODFREY, Ph.D., *Associate Insect Taxonomist*  
JOHN D. UNZICKER, Ph.D., *Associate Insect Taxonomist*  
DAVID J. VOGELTIN, Ph.D., *Assistant Insect Taxonomist*  
COLIN G. TREWORGY, B.S., *Associate Supportive Scientist*  
BERNICE P. SWEENEY, *Assistant Supportive Scientist*  
RICHARD M. HEDIN, B.S., *Junior Professional Scientist*  
STEVEN HEYDON, M.S., *Research Assistant*  
EUGENE R. MILICZKY, M.S., *Research Assistant*  
MATTHEW K. BUTCHER, M.S., *Technical Assistant*  
REBECCA GROSSER, B.S., *Technical Assistant*  
ALETA A. HOLT, B.S., *Technical Assistant*  
JEANINE M. KASPROWICZ, B.S., *Technical Assistant*  
EDWARD A. LISOWSKI, M.S., *Technical Assistant*  
CHRISTINE T. MILLER, B.A., *Technical Assistant*  
MICHAEL E. RETZER, M.A., *Technical Assistant*  
LIANE B. SULOWAY, M.S., *Technical Assistant*  
MARK J. WETZEL, M.S., *Technical Assistant*

## CONTENTS

	Page
LIST OF TITLES.....	123
CHECKLIST OF SPECIES .....	134
AMPHIBIA .....	134
Caudata .....	134
Crytobranchidae.....	134
Ambystomatidae.....	134
Salamandridae .....	134
Plethodontidae .....	134
Proteidae .....	134
Sirenidae .....	134
Salientia .....	134
Pelobatidae.....	134
Bufonidae .....	134
Hylidae .....	134
Ranidae .....	135
Microhylidae .....	135
REPTILIA .....	135
Testudines .....	135
Chelydridae.....	135
Kinosternidae .....	135
Emydidae .....	135
Trionychidae .....	136
Sauria .....	136
Iguanidae .....	136
Scincidae .....	136
Anguidae .....	136
Teliidae .....	136
Serpentes .....	136
Colubridae.....	136
Crotalidae .....	137
EXTRALIMITAL AND ERRONEOUSLY RECORDED TAXA CITED IN POST-1961 LITERATURE .....	137

*This report is printed by authority of the State of Illinois. It is a contribution from the Section of Faunistic Surveys and Insect Identification.*



# An Annotated Bibliography of the Illinois Herpetological Literature, 1960-1980, and An Updated Checklist of Species of the State

Michael A. Morris, Richard S. Funk, and Philip W. Smith

This bibliography has been compiled to provide a source of titles for those seeking literature dealing with the herpetofauna of Illinois that has appeared since the publication of "The Amphibians and Reptiles of Illinois" (Smith 1961). We believe that this bibliography includes all taxonomically and distributionally pertinent papers, published from 1960 to September 1980, having reference to Illinois populations. Papers are listed alphabetically by author and numbered consecutively.

Following the List of Titles is an updated Checklist of Species, also numbered consecutively. Subspecies names are not given since they are virtually unchanged since 1961. The name or name combination used by Smith (1961) appears in brackets immediately after each entry when his name usage differs from that listed here. Only species that are, or were, native to and represented by specimens from Illinois are listed. However, following the List of Titles is a list of extralimital species that now are not considered to be, or to have been, a regular part of the Illinois fauna.

The List of Titles and the Checklist of Species are cross-referenced. Thus, the List of Titles indicates which species each reference cites, and the Checklist of Species indicates which references treat each species. A few other annotations have been included when appropriate.

Titles 137 and 231 in the List of Titles, because of their general nature, have not been indexed in the species

checklist. A question mark preceding a title number indicates that the paper may refer to that species, but the specific identity is somewhat uncertain. For example, titles 112, 202, and 205 could refer to either *Hyla chrysoscelis* or *H. versicolor* or to both species.

All amphibians and reptiles are reduced in numbers in Illinois to some degree. A few of those known in the state prior to 1961 (*Pseudemys concinna*, *Clemmys guttata*, *Thamnophis sauritus*, and *Nerodia fasciata*) may now be extirpated, but some species (e.g., *Hemidactylum scutatum*, *Scaphiopus holbrooki*, *Gastrophryne carolinensis*, *Scincella lateralis*, and *Clonophis kirtlandi*) have been found to have more extensive ranges within the state than were known in 1961, even though they are less common now than then. The papers cited in the following List of Titles will help the user to determine the present status of each species of amphibian and reptile known to occur, or to have occurred, in Illinois.

We are indebted to Doris Sublette, former librarian at the Illinois Natural History Survey, for her generous aid in searching titles; to Ronald A. Brandon, Southern Illinois University at Carbondale, and Lauren E. Brown, Illinois State University, for reviewing the manuscript; and to Shirley McClell-

---

Michael A. Morris, Department of Zoology, Southern Illinois University at Carbondale; Richard S. Funk, Department of Zoology, The Ohio State University, Columbus; and Philip W. Smith, Taxonomist, Emeritus, Illinois Natural History Survey, Champaign.

lan, associate editor at the Illinois Natural History Survey, for the final editing.

## LIST OF TITLES

1. Ackerman, K. 1975. Rare and endangered vertebrates of Illinois. Bureau of Environmental Science, Illinois Department of Transportation. 50 p. Species: 1, 2, 6, 10, 12, 14, 20, 24, 26, 29, 38, 39, 41, 42, 43, 47, 48, 60, 62, 66, 70, 75, 76, 92, 93, 97, and *Cemophora coccinea*.
2. Altig, R. 1967. Food of *Siren intermedia nettingi* in a spring-fed swamp in southern Illinois. *American Midland Naturalist* 77: 239-241. Species: 19.
3. Andersen, F. L., and N. D. Levine. 1961. *Tritrichomonas batrachorum* in a hog-nosed snake. *Journal of Parasitology* 47: 877-878. Species: 71.
4. Anderson, D. R., D. W. Duszynski, and W. C. Marquardt. 1968. Three new coccidia (Protozoa: Telosporae) from kingsnakes, *Lampropeltis* spp., in Illinois, with a redescription of *Eimeria zamenis* Phisalix, 1921. *Journal of Parasitology* 54: 577-581. Species: 72, 73.
5. Anderson, J. D. 1967a. *Ambystoma texanum*. Catalogue of American Amphibians and Reptiles: 37.1-37.2. Species: 7.
6. ———. 1967b. *Ambystoma opacum*. Catalogue of American Amphibians and Reptiles: 46.1-46.2. Species: 4.
7. ———. 1967c. *Ambystoma maculatum*. Catalogue of American Amphibians and Reptiles: 51.1-51.4. Species: 3.
8. Anonymous. 1966. Collecting rarity. *Chicago Herpetological Society Bulletin* 1(5): 32. Species: 84.
9. Applegate, R. D. 1974. Some notes on the nest of the midland painted turtle (*Chrysemys picta marginata* Agassiz). *Chicago Herpetological Society Bulletin* 9: 42. Species: 45.
10. ———. 1975. A range extension of the eastern box turtle (*Terrapene carolina*) in Illinois. *Illinois State Academy of Science Transactions* 68: 17. Species: 52.
11. ———, and C. W. Zimbleman. 1978. Herpetofauna of the Dixon Springs Agricultural Center and vicinity, Pope County, Illinois. *Chicago Herpetological Society Bulletin* 13: 72-74. Species: 3, 4, 7, 8, 9, 11, 12, 13, 16, 17, 21, 22, 23, 27, 28, 30, 31, 33, 34, 37, 38, 40, 44, 45, 46, 52, 55, 56, 57, 58, 59, 62, 64, 65, 66, 72, 73, 74, 77, 79, 80, 86, 87, 91, 94, 95.
12. Ashton, R. E. 1976. Endangered and threatened amphibians and reptiles in the United States. *Society for the Study of Amphibians and Reptiles Herpetological Circular* 5. v + 65 p. Species: 1, 2, 6, 10, 12, 14, 16, 20, 24, 26, 29, 38, 39, 41, 42, 48, 60, 66, 70, 75, 76, 78, 92, 93, 97, 98.
13. Axtell, C. B. 1976. Comparisons of morphology, lactate dehydrogenase, and distribution of *Rana blairi* and *Rana utricularia* in Illinois and Missouri. *Illinois State Academy of Science Transactions* 69: 37-48. Species: 32, 37.
14. Axtell, R. W., and N. Haskell. 1977. An interhiatal population of *Pseudacris streckeri* from Illinois, with an assessment of its postglacial dispersion history. *Chicago Academy of Sciences Natural History Miscellanea* 202. 8 p. Species: 21, 29, 30, 32, 37, 61.
15. Ayres, D. E. 1968. Observations on the six-lined racerunner in field and captivity. *Peoria Academy of Science Proceedings* 1: 33. Species: 61.
16. ———. 1973. Field behavior of the six-lined racerunner in Peoria County. *Peoria Academy of Science Proceedings* 6: 23. Species: 61.
17. Behler, J. L., and F. W. King. 1979. The Audubon Society field guide to North American reptiles and amphibians. Alfred A. Knopf, New York. 719 p. Descriptions and ranges of all species occurring in Illinois.
18. Benton, M. J. 1980a. Geographic variation in the garter snakes (*Thamnophis sirtalis*) of the north-central United States, a multivariate study. *Zoological Journal of the Linnean Society* 68: 307-323. Species: 91.
19. ———. 1980b. Geographic variation and the validity of subspecies names for the eastern garter snake, *Thamnophis sirtalis*. *Chicago Herpetological Society Bulletin* 15: 57-69. Species: 91.
20. Best, L. B. 1978. Field sparrow reproductive success and nesting ecology. *Auk* 95: 9-22. Species: 64, 72, 89, 98.
21. Blanchard, S. E., and L. H. Princen. 1976. Survey on the occurrence of reptiles and amphibians in central Illinois. *Peoria Academy of Science Proceedings* 9: 29-35. Species: 8, 21, 22, 23, 27, 28, 30, 32, 33, 34, 35, 38, 40, 41, 42, 44, 45, 46, 50, 52, 53, 55, 59, 61, 63, 64, 65, 67, 68, 70, 71, 72, 74, 79, 80, 82, 83, 85, 86, 87, 88, 89, 91, 94, 97. Some identifications suspect.
22. Blasing, M. E. 1979. Some aspects of the ecology of the eastern garter snake (*Thamnophis sirtalis sirtalis*) in a semi-disturbed habitat in west-central Illinois. *Journal of Herpetology* 13: 177-181. Species: 91.
23. Blaney, R. M. 1977. Systematics of the common kingsnake, *Lampropeltis getulus* (Linnaeus) I. *Tulane Studies in Zoology and Botany* 19: 47-103. Species: 73.



