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BIBLIOGRAPHY OF EDUCATION IN  
AGRICULTURE AND HOME  
ECONOMICS



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### PREFATORY NOTE.

The importance of agriculture and home economics as subjects of study in school and college, and the frequent inquiries which come to the Bureau of Education regarding pedagogical literature on these subjects, have led to the preparation of the present bibliography, which is intended to be a convenient and practical guide to current sources of information. The object in view is to present a selection of representative material touching all important educational aspects of agriculture and home economics. While most of the references are to recent publications, a few earlier titles, carefully chosen, have also been included, for historical purposes. Descriptive and critical annotations, either original or quoted from authoritative reviews, have been appended to many of the titles.

The bibliography was compiled and annotated in the library division of the Bureau of Education—the section on agriculture by Edward D. Greenman; the section on home economics by Miss Edith A. Wright; the whole under the direction of John D. Wolcott, acting librarian.

# BIBLIOGRAPHY OF EDUCATION IN AGRICULTURE AND HOME ECONOMICS

## AGRICULTURAL EDUCATION

### GENERAL

1. Agricultural education. *In* A cyclopedia of education, ed. by Paul Monroe, vol. 1. New York, The Macmillan company, 1911. p. 58-69.  
References: p. 64-69.  
Contains: 1. Land-grant colleges [by] Eugene Davenport, p. 59-62. 2. Agricultural experiment stations [by] W. H. Jordan, p. 62-64. 3. Agricultural instruction in the lower schools [by] E. P. Cubberley and L. H. Bailey, p. 64-68.
2. **Babcock, Ernest B.** Cooperation between the schools and the college of agriculture [Berkeley, Cal., 1911]. 10 p. 8<sup>o</sup>.  
Reprint from the University of California chronicle, 13: 33-42, July 1911.
3. **Bailey, Liberty Hyde.** Development of the textbook of agriculture in North America. *In* U. S. Office of experiment stations. Report, 1903. p. 689-712.  
"A historical account of the development of the textbook of agriculture in North America is given, and is followed by an annotated chronological bibliography of forty-five titles, including the first textbook (1824) and all others known to the writer at the time of publication (1903)."
4. ——— Education by means of agriculture. *In his* Cyclopedia of American agriculture, vol. 4. New York, The Macmillan company, 1909. p. 355-477.  
CONTENTS: 1. Some beginnings in education by means of agricultural subject matter, p. 356-79. — 2. Development of the textbook of agriculture in North America, p. 379-85. — 3. The rise of the state colleges of agriculture, p. 386-430. — 4. Scope and work of colleges of agriculture, p. 430-66. — 5. Education by means of agriculture in elementary and secondary realms, p. 467-77.  
A historical survey of agricultural education in North America, giving the best treatment extant of the early history of the movement. Contains a bibliography of textbooks of agriculture, chronologically arranged, p. 383-85.
5. ——— Education through agriculture. *In* Conference for education in the South, Proceedings, 1903. p. 109-23.
6. ——— Newer ideas in agricultural education. Educational review, 20: 377-82, November 1900.
7. ——— The outlook to nature. New and rev. ed. New York, The Macmillan company, 1911. xii, 195 p. 8<sup>o</sup>.  
"This book contains four lectures given in the Colonial theatre, Boston, as a part of the university course, under the auspices of the Education committee of the Twentieth century club." Lecture three discusses the "school of the future," asserting that "A man can be trained to think just as accurately by means even of agricultural subjects as by conventional subjects, provided the agricultural subjects are as well systematized and equally well taught."
8. ——— The training of farmers. New York, The Century co., 1909. 263 p. 12<sup>o</sup>.  
Contains: Part II, The school and the college in relation to farm training, p. 83-203—(a) Why do the boys leave the farm? p. 89-114. (b) Why some boys and girls take to farming, p. 115-36. (c) The common schools and farming, p. 137-72. (d) The college of agriculture and the farm youth, p. 173-94. (e) College men as farm managers, p. 195-218. (f) The college of agriculture and the state, p. 219-63.

