

**Illinois Wildlife Preservation Fund Grant**  
**Final Report**  
**Project 08-L12W *Illinois Wild Mammals* and**  
***Illinois Woodland Wildflowers* Posters**

In July 2007, the Illinois Department of Natural Resources' (IDNR) Division of Education was awarded a \$6,000.00 grant from the Illinois Wildlife Preservation Fund for the purpose of producing two new posters, *Illinois Wild Mammals* and *Illinois Woodland Wildflowers*. These posters were to become a part of the *Illinois Flora, Fauna, Habitats and Culture* series of posters, supplemental educational resources that can be used at all grade levels.

Text for the posters was written by Valerie Keener of the IDNR Division of Education with support and review from Bob Bluett, IDNR Wildlife Diversity Program Manager, Glen Kruse, Chief of the IDNR Division of Natural Heritage and John Wilker, IDNR Natural Areas Program Manager. For the *Illinois Wild Mammals* poster, the one-time right to use images was purchased from: Daybreak Imagery, Alma, Illinois (3 at \$100 each); and Rob Curtis, The Early Birder, Chicago (5 at \$75 each). Other images for the poster were obtained at no charge: Michael R. Jeffords, Illinois Natural History Survey, Champaign (1); Adele Hodde, IDNR Public Services, Springfield (6); Mike Redmer, U.S. Fish and Wildlife Service, Barrington (2); Timothy Carter, Ball State University, Muncie, Indiana (2); Hal S. Korber, Pennsylvania (1); Chris Young, State Journal-Register, Springfield (1); Erwin C. Nielsen, Painet, Incorporated (1); and Jim Rathert, Missouri Department of Conservation, Jefferson City, Missouri (1). For the *Illinois Woodland Wildflowers* poster, the one-time image rights were obtained from: Daybreak Imagery, Alma, Illinois (2 at \$100 each); Rob Curtis, The Early Birder, Chicago, Illinois (4 at \$75 each); Kenneth R. Robertson, Illinois Natural History Survey, Champaign (4); Ed Porter, Ed Porter Photography, Fort Smith, Arkansas (1); Rich Stevenson, Candler, North Carolina (1); and Adele Hodde, IDNR Public Services (16). Design and layout were provided by Brian McGrady (*Illinois Wild Mammals*) and Janice Thompson (*Illinois Woodland Wildflowers*) of the Illinois Information Services Graphics Division, Central Management Services (CMS), State of Illinois. Final cost to the agency was not available at the time of this report, but similar posters have accrued design charges of \$1,500 - \$2,000 each. Following a competitive bidding process by CMS, the printing bids for 10,000 copies of each of the posters were awarded as follows: Wayne-Wagoner Printing, Edwards, Illinois, \$2,746.91 for the *Illinois Wild Mammals* poster; and Wayne-Wagoner Printing, Edwards, Illinois, \$2,729.50 for the *Illinois Woodland Wildflowers* poster. Posters were received by the IDNR in mid-April (*Mammals*) and late June (*Wildflowers*) 2007.

*Illinois Wild Mammals* and *Illinois Woodland Wildflowers* help to supplement the Illinois State Board of Education's Illinois Learning Standards in Science (12A how living things function, adapt and change; 12B how living things interact with each other and with their environment). They may also be used to support Illinois Learning Standards in English Language Arts, Social Science and Fine Arts, depending upon how the instructor utilizes the posters. The front side of the *Illinois Wild Mammals* poster depicts 23 mammal species that are found in Illinois and provides their taxonomic classification. The back of the poster contains the following sections: What are Mammals?; Species Descriptions; Conservation; and Agency Resources. *Illinois*

*Woodland Wildflowers* has photographs of 28 species, with 20 on the front and eight on the back. Sections on the back of the poster include: Conservation; Species Descriptions; Key Terms; and Agency Resources. Posters are available through the IDNR online order form at <http://www.idnrteachkids.com> and are also distributed by the IDNR Division of Education at teacher conferences, ENTICE workshops and other events statewide. Ten thousand copies of each poster were printed.