24. ———. 1979. *Lampropeltis calligaster*. Catalogue of American Amphibians and Reptiles: 229.1-229.2. Species: 72.
25. Bonebrake, J. E., and R. A. Brandon. 1971. Ontogeny of cranial ossification in the small-mouthed salamander, *Ambystoma texanum* (Matthes). Journal of Morphology 133: 189-204. Species: 7.
26. Braker, W. P. 1967. An albino snapping turtle. Chicago Herpetological Society Bulletin 2:(2): 5-6. Species: 40.
27. Brandon, R. A. 1961. A comparison of larvae of five northeastern species of *Ambystoma* (Amphibia, Caudata). Copeia 1961: 377-383. Species: 8.
28. ———. 1977. Interspecific hybridization among Mexican and United States salamanders of the genus *Ambystoma* under laboratory conditions. Herpetologica 33: 133-152. Species: 3, 4, 6, 7, 8.
29. ———, and N. R. Austin. 1966. Notes on a collection of amphibians and reptiles from Monroe County, Illinois. Illinois State Academy of Science Transactions 59: 296. Species: 20, 66, 92.
30. ———, and D. J. Bremer. 1966. Neotenic newts, *Notophthalmus viridescens louisianensis*, in southern Illinois. Herpetologica 22: 213-217. Species: 9.
31. ———, and ———. 1967. Overwintering of larval tiger salamanders in southern Illinois. Herpetologica 23: 67-68. Species: 8.
32. ———, and J. E. Huheey. 1975. Diurnal activity, avian predation, and the question of warning coloration and cryptic coloration in salamanders. Herpetologica 31: 252-255. Species: 10, 13.
33. ———, and ———. 1979. Distribution of the dusky salamander, *Desmognathus fuscus* (Green), in Illinois. Chicago Academy of Sciences Natural History Miscellanea 205. 7 p. Species: 7, 10, 13.
34. ———, G. M. Labanick, and J. E. Huheey. 1979. Learned avoidance of brown efts, *Notophthalmus viridescens louisianensis* (Amphibia, Urodela, Salamandridae), by chickens. Journal of Herpetology 13: 171-176. Species: 9.
35. ———, J. Martan, J. W. E. Wortham, and D. C. Englert. 1974. The influence of interspecific hybridization on the morphology of the spermatozoa of *Ambystoma* (Caudata, Ambystomatidae). Journal of Reproduction and Fertility 41: 275-284. Species: 8.
36. Bresler, J. B. 1964. Pigmentation characteristics of *Rana pipiens*: tympanum spot, line on upper jaw, and spots on upper eyelids. American Midland Naturalist 72: 382-389. Species: "*Rana pipiens*".
37. Brophy, T. E. 1980. Food habits of sympatric larval *Ambystoma tigrinum* and *Notophthalmus viridescens*. Journal of Herpetology 14: 1-6. Species: 8, 9.
38. Brooks, D. R. 1978. Systematic status of proteocephalid cestodes from reptiles and amphibians in North America with descriptions of three new species. Helminthological Society of Washington Proceedings 45: 1-28. Species: 18.
39. ———, and R. L. Buckner. 1976. Some platyhelminth parasites of sirens (Amphibia: Sirenidae) from North America. Journal of Parasitology 62: 906-909. Species: 19.
40. Brooks, G. R. 1975. *Scincella lateralis*. Catalogue of American Amphibians and Reptiles: 169.1-169.4. Species: 59.
41. Brown, L. E. 1964. An electrophoretic study of variation in the blood proteins of the toads, *Bufo americanus* and *Bufo woodhousei*. Systematic Zoology 13: 92-95. Species: 21, 22.
42. ———. 1975. The *pipiens* papers: an account of the great thirty-years war of leopard frogs. Chicago Herpetological Society Bulletin 10: 20. Species: 32, 36, 37.
43. ———, and J. R. Brown. 1972a. Call types of the *Rana pipiens* complex in Illinois. Science 176: 928-929. Species: 32, 36, 37, referred to as western, northern, and eastern call types, respectively.
44. ———, and ———. 1972b. Mating calls and distributional records of treefrogs of the *Hyla versicolor* complex in Illinois. Journal of Herpetology 6: 233-234. Species: 25, 28.
45. ———, and ———. 1973. Notes on breeding choruses of two anurans (*Scaphiopus holbrooki*, *Pseudacris streckeri*) in southern Illinois. Chicago Academy of Sciences Natural History Miscellanea 192. 3 p. Species: 20, 29.
46. ———, and ———. 1975. Evidence of climbing ability by western fox snakes (*Elaphe vulpina vulpina*). Maryland Herpetological Society Bulletin 11: 179. Species: 68.
47. ———, and ———. 1977. Comparison of environmental and body temperatures as predictors of mating call parameters of spring peepers. American Midland Naturalist 97: 209-211. Species: 27.
48. ———, and R. S. Funk. 1977. Absence of dorsal spotting in two species of leopard frogs (Anura: Ranidae). Herpetologica 33: 290-293. Species: 36, 37.
49. ———, ———, D. Moll, and J. K. Tucker. 1975. Distributional notes on reptiles in Illinois. Herpetological Review 6: 78-79. Species: 53, 57, 63, 88, 93.
50. ———, H. O. Jackson, and J. R. Brown. 1972. Burrowing behavior of the chorus frog, *Pseudacris streckeri*. Herpetologica 28: 325-328. Species: 29, 30.
51. ———, and D. Moll. 1979. The status of the nearly extinct Illinois mud turtle (*Kinosternon flavescens spooneri* Smith 1951)

- with recommendations for its conservation. Milwaukee Public Museum Special Publications in Biology and Geology 3: 49 p. Species: 29, 40, 42, 43, 45, 61, 70, and *Graptemys* sp.
52. ———, and J. R. Pierce. 1965. Observations on the breeding behavior of certain anuran amphibians. Texas Journal of Science 17: 313-317. Species: 21, 22, 23, 24, 26, 27, 28, 30, 33, 34, "36" (= 37?).
53. ———, and J. H. Thrall. 1974. Similarities in evasive behavior of wolf spiders (Araneae: Lycosidae), American toads (Anura: Bufonidae) and ground beetles (Coleoptera: Carabidae). Great Lakes Entomologist 7: 30. Species: 21.
54. Buckner, R. L., and B. B. Nickol. 1979. Geographic and host-related variation among species of *Fessisentis* (Acanthocephala) and confirmation of the *Fessisentis fessus* life cycle. Journal of Parasitology 65: 161-166. Species: 6, 19.
55. Cable, R. M., and F. M. Fisher, Jr. 1961. A fifth species of *Neoechinorhynchus* (Acanthocephala) in turtles. Journal of Parasitology 47: 666-667. Species: 51b.
56. Clark, D. R., Jr. 1961. A westward extension of the known range of *Natrix kirtlandi*. Herpetologica 17: 279. Species 63, 80.
57. ———. 1968. A proposal of specific status for the western worm snake, *Carphophis amoenus vernis* (Kennicott). Herpetologica 24: 104-112. Species: 62.
58. Cochran, D. M., and C. J. Goin. 1970. The new field book of reptiles and amphibians. G. P. Putnam's Sons, New York. 359 p. Brief descriptions and ranges of almost all species occurring in Illinois.
59. Collins, J. T., and J. L. Knight. 1980. *Crotalus horridus*. Catalogue of American Amphibians and Reptiles: 253.1-253.2. Species: 97.
60. Conant, R. 1963. Evidence for the specific status of the water snake *Natrix fasciata*. American Museum Novitates 2122: 1-38. Species: 78, 80.
61. ———. 1975. A field guide to reptiles and amphibians of eastern and central North America. Houghton Mifflin Co., Boston. xviii + 429 p. Descriptions and ranges of all species occurring in Illinois.
62. Cox, B. 1972. Notes on aberrant pattern in hatchling prairie kingsnakes (*Lampropeltis calligaster*). Chicago Herpetological Society Bulletin 7:44-45, 47. Species: 72.
63. Dancik, T. 1974. A survey of the turtles of the Des Plaines River. Chicago Herpetological Society Bulletin 9: 23-33. Species: 40, 44, 45, 46, 48, 49, 50, 51a, 51b, 52, 55, and several exotics (*Chinemys reevesi*, *Clemmys insculpta*, *Malaclemys terrapin*, *Pseudemys floridana*, *P. concinna*, *P. scripta*, *P. s. ornata*, and *Terrapene carolina triunguis*).
64. Dunagan, T. T., and D. M. Miller. 1973. Some morphological and functional observations on *Fessisentis fessus* Van Cleave (Acanthocephala) from the dwarf salamander, *Siren intermedia* Le Conte. Helminthological Society of Washington Proceedings 40: 209-216. Species: 19.
65. Dundee, H. A. 1971. *Cryptobranchus alleghaniensis*. Catalogue of American Amphibians and Reptiles: 101.1-101.4. Species: 1.
66. Dunson, W. A. 1980. The relation of sodium and water balance to survival in sea water of estuarine and freshwater races of the snakes *Nerodia fasciata*, *N. sipedon* and *N. valida*. Copeia 1980: 268-280. Species: 85.
67. Dyer, W. G. 1970. Ochetosomatid trematodes from snakes in North Dakota and Illinois. Helminthological Society of Washington Proceedings 37: 229. Species 67, 71.
68. ———. 1973. *Falcaustra chabandi* sp. n. (Nematoda: Kathliniidae) from the western lesser siren, *Siren intermedia nettingi* Goin, 1942. Journal of Parasitology 59: 994-996. Species: 19.
69. ———, and R. A. Brandon. 1973. Helminths of three sympatric species of cave-dwelling salamanders in southern Illinois. Illinois State Academy of Science Transactions 66: 23-29. Species: 13, 16, 17.
70. ———, ———, and R. L. Price. 1980. Gastrointestinal helminths in relation to sex and age of *Desmognathus fuscus* (Green, 1818) from Illinois. Helminthological Society of Washington Proceedings 47: 95-99. Species: 10.
71. ———, and D. M. McNair. 1974. Ochetosomatid flukes of colubrid snakes from Illinois and Central America. Illinois State Academy of Science Transactions. 67: 463-464. Species: 71, 73.
72. ———, and S. B. Peck. 1975. Gastrointestinal parasites of the cave salamander, *Eurycea lucifuga* Rafinesque, from the southeastern United States. Canadian Journal of Zoology 53: 52-54. Species: 13.
73. Dyrkacz, S. 1973a. Isolation mechanisms of anurans. Chicago Herpetological Society Bulletin 8: 13-16. Species: 21, 22.
74. ———. 1973b. Pine Hills Ecological Area. Chicago Herpetological Society Bulletin 8: 30-31. Species: 64, 67, 81, 86, 91, 94, 95, 96, 97.
75. ———. 1974. Rare and/or endangered species of Illinois: reptiles and amphibians. Chicago Herpetological Society Bulletin 9: 15-16. Species: 1, 2, 5, 6, 10, 11, 12, 13, 14, 16, 20, 24, 26, 29, 38, 39, 41, 42, 43, 47, 48, 49, 60, 63, 66, 69, 70, 75, 76,

