

THE VISITOR

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KEEPING THE AGRICULTURAL LIBRARY UP TO DATE

The science of agriculture is a progressive one. No science is making faster strides than agriculture. Our experiment station staffs are producing a literature of information on the scientific practice of plant and animal production that is monumental in quantity and quality. This information is often written in too technical language for the average reader, especially one of secondary school age, to understand. To bring agricultural information in the most accessible form to the students, it is necessary to gather up the results of experiments and investigations into book form.

In selecting agricultural reference books, the date of the copyright is important, a reasonable assumption being that the latest book includes the most recent statistics and the most dependable information.

Many agricultural libraries are encumbered with out-of-date books, good in their day, but surely not very serviceable now. The Visitor has felt, in looking over many libraries, that he could reduce them to ashes without seriously handicapping the quality of agricultural instruction. The fact is that many libraries are dead, and instructors and students are so well aware of the fact, that they carefully avoid the disturbance of the dead.

A few good books should be added every year. To select these books is a difficult task. Every dollar should be spent for a purpose, or where it will count. Every instructor should take note of new publications, and make annotations concerning them from book reviews, or better, he should personally examine those that seem most promising.

In selecting a reference book, the following points should be considered: How far does it supplement the topics of the text-book? Does it give additional topics? Does it correct erroneous statements of text-books? Does it present the same idea in a more in-

teresting way? Does it bring the application of principles nearer to local conditions? Do the illustrations have added teaching value? Are the author's personal opinions of value?

The following is a list of agricultural books in the library of the Minnesota College of Agriculture, that have been selected by members of the college staff or the librarian for reference work of the students. Only those bearing copyright of 1917 or later are included. Books of earlier date doubtless are well known and are consequently omitted. They may be superior to the later books, if published within a comparatively recent period. Some books in the list are suitable for reference use of secondary school pupils, some may be read profitably by instructors of agriculture and advanced students, and some are adapted for general reading by those more or less directly interested in farming.

Publishers

1. American Book Company, Chicago
2. D. Appleton & Company, Chicago
3. R. C. Adams & Company, Columbus, O.
4. P. Blakiston's Son & Co., Philadelphia
5. Breeders' Gazette, Chicago
6. Bruce Publishing Co., Milwaukee
7. The Century Co., New York City
8. F. J. Drake & Co., Chicago
9. E. P. Dutton & Co., New York City
10. Funk & Wagnalls, New York City
11. L. F. Graber, Madison, Wis.
12. Ginn & Company, Chicago
13. Houghton, Mifflin Co., Chicago
14. Henry Morrison Co., Madison, Wis.
15. Frank Kleinheinz, Madison, Wis.
16. Laird & Lee, Chicago
17. Longmans, Green & Co., New York City
18. Lee & Febiger, Philadelphia
19. J. B. Lippincott Co., Philadelphia
20. Macmillan Co., Chicago
21. McGraw-Hill Co., New York City
22. David McKay, Philadelphia
23. Orange Judd Co., Chicago
24. Pearson Publishing Co., New York City
25. Rand, McNally & Co., Chicago
26. A. I. Root Co., Medina, Ohio
27. W. B. Saunders Co., Philadelphia
28. Silver, Burdett Co., Chicago
29. Chas. Scribner's Sons, Chicago
30. Webb Publishing Co., St. Paul
31. John Wiley & Sons, New York City
32. World Book Co., Chicago
33. Bobbs, Merrill Co., Indianapolis
34. B. F. Johnson Co., Richmond, Va.
35. Jackson & Daugherty, Albion, Idaho

(Continued on page 3.)

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DOES VOCATIONAL AGRICULTURE PAY?

Instructor E. N. Johnson, of Madelia, certainly has cause to feel proud of the showing made by his boys in their animal husbandry projects. He gives the following account:

"Through the coöperation of the Watonwan County Breeders' Association we placed 18 brood sows with boys last spring. They were all purebred and cost on the average \$160 each. All but three of these are now the property of the boys. Twelve of these boys are Smith-Hughes students in animal husbandry. A few instances might be mentioned.

"Clarence Hoaft raised a litter of ten pigs. He received for his summer's work one sow and seven pigs (three being taken in payment for the sow). The raising of the litter of eleven, including work, cost him less than the brood sow alone is worth. He has sold three boars for an average of \$50 and has, to start a new herd, 4 fine spring gilts and a sow. His father is now a strong believer in purebreds and declares that the premium money paid out originally for good blood is more than offset in more rapid gains of better breeding stock.