Grant funds were used to pay for the printing of the posters. Total printing cost was \$5,476.41, leaving \$523.59 to be returned to the Illinois Wildlife Preservation Fund. Contractual general revenue funds (\$1,175.00) were used to pay for the photographic rights and general IDNR funds paid the design and layout costs (invoice not yet received but approximate cost \$3,000 - \$4,000). Personnel costs were paid by the IDNR.

The IDNR Division of Education is very grateful for the support of the Illinois Wildlife Preservation Fund.



Virginia opossum *Didelphis virginiana*  
Photo © Rob Curtis, The Early Birder



red bat *Lasiurus borealis*  
Photo © Rob Curtis, The Early Birder



Rafinesque's big-eared bat *Corynorhinus rafinesquii*  
Photo © Todd Fink, Daybreak Imagery



plains pocket gopher *Geomys bursarius*  
Photo © Michael R. Jeffords



beaver *Castor canadensis*  
Photo © Rob Curtis, The Early Birder

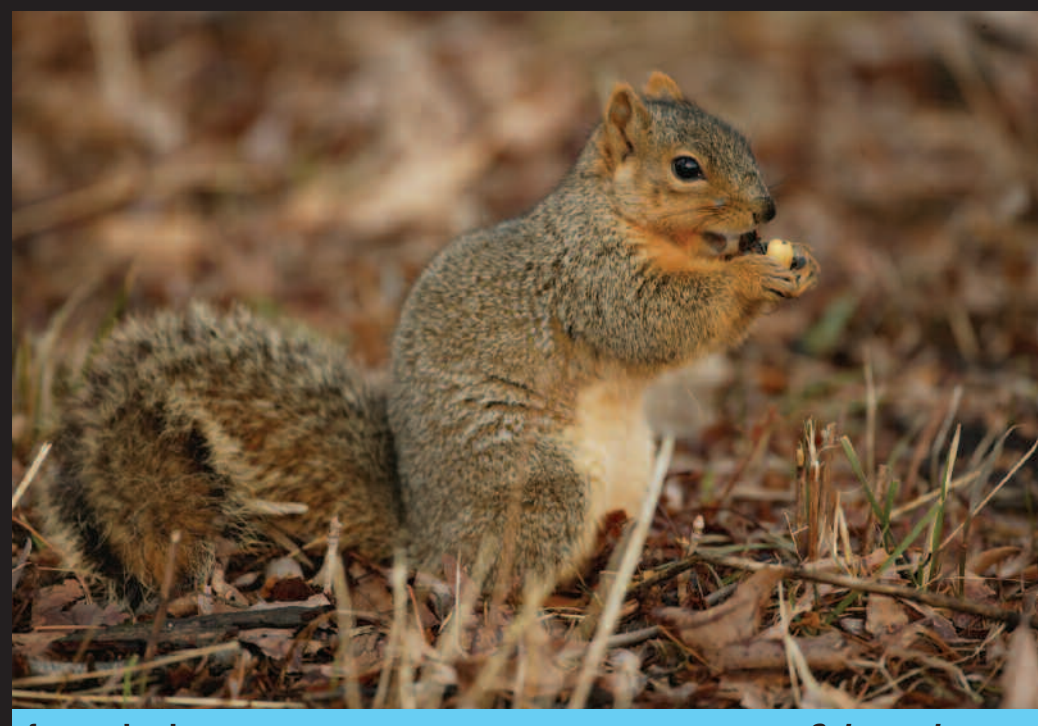


red fox *Vulpes vulpes*  
Photo © Rob Curtis, The Early Birder

# Illinois Wild Mammals



red squirrel *Tamiasciurus hudsonicus*  
Photo © Rob Curtis, The Early Birder



fox squirrel *Sciurus niger*  
Photo © Adele Hodde, IDNR Public Services



marsh rice rat *Oryzomys palustris*  
Photo © Timothy Carter



meadow vole *Microtus pennsylvanicus*  
Photo © Michael Redmer



raccoon *Procyon lotor*  
Photo © Adele Hodde, IDNR Public Services



Franklin's ground squirrel *Spermophilus franklinii*  
Photo © Chris Young, State Journal-Register