- 78, 83, 84, 85, 92, 93, 97, 98, *Eumeces septentrionalis* and *Cemophora coccinea*.
76. ———. 1975a. The second recorded occurrence of an albino *Thamnophis radix radix* (Baird and Girard). *Herpetological Review* 6: 10. Species: 89.
77. ———. 1975b. Notes on the reproduction of some Illinois snakes. *Chicago Herpetological Society Bulletin* 10: 16-17. Species: 67, 68, 71, 73, 74, 85, 86, 98.
78. ———. 1975c. Life history: *Thamnophis s. sirtalis*. *Herpetological Review* 6: 20. Species: 91.
79. ———. 1975d. The venomous snakes of Illinois. *Outdoor Illinois* 14: 53-60. Species: 68, 71, 74, 78, 95, 96, 97, 98.
80. ———. 1975e. Not all frogs are found in ponds. *Outdoor Illinois* 14: 44-45. Species: 24, 25, 26, 27, 28.
81. ———. 1976. Geographic distribution: *Gastrophryne carolinensis*. *Herpetological Review* 7: 125. Species: 39.
82. ———. 1977. The natural history of the eastern milk snake (Reptilia, Serpentes, Colubridae) in a disturbed environment. *Journal of Herpetology* 11: 155-159. Species: 8, 30, 74, 89, 91.
83. ———, and M. J. Corn. 1974. (Abstract) Response of naive, neonate bullsnakes to water extracts of potential prey items. *Herpetological Review* 5: 74. Species: 83.
84. Elghammer, R. W., and R. E. Johnson. 1976. Heat production by the eastern box turtle (*Terrapene carolina carolina*) as measured by direct calorimetry. *Illinois State Academy of Science Transactions* 69: 200-206. Species: 52.
85. ———, R. O. Swan, R. E. Johnson, and D. Murphy. 1979. Physical characteristics of male and female eastern box turtles (*Terrapene carolina carolina*) found in Illinois. *State Academy of Science Transactions* 72: 1-8. Species: 52.
86. Ernst, C. H. 1971. *Chrysemys picta*. Catalogue of American Amphibians and Reptiles: 106.1-106.4. Species: 45.
87. ———. 1972. *Clemmys guttata*. Catalogue of American Amphibians and Reptiles: 124.1-124.2. Species: 48.
88. ———, and R. W. Barbour. 1972. Turtles of the United States. University Press of Kentucky. x + 347 p. Descriptions, distribution, and life history information for all species of turtles occurring in Illinois.
89. Evers, R. A., and L. M. Page. 1977. Some unusual natural areas in Illinois. *Illinois Natural History Survey Biological Notes* 100. 47 p. Species: 5, 6, 11, 12, 13, 15, 24, 26, 29, 31, 33, 38, 39, 42, 52, 53, 60, 61, 65, 66, 69, 70, 75, 76, 78, 83, 85, 92, 95, 96, 97.
90. Fisher, F. M., Jr. 1960. On acanthocephala of turtles, with the description of *Neoechinorhynchus emyditoides* n. sp. *Journal of Parasitology* 46: 257-266. Species: 46, 51b.
91. Frankland, L. 1980. Geographic distribution: *Hemidactylum scutatum*. *Herpetological Review* 11: 13. Species: 14.
92. Fritts, T. H. 1968. Intra-brood variation in *Ophedrys vernalis* (Harlan). *Herpetologica* 24: 79-82. Species: 82.
93. Galbreath, E. C. 1961. Two alligator snappers, *Macrolemys temmincki*, from southern Illinois. *Illinois State Academy of Science Transactions* 54: 134-135. Species: 41.
94. Garton, J. S. 1972. Courtship of the small-mouthed salamander, *Ambystoma texanum*, in southern Illinois. *Herpetologica* 28: 41-45. Species: 7.
95. ———, and R. A. Brandon. 1975. Reproductive ecology of the green treefrog, *Hyla cinerea*, in southern Illinois (Anura: Hylidae). *Herpetologica* 31: 150-161. Species: 26, 28.
96. ———, E. W. Harris, and R. A. Brandon. 1970. Descriptive and ecological notes on *Natrix cyclopion* in Illinois. *Herpetologica* 26: 454-461. Species: 19, 76, 77, 79, 80, 96.
97. Gasdorf, H. 1969. A record of the plains hog-nose snake from Illinois. *Peoria Academy of Science Proceedings* 2: 17-19. Species: 70.
98. Gehlbach, F. R. 1967. *Ambystoma tigrinum*. Catalogue of American Amphibians and Reptiles: 52.1-52.4. Species: 8.
99. Gilbert, H. R. 1977. Bullsnake collecting in the central Illinois sand prairies. *St. Louis Herpetological Society Newsletter* 4(11-12): 10-13. Species: 83.
100. Goodrich, M. 1978. An albino black snake (*Elaphe obsoleta obsoleta*) from Illinois. *Chicago Herpetological Society Bulletin* 13: 46-48. Species: 67.
101. Gray, R. H. 1971. Fall activity and overwintering of the cricket frog (*Acris crepitans*) in central Illinois. *Copeia* 1971: 748-750. Species: 23.
102. ———. 1972. Metachrosis of the vertebral stripe in the cricket frog, *Acris crepitans*. *American Midland Naturalist* 87: 549-551. Species: 23.
103. ———. 1977. Lack of physiological differentiation in three color morphs of the cricket frog (*Acris crepitans*) in Illinois. *Illinois State Academy of Science Transactions* 70: 73-79. Species: 23.
104. Green, D. M. 1980. Size differences in adhesive toe-pad cells of treefrogs of the diploid-polyploid *Hyla versicolor* complex. *Journal of Herpetology* 14: 15-19. Species: 25.
105. Gunter, G., and W.E. Brode. 1964. *Necturus* in the state of Mississippi, with notes

- on adjacent areas. *Herpetologica* 20: 114-126. Species: 18.
106. Helms, D. R., and H. J. Stains. 1966. Kill of mammals and birds and entrapment of turtles on railroad tracks. Illinois State Academy of Science Transactions, 59: 297. Species: 44, *Terrapene* sp., *Pseudemys* sp.
107. Highton, R. 1962a. Geographic variation in the life history of the slimy salamander. *Copeia* 1962: 597-613. Species: 17.
108. ———. 1962b. Revision of North American salamanders of the genus *Plethodon*. Florida State Museum Bulletin 6: 235-367. Species: 15, 16, 17.
109. ———. 1979. A new cryptic species of salamander of the genus *Plethodon* from the southeastern United States (Amphibia: Plethodontidae). *Brimleyana* 1: 31-36. Species: 16.
110. ———, and A. Larson. 1979. The genetic relationships of the salamanders of the genus *Plethodon*. *Systematic Zoology* 28: 579-599. Species: 16.
111. ———, and T. P. Webster. 1976. Geographic protein variation and divergence in populations of the salamander *Plethodon cinereus*. *Evolution* 30: 33-45. Species: 15.
112. Holman, J. A. 1966. Herpetological records from northcentral Illinois. Illinois State Academy of Science Transactions 59: 298-300. Species: 7, 8, 9, 21, 23, 28, (or 25), 30, 33, "36" (probably 32), 40, 45, 49, 55, 60, 63, 64, 67, 68, 72, 74, 80, 82, 83, 84, 86, 87, 88, 89, 98.
113. ———. 1971. *Ophisaurus attenuatus*. Catalogue of American Amphibians and Reptiles: 111.1-111.3. Species: 60.
114. ———, and H. P. Arai. 1962. Illinois range extension of *Lygosoma laterale* (Say) and *Natrix kirtlandi* (Kennicott). *Herpetologica* 18: 210. Species: 59, 63.
115. ———, H. O. Jackson, and W. H. Hill. 1964. *Pseudacris streckeri illinoensis* Smith from extreme southern Illinois. *Herpetologica* 20: 205. Species: 29.
116. Huheey, J. E. 1965. A mathematical method of analyzing biogeographical data. 1. Herpetofauna of Illinois. *American Midland Naturalist* 73: 490-500. Species: 8, 18, 23, 27, 28, 30, 33, 34, 36, 40, 44, 45, 50, 51b, 55, 60, 71, 74, 80, 85, 86, 87, 91, 93, and *Cemophora coccinea*.
117. ———. 1969. (Abstract) Anuran response to warning coloration in insects. *Journal of Herpetology* 3: 194-195. Species: 26.
118. Hutchison, M. 1976. Preservation values of the Big Creek watershed in Hardin County, Illinois. Illinois Nature Preserves Commission, Rockford. 68 p. Species: 1, 11, 12, 13, 16, 17, 21, 22, 23, 27, 28, 29, 31, 33, 34, 37, 39, 45, 51b, 52, 56, 57, 58, 59, 61, 62, 64, 65, 73, 80, 81, 91, 94, 95, 97.
119. Hutchison, V. H. 1966. *Eurycea lucifuga*. Catalogue of American Amphibians and Reptiles: 24.1-24.2. Species: 13.
120. Illinois Nature Preserves Commission. 1977. Preserving Illinois' Natural Heritage. Illinois Nature Preserves Commission Biennial Report, 1975-1976. 56 p. Species: 2, 5, 6, 10, 24, 29, 39, 53, 60, 61, 66, 70, 75, 92, 96.
121. ———. 1979. Illinois nature preserves system. 1977-1978 report. Illinois Nature Preserves Commission, Rockford. 48 p. Species: 2, 5, 6, 10, 24, 29, 39, 42, 53, 60, 61, 66, 70, 75, 92, 96.
122. Ireland, P. H. 1979. *Eurycea longicauda*. Catalogue of American Amphibians and Reptiles: 221.1-221.4. Species: 12.
123. Iverson, J. B. 1977. *Kinosternon subrubrum*. Catalogue of American Amphibians and Reptiles: 193.1-193.4. Species: 43.
124. ———. 1979. A taxonomic reappraisal of the yellow mud turtle, *Kinosternon flavescens* (Testudines: Kinosternidae). *Copeia* 1979: 212-225. Species: 42.
125. Jenssen, T. A. 1967. Food habits of the green frog, *Rana clamitans*, before and during metamorphosis. *Copeia* 1967: 214-218. Species: 34.
126. ———. 1968. Some morphological and behavioral characteristics of an intergrade population of the green frog, *Rana clamitans*, in southern Illinois. Illinois State Academy of Science Transactions 61: 252-259. Species: 34.
127. ———. 1972. Seasonal organ weights of the green frog, *Rana clamitans* (Anura, Ranidae), under natural conditions. Illinois State Academy of Science Transactions 65: 15-24. Species: 34.
128. ———, and W. D. Klimstra. 1966. Food habits of the green frog, *Rana clamitans*, in southern Illinois. *American Midland Naturalist* 76: 169-182. Species: 34.
129. Johnson, C. 1966. Species recognition in the *Hyla versicolor* complex. *Texas Journal of Science* 18: 361-364. Species: 25, 28.
130. Kimberley, G., S. Bjorklund, R. Bjorklund, and J. Deters. 1971. Herpetological records from the Mason State Forest. Peoria Academy of Science Proceedings 4: 8-11. Species: 8, 22, 34, 37 (as 36), 42, 45, 53, 59, 61, 72.
131. Klimstra, W. D., and F. Newsome. 1960. Some observations on the food coactions of the common box turtle, *Terrapene c. carolina*. *Ecology* 41: 639-647. Species: 52.
132. ———, and M. Hutchison. 1965. A collection of amphibians and reptiles in southern Illinois. Illinois State Academy of Science Transactions 58: 151-156. Species: 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 30, 31, 33, 34, 37, 40, 43, 44, 45, 46, 52, 55, 56,

