

# *Birds of the Illinois River*

## *A Century of Change*



Jeff Walk

© bugbog.com

The Nature  
Conservancy

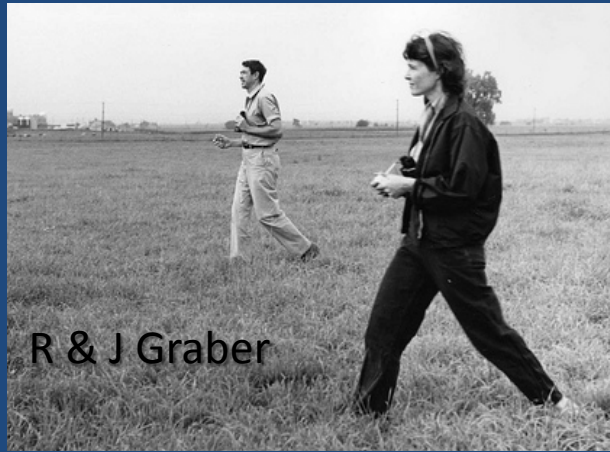


Protecting nature. Preserving life.™

AO Gross



R & J Graber



# ILLINOIS BIRDS *A Century of Change*

Jeff Walk  
Mike Ward  
T.J. Benson  
Jill Deppe  
Stacy Lischka  
Steve Bailey  
Jeff Brawn