woodchuck *Marmota monax*  
Photo © Adele Hodde, IDNR Public Services



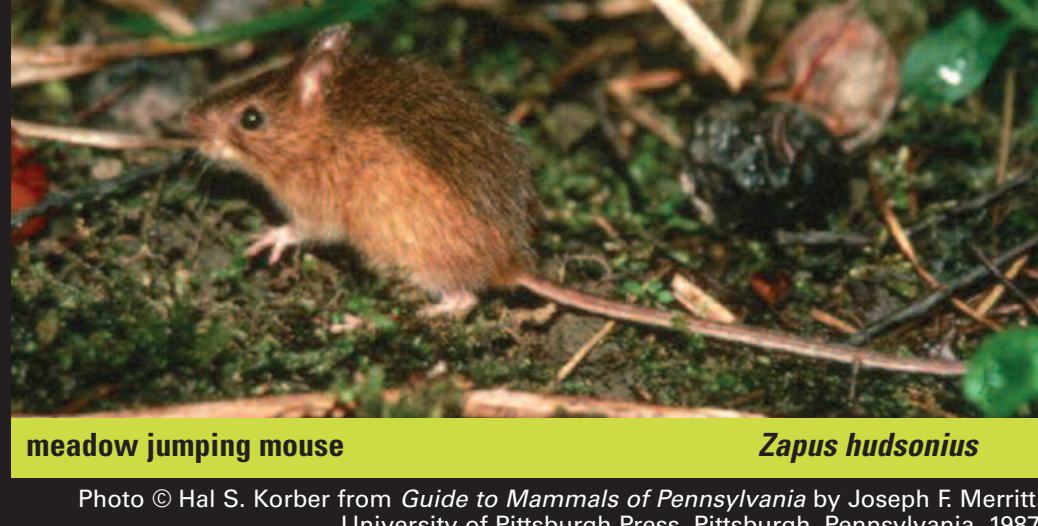
southern flying squirrel *Glaucomys volans*  
Photo © Richard Day, Daybreak Imagery



deer mouse *Peromyscus maniculatus*  
Photo © Timothy Carter



golden mouse *Ochrotomys nuttalli*  
Photo © Todd Fink, Daybreak Imagery



meadow jumping mouse *Zapus hudsonius*  
Photo © Hal S. Korber from *Guide to Mammals of Pennsylvania* by Joseph F. Merritt, University of Pittsburgh Press, Pittsburgh, Pennsylvania, 1987.



southern short-tailed shrew *Blarina carolinensis*  
Photo © Michael Redmer



eastern mole *Scalopus aquaticus*  
Photo © Missouri Department of Conservation, Jim Rathert



eastern cottontail *Sylvilagus floridanus*  
Photo © Adele Hodde, IDNR Public Services



striped skunk *Mephitis mephitis*  
Photo © Erwin C. Nielsen/Painet, Inc.



bobcat *Lynx rufus*  
Photo © Adele Hodde, IDNR Public Services



white-tailed deer *Odocoileus virginianus*  
Photo © Adele Hodde, IDNR Public Services

Large wild mammals are familiar by sight to most people. The majority of mammal species in Illinois, though, are small and usually hidden from view. They may be active at night or spend most of their life in obscured places, like under dead grasses or in the ground. Many times we know that they are present by the signs they leave behind. Tracks, scat and gnawed trees or nuts are all mammal signs. Wildlife populations are constantly changing. The area of land they inhabit expands and contracts over time. Some mammals, like the nine-banded armadillo (*Dasypus novemcinctus*), are expanding their range into southern Illinois. Others, like the white-tailed jack rabbit (*Lepus townsendii*), have disappeared from the state. These fluctuations explain why recent estimates of the number of wild mammal species in Illinois vary from 58 to 62. Bob Bluett of the Illinois Department of Natural Resources' Division of Wildlife selected the species depicted on this poster to represent the variety of mammal species found in our state.