- 57, 58, 59, 61, 62, 64, 65, 67, 69, 71, 72, 73, 74, 77, 79, 80, 81, 87, 91, 94, 95, 96, 97; identifications of 18 and perhaps 26 are suspect.
133. ———, and C. W. Myers. 1965. Foods of the toad, *Bufo woodhousei fowleri* Hinckley. Illinois State Academy of Science Transactions 58: 11-26. Species: 22.
134. Kranz, R. 1966. First sighting? Chicago Herpetological Society Bulletin 1(2): 3. Species: 45.
135. Labanick, G. M., and G. T. Davis. 1978. The spermatophore of the small-mouthed salamander, *Ambystoma texanum* (Amphibia, Urodela, Ambystomatidae). Journal of Herpetology 12: 111-114. Species: 7.
136. Larson, A., and R. Highton. 1978. Geographic protein variation and divergence in the salamanders of the *Plethodon welleri* group (Amphibia, Plethodontidae). Systematic Zoology 27: 431-448. Species: 16.
137. Leviton, A. E. 1970. Reptiles and amphibians of North America. Doubleday and Co., Inc., New York. 250 p. A general guide to all amphibians and reptiles of the United States and Canada.
138. Lewis, R. J. 1962. Food habits of the leopard frog (*Rana pipiens sphenocephala*) in a minnow hatchery. Illinois State Academy of Science Transactions 55: 78-79. Species: probably 37.
139. Lewis, W. M., Jr. 1962. Stomach contents of bullfrogs (*Rana catesbeiana*) taken from a minnow hatchery. Illinois State Academy of Science Transactions 55: 80-83. Species: 33.
140. Lynch, J. D. 1965. Rediscovery of the four-toed salamander, *Hemidactylum scutatum*, in Illinois: a relict population. Herpetologica 21: 151-153. Species: 14.
141. McAlister, W. H. 1963. Evidence of mild toxicity in the saliva of the hognose snake (*Heterodon*). Herpetologica 19: 132-137. Species: Assay animals collected in "the Chicago area" were 2, 22, 27, 30.
142. McCoy, C. J. 1973. *Emydoidea blandingii*. Catalogue of American Amphibians and Reptiles: 136.1-136.4. Species: 49.
143. McNaughton, G. 1976a. The status of relictual populations of *Thamnophis radix radix* (Baird and Girard) and *Pituophis melanoleucus sayi* (Schlegel) from St. Clair County, Illinois. St. Louis Herpetological Society Newsletter 3(1-2): 4-5. Species: 83, 89.
144. ———, 1976b. Relict populations of *Pituophis melanoleucus* and *Thamnophis radix* in Illinois. Herpetological Review 7: 124. Species: 83, 89.
145. Markezich, A. 1967a. A plea for salamander conservation. Chicago Herpetological Society Bulletin 2(1):3-4. Species: 2, 3.
146. ———. 1967b. Something to think about. Chicago Herpetological Society Bulletin 2(3): 28. Species: *Terrapene* sp.
147. ———. 1967c. Aberrant patterns in baby *Agkistrodon c. contortrix* X *mokasen*. Chicago Herpetological Society Bulletin 2(4): 17-19. Species: 95.
148. Martin, R. E. 1973. Osteology of North American *Bufo*: the *americanus*, *cognatus*, and *boreas* species groups. Herpetologica 29: 375-387. Species: 21.
149. Martof, B. S. 1970. *Rana sylvatica*. Catalogue of American Amphibians and Reptiles: 86.1-86.4. Species: 38.
150. ———. 1973. *Siren intermedia*. Catalogue of American Amphibians and Reptiles: 127.1-127.3. Species: 19.
151. Maxson, L. R., R. Highton, and D. B. Wake. 1979. Albumin evolution and its phylogenetic implications in the plethodontid salamander genera *Plethodon* and *Ensatina*. Copeia 1979: 502-508. Species: 16.
152. Mecham, J. S. 1967. *Notophthalmus viridescens*. Catalogue of American Amphibians and Reptiles: 53.1-53.4. Species: 9.
153. ———, M. J. Littlejohn, R. S. Oldham, L. E. Brown, and J. R. Brown. 1973. A new species of leopard frog (*Rana pipiens* complex) from the plains of the central United States. Museum of the Texas Technical University Occasional Papers 18: 1-11. Species: 32.
154. Merczak, N. 1966. Snakes of Illinois. Chicago Herpetological Society Bulletin 1(4): 13-15. Species: 62, 63, 64, 65, 67, 68, 69, 70, 71, 72, 73, 74, 77, 79, 80, 81, 82, 83, 84, 85, 86, 87, 89, 93, 94, 95, 96, 97, 98.
155. Merkle, D. A., and S. I. Guttman. 1977. Geographic variation in the cave salamander *Eurycea lucifuga*. Herpetologica 33: 313-321. Species: 13.
156. Merriman, T. 1975. Large litter sizes in intergrade copperheads (*Agkistrodon contortrix contortrix* X *mokeson*). St. Louis Herpetological Society Newsletter 2(12): 3-5. Species: 95.
157. Minton, S. A. 1972. Amphibians and reptiles of Indiana. Indiana Academy of Science Monograph 3. v + 346 p. Some illustrations are of animals from Illinois.
158. ———, and S. K. Salanitro. 1972. Serological relationships among some colubrid snakes. Copeia 1972: 246-252. Species: 68, 72, 89.
159. Mitchell, J. C. 1979. The concept of phenology and its application to the study of amphibian and reptile life histories. Herpetological Review 10: 51-54. Species: 45.
160. Mittleman, M. B. 1966. *Eurycea bislineata*. Catalogue of American Amphibians and Reptiles: 45.1-45.4. Species: 11.
161. Moehn, L. D. 1980. Microhabitat prefer-

- ence in the broadheaded skink. Chicago Herpetological Society Bulletin 15: 49-53. Species: 57, 58.
162. Moll, D. 1976a. Food and feeding strategies of the Ouachita map turtle (*Graptemys pseudogeographica ouachitensis*). American Midland Naturalist 96: 478-482. Species: 51b.
163. ———. 1976b. Environmental influence on growth rate in the Ouachita map turtle, *Graptemys pseudogeographica ouachitensis*. Herpetologica 32: 439-443. Species: 51b.
164. ———. 1976c (1977). A review of supposed insect catching by basking *Graptemys geographica*. Illinois State Academy of Science Transactions 69: 302-303. Species: 50.
165. ———. 1979. Subterranean feeding by the Illinois mud turtle, *Kinosternon flavescens spooneri* (Reptilia, Testudines, Kinosternidae). Journal of Herpetology 13: 371-373. Species: 42.
166. ———. 1980. Dirty river turtles. Natural History 89(5): 42-49. Species: 40, 42, 43, 44, 45, 46, 49, 50, 51b, 54, 55.
167. ———, and L. E. Brown. 1976. The mud turtle *Kinosternon flavescens spooneri*—nearly extinct in Illinois. The Explorer 1: 6-7. Reprinted in Chicago Herpetological Society Bulletin 12: 67-68. Species: 42.
168. ———, G. L. Paukstis, and J. K. Tucker. 1977. Herpetological records from Illinois. Herpetological Review 8: 85. Species: 7, 44, 46, 72.
169. ———, and J. K. Tucker. 1976a. Geographic distribution: *Plethodon cinereus*. Herpetological Review 7: 178. Species: 15.
170. ———, and ———. 1976b. Geographic distribution: *Terrapene ornata ornata*. Herpetological Review 7: 178. Species: 53.
171. Moll, E. O. 1962. Recent herpetological records for Illinois. Herpetologica 18: 207-209. Species: 19, 29, 63, 66, 70, 72, 77, 79, 92.
172. ———. 1973. Latitudinal and intersub-specific variation in reproduction of the painted turtle, *Chrysemys picta*. Herpetologica 29: 307-318. Species: 45.
173. Moore, J. A. 1975. *Rana pipiens*—the changing paradigm. American Zoologist 15: 837-849. Species: 32, 36, 37.
174. Morris, M. A. 1973. Life history: *Thamnophis radix radix*. HISS News-Journal 1: 185-186. Species: 89.
175. ———. 1974a. Notes on parturition in the midland brown snake, *Storeria dekayi*. Illinois State Academy of Science Transactions 67: 3-4. Species: 86.
176. ———. 1974b. An Illinois record for a triploid species of the *Ambystoma jeffersonianum* complex. Journal of Herpetology 8: 255-256. Species: 5.
177. ———. 1974c. Observations on a large litter of the snake *Storeria dekayi*. Illinois State Academy of Science Transactions 67: 359-360. Species: 86.
178. ———. 1975a. An unusual color variation of *Natrix kirtlandi*. St. Louis Herpetological Society Newsletter 2(8-9): 6-7. Species: 63.
179. ———. 1975b. Variation in a population of *Thamnophis radix*. Chicago Herpetological Society Bulletin 10: 14-16. Species: 89.
180. ———. 1976. New herpetofaunal records for Illinois. Herpetological Review 7: 126-127. Species: 10, 15, 19, 38, 39, 60, 74, 77, 94.
181. ———. 1977. A case of melanism in *Thamnophis radix*. Illinois State Academy of Science Transactions 69: 119-120. Species: 89.
182. ———. 1978. Temperature elevation as a releaser of mating behavior in some North American colubrid snakes. Chicago Herpetological Society Bulletin 13: 9-12. Species: 67, 73, 89, 91.
183. ———, and S. M. Meyer. 1980. Longevity records for captive *Bufo americanus* and *Uta stansburiana*. Chicago Herpetological Society Bulletin 15: 79-80. Species: 21.
184. Munyer, E. A. 1967. Behavior of an eastern hognose snake, *Heterodon platyrhinos*, in water. Copeia 1967: 668-670. Species: 71.
185. ———, and P. W. Parmalee. 1967. Additional herpetological records for Sangamon, Macoupin, and Menard counties, Illinois. Illinois State Academy of Science Transactions 60: 200-202. Species: 7, 40, 52, 58, 60, 61, 63, 84, 87.
186. Murphy, J. 1978. The crayfish-eater. Chicago Herpetological Society Bulletin 13: 13-18. Species: 80, 85, 91.
187. Myers, C. W. 1963. Ontogenetic color variation of the snake *Virginia valeriae*. Herpetologica 18: 273-274. Species: 94.
188. ———, and W. D. Klimstra. 1963. Amphibians and reptiles of an ecologically disturbed (strip-mined) area in southern Illinois. American Midland Naturalist 70:126-132. Species: 4, 19, 22, 23, 27, 28, 30, 31, 33, 37, 40, 44, 45, 46, 52, 53, 56, 57, 58, 59, 64, 67, 71, 72, 77, 79, 80, 81, 86, 88, 91.
189. Neill, W. T. 1963. *Hemidactylium scutatum*. Catalogue of American Amphibians and Reptiles: 2.1-2.2. Species: 14.
190. Nelson, C. E. 1972. *Gastrophryne carolinensis*. Catalogue of American Amphibians and Reptiles: 120.1-120.4. Species: 39.
191. Nickerson, M. A., and C. E. Mays. 1968. More aberrations in the color patterns of rattlesnakes. Wasmann Journal of Biology 26: 125-131. Species: 97.
192. ———, and ———. 1973. The hellbenders:

- North American "giant salamanders." Milwaukee Public Museum Publications in Biology and Geology 1. viii + 106 p. Species: 1.
193. Nickol, B. B. 1972. *Fessisentis*, a genus of acanthocephalans parasitic in North American poikilotherms. *Journal of Parasitology* 58: 282-289. Species: 12, 13, 16 (listed as 15), 19.
194. Pace, A. E. 1974. Systematic and biological studies of the leopard frogs (*Rana pipiens* complex) of the United States. University of Michigan Museum of Zoology Miscellaneous Publications 148: 1-140. Species: 32, 36, 37.
195. Pentecost, E. D. 1974. Behavior of *Eumeces laticeps* exposed to a thermal gradient. *Journal of Herpetology* 8: 169-173. Species: 58.
196. ———, and R. C. Vogt. 1976. Amphibians and reptiles of the Lake Michigan Drainage Basin. Argonne National Laboratory, vol. 16. 71 p. Species: 2, 3, 8, 9, 14, 15, 18, 21, 22, 23, 25, 27, 28, 30, 33, 34, 35, 36, 38, 40, 44, 45, 46, 48, 49, 50, 55, 57, 60, 61, 63, 64, 67, 68, 71, 74, 80, 82, 84, 85, 86, 87, 88, 89, 91, 98.
197. Pisani, G. R. 1972. Remarks on the holotype of *Virginia valeriae elegans* (Kennicott). *Herpetologica* 28: 348. Species: 94.
198. Price, R. L., and T. St. John. 1980. Helminth parasites of the small-mouthed salamander, *Ambystoma texanum* Matthes, 1855 from Williamson County, Illinois. *Helminthological Society of Washington Proceedings* 47: 273-274. Species: 7, 10, (10 erroneously reported from Pope County).
199. Puckette, B. G. 1962. Ophiophagy in *Hyla versicolor*. *Herpetologica* 18: 143. Species: 28, 65, 87, and 91 also mentioned, but origin of specimens not stated.
200. Raveling, D. G. 1965. Variation in a sample of *Bufo americanus* from southwestern Illinois. *Herpetologica* 21: 219-225. Species: 21, 22.
201. Reichling, S. 1974. A new record size *Natrix erythrogaster neglecta* X *flavigaster*. *Chicago Herpetological Society Bulletin* 9: 16. Species: 77.
202. Resetar, A. 1977. A key to the amphibians and reptiles of northwest Indiana and adjacent Illinois. *Chicago Herpetological Society Bulletin* 12: 84-88. Species: 2, 3, 4, 8, 9, 14, 15, 17, 18, 19, 21, 22, 23, 27, 28 (?25), 30, 33, 34, 35, 36, 38, 40, 43, 44, 45, 46, 48, 49, 50, 52, 53, 55, 57, 60, 61, 63, 64, 67, 68, 71, 74, 80, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98.
203. Robinson, T. L. 1976. Massasauga. *Illinois Wildlife* 12(9): 20. Species: 98.
204. Ross, H. H. 1964. Poisonous snakes. *Illinois Natural History Survey Reports* 22. Species: 95, 96, 97, 98.
205. Rossman, D. A. 1960. Herpetofaunal survey of the Pine Hills area of southern Illinois. *Florida Academy of Sciences Quarterly Journal* 22: 207-225. Species: 3, 4, 6, 7, 8, 9, 10, 12, 13, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28 (?25), 30, 33, 34, 35, 37, 38, 40, 41, 44, 45, 46, 51b, 52, 55, 56, 57, 58, 59, 62, 64, 65, 67, 69, 71, 72, 73, 74, 76, 77, 79, 80, 81, 86, 87, 88, 91, 92, 94, 95, 96, 97, and *Cemophora coccinea*.
206. ———. 1962. *Thamnophis proximus* (Say), a valid species of garter snake. *Copeia* 1962: 741-748. Species: 88, 90.
207. ———. 1963. The colubrid snake genus *Thamnophis*: a revision of the Sauritus group. *Florida State Museum Bulletin* 7: 99-178. Species: 88, 90.
208. ———. 1970a. *Thamnophis proximus*. *Catalogue of American Amphibians and Reptiles*: 98.1-98.3. Species: 88.
209. ———. 1970b. *Thamnophis sauritus*. *Catalogue of American Amphibians and Reptiles*: 99.1-99.2. Species: 90.
210. Salanito, S. K., and S. A. Minton. 1973. Immune response of snakes. *Copeia* 1973: 504-515. Species: 64, 67, 68.
211. Salthe, S. N. 1973. *Amphiuma tridactylum*. *Catalogue of American Amphibians and Reptiles*: 149.1-149.3. Mentions an old record of *A. tridactylum* from Illinois.
212. Sanders, O., and J. C. Cross. 1964. Relationships between certain North American toads as shown by cytological study. *Herpetologica* 19: 248-255. Species: 22.
213. Schaafl, R. T., Jr., and J. S. Garton. 1970. Raccoon predation on the American toad, *Bufo americanus*. *Herpetologica* 26: 334-335. Species: 21.
214. ———, and P. W. Smith. 1970. Geographic variation in the pickerel frog. *Herpetologica* 26: 240-254. Species: 35.
215. ———, and ———. 1971. *Rana palustris*. *Catalogue of American Amphibians and Reptiles*: 117.1-117.3. Species: 35.
216. Schramm, P., and R. M. Nordgren. 1977. (Abstract) Recent herpetological records for western Illinois including a relic population of the four-toed salamander, *Hemidactylum scutatum*. *Illinois State Academy of Science Transactions* 70: 243. Species: 3, 14, 57, 67, 72, 91.
217. Schwaner, T. D., and R. H. Mount. 1976. Systematic and ecological relationships of the water snakes *Natrix sipedon* and *N. fasciata* in Alabama and the Florida panhandle. *University of Kansas Museum of Natural History Occasional Papers* 45: 1-44. Species: 80.
218. Seidel, M. E. 1978. *Kinosternon flavescens*. *Catalogue of American Amphibians and Reptiles*: 216.1-216.4. Species: 42.
219. Sever, D. M. 1972. Geographic variation and taxonomy of *Eurycea bislineata*