SA Forbes



FC Bellrose

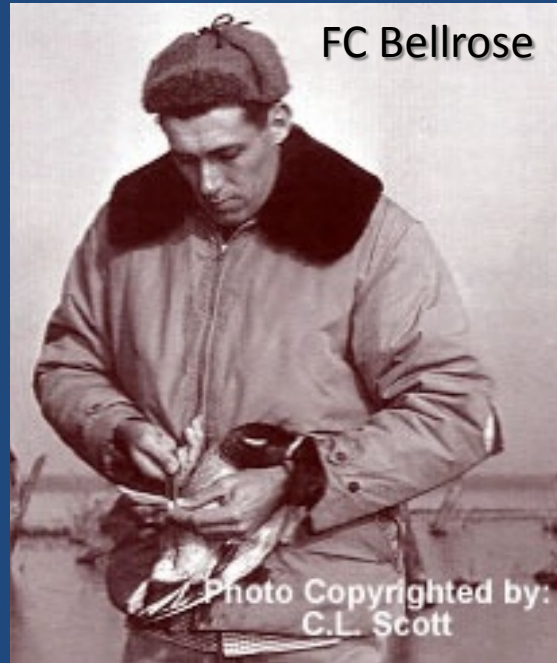


Photo Copyrighted by:  
C.L. Scott



# Bird Abundance Has *Increased*



**Four Species Represent Nearly Half of All Birds in Illinois**

**76 Species are  
“One Bird in a Thousand”  
or Rarer**





# Loss of Grassland & Intensified Agriculture

Apple River 1958



## Legend



# Loss of Grassland & Intensified Agriculture

Apple River 2007



## Legend





# Expansion of Developed Areas

Lake Villa 1954

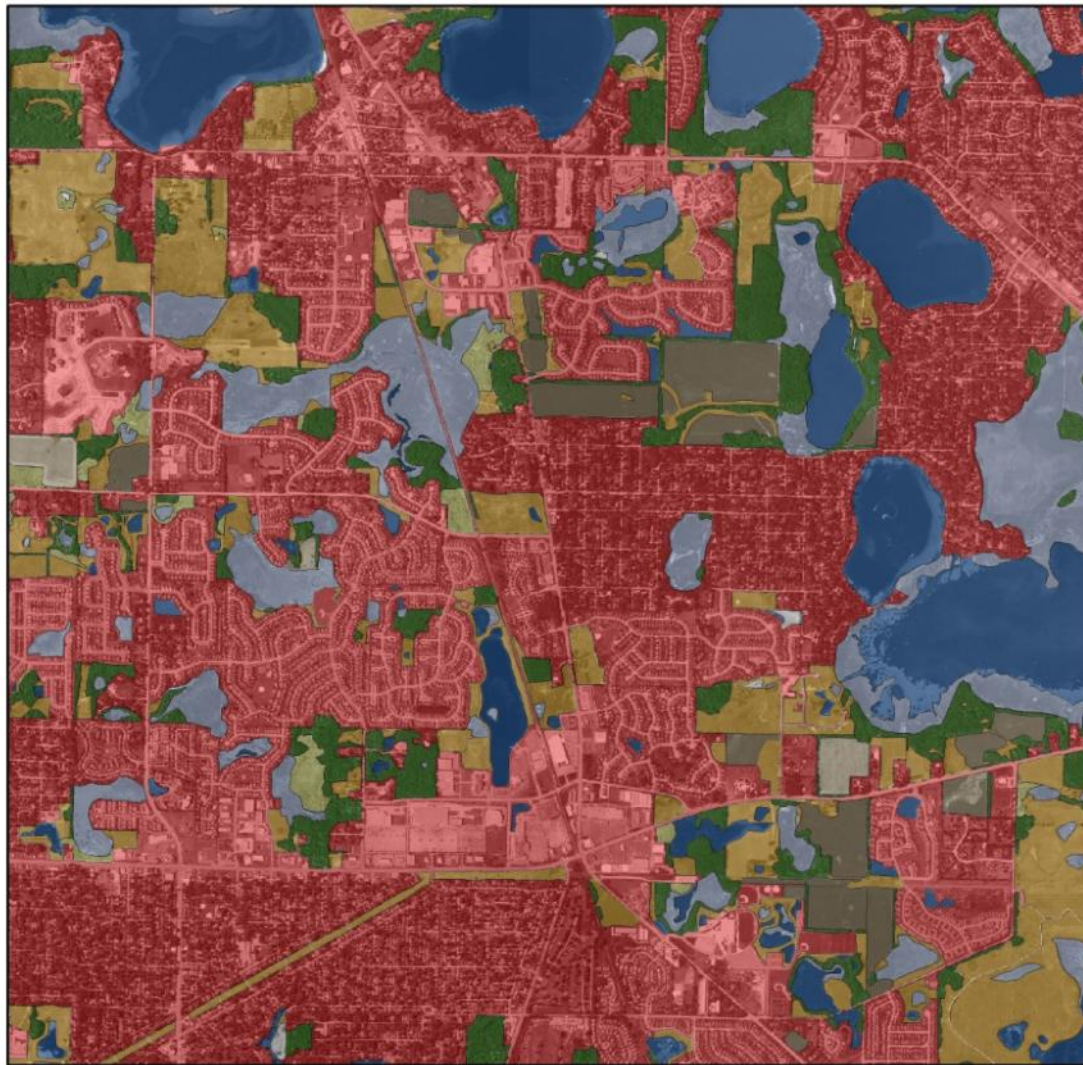


## Legend



# Expansion of Developed Areas

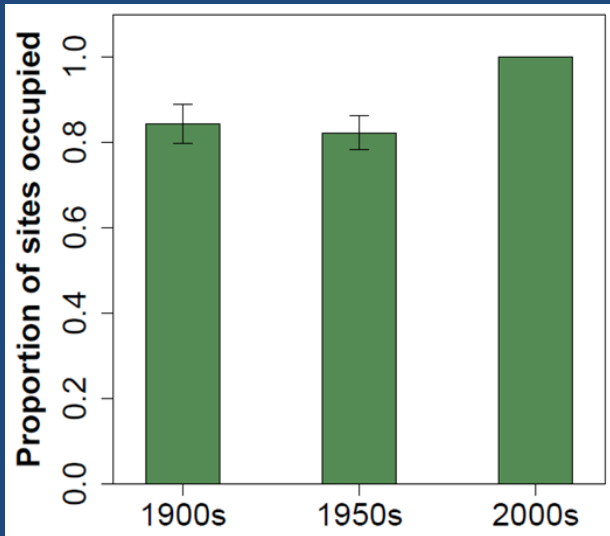
Lake Villa 2007



## Legend





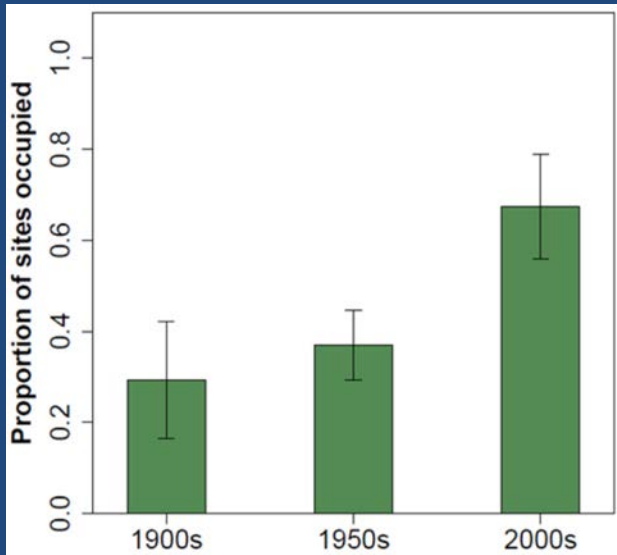


Red-winged Blackbird  
© Greg Forcey



©Robert McKemie/Daybreak Imagery

Horned Lark



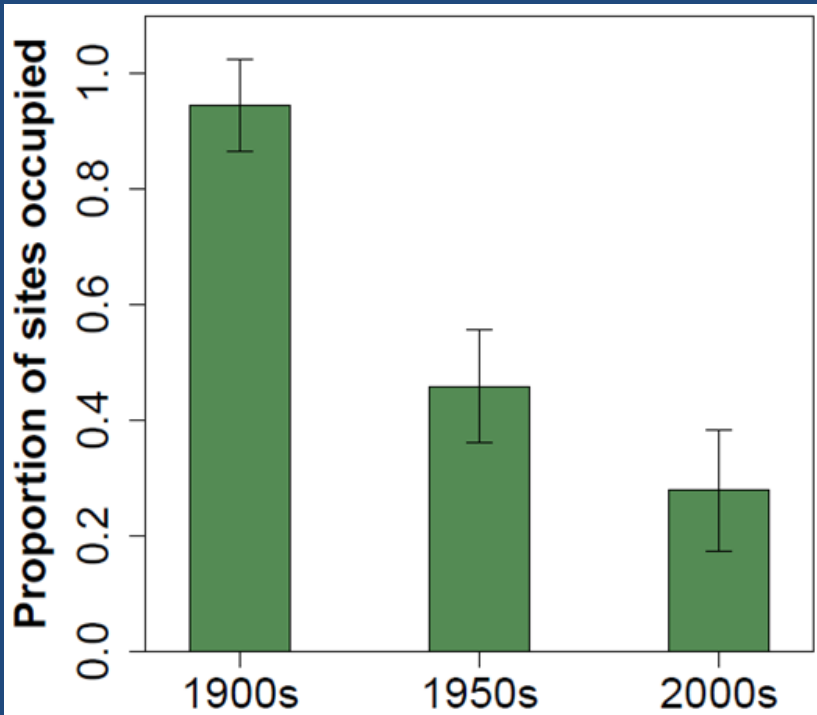
Mary Kay Rubey

Northern Cardinal



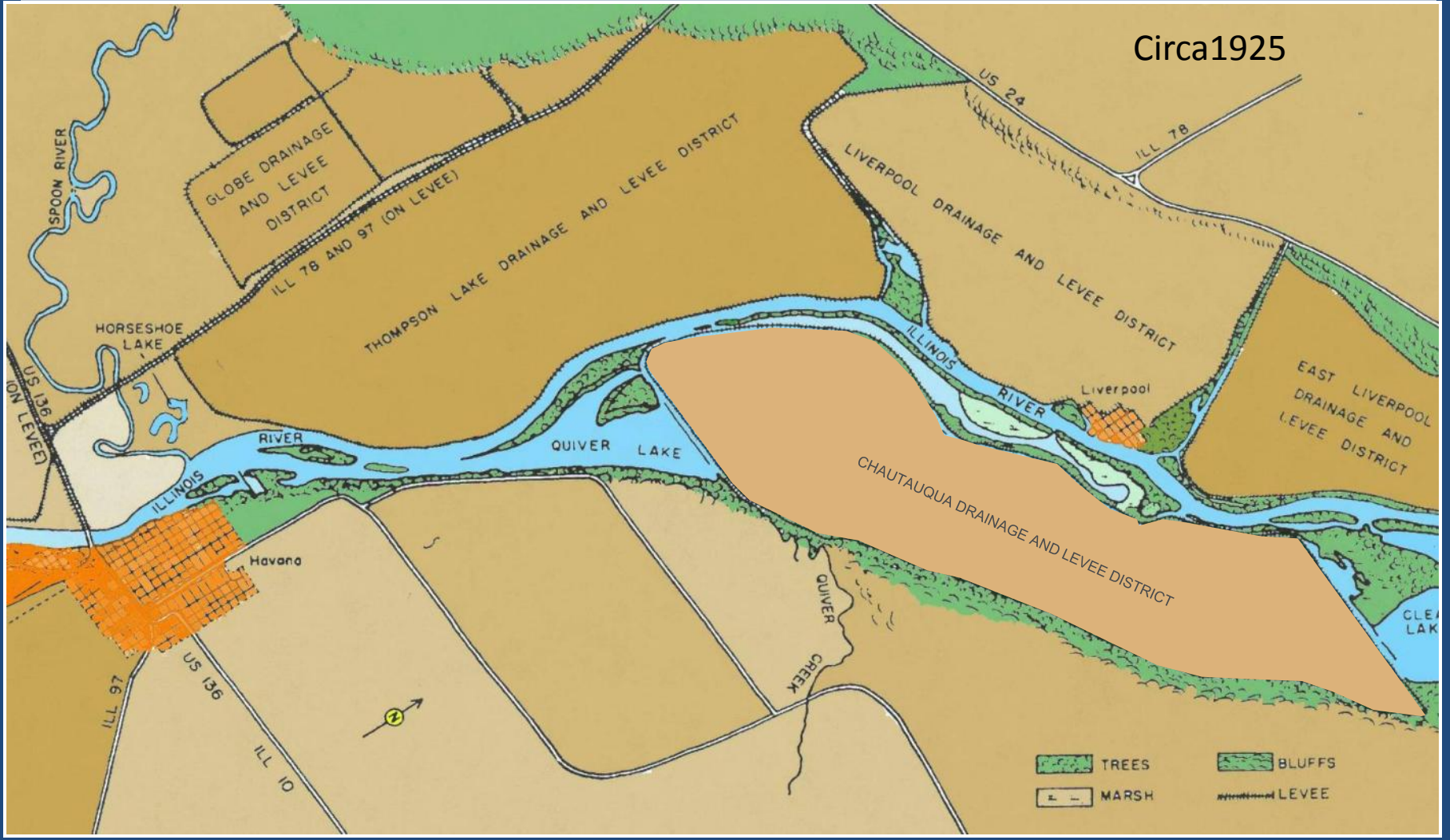
Terry Stahl

European Starling





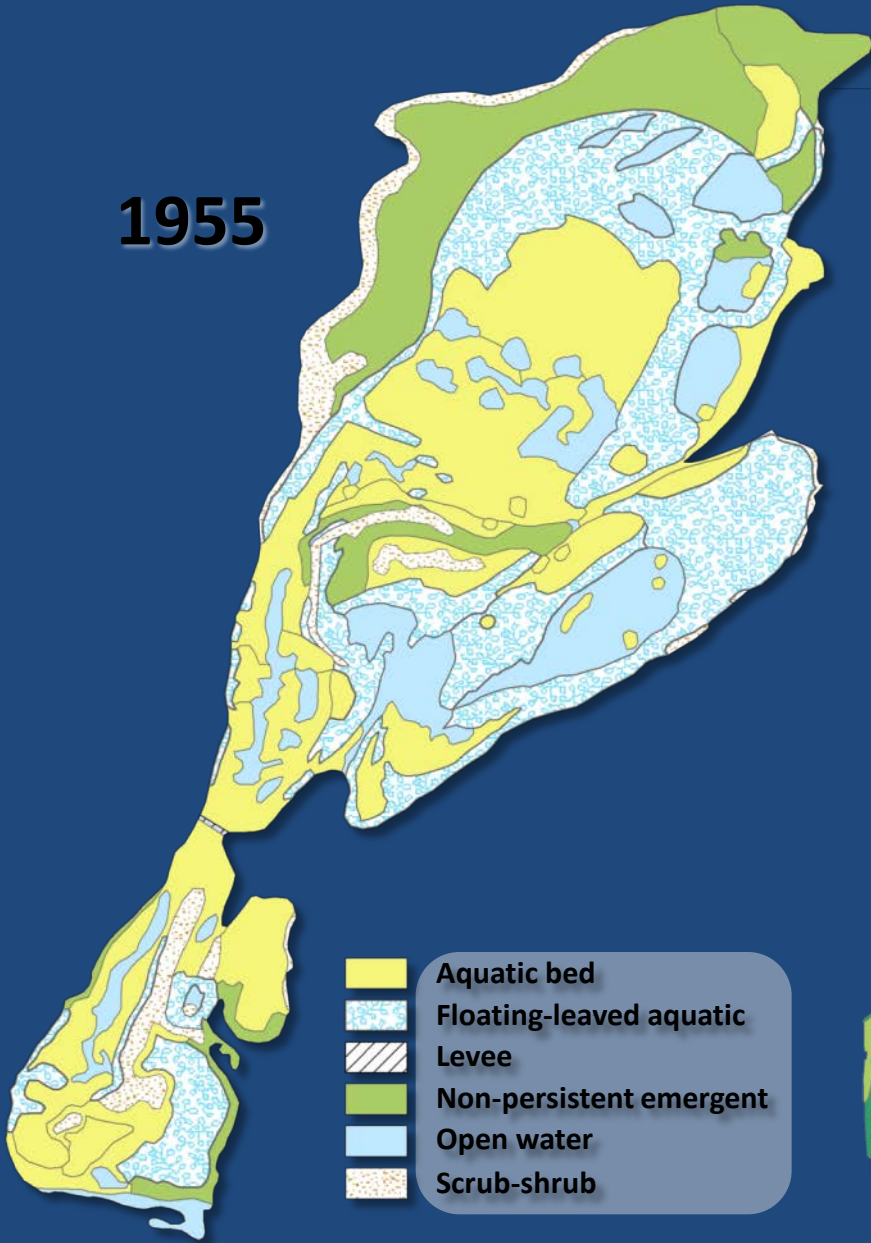
Circa 1925



Adapted from a figure by the Illinois Natural History Survey

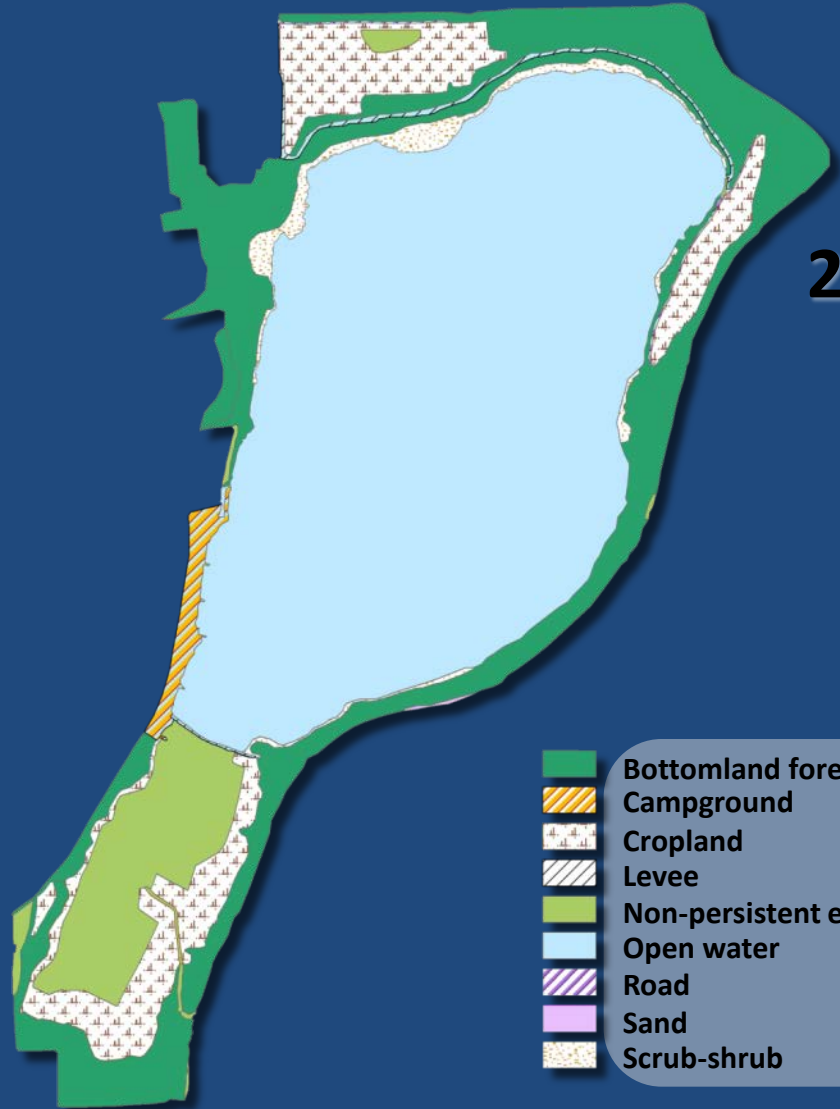
# ANDERSON LAKE

1955



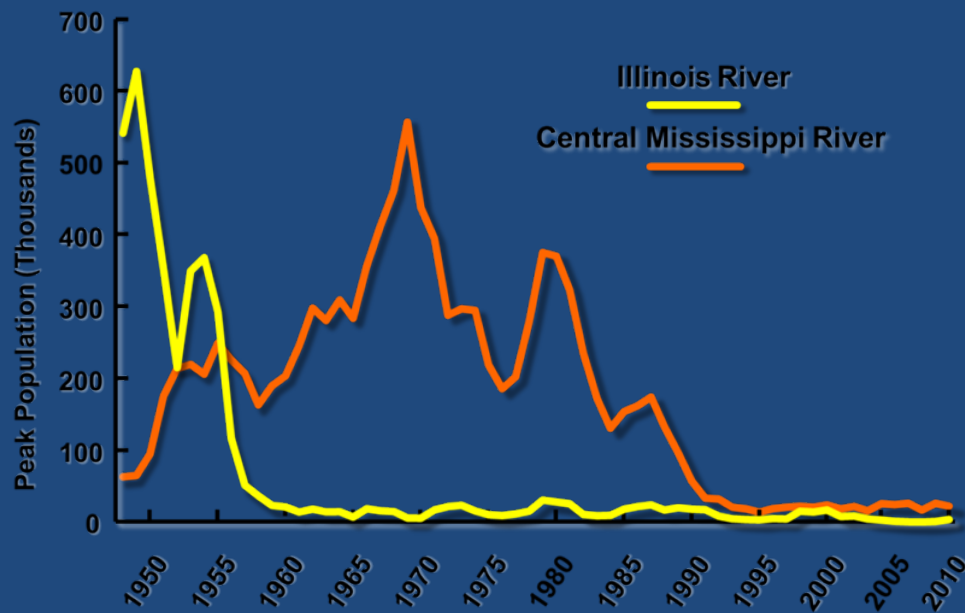
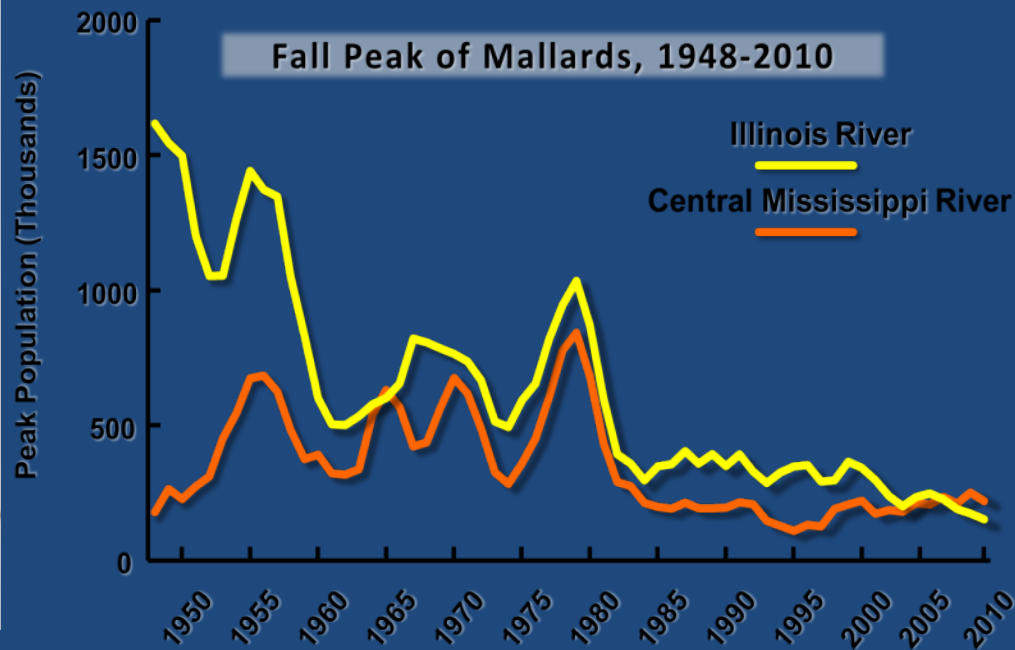
- Aquatic bed
- Floating-leaved aquatic
- Levee
- Non-persistent emergent
- Open water
- Scrub-shrub

2005



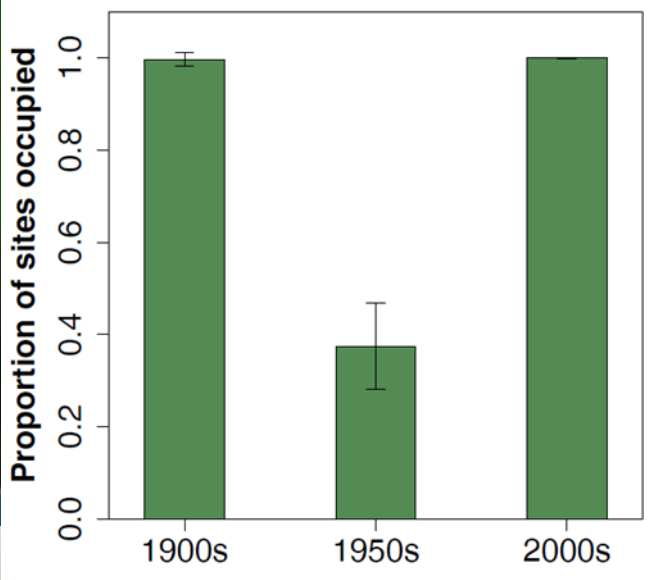
- Bottomland forest
- Campground
- Cropland
- Levee
- Non-persistent emergent
- Open water
- Road
- Sand
- Scrub-shrub







American Robin



American Kestrel



Eastern Kingbird



Mourning Dove



Eastern Bluebird



"DDT is good for me-e-e!"



The great expectations held for DDT have been realized. During 1946, exhaustive scientific tests have shown that, when properly used, DDT kills a host of destructive insect pests, and is a benefactor of all humanity.

Pennsalt produces DDT and its products in all standard forms and is now

one of the country's largest producers of this amazing insecticide. Today, everyone can enjoy added comfort, health and safety through the insect-killing powers of Pennsalt DDT products . . . and DDT is only one of Pennsalt's many chemical products which benefit industry, farm and home.



**GOOD FOR FRUITS**—Bigger apples, juicier fruits that are free from unsightly worms . . . all benefits resulting from DDT dusts and sprays.