"Stanley Peterson raised a litter of ten pigs and received for his work the same quota as Clarence Hoaft. He won first in the county litter contest, third in open class of spring boars, and received a free trip to the State Fair, in addition to a silver cup from the Duroc Digest. He also received about \$35 in prize money. He sold three boars for \$120. He has breeding stock now valued at \$500.

"These are but a few instances. I know of no place where the boy who brought home a purebred sow and raised the litter did not make a favorable impression and promote the cause of better livestock, both on the home farm and in the community.

"Seven of our boys raised baby beef calves. Lee Schaleben, a boy living in town, raised the best junior calf in the county. It was sold at South St. Paul for 21¾ cents per pound. Besides winning a free trip to the junior livestock show, he cleared \$130 on his calf alone, after feeding and labor bills were deducted. This year he was given a grade calf free of charge, on condition that he would feed and care for it. But finding that it did not show the qualities of a good feeder, he returned it to the farmer, with thanks, and explained that there really was not a calf in the herd that he would care to raise for baby beef. Last week he purchased a calf with his own money for \$630, at the livestock show held at University Farm, an animal, I understand, that stood eighth in her class at the Chicago International last fall.

"Very few farmers know what their average daily gains on livestock are; but our best hog put on a pound a day from date of birth. Up to county fair time our hogs averaged 1.4 pounds daily gain.

"Our purebred hog sale last October amounted to \$3,089, representing about half of the pigs raised in this vicinity by boys under 18. Our best gilt sold for \$155; the average was \$57.50. The boys made out their own registration blanks, paid for registration and vaccination, and wrote their own pages in the catalog."

COMMUNITY WORK GROWING

"When the department was started Mr. Cooper took the view that he would not announce that he was ready to assist the farmers with their problems; his theory was that if a good job of teaching was done with the boys, the farmers would notice it and then the request for assistance would be voluntary on the part of the farmers. For the first two years scarcely any community work was done. The calls from the farmers this fall show that the 'watching and waiting' policy was a good one."—N. C. Agricultural Education Monthly.

(Continued from page 1.)

BOOKS FOR REFERENCE WORK

(Numerals in parentheses indicate the publishers.)

Sciences Applied to Agriculture

- *Babcock and Clausen's Genetics in Relation to Agriculture, 1918 (21)
- †*Cook's Applied Economic Botany, 1919 (19)
- †Conn's Agricultural Bacteriology, 3rd ed. 1918 (4)
- Emerson's Agricultural Geology, 1920 (31)
- *Harshberger's Pastoral and Agricultural Botany, 1920 (4)
- *Keith's The Chemistry of Farm Practice, 1917 (31)
- *Robbins' Botany of Crop Plants, 1917 (4)
- *Vivian's Everyday Chemistry, 1920 (1)

General Agriculture

- Benson and Betts' Agriculture and the Farming Business, 1918 (33)
- Elliff and Waters' Agricultural Laboratory Exercises and Home Projects, 1919 (12)
- *Gehr's Principles of Agriculture, 1919 (20)
- †Gehr's Productive Agriculture, 1917 (20)
- *Spillman's Farm Science, 1918 (32)
- *Upham and Schmidt's Introduction to Agriculture, 1919 ed. (2)
- †Wilson and Wilson's Elements of Farm Practice, 1919 ed. (30)

Soils

- Jackson and Daugherty's The Management of the Soil, 1918 (35)
- †*Lyon's Soils and Fertilizers, 1917 (20)
- Lyon, Fippin, and Buckman's Soils and Soil Fertility, 1918 (20)
- †*Mosier and Gustafson's Soil Physics and Management, 1917 (19)
- Russell's Soil Conditions and Plant Growth, 1917 ed. (17)
- †Weir's Productive Soils, 1920 (19)

Farm Crops

- †Carleton's Small Grains, 1918 ed. (20)
- †*Davis' Productive Plant Husbandry, 1917 (19)
- Graber's Alfalfa, 1918 (11)
- †Montgomery's Corn Crops, 1920 ed. (20)
- *Moore and Halligan's Plant Production, 1919 (11)
- †*Mosier's Soils and Crops, 1919 (25)
- *†Wilson and Warburton's Field Crops, 1919 ed. (30)