- (Caudata: Plethodontidae) in the upper Ohio River valley. *Herpetologica* 28: 314-324. Species: 11.
220. Sexton, O. J. 1979. Remarks on defensive behavior of hognose snakes. *Heterodon*. *Herpetological Review* 10: 86-87. Species: 71.
221. Seymour, J. E. 1966a. Field trip to southern Illinois. *Chicago Herpetological Society Bulletin* 1(3): 10-12. Species: 7, 9, 12, 13, 16, 17, 19, 21, 22, 23, 44, 56, 57, 59, 64, 65, 67, 80, 86, 94, 96.
222. ———. 1966b. Flying trip to southern Illinois. *Chicago Herpetological Society Bulletin* 1(4): 22-24. Species: 12, 13, 16, 17, 21, 22, 40, 44, 46, 52, 57, 62, 64, 65, 67, 77, 80, 94, 96.
223. Shoop, C. R. 1964. *Ambystoma talpoideum*. Catalogue of American Amphibians and Reptiles: 8.1-8.2. Species: 6.
224. Skorepa, A. C., and J. E. Ozment. 1968. Habitat, habits, and variation of *Kinosternon subrubrum* in southern Illinois. *Illinois State Academy of Science Transactions* 61: 247-251. Species: 40, 43, 44, 69, 79.
225. Smith, H. M. 1978. Amphibians of North America: a guide to field identification. Golden Press, New York. 160 p. Descriptions and ranges of all species occurring in Illinois.
226. Smith, P. W. 1961. The amphibians and reptiles of Illinois. *Illinois Natural History Survey Bulletin* 28: 1-298. An in-depth treatment of variation and distribution of all species known to occur in Illinois at that time.
227. ———. 1963. *Plethodon cinereus*. Catalogue of American Amphibians and Reptiles: 5.1-5.3. Species: 15.
228. ———. 1966a. *Pseudacris streckeri*. Catalogue of American Amphibians and Reptiles: 27.1-27.2. Species: 29.
229. ———. 1966b. *Hyla avivoca*. Catalogue of American Amphibians and Reptiles: 28.1-28.2. Species: 24.
230. ———. 1968. Vertebrate animals first discovered in Illinois. *The Living Museum* 30(4). Species: 29, 42, 46, 49, 51b, 54, 55, 63, 74, 91, 94.
231. ———. 1969. Amphibians and reptiles in Illinois 4-H wildlife conservation manual. University of Illinois College of Agriculture Cooperative Extension Service, p. 28-31. General accounts of the major herpetofaunal groups in Illinois.
232. ———, and H. M. Smith. 1962. The systematic and biogeographic status of two Illinois snakes. *C. C. Adams Center for Ecological Studies Occasional Papers* 5: 1-10. Species: 70, 93.
233. ———, and ———. 1963. The systematic status of the lined snake of Iowa. *Biological Society of Washington Proceedings* 76: 297-303. Species: 93.
234. Smith, S. L. 1974. A relict population of the four-toed salamander *Hemidactylum scutatatum* (Schlegel) in Jersey County, Illinois. *Illinois State Academy of Science Transactions* 67: 163-165. Species: 14.
235. Soderberg, R. 1966a. First sighting. *Chicago Herpetological Society Bulletin* 1(3): 5-6. Species: 8.
236. ———. 1966b. Our first trip to southern Illinois. *Chicago Herpetological Society Bulletin* 1(5): 15 and 25. Species: 12, 17, 22, 52, 56, 57, 59, 62, 64, 80, 95.
237. Stocker, R. 1968. Notes on a May collecting trip in southern Illinois. *Chicago Herpetological Society Bulletin* 3(1): 6. Species: 12, 13, 59, 95.
238. Storez, R. A. 1969. Observations on the courtship of *Ambystoma laterale*. *Journal of Herpetology* 3: 87-95. Species: 2.
239. Thomas, R. A., and J. R. Dixon. 1976. Scale row formulae in *Elaphe guttata* (Linnaeus) and notes on their interpretation. *Chicago Academy of Sciences Natural History Miscellanea* 195. 5 p. Species: 66.
240. Thompson, M. P., Jr. 1972. An annotated list of the summer vertebrate fauna of upper Lusk Creek, Pope County, Illinois. *Kentucky Academy of Science Transactions* 33: 49-56. Species: 11, 12, 17, 21, 22, 23, 27, 28, 33, 34, 37, 38, 40, 52, 55, 56, 57, 58, 59, 61, 64, 67, 73, 91, 94, 95.
241. ———, M. D. Hutchison, and W. D. Klimstra. 1968. Range extension of the eastern spadefoot toad (*Scaphiopus holbrookii*, Harlan) in southern Illinois. *Illinois State Academy of Science Transactions* 61: 427. Species: 20.
242. Thrall, J. H. 1971. An albino DeKay's snake (*Storeria dekayi wrightorum* Trapido) from central Illinois. *Illinois State Academy of Science Transactions* 64: 400. Species: 86.
243. Thurow, G. R. 1966. *Plethodon dorsalis*. Catalogue of American Amphibians and Reptiles: 29.1-29.3. Species: 16.
244. ———. 1967. The aberrantly-pigmented Grand Canyon salamander, *Plethodon dorsalis*. *Illinois State Academy of Science Transactions* 60: 324-325. Species: 12, 16, 17.
245. ———. 1968. On the small black *Plethodon* problem. *Western Illinois University Series in the Biological Sciences* 6. 48 p. Species: 15, 16.
246. ———, J. E. Warnock, and D. Prater. 1968. A record size Illinois frog and snake. *Chicago Herpetological Society Bulletin* 3(2): 10-11. Species: 33, 83.
247. Tucker, J. K. 1976. Observations on the birth of a brood of Kirtland's water snake, *Clonophis kirtlandi* (Kennicott) (Reptilia, Serpentes, Colubridae). *Journal of Herpetology* 10: 53-54. Species: 63.



248. ———. 1977. Notes on the food habits of Kirtland's water snake, *Clonophis kirtlandi*. Maryland Herpetological Society Bulletin 13: 193-195. Species: 7, 27, 30, 63, 89.
249. ———, R. S. Funk, and J. T. Collins. 1977. Distributional notes on Kirtland's water snake, *Clonophis kirtlandi* (Kennicott). Herpetological Review 8: 40-41. Species: 63.
250. ———, ———, and G. L. Paukstis. 1978. The adaptive significance of egg morphology in two turtles (*Chrysemys picta* and *Terrapene carolina*). Maryland Herpetological Society Bulletin 14: 10-22. Species: 45.
251. Underhill, D. K. 1968. Albino eggs and larvae of *Ambystoma texanum* in central Illinois. Herpetologica 24: 266. Species: 7.
252. Uzzell, T. M., Jr. 1964. Relations of the diploid and triploid species of the *Ambystoma jeffersonianum* complex (Amphibia, Caudata). Copeia 1964: 257-300. Species: 2.
253. ———. 1967. *Ambystoma laterale*. Catalogue of American Amphibians and Reptiles: 48.1-48.2. Species: 2.
254. ———. 1969. Notes on spermatophore production by salamanders of the *Ambystoma jeffersonianum* complex. Copeia 1969: 602-612. Species: 2.
255. ———, and S. M. Goldblatt. 1967. Serum proteins of salamanders of the *Ambystoma jeffersonianum* complex, and the origin of the triploid species of this group. Evolution 21: 345-354. Species: 2.
256. Walley, H. D. 1962. The northern prairie skink, *Eumeces septentrionalis*, in Wisconsin and Illinois. Herpetologica 18: 281-283. *Eumeces septentrionalis* added to Illinois fauna, but locality data probably erroneous.
257. ———. 1963. The rattlesnake, *Crotalus horridus horridus*, in north-central Illinois. Herpetologica 19: 216. Species: 97.
258. ———. 1971. Rattlesnakes in Illinois. Chicago Herpetological Society Bulletin 6(2): 21-24. Species: 97, 98.
259. ———. 1977a. Geographic distribution: *Regina grahami*. Herpetological Review 8: 39. Species: 84.
260. ———. 1977b. Range extensions and new county records of some Illinois amphibians and reptiles. Herpetological Review 8: 125. Species: 9, 46, 49, 71, 82.
261. Ward, J. P. 1978. *Terrapene ornata*. Catalogue of American Amphibians and Reptiles: 217.1-217.4. Species: 53.
262. Wasserman, A. O. 1968. *Scaphiopus holbrookii*. Catalogue of American Amphibians and Reptiles: 70.1-70.4. Species: 20.
263. Webb, R. G. 1962. North American Recent soft-shelled turtles (Family Trionychidae). University of Kansas Publications Museum of Natural History 13: 429-611. Species: 54, 55.
264. ———. 1973a. *Trionyx muticus*. Catalogue of American Amphibians and Reptiles: 139.1-139.2. Species: 54.
265. ———. 1973b. *Trionyx spiniferus*. Catalogue of American Amphibians and Reptiles: 140.1-140.4. Species: 55.
266. White, J. 1978. Illinois Natural Areas Inventory technical report. Vol. 1. Survey methods and results. Illinois Natural Areas Inventory, Urbana. xx + 426 p. Species: 2, 5, 6, 10, 14, 20, 24, 26, 29, 35, 38, 39, 42, 47, 48, 49, 60, 66, 69, 70, 75, 76, 78, 90, 92, 97, 98.
267. Williams, K. L. 1978. Systematics and natural history of the American milk snake, *Lampropeltis triangulum*. Milwaukee Public Museum Publications in Biology and Geology 2. 258 p. Species: 74.
268. ———, and L. D. Wilson. 1967. A review of the colubrid snake genus *Cemophora* Cope. Tulane Studies in Zoology and Botany 13: 103-124. Species: *Cemophora coccinea*.
269. Wilson, L. D. 1970. The coachwhip snake, *Masticophis flagellum* (Shaw): taxonomy and distribution. Tulane Studies in Zoology and Botany 16: 31-99. Species: 75.
270. ———. 1973. *Masticophis flagellum*. Catalogue of American Amphibians and Reptiles: 145.1-145.4. Species: 75.
271. ———. 1978. *Coluber constrictor*. Catalogue of American Amphibians and Reptiles: 218.1-218.4. Species: 64.
272. Wortham, J. W. E., R. A. Brandon, and J. Martan. 1977. Comparative morphology of some plethodontid spermatozoa. Copeia 1977: 666-680. Species: 10, 15.
273. Wyman, R. L. 1971. The courtship behavior of the small-mouthed salamander, *Ambystoma texanum*. Herpetologica 27: 491-498. Species 7.
274. ———, and J. H. Thrall. 1972. Sound production by the spotted salamander, *Ambystoma maculatum*. Herpetologica 28: 210-212. Species: 3.
275. Young, R. A. 1973a. Notes on the Graham's water snake, *Regina grahami* Baird and Girard, in Du Page County, Illinois. Chicago Herpetological Society Bulletin 8: 4-5. Species: 23, 30, 33, 36, 40, 45, 84, 91.
276. ———. 1973b. Anthills as hibernating sites for *Ophedrys vernalis blanchardi*. Chicago Herpetological Society Bulletin 8: 7. Species: 82.
277. Ziomek, J. J. 1974. Notes on the spring activity of amphibians in the Palos Hills area of Swallow Cliff and Crooked Creek Woods, Cook County, Illinois. Chicago Herpetological Society Bulletin 9: 10-11. Species: 2, 3, 27, 30.