## Species List

Kingdom Animalia Phylum Chordata Class Mammalia

Order Marsupialia	Family Didelphidae	Virginia opossum	<i>Didelphis virginiana</i>
Order Insectivora	Family Soricidae	southern short-tailed shrew	<i>Blarina carolinensis</i>
	Family Talpidae	eastern mole	<i>Scalopus aquaticus</i>
Order Chiroptera	Family Vespertilionidae	red bat	<i>Lasiurus borealis</i>
		Rafinesque's big-eared bat	<i>Corynorhinus rafinesquii</i>
Order Lagomorpha	Family Leporidae	eastern cottontail	<i>Sylvilagus floridanus</i>
Order Rodentia	Family Sciuridae	woodchuck	<i>Marmota monax</i>
		Franklin's ground squirrel	<i>Spermophilus franklinii</i>
		fox squirrel	<i>Sciurus niger</i>
		red squirrel	<i>Tamiasciurus hudsonicus</i>
	Family Geomyidae	southern flying squirrel	<i>Glaucomys volans</i>
	Family Castoridae	plains pocket gopher	<i>Geomys bursarius</i>
	Family Muridae	beaver	<i>Castor canadensis</i>
		marsh rice rat	<i>Oryzomys palustris</i>
		deer mouse	<i>Peromyscus maniculatus</i>
		golden mouse	<i>Ochrotomys nuttalli</i>
		meadow vole	<i>Microtus pennsylvanicus</i>
	Family Zapodidae	meadow jumping mouse	<i>Zapus hudsonius</i>
Order Carnivora	Family Canidae	red fox	<i>Vulpes vulpes</i>
	Family Procyonidae	raccoon	<i>Procyon lotor</i>
	Family Mustelidae	striped skunk	<i>Mephitis mephitis</i>
	Family Felidae	bobcat	<i>Lynx rufus</i>
Order Artiodactyla	Family Cervidae	white-tailed deer	<i>Odocoileus virginianus</i>

Mammals are not shown in equal proportion to actual size.

## This poster was made possible by:



Illinois Department of Natural Resources  
Division of Education  
Division of Natural Heritage  
Division of Wildlife



Illinois Wildlife Preservation Fund  
Funding for this poster was made possible  
in part by contributions to the Illinois Wildlife  
Preservation Fund.