Horticulture

- Bedford's Science and Fruit Growing, 1919 (20)
- †*Boyle's Vegetable Growing, 1917 (18)
- Davis' School and Home Gardening, 1918 (19)
- Duncan's Home Vegetables and Small Fruits, 1918 (29)
- Farrington's The Backyard Garden, 1918 (16)
- Findlay's Practical Gardening, 1918 (2)
- Fletcher's Strawberry Growing, 1917 (20)
- †Gilbert's The Potato, 1917 (20)
- †*Hood's Farm Horticulture, 1919 (18)
- *Ivins' Garden Crops—Production and Preservation, 1919 (25)
- Kain's Principles and Practice of Pruning, 1917 (23)
- Newsham's The Potato Book, 1917 (24)
- †Sear's Productive Small Fruit Culture, 1920 (19)
- Thomas' Potatoes and Root Crops (10)
- Thomas' Profitable Small Fruits (10)
- Wright's Greenhouses, 1917 (23)

Animal Husbandry

- Armsby's Nutrition of Farm Animals, 1917 (20)
- †Coffey's Productive Sheep Husbandry, 1917 (19)
- Dietrich's Livestock on the Farm, 1917 (27)
- Guthrie's Book of Butter, 1918 (20)
- †*Henry and Morrison's Feeds and Feeding (14)
- †Kleinheinz's Sheep Management, 1917 (15)
- Jordan's The Feeding of Animals, 1917 (20)
- Kaupp's Essentials of Poultry Raising, 1920 (34)
- †*Lamon and Kinghorn's Practical Poultry Production, 1920 (30)

- Lamon and Slocum's Mating and Breeding of Poultry, 1920 (23)
 Larson and Putney's Dairy Cattle Feeding and Management, 1917 (31)
 Lewis' Making Money from Hens, 1919 (19)
 †Mumford's Breeding of Animals, 1917 (20)
 †Plumb's Types and Breeds of Farm Animals, 1920 ed. (12)
 Robert's Feeding and Management of Dairy Cattle, 1920 (17)
 †Smith's Pork Production, 1920 (20)
 †Stocking's Manual of Milk Products, 1917 ed. (20)
 *Torney and Lawry's Animal Husbandry, 1920 (1)
 †Van Slyke's Modern Methods of Testing Milk, 1920 ed. (23)
 †Vaughn's Types and Market Classes of Livestock, 1919 (3)
 †*Washburn's Productive Dairying, 1917 (19)

Veterinary Medicine

- Chandler's Animal Parasites (31)
 Ward's Diseases of Domesticated Birds, 1920 (20)
 White's Principles and Practice of Veterinary Medicine, 1917 (18)

Entomology

- †Crosby and Leonard's Manual of Vegetable Garden Insects, 1918 (20)
 Herrick's Insects of Economic Importance, 1920 ed. (20)
 †Root's A.B.C. and X.Y.Z of Bee Culture, 1917 ed. (26)
 *Sanderson and Pear's School Entomology, 1917 (31)
 †*Washburn's Injurious Insects and Useful Birds, 1918 (19)

Plant Pathology

- *Harshberger's Mycology and Plant Pathology, 1917 (4)
 †Hesler's Manual of Fruit Diseases, 1917 (20)
 Rankin's Manual of Tree Diseases, 1918 (20)
 †Stevens and Hall's Diseases of Economic Plants, 1919 ed. (20)

Farm Mechanics and Shop Work

- Ekblaw's Farm Concrete, 1917 (20)
 †Farm Buildings, 1919 ed. (5)
 Foote's Practical Road Building, 1917 (22)
 †*Ramsower's Equipment for the Farm and Farmstead, 1917 (12)
 †Roehl's Farm Woodwork, 1919 (6)
 Shearer's Farm Mechanics (8)
 Stephenson's Traction Farming and Traction Engineering, 1917 (8)
 *Wirt's Laboratory Manual in Farm Machinery, 1917 (31)

Rural Sociology and Economics

- †Butterfield's The Farmer and the New Day, 1919 (20)
 †Galpin's Rural Life, 1918 (7)
 †Hanifan's The Community Center, 1920 (28)
 Mead's Helping Men Own Farms, 1920 (20)
 Morman's The Place of Agriculture in the United States (9)
 Phelan's Readings in Rural Sociology, 1921 (20)
 *Sims' The Rural Community, 1920 (29)
 Taylor's Agricultural Economics, 1919 (20)
 †Vogt's Introduction to Rural Sociology, 1917 (2)

Agricultural Education

- †*Nolan's The Teaching of Agriculture, 1918 (13)
 †*Stimson's Vocational Agricultural Education, 1919 (20)

Books marked thus (*) have been received by the Division of Agricultural Education as complimentary copies for examination and review. Books marked thus (†) are suggested for consideration as early additions to the library.