## CHECKLIST OF SPECIES

## AMPHIBIA

## Caudata

## Cryptobranchidae

1. *Cryptobranchus alleganiensis* (Daudin) [*Cryptobranchus a. alleganiensis*], hellbender: 1, 12, 17, 58, 61, 65, 75, 118, 132, 192, 225, 226.

## Ambystomatidae

2. *Ambystoma laterale* Hallowell, blue-spotted salamander: 1, 12, 17, 58, 61, 75, 120, 121, 141, 145, 196, 202, 225, 226, 238, 252, 253, 254, 255, 266, 277.

3. *Ambystoma maculatum* (Shaw), spotted salamander: 7, 11, 17, 28, 58, 61, 132, 145, 196, 202, 205, 216, 225, 226, 274, 277.

4. *Ambystoma opacum* (Gravenhorst), marbled salamander: 6, 11, 17, 28, 58, 61, 132, 188, 202, 205, 225, 226.

5. *Ambystoma platineum* (Cope), silvery salamander [Not recognized as a valid species in 1961 and not then known in Illinois]: 75, 89, 120, 121, 176, 266.

6. *Ambystoma talpoideum* (Holbrook), mole salamander: 1, 12, 17, 28, 54, 58, 61, 75, 89, 120, 121, 132, 205, 223, 225, 226, 266.

7. *Ambystoma texanum* (Matthes), smallmouth salamander: 5, 11, 17, 25, 28, 33, 58, 61, 94, 112, 132, 135, 168, 185, 198, 205, 221, 225, 226, 248, 251, 273.

8. *Ambystoma tigrinum* (Green) [*Ambystoma t. tigrinum*], tiger salamander: 11, 17, 21, 27, 28, 31, 35, 37, 58, 61, 82, 98, 112, 116, 130, 132, 196, 202, 205, 225, 226, 235.

## Salamandridae

9. *Notophthalmus viridescens* (Rafinesque) [*Notophthalmus v. louisianensis*], eastern newt: 11, 17, 30, 34, 37, 58, 61, 112, 132, 152, 196, 202, 205, 221, 225, 226, 266, 260.

## Plethodontidae

10. *Desmognathus fuscus* (Green) [*Desmognathus f. conanti*], dusky salamander: 1, 12, 17, 32, 33, 58, 61, 70, 75, 120, 121, 132, 180, 198, 205, 225, 226, 266, 272.

11. *Eurycea bislineata* (Green) [*Eurycea b. rivicola*], two-lined salamander: 11, 17, 58, 61, 75, 89, 118, 132, 160, 219, 225, 226, 240.

12. *Eurycea longicauda* (Green) [*Eurycea l. longicauda* and *E. l. melanopleura*], longtail salamander: 1, 11, 12, 17, 58, 61, 75, 89, 118, 122, 132, 193, 205, 221, 222, 225, 226, 236, 237, 240, 244.

13. *Eurycea lucifuga* Rafinesque, cave salamander: 11, 17, 32, 33, 58, 61, 69, 72, 75, 89,

118, 119, 132, 155, 193, 205, 221, 222, 225, 226, 237.

14. *Hemidactylium scutatum* (Schlegel), four-toed salamander: 1, 12, 17, 58, 61, 75, 91, 140, 189, 196, 202, 216, 225, 226, 234, 266.

15. *Plethodon cinereus* (Green) [*Plethodon c. cinereus*], redback salamander: 17, 58, 61, 89, 108, 111, 169, 180, 196, 202, 225, 226, 227, 245, 272.

16. *Plethodon dorsalis* Cope, zigzag salamander: 11, 12, 17, 58, 61, 69, 75, 108, 109, 110, 118, 132, 136, 151, 193, 205, 221, 222, 225, 226, 243, 244, 245.

17. *Plethodon glutinosus* (Green) [*Plethodon g. glutinosus*], slimy salamander: 11, 17, 58, 61, 69, 107, 108, 118, 132, 202, 205, 221, 222, 225, 226, 236, 240, 244.

## Proteidae

18. *Necturus maculosus* (Rafinesque) [*Necturus m. maculosus*], mudpuppy: 17, 38, 58, 61, 105, 116, 132, 157, 196, 202, 205, 225, 226.

## Sirenidae

19. *Siren intermedia* Le Conte [*Siren i. nettingi*], lesser siren: 2, 17, 39, 54, 58, 61, 64, 68, 96, 132, 150, 157, 171, 180, 188, 193, 202, 205, 221, 225, 226.

## Salientia

## Pelobatidae

20. *Scaphiopus holbrookii* (Harlan), eastern spadefoot toad: 1, 12, 17, 29, 45, 58, 61, 75, 205, 225, 226, 241, 262, 266.

## Bufonidae

21. *Bufo americanus* Holbrook [*Bufo a. americanus* and *B. a. charlesmithi*], American toad: 11, 14, 17, 21, 41, 52, 53, 58, 61, 73, 112, 118, 132, 148, 183, 196, 200, 202, 205, 213, 221, 222, 225, 226, 240.

22. *Bufo woodhousei* Girard [*Bufo w. fowleri*], Fowler's toad: 11, 17, 21, 41, 52, 58, 61, 73, 118, 130, 132, 133, 141, 188, 196, 200, 202, 205, 212, 221, 222, 225, 226, 236, 240.

## Hylidae

23. *Acris crepitans* Baird [*Acris c. blanchardi*], northern cricket frog: 11, 17, 21, 52, 58, 61, 101, 102, 103, 112, 116, 118, 132, 188, 196, 202, 205, 221, 225, 226, 240, 275.

24. *Hyla avivoca* Viosca [*Hyla a. avivoca*], bird-voiced treefrog: 1, 12, 17, 52, 58, 61, 75, 80, 89, 120, 121, 132, 205, 225, 226, 229, 266.

25. *Hyla chrysoscelis* Cope, Cope's gray treefrog

[Not recognized as a valid species in 1961 and not then known in Illinois]: 17, 44, 58, 61, 80, 104, ?112, 129, 196, ?202, ?205, 225.

26. *Hyla cinerea* (Schneider), green treefrog: 1, 12, 17, 52, 58, 61, 75, 80, 89, 95, 117, 132, 205, 225, 226, 266.

27. *Hyla crucifer* Wied [*Hyla c. crucifer*], spring peeper: 11, 17, 21, 47, 52, 58, 61, 80, 116, 118, 132, 141, 188, 196, 202, 205, 225, 226, 240, 248, 277.

28. *Hyla versicolor* Le Conte [*Hyla v. versicolor*], gray treefrog: 11, 17, 21, 44, 52, 58, 61, 80, 95, ?112, 116, 118, 129, 132, 188, 196, 199, ?202, ?205, 225, 226, 240.

29. *Pseudacris streckeri* Wright and Wright [*Pseudacris s. illinoensis*], Strecker's chorus frog: 1, 12, 14, 17, 45, 50, 51, 58, 61, 75, 89, 115, 118, 120, 121, 171, 225, 226, 228, 230, 266.

30. *Pseudacris triseriata* (Wied) [*Pseudacris t. triseriata* and *P. t. feriarum*], striped chorus frog: 11, 14, 17, 21, 50, 52, 58, 61, 82, 112, 116, 132, 141, 188, 196, 202, 205, 225, 226, 248, 275, 277.

## Ranidae

31. *Rana areolata* Baird and Girard [*Rana a. circulosa*], crawfish frog: 11, 17, 58, 61, 89, 118, 132, 188, 225, 226.

32. *Rana blairi* Mecham, Littlejohn, Oldham, Brown, and Brown, plains leopard frog [*Rana p. pipiens* X *sphenocephala*; *R. blairi* not yet described in 1961]: 13, 14, 17, 21, ?36, 42, 43, ?52, 61, ?112, 153, 173, 194, 225.

33. *Rana catesbeiana* Shaw, bullfrog: 11, 17, 21, 52, 58, 61, 89, 112, 116, 118, 132, 139, 188, 196, 202, 205, 225, 226, 240, 246, 275.

34. *Rana clamitans* Latreille [*Rana c. melanota*], green frog: 11, 17, 21, 52, 58, 61, 116, 118, 125, 126, 127, 128, 130, 132, 196, 202, 205, 225, 226, 240.

35. *Rana palustris* Le Conte, pickerel frog: 17, 21, 58, 61, 196, 202, 205, 214, 215, 225, 226, 266.

36. *Rana pipiens* Schreber [*Rana p. pipiens*], northern leopard frog: 17, ?36, 42, 43, 48, 58, 61, 116, 173, 194, 196, 202, 225, 226, 275.

37. *Rana sphenocephala* Cope [*Rana p. sphenocephala*], southern leopard frog: 11, 13, 14, 17, ?36, 42, 43, 48, ?52, 58, 61, 118, 130, 132, ?138, 173, ?188, 194, 205, 225, 226, 240.

38. *Rana sylvatica* Le Conte [*Rana s. sylvatica* and *R. s. cantabrigensis*], wood frog: 1, 11, 12, 17, 21, 58, 61, 75, 89, 149, 180, 196, 202, 205, 225, 226, 240, 266.

## Microhylidae

39. *Gastrophryne carolinensis* (Holbrook) [*Gastrophryne c. carolinensis*], eastern narrowmouth toad: 1, 12, 17, 58, 61, 75, 81, 89, 118, 120, 121, 180, 190, 225, 226, 266.

## REPTILIA

### Testudines

#### Chelydridae

40. *Chelydra serpentina* (Linnaeus) [*Chelydra s. serpentina*], snapping turtle: 11, 17, 21, 26, 51, 58, 61, 63, 88, 112, 116, 132, 166, 185, 188, 196, 202, 205, 222, 224, 226, 240, 275.

41. *Macrolemys temmincki* (Troost), alligator snapping turtle: 1, 12, 17, 21, 58, 61, 75, 88, 93, 205, 226.

#### Kinosternidae

42. *Kinosternon flavescens* (Agassiz) [*Kinosternon f. spooneri*], yellow mud turtle: 1, 12, 17, 21, 51, 58, 61, 75, 88, 89, 121, 124, 130, 165, 166, 167, 218, 226, 230, 266.

43. *Kinosternon subrubrum* (Lacépède) [*Kinosternon s. subrubrum* X *hippocrepis*], eastern mud turtle: 1, 17, 51, 58, 61, 75, 88, 123, 132, 166, 202, 224, 226.

44. *Sternotherus odoratus* (Latreille) [*Sternotherus odoratus*], stinkpot: 11, 17, 21, 58, 61, 63, 88, 106, 116, 132, 166, 168, 188, 196, 202, 205, 221, 222, 224, 226.

#### Emydidae

45. *Chrysemys picta* (Schneider) [*Chrysemys p. marginata* and *C. p. belli*], painted turtle: 9, 11, 17, 21, 51, 58, 61, 63, 86, 88, 112, 116, 118, 130, 132, 134, 159, 166, 172, 188, 196, 202, 205, 226, 250, 275.

46. *Pseudemys scripta* (Schoepff) [*Pseudemys s. elegans*], pond slider: 11, 17, 21, 58, 61, 63, 88, 90, ?106, 132, 166, 168, 188, 196, 202, 205, 222, 226, 230, 260.

47. *Pseudemys floridana* (Le Conte) X *P. concinna* (Le Conte) [*Pseudemys f. hoyi* X *P. c. hieroglyphica*], hieroglyphic slider: 1, 17, 58, 61, 75, 88, 226, 266.

48. *Clemmys guttata* (Schneider), spotted turtle: 1, 12, 17, 58, 61, 63, 75, 87, 88, 196, 202, 226, 266.

49. *Emydoidea blandingi* (Holbrook), Blanding's turtle: 17, 58, 61, 63, 75, 88, 112, 142, 166, 196, 202, 226, 230, 260, 266.

50. *Graptemys geographica* (Lesueur), map turtle: 17, 21, ?51, 58, 61, 63, 88, 116, 164, 166, 196, 202, 226.

51a. *Graptemys kohni* (Bauer), Mississippi map turtle [Not recognized as a valid species in 1961]: 17, 58, 61, 63, 88.

51b. *Graptemys pseudogeographica* (Gray), false map turtle: 17, ?51, 55, 58, 61, 63, 88, 90, 116, 118, 157, 162, 163, 166, 205, 226, 230.

52. *Terrapene carolina* (Linnaeus) [*Terrapene c. carolina*], eastern box turtle: 10, 11, 17, 21, 58, 61, 63, 84, 85, 88, 89, ?106, 118, 131, 132, ?146, 185, 188, 202, 205, 222, 226, 236, 240.

53. *Terrapene ornata* (Agassiz) [*Terrapene o.*

*ornata*], ornate box turtle: 17, 21, 49, 58, 61, 88, 89, 120, 121, 130, 170, 188, 202, 226, 261.

## Trionychidae

54. *Trionyx muticus* Lesueur [*Trionyx m. muticus*], smooth softshell turtle: 17, 58, 61, 88, 166, 226, 230, 263, 264.

55. *Trionyx spiniferus* Lesueur [*Trionyx s. spinifer*], spiny softshell turtle: 11, 17, 21, 58, 61, 63, 88, 112, 116, 132, 166, 196, 202, 205, 226, 230, 240, 263, 265.

## Sauria

### Iguanidae

56. *Sceloporus undulatus* (Latreille) [*Sceloporus u. hyacinthinus*], eastern fence lizard: 11, 17, 58, 61, 118, 132, 188, 205, 221, 226, 236, 240.

### Scincidae

57. *Eumeces fasciatus* (Linnaeus), five-lined skink: 11, 17, 49, 58, 61, 118, 132, 161, 188, 196, 202, 205, 216, 221, 222, 226, 236, 240.

58. *Eumeces laticeps* (Schneider), broadhead skink: 11, 17, 58, 61, 118, 132, 161, 185, 188, 195, 205, 226, 240.

59. *Scincella lateralis* (Say) [*Scincella laterale*], ground skink: 11, 17, 21, 40, 58, 61, 114, 118, 130, 132, 188, 205, 221, 226, 236, 237, 240.

### Anguidae

60. *Ophisaurus attenuatus* Cope [*Ophisaurus a. attenuatus*], slender glass lizard: 1, 12, 17, 58, 61, 75, 89, 112, 113, 116, 120, 121, 180, 185, 196, 202, 226, 266.

## Teiidae

61. *Cnemidophorus sexlineatus* (Linnaeus) [*Cnemidophorus s. sexlineatus*], six-lined racerunner: 14, 15, 16, 17, 21, 51, 58, 61, 89, 118, 120, 121, 130, 132, 185, 196, 202, 226, 240.

## Serpentes

### Colubridae

62. *Carphophis amoenus* (Say) [*Carphophis a. helenae* and *C. a. vermis*], worm snake: 1, 11, 17, 57, 58, 61, 118, 132, 154, 205, 222, 226, 236.

63. *Clonophis kirtlandi* (Kennicott) [*Natrix kirtlandi*], Kirtland's water snake: 17, 21, 49, 56, 58, 61, 75, 112, 114, 154, 171, 178, 185, 196, 202, 226, 230, 247, 248, 249.

64. *Coluber constrictor* Linnaeus [*Coluber c. flaviventris*], racer: 11, 17, 20, 21, 58, 61, 74, 112, 118, 132, 154, 188, 196, 202, 205, 210, 221, 222, 226, 236, 240, 271.

65. *Diadophis punctatus* (Linnaeus) [*Diadophis p. amyi*, *D. p. edwardsi*, and *D. p. stictogenys*], ringneck snake: 11, 17, 21, 58, 61, 89, 118, 132,

154, 205, 221, 222, 226.

66. *Elaphe guttata* (Linnaeus) [*Elaphe g. emoryi*], corn snake: 1, 11, 12, 17, 29, 58, 61, 75, 89, 120, 121, 171, 226, 239, 266.

67. *Elaphe obsoleta* (Say) [*Elaphe o. obsoleta* and *E. o. spiloides*], rat snake: 17, 21, 58, 61, 67, 74, 77, 100, 112, 132, 154, 182, 188, 196, 202, 205, 210, 216, 221, 222, 226, 240.

68. *Elaphe vulpina* (Baird and Girard) [*Elaphe v. vulpina*], fox snake: 17, 21, 46, 58, 61, 77, 79, 112, 154, 157, 158, 196, 202, 210, 226.

69. *Farancia abacura* (Holbrook) [*Farancia a. reinwardti*], mud snake: 17, 58, 61, 75, 89, 132, 154, 205, 224, 226, 266.

70. *Heterodon nasicus* Baird and Girard [*Heterodon n. nasicus*], western hognose snake: 1, 12, 17, 21, 51, 58, 61, 75, 89, 97, 120, 121, 154, 171, 226, 232, 266.

71. *Heterodon platyrhinos* Latreille, eastern hognose snake: 3, 17, 21, 58, 61, 67, 71, 77, 79, 116, 132, 154, 184, 188, 196, 202, 205, 220, 226, 259.

72. *Lampropeltis calligaster* (Harlan) [*Lampropeltis c. calligaster*], prairie kingsnake: 4, 11, 17, 20, 21, 24, 58, 61, 62, 112, 130, 132, 154, 158, 168, 171, 188, 205, 216, 226.

73. *Lampropeltis getulus* (Linnaeus) [*Lampropeltis g. holbrooki* and *L. g. niger*], common kingsnake: 4, 11, 17, 23, 58, 61, 71, 77, 118, 132, 154, 182, 205, 226, 240.

74. *Lampropeltis triangulum* (Lacépède) [*Lampropeltis t. triangulum* and *L. t. sypila*], milk snake: 11, 17, 21, 58, 61, 77, 79, 82, 112, 116, 132, 154, 180, 196, 202, 205, 226, 230, 267.

75. *Masticophis flagellum* (Shaw) [*Masticophis f. flagellum*], coachwhip snake: 1, 12, 17, 58, 61, 75, 89, 120, 121, 226, 266, 269, 270.

76. *Nerodia cycloption* (Duméril and Bibron) [*Natrix c. cycloption*], green water snake: 1, 12, 17, 58, 61, 75, 89, 96, 205, 226, 266.

77. *Nerodia erythrogaster* (Forster) [*Natrix e. flavigaster* and *N. e. neglecta*], plainbelly water snake: 11, 17, 58, 61, 96, 132, 154, 171, 180, 188, 201, 205, 222, 226.

78. *Nerodia fasciata* (Linnaeus) [*Natrix sipedon confluens*], southern water snake: 12, 17, 58, 60, 61, 75, 89, 226, 266.

79. *Nerodia rhombifera* (Hallowell) [*Natrix r. rhombifera*], diamondback water snake: 11, 17, 21, 58, 61, 96, 132, 154, 171, 188, 205, 224, 226.

80. *Nerodia sipedon* (Linnaeus) [*Natrix s. sipedon* and *N. s. pleuralis*], northern water snake: 11, 17, 21, 56, 58, 60, 61, 279, 96, 112, 116, 118, 132, 154, 186, 188, 196, 202, 205, 217, 221, 222, 226, 236.

81. *Ophedryx aestivus* (Linnaeus), rough green snake: 17, 58, 61, 74, 118, 132, 154, 188, 205, 226.

82. *Ophedryx vernalis* (Harlan) [*Ophedryx v. blanchardi*], smooth green snake: 17, 21, 58, 61, 92, 112, 154, 196, 202, 226, 260, 276.

83. *Pituophis melanoleucus* (Daudin) [*Pituophis m. sayi*], bullsnake: 17, 21, 58, 61, 75, 83, 89, 99, 112, 143, 144, 154, 157, 202, 226, 246.

84. *Regina grahami* Baird and Girard [*Natrix grahami*], Graham's crayfish snake: 8, 17, 58, 61, 75, 112, 154, 185, 196, 202, 226, 259, 275.

85. *Regina septemvittata* (Say) [*Natrix septemvittata*], queen snake: 17, 21, 58, 61, 66, 75, 77, 89, 116, 154, 186, 196, 202, 226.

86. *Storeria dekayi* (Holbrook) [*Storeria d. wrightorum*], brown snake: 11, 17, 21, 58, 61, 74, 77, 112, 116, 154, 175, 177, 188, 196, 202, 205, 221, 226, 242.

87. *Storeria occipitomaculata* (Storer) [*Storeria o. occipitomaculata*], redbelly snake: 11, 17, 21, 58, 61, 112, 116, 132, 154, 185, 196, 202, 205, 226.

88. *Thamnophis proximus* (Say) [*Thamnophis sauritus proximus*], western ribbon snake: 17, 21, 49, 58, 61, 112, 188, 196, 202, 205, 206, 207, 208, 226.

89. *Thamnophis radix* (Baird and Girard) [*Thamnophis r. radix*], plains garter snake: 17, 20, 21, 58, 61, 76, 82, 112, 143, 144, 154, 157, 158, 174, 179, 181, 182, 196, 202, 226, 248.

90. *Thamnophis sauritus* (Linnaeus) [*Thamnophis s. sauritus* X *proximus*], eastern ribbon snake: 17, 58, 61, 202, 206, 207, 209, 226, 266.

91. *Thamnophis sirtalis* (Linnaeus) [*Thamnophis s. sirtalis* and *T. s. semifasciata*], common garter snake: 11, 17, 18, 19, 21, 22, 58, 61, 74, 78, 82, 116, 118, 132, 182, 186, 188, 196, 202, 205, 216, 226, 230, 240, 275.

92. *Tantilla gracilis* Baird and Girard [*Tantilla g. hallowelli*], flathead snake: 1, 12, 17, 29, 58, 61, 75, 89, 120, 121, 171, 205, 226, 266.

93. *Tropidoclonion lineatum* (Hallowell) [*Tropidoclonion l. lineatum*], lined snake: 1, 12, 17, 49, 58, 61, 75, 116, 154, 226, 232, 233.

94. *Virginia valeriae* Baird and Girard [*Virginia v. elegans*], smooth earth snake: 11, 17, 21, 58, 61, 74, 118, 132, 154, 180, 187, 197, 205, 221, 222, 226, 230, 240.

## Crotalidae

95. *Agkistrodon contortrix* (Linnaeus) [*Agkistrodon contortrix mokeson*], copperhead: 11, 17, 58, 61, 74, 79, 89, 118, 132, 147, 154, 156, 204, 205, 226, 236, 237, 240.

96. *Agkistrodon piscivorus* (Lacépède) [*Agkistrodon p. leucostomus*], cottonmouth: 17, 58, 61, 74, 79, 89, 96, 120, 121, 132, 154, 204, 205, 221, 222, 226.

97. *Crotalus horridus* Linnaeus [*Crotalus h. horridus*], timber rattlesnake: 1, 12, 17, 21, 58, 59, 61, 74, 75, 79, 89, 118, 132, 154, 191, 204, 205, 226, 257, 258, 266.

98. *Sistrurus catenatus* (Rafinesque) [*Sistrurus c. catenatus*], massasauga: 12, 17, 20, 58, 61, 75, 77, 79, 112, 154, 196, 202, 203, 204, 226, 258, 266.

## Extralimital and Erroneously Recorded Taxa Cited in Post-1961 Literature

### Amphibia: Caudata: Amphiumidae.

*Amphiuma tridactylum* Cuvier, three-toed amphiuma: 211, 226.

### Reptilia: Testudines: Emydidae

*Chinemys reevesi* (Gray), Reeves' turtle: 63.

*Clemmys insculpta* (Le Conte), wood turtle: 63.  
*Malaclemys terrapin* (Schoepff), diamondback terrapin: 63.

*Pseudemys concinna* (Le Conte), river cooter: 63.

*Pseudemys floridana* (Le Conte), cooter: 63.

*Pseudemys scripta scripta* (Schoepff), yellowbelly slider: 63.

*Pseudemys s. ornata* (Gray), neotropical slider: 63.

*Terrapene carolina triunguis* (Agassiz), three-toed box turtle: 63.

### Reptilia: Sauria: Iguanidae

*Crotaphytus collaris* (Say) [*Crotaphytus c. collaris*], collared lizard: 17, 226.

### Reptilia: Sauria: Scincidae

*Eumeces anthracinus* (Baird), coal skink: 226.

*Eumeces septentrionalis* (Baird) [*Eumeces s. septentrionalis*], prairie skink: 17, 58, 61, 75, 226, 256.

### Reptilia: Serpentes: Colubridae

*Cemophora coccinea* (Blumenbach) [*Cemophora doliata*], scarlet snake: 1, 17, 58, 61, 75, 116, 205, 226, 268.

**Section of Wildlife Research**

GLEN C. SANDERSON, Ph.D., *Wildlife Specialist and Head*  
 FRANK C. BELLROSE, Sc.D., *Wildlife Specialist and Principal Scientist*  
 WILLIAM L. ANDERSON, M.S., *Wildlife Ecologist*  
 WILLIAM R. EDWARDS, Ph.D., *Wildlife Ecologist*  
 JEAN W. GARBER, Ph.D., *Ornithologist*  
 RICHARD R. GRABER, Ph.D., *Ornithologist*  
 HAROLD C. HANSON, Ph.D., *Wildlife Specialist*  
 CHARLES M. NIXON, M.S., *Wildlife Ecologist*  
 W. W. COCHRAN, JR., B.S., *Associate Wildlife Specialist*  
 STEPHEN P. HAVERA, Ph.D., *Associate Wildlife Ecologist*  
 RONALD L. WESTEMEIER, M.S., *Associate Wildlife Ecologist*  
 CHRISTOPHER D. BURNETT, Ph.D., *Assistant Wildlife Ecologist*  
 LONNIE P. HANSEN, Ph.D., *Assistant Wildlife Ecologist*  
 RONALD P. LARKIN, Ph.D., *Assistant Wildlife Ecologist*  
 RICHARD E. WARNER, Ph.D., *Assistant Wildlife Ecologist*  
 SUSANNE G. WOOD, Ph.D., *Assistant Chemist*  
 JOHN E. BUHNERKEMPE, M.S., *Assistant Supportive Scientist*  
 ROBERT D. CROMPTON, *Junior Professional Scientist*  
 RONALD E. DUZAN, *Junior Professional Scientist*  
 CYNTHIA G. JACKSON, B.A., *Junior Professional Scientist*  
 JAMES W. SEETS, *Junior Professional Scientist*  
 YU-CHU AU, M.S., *Laboratory Assistant*  
 RICHARD J. SIEMERS, M.S., *Laboratory Assistant*  
 JAMES CHELSVIG, M.S., *Field Assistant*  
 ELIZABETH A. ANDERSON, *Technical Assistant*  
 H. KATHLEEN ARCHER, B.S., *Technical Assistant*  
 VICTORIA ATCHLEY, *Technical Assistant*

PAUL BREWER, B.S., *Technical Assistant*  
 GREGORY A. PERKINS, M.A., *Technical Assistant*  
 GARY E. POTTS, B.S., *Technical Assistant*

**Supporting Services**

MELVIN E. SCHWARTZ, *Administrative Assistant and Unu Head*  
 PHYLLIS S. CLARK, *Mailing, Distribution, and Stockroom Services*  
 WILMA G. DILLMAN, *Fiscal Assistant and Property Control*  
 PATTY L. DUZAN, *Word Processing Coordinator*  
 LARRY D. GROSS, *Assistant For Operations*  
 SUE M. HALE, *Grants and Contracts Officer*  
 JAMES MCNAMARA, *Operations Assistant*  
 JOYCE REED, *Junior Technical Assistant*  
 CHRIS ROHL, *Operations Assistant*  
 JACQUE SANDERS, *Personnel Officer*  
 CHRIS WILSON, *Operations Assistant*

**Publications and Public Relations**

ROBERT M. ZEWADSKI, M.S., *Technical Editor*  
 SHIRLEY MCCLELLAN, B.S., *Associate Technical Editor*  
 EVA STEGER, B.A., *Assistant Technical Editor*  
 LLOYD LE MERE, *Technical Illustrator*  
 LESLIE WOODRUM, *Technical Photographer*

**Technical Library**

CARLA HEISTER, M.A., *Technical Librarian*  
 MONICA LUSK, *Library Technical Assistant*

**CONSULTANTS AND RESEARCH AFFILIATES:** **Aquatic Biology,** Margaret Balbach, Ph.D., *Associate Professor, Department of Agriculture, Illinois State University;* James R. Karr, Ph.D., *Professor of Ecology, Ethology and Evolution, University of Illinois;* John Tranquilli, Ph.D., *Associate Professional Scientist, Illinois Department of Conservation;* and Gregory S. Whitt, Ph.D., *Professor of Genetics and Development, University of Illinois;* **Botany and Plant Pathology,** Jean D. Schoknecht, Ph.D., *Associate Professor of Life Sciences, Indiana State University, Terre Haute;* **Systematic Entomology,** Roderick R. Irwin, *Chicago, Illinois;* **Wildlife Research,** Willard D. Klimstra, Ph.D., *Professor of Zoology and Director of Cooperative Wildlife Research, Southern Illinois University;* and Robert L. Jones, Ph.D., *Professor of Soil Mineralogy and Ecology, University of Illinois;* **Parasitology,** Norman D. Levine, Ph.D., *Professor of Veterinary Parasitology, Veterinary Research and Zoology and Director of the Center for Human Ecology, University of Illinois;* **Entomology,** Robert L. Metcalf, Ph.D., *Professor of Biology and Research Professor of Entomology, University of Illinois;* and Gilbert P. Waldbauer, Ph.D., *Professor of Entomology, University of Illinois;* **Statistics,** Horace W. Norton, Ph.D., *Professor of Statistical Design and Analysis, University of Illinois.*



## Some Publications of the ILLINOIS NATURAL HISTORY SURVEY

### BULLETIN

Volume 32, Article 2.—Primary Insect Types in the Illinois Natural History Survey Collection, Exclusive of the Collembola and Thysanoptera. Donald W. Webb. July 1980. 138 p., index.

Volume 32, Article 3.—The Genera of Nearctic Therevidae. Michael E. Irwin and Leif Lyneborg. November 1980. 85 p., index.

Volume 32, Article 4.—The Lake Sangchris Study: Case History of an Illinois Cooling Lake. R. Weldon Larimore and John A. Tranquilli, eds. August 1981. 459 p., index.

Volume 33, Article 1.—Diptera, or True Flies, of Illinois. I. Tabanidae. L. L. Pechuman, Donald W. Webb, and H. J. Teskey. April 1983. 122 p.

### BIOLOGICAL NOTES

109.—Illinois Birds: Ciconiiformes. Jean W. Graber, Richard R. Graber, and Ethelyn L. Kirk. August 1978. 80 p.

110.—Illinois Birds: Sylviidae. Jean W. Graber, Richard R. Graber, and Ethelyn L. Kirk. July 1979. 22 p.

111.—Monitoring the Seasonal Appearance and Density of the Black Cutworm with a Virgin Female Trap. Lynn Pautler, William G. Ruesink, Hans E. Hummel, and William H. Luckmann. July 1979. 7 p.

112.—The Life History of the Least Darter, *Etheostoma microperca*, in the Iroquois River, Illinois. Brooks M. Burr and Lawrence M. Page. August 1979. 16 p.

113.—The Life Histories of *Etheostoma olivaceum* and *Etheostoma striatulum*, Two Species of Darters in Central Tennessee. Lawrence M. Page. August 1980. 14 p.

114.—Identification and Descriptions of the Ultimate Instar Larvae of *Hydraecia immanis* (Hop Vine Borer) and *H. micacea* (Potato Stem Borer) (Lepidoptera: Noctuidae). George L. Godfrey. February 1981. 8 p.

115.—Illinois Pheasants: Population, Ecology, Distribution, and Abundance, 1900–1978. Richard E. Warner. August 1981. 24 p.

116.—Effects of Ingested Lead-Iron Shot on Mallards. Glen C. Sanderson, Horace W. Norton, and Sarah S. Hurley. August 1981. 16 p.

117.—The Life History of the Tennessee Snubnose Darter, *Etheostoma simoterum*, in Brush Creek, Tennessee. Lawrence M. Page and Richard L. Mayden. August 1981. 12 p.

118.—Illinois Birds: Wood Warblers. Jean W. Graber, Richard R. Graber, and Ethelyn L. Kirk. April 1983. 144 p.

### BIOLOGICAL NOTES

### CIRCULAR

49.—The Dunesland Heritage of Illinois. Herbert H. Ross. August 1963 (Reprinted May 1974). 28 p.

51.—Illinois Trees: Selection, Planting, and Care. J. Cedric Carter. March 1977 (Third printing). 123 p.

52.—Fertilizing and Watering Trees. Dan Neely and E. B. Himelick. December 1971 (Third printing). 20 p.

54.—Corn Rootworm Management in Canning Sweet Corn. W. H. Luckmann, J. T. Shaw, D. E. Kuhlman, R. Randell, and C. D. LeSar. March 1975. 10 p.

55.—Observing, Photographing, and Collecting Plants. Kenneth R. Robertson. August 1980. 62 p.

---

#### List of available publications mailed on request

---

No charge is made for publications of the ILLINOIS NATURAL HISTORY SURVEY. A single copy of most publications will be sent free to anyone requesting it until the supply becomes low. Costly publications, more than one copy of a publication, and publications in short supply are subjects for special correspondence. Such correspondence should identify the writer and explain the use to be made of the publication or publications.

Address orders and correspondence to the Chief,  
Illinois Natural History Survey  
Natural Resources Building  
607 East Peabody Drive,  
Champaign, Illinois 61820