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 Also in Association of American agricultural colleges and experiment stations. Proceedings, 1907. Washington, Government printing office, 1907. p. 49-54. (U. S. Department of agriculture. Office of experiment stations. Bulletin no. 196).  
 Also in his Government by influence and other essays. New York, London [etc.] Longmans, Green and co., 1910. p. [43]-59.  
 "Our elementary schools and high schools in country communities are still to be primarily schools of general education, but with much more of training in the arts of the farm, and the science lying near to those arts."
12. ——— Some notes on agricultural education. *In* National education association. Journal of proceedings and addresses, 1908. .pl 1199-1202.
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 "Describes rise and work of county fairs, agricultural schools, farmers' institutes and experiment stations in Ohio."
14. **Butterfield, Kenyon Leech.** An untilled field in American education. *In* his Chapters in rural progress. Chicago, University of Chicago press, 1908. p. 216-32.  
 With outline for a brief course in agricultural economics, etc. p. 226-32.
15. **Chiles, R. P.** Making good farmers out of poor ones; the work of Dr. Seaman A. Knapp. Review of reviews, 42: 563-72, November 1910.
16. **Conference on agricultural science, Amherst, Mass.** Proceedings, 1908-1910. Amherst, Mass., 1908-1910. 3 v. illus. 8°.  
 Published as a circular of the department of agriculture, Massachusetts agricultural college. These reports contain the papers and discussions presented at the meetings, and deal largely with problems of agricultural education and school gardens.
17. **Cook, O. F.** Agriculture, the basis of education. *Monist*, 17: 347-84, July 1907.  
 "The mental conditions of agriculture are just as essential to normal development of the human mind as air, food, and exercise for the development of the human body."
18. **Crosby, Dick J.** Agricultural education at the Washington meeting of the Department of superintendence of the National education association. *Nature-study review*, 4: 71-74, March 1908.
19. ——— Cooperation between the United States Department of agriculture and state school authorities in promoting agricultural education. *In* National education association. Journal of proceedings and addresses, 1908. p. 303-7.
20. ——— Progress in agricultural education, 1910. *In* U. S. Office of experiment stations. Annual report, 1910. Washington, Government printing office, 1911. p. 315-36.  
 Published annually since 1903 in the Reports of the Office of experiment stations. Each year a brief summary is given of the work in agricultural education in the United States and in foreign countries, reviewing the progress made in higher, secondary, and elementary agricultural education, with occasional articles dealing with special topics or with agencies affecting the work in this country and abroad.

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- "The work of the national government in aid of agricultural education may be outlined under two main heads: (1) The giving of funds to the different states and territories to support and encourage agricultural education and research; (2) The giving of expert assistance to educators, educational institutions, and the officials of education, by the different executive departments of the government."
22. Dabney, Charles W. Agricultural education. New York, Cincinnati, Chicago, American book company, 1910. 59 p. 8°. (Education in the United States, ed. by N. M. Butler. Monograph no. 12)
- First published in 1900.  
A brief history of the origin and development of agricultural schools in America.
23. Davenport, Eugene. Aids to agricultural advancement in the West. *In* New York (State) Department of Agriculture. Bulletin 14, 1910. p. 95a-116a.
- "The author recommends as a rational system of agricultural education: (1) Courses of collegiate grade, in which approximately one-half of the work is given to technical agriculture of the highest quality, such courses to be offered in the state college and as many other institutions of higher learning as will honestly undertake to serve agriculture in a large way; (2) courses in technical agriculture to be added to all high schools and other institutions of secondary grade that have an agricultural constituency; (3) nature study to be taught in the grades and in the country school."
24. ——— Education for efficiency; a discussion of certain phases of the problem of universal education, with special reference to academic ideals and methods. Boston, D. C. Heath & co., 1909. v, 184 p. 8°.
- Contains: Agriculture in the high schools, p. 124-35.—Agriculture in the elementary schools, p. 136-43.—Agriculture in the normal schools, p. 144-46.—The development of American agriculture—what it is and what it means, p. 147-84.
25. ——— Shall we ask for future legislation in the interest of agriculture; if so, what? *School and home education*, 31: 187-93, January, 1912.
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- The United States Department of agriculture, p. 101-9. United States Bureau of education; state legislation, p. 163-76. Agricultural colleges, including extension work, departments of agricultural education, p. 277-86. State normal schools, p. 376-87. National education association; state and other teachers associations, p. 444-52. Educational periodicals, p. 15-23. Periodical literature, p. 79-89. State organizations for agriculture and farmers' institutes, p. 136-45. Agricultural societies, p. 266-74. Boys' agricultural clubs, p. 371-80. Elementary and secondary schools, p. 469-84. Textbooks, p. 517-27.
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30. **Duggar, J. F.** The aim in teaching agriculture. In South Carolina. Winthrop normal and industrial college, Rock Hill. Rural life bulletin. p. 12-16. (Bulletin, vol. V, no. I, September 1911)
- Also in Virginia University. Conference for the study of the problems of rural life, 1910. p. 240-46.
- "The author considers the aim in agricultural teaching to be twofold—(1) To develop or educate the individual, and thereby (2) to promote the material prosperity of the community, state, and nation. The study of agriculture by the children in the schools leads to practical improvement by the parents on the farm, and increased profitableness of the farm supports improved work in the schools."
31. Farm life as the basis of practical education. Craftsman, 16: 243-45, May 1909.
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- "This is an address by W. M. Hays, assistant secretary of agriculture, before the Pennsylvania state board of agriculture, January 23, 1907, in which are discussed some of the problems of country life education and the relation of the government to this movement."
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- "The article is introduced by a general discussion of the educational situation, concluding that there should be a school system adapted to rural conditions. A scheme is presented for an articulated system of education adapted to rural needs: (1) Consolidated rural schools; (2) agricultural high school; (3) agricultural college."



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 "A brief general account of the American system of agricultural education, and includes descriptions of departments of original research and graduate study in agriculture, agricultural colleges and the various grades of instruction provided by them, secondary schools of agriculture and the work along agricultural lines in elementary schools."

78. **United States. Bureau of education.** Agricultural education. *In* Report of the Commissioner, 1910. Washington, Government printing office, 1910. p. 255-78.
- Gives a general survey of the progress of agricultural education, covering the increasing demand for education in agriculture; provision made for training teachers of agriