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## Professional Growth

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3. What are the natural enemies of bird life?
  4. Is the English sparrow harmful to other birds?
  5. What are the perils of migration?
- E. How may our valuable bird life be protected and conserved?
1. Reasons for bird protection.
  2. Methods of protection—by federal government, by state, by the home and in game preserves.
  3. What are the methods and devices used to attract birds about the home?
  4. Prepare feeding stations for school grounds and for the home.
  5. Make bird baths and houses for the home.
  6. Keep feeding stations supplied with food.

A large amount of supplementary material is available.

A. Visual aids.

1. A free bird chart, Church and Dwight, 27 Cedar St., New York City.
2. Set of bird posters with bulletin material on back. Price \$2.50, International Harvester Co., Agricultural Extension Dept., Chicago.
3. Bird leaflets. Five cents each, National Association of Audobon Societies, 1974 Broadway, New York City.
4. Three sets of bird slides, Extension Dept., University of Iowa, Iowa City.
5. Slides for rent, International Harvester Co., Chicago.

B. Bulletins.

1. A Plea for Our Hawks, 5 cents, American Nature Association, Washington, D. C.
2. Summer Birds of an Iowa Farm, Service Bulletin, No. 142, Extension Dept., Iowa State College, Ames.
3. Farmers Bulletin No. 506, Food of Some Well-known Birds. Farmers Bulletin No. 497, Food of Game, Aquatic and Rapacious Birds. Farmers Bulletin No. 1102, Crow in Relation to Agriculture. Farmers Bulletin No. 912, How to Attract Birds in East Central States. Farmers Bulletin No. 493, English Sparrow as a Pest. Farmers Bulletin No. 630, Some

Common Birds Useful to the Farmer.

Farmers Bulletin No. 1456, Homes for Birds.

All free, U. S. Dept. of Agriculture, Washington, D. C.

4. Bird Migration, Bulletin 185, 10 cents, Supt. of Documents, Gov't. Printing Office, Washington, D. C.
5. State Fish and Game Laws, State Game Warden, Des Moines.

C. Books.

1. Wild Bird Guests—Baynes.
2. Handbook of Birds—Chapman.
3. Handbook of Nature Study—Comstock.
4. Our Vanishing Wild Life—Hornaday.
5. The Bird Study Book—Pearson.
6. Bird Guide—Reed.
7. Birds in Their Relation to Man—Weed and Dearborn.
8. Bird Craft—Wright.

WINIFRED GILBERT

## PROFESSIONAL GROWTH

### Chemistry

An official in a small school system was discussing the requirements for a good teacher. "We prefer teachers," he said, "who will outgrow their position in our school." What greater challenge to professional growth could be offered to a teacher in service? When the routine tasks of class work and paper correcting are over, some will consider the day's work done. And so it is for the unprogressive, tread-mill type of instructor. But for such, his chosen work is merely a job and not a profession. The professionally minded teacher realizes that unremitting, systematic efforts for self improvement must never cease as long as he continues to teach.

Next in importance to the necessity for professional growth are the means available for its accomplishment. A brief study of these would be profitable. Professional reading will rank first. It may be of three types. In reverse order of importance they are, popular scientific articles, "method" articles and books, and articles in professional magazines and books which deal with subject matter.

(To be continued)

R. W. GETCHELL