**GOOD FOR STEERS**—Beef grows meatier nowadays . . . for it's a scientific fact that—compared to untreated cattle—feedsters gain up to 50 pounds extra when protected from horn flies and many other pests with DDT insecticides.



**KNOX FOR THE HOME**—helps **Knox Out** to make healthier, more comfortable homes . . . protects your family from dangerous insect pests. Use **Knox-Out DDT Powders and Sprays** as directed . . . then watch the bugs "bite the dust!"



**KNOX FOR DAIRIES**—Up to 20% more milk . . . more butter . . . more cheese . . . tests prove greater milk production when dairy cows are protected from the annoyance of many insects with DDT insecticides like **Knox-Out Stock and Barn Spray**.

**KILLING SALT**  
CHEMICALS

87 Years' Service to Industry • Farm • Home

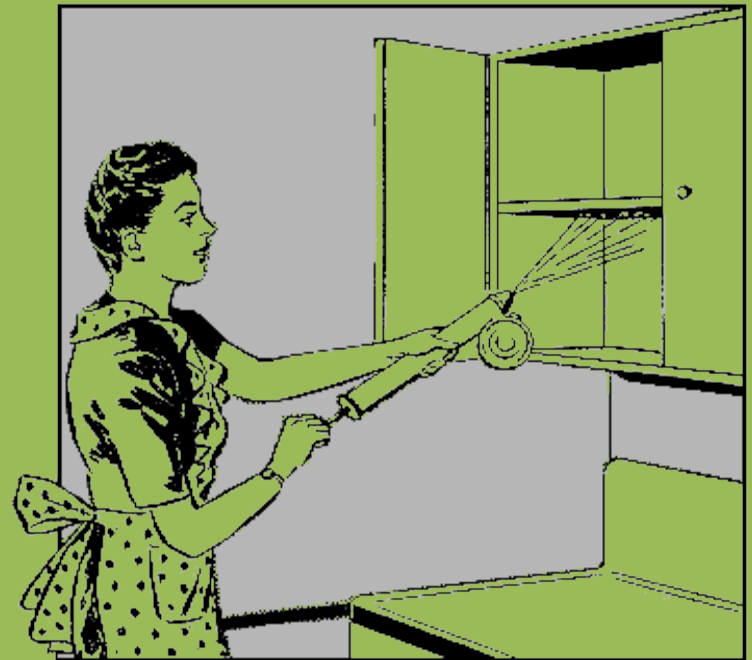


**GOOD FOR ROW CROPS**—25 more barrels of potatoes per acre . . . actual DDT tests have shown crop increases like this! DDT dusts and sprays help truck farmers pass these gains along to you.



**KNOX FOR INDUSTRY**—Food processing plants, laundries, dry cleaning plants, hotels . . . dozens of industries gain effective bug control, more pleasant work conditions with Pennsalt DDT products.

She longed for a Star Trek-type doctor with a state-of-the-art diagnostic tool. The doctor, with a few computer bleeps, would locate the exact cause of her newly discovered and doctor-baffling skin lesions and assign a painless treatment with no side effects.



**DDT** . . . FOR CONTROL  
OF HOUSEHOLD PESTS



Prepared by the  
Bureau of Entomology and Plant Quarantine  
Agricultural Research Administration  
United States Department of Agriculture, and  
the United States Public Health Service  
Federal Security Agency  
Washington, D. C. • Issued March, 1947



# BIRD MORTALITY FOLLOWING DDT SPRAY FOR DUTCH ELM DISEASE

DORIS H. WURSTER, CHARLES F. WURSTER, JR., AND WALTER N. STRICKLAND<sup>1</sup>

*Department of Biological Sciences, Dartmouth College, and Department of Pathology,  
Dartmouth Medical School, Hanover, New Hampshire 03755*

## NOTES ON SOME ECOLOGICAL EFFECTS OF DDT SPRAYED ON ELMS

*Roy J. Barker<sup>1</sup>*

Illinois State Natural History Survey, Urbana, Illinois

## EFFECT ON FOREST BIRDS OF DDT USED FOR GYPSY MOTH CONTROL IN PENNSYLVANIA<sup>1</sup>

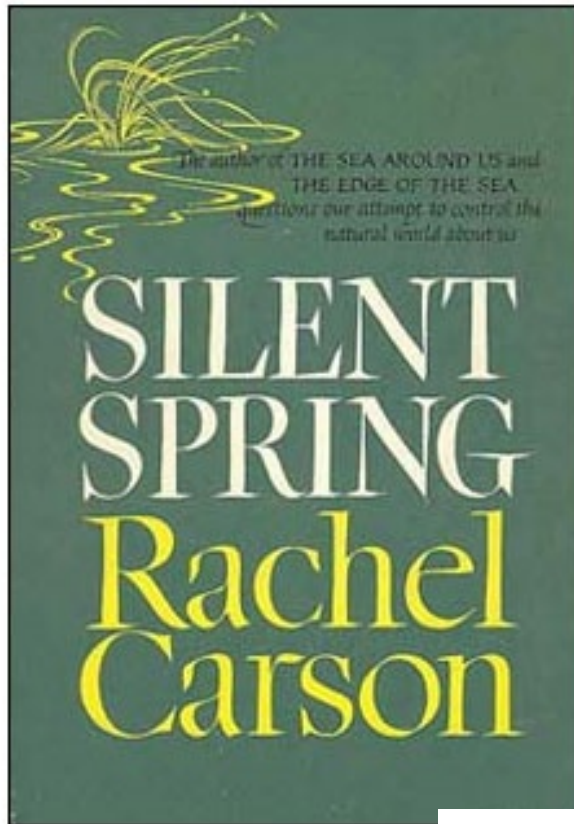
*Neil Hotchkiss and Richard H. Pough*

U. S. Fish and Wildlife Service, Patuxent Research Refuge,  
Bowie, Maryland, and  
National Association of Audubon Societies,  
New York, N. Y.