Photo © Kenneth R. Robertson

Jacob's-ladder *Polemonium reptans*

# Illinois Wildflowers



Photo © Adele Hoadle, IDNR Public Services

columbine *Aquilegia canadensis*



Photo © Adele Hoadle, IDNR Public Services

celandine poppy *Stylophorum diphyllum*



Photo © Richard Day, Daybreak Imagery

common phlox *Phlox divaricata*



Photo © Adele Hoadle, IDNR Public Services

wild ginger *Asarum canadense*



Photo © Adele Hoadle, IDNR Public Services

bluebells *Mertensia virginica*



Photo © Ed Porter Photography

rue anemone *Anemonella thalictroides*



Photo © Rich Stevenson, newwaterfalls.com

yellow bellwort *Uvularia grandiflora*



Photo © Adele Hoadle, IDNR Public Services

showy orchis *Galearis spectabilis*



Photo © Adele Hoadle, IDNR Public Services

great waterleaf *Hydrophyllum appendiculatum*



Photo © Adele Hoadle, IDNR Public Services

toothwort *Dentaria laciniata*



Photo © Kenneth R. Robertson

squirrel corn *Dicentra canadensis*



Photo © Adele Hoadle, IDNR Public Services

spring beauty *Claytonia virginica*



Photo © Adele Hoadle, IDNR Public Services

bloodroot *Sanguinaria canadensis*



Photo © Bob Carris, The Early Buder

woolly blue violet *Viola sororia*



Photo © Adele Hoadle, IDNR Public Services

spotted touch-me-not *Impatiens capensis*



Photo © Adele Hoadle, IDNR Public Services

dwarf larkspur *Delphinium tricorne*



Photo © Adele Hoadle, IDNR Public Services

mayapple *Podophyllum peltatum*



Photo © Adele Hoadle, IDNR Public Services

purple trillium *Trillium recurvatum*



Photo © Adele Hoadle, IDNR Public Services

Dutchman's-breeches *Dicentra cucullaria*

Colorful wildflowers blooming in Illinois' woodlands are a delight to behold. Nearly every week throughout the spring and summer an observer will be rewarded with glimpses of different species in flower. The 28 species illustrated on this poster were selected by John Wilker of the Illinois Department of Natural Resources' Division of Natural Heritage to illustrate the variety of species that grow in Illinois' woodlands and to encourage you to use some of these native species in your garden.

- Species List**
- |   |   |  |
|---|---|--|
| <b>FAMILY ARACEAE – ARUM FAMILY</b><br>green dragon <i>Arisaema dracontium</i> *<br>Jack-in-the-pulpit <i>Arisaema triphyllum</i> * | <b>FAMILY FUMARIACEAE – FUMITORY FAMILY</b><br>squirrel corn <i>Dicentra canadensis</i><br>Dutchman's-breeches <i>Dicentra cucullaria</i>   | <b>FAMILY POLEMONIACEAE – PHLOX FAMILY</b><br>common phlox <i>Phlox divaricata</i><br>Jacob's-ladder <i>Polemonium reptans</i>   |
| <b>FAMILY ARISTOLOCHIACEAE – BIRTHWORT FAMILY</b><br>wild ginger <i>Asarum canadense</i>  | <b>FAMILY GERANIACEAE – GERANIUM FAMILY</b><br>wild geranium <i>Geranium maculatum</i> *  | <b>FAMILY PORTULACACEAE – PURSLANE FAMILY</b><br>spring beauty <i>Claytonia virginica</i>  |
| <b>FAMILY BALSAMINACEAE – JEWELWEED FAMILY</b><br>spotted touch-me-not <i>Impatiens capensis</i>                                    | <b>FAMILY HYDROPHYLLACEAE – WATERLEAF FAMILY</b><br>great waterleaf <i>Hydrophyllum appendiculatum</i>  | <b>FAMILY RANUNCULACEAE – BUTTERCUP FAMILY</b><br>doll's-eyes <i>Actaea pachyphloea</i> *<br>rue-anemone <i>Anemonella thalictroides</i><br>columbine <i>Aquilegia canadensis</i><br>dwarf larkspur <i>Delphinium tricorne</i><br>sharp-lobed hepatica <i>Hepatica acutiloba</i> * |
| <b>FAMILY BERBERIDACEAE – BARBERRY FAMILY</b><br>mayapple <i>Podophyllum peltatum</i>   | <b>FAMILY LILIACEAE – LILY FAMILY</b><br>white trout lily <i>Erythronium albidum</i> *<br>Solomon's-seal <i>Polygonatum commutatum</i> *<br>purple trillium <i>Trillium recurvatum</i><br>yellow bellwort <i>Uvularia grandiflora</i> | <b>FAMILY VIOLACEAE – VIOLET FAMILY</b><br>woolly blue violet <i>Viola sororia</i>   |
| <b>FAMILY BIGNONIACEAE – BIGNONIA FAMILY</b><br>trumpet creeper <i>Campsis radicans</i> *   | <b>FAMILY ORCHIDACEAE – ORCHID FAMILY</b><br>showy orchis <i>Galearis spectabilis</i>   | <b>FAMILY PAPAVERACEAE – POPPY FAMILY</b><br>bloodroot <i>Sanguinaria canadensis</i><br>celandine poppy <i>Stylophorum diphyllum</i>   |
| <b>FAMILY BORAGINACEAE – BORAGE FAMILY</b><br>bluebells <i>Mertensia virginica</i>  |   |  |
| <b>FAMILY BRASSICACEAE – MUSTARD FAMILY</b><br>toothwort <i>Dentaria laciniata</i>  |   |  |
- \* Photo found on reverse side.

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