## EFFECTS OF FIVE-YEAR DDT APPLICATION ON BREEDING BIRD POPULATION

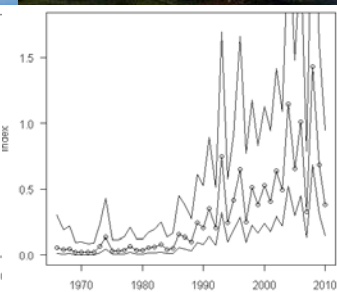
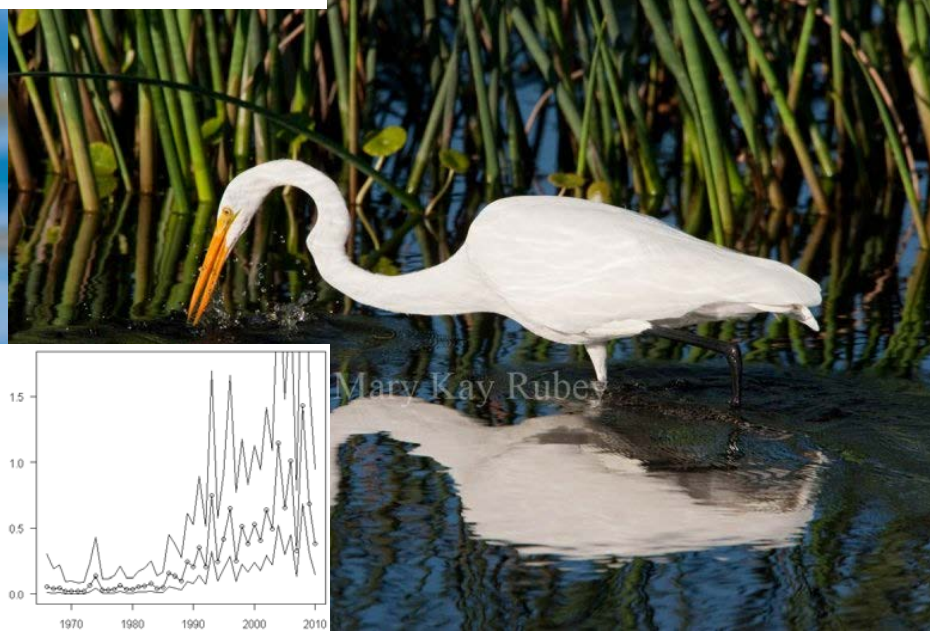
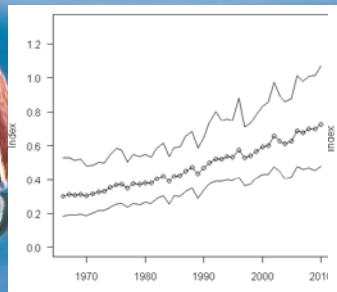
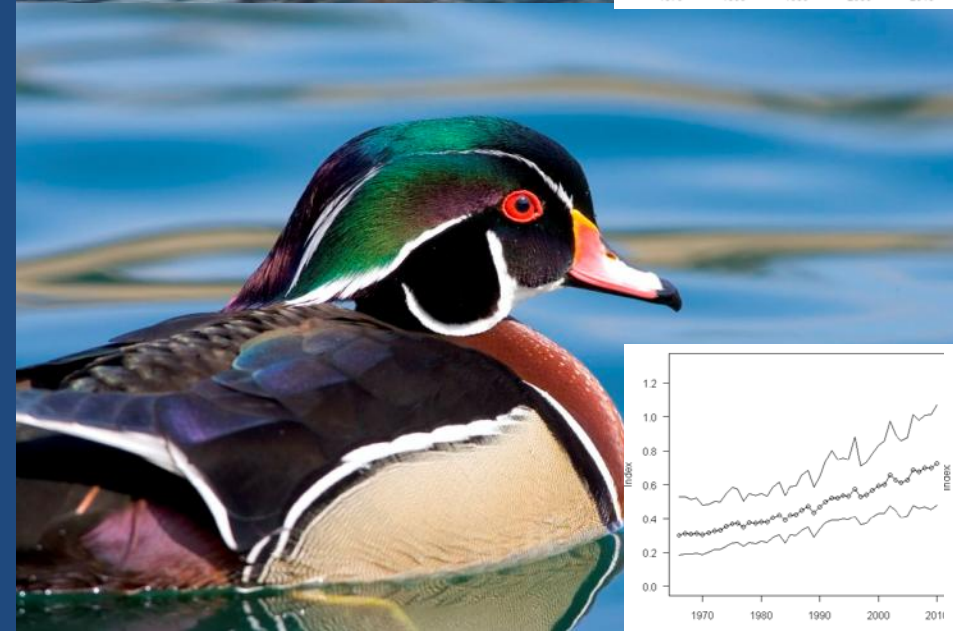
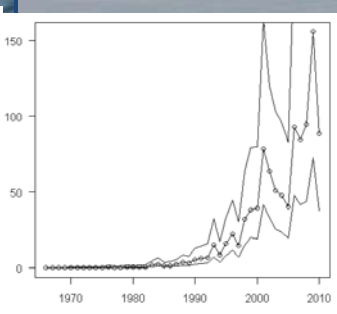
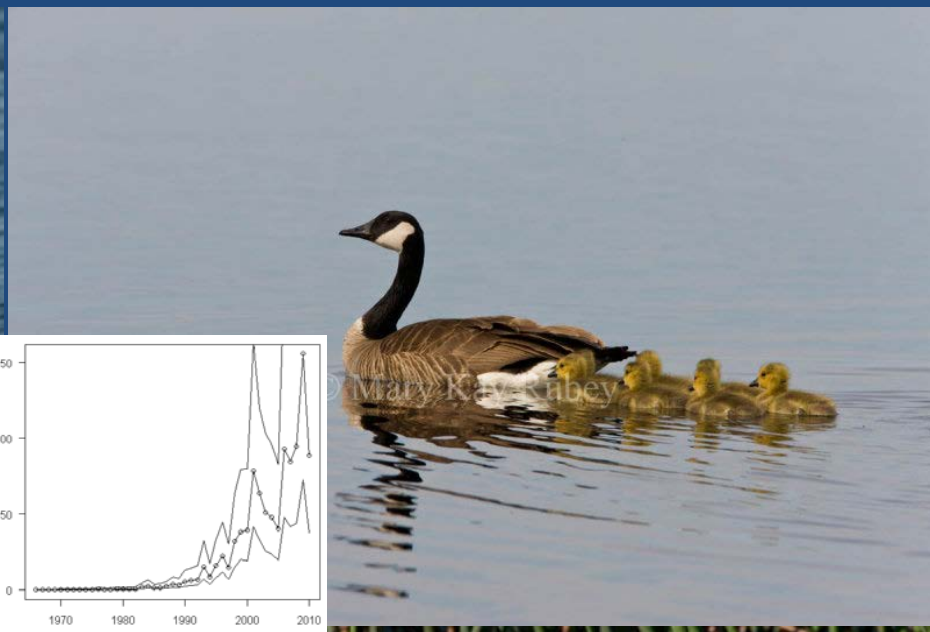
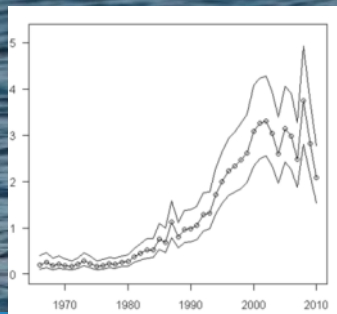
*Chandler S. Robbins, Paul F. Springer, and Clark G. Webster*

U. S. Fish and Wildlife Service, Patuxent Research Refuge, Laurel, Maryland



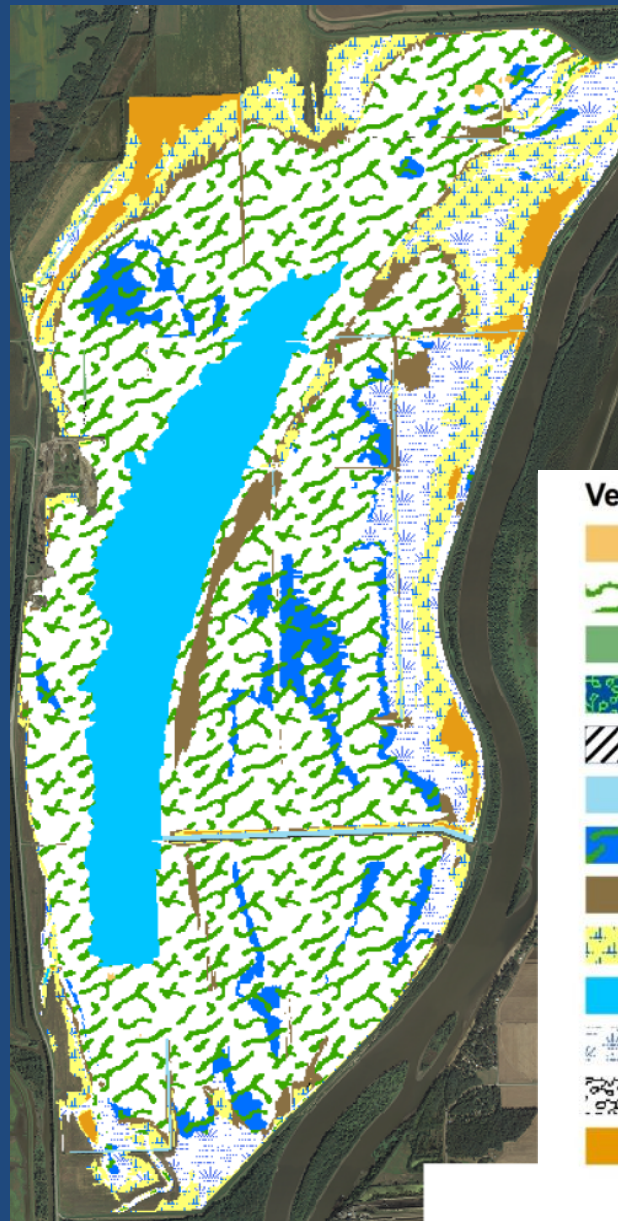






# Floodplain Restoration

## EMIQUON



### Vegetation

- American Lotus
- Aquatic Bed
- Bottomland Forest
- Brasenia
- Building Foundation
- Ditch
- Hemi-marsh
- Mudflat
- Non-persistent Emergent
- Open Water
- Persistent Emergent
- Scrub-shrub
- Upland



# Floodplain Restoration

## EMIQUON

















Bob Stratton, USFWS



Jeff Jones



Brian E Small/VIREO

# Acknowledgements

**Bellrose Waterfowl Research Center**

**Forbes Biological Station**

Chris Hine, Heath Hagy

and

**State Wildlife Grant Program**

**Project T-16-P-1 – Statewide Bird Survey**

and

**Illinois Department of Natural Resources**

**W-43-R – Aerial Inventories**

John Buhnerkempe, Illinois Dept. of Natural Resources

Richard Day, Daybreak Imagery

Jean Graber

Mary Kay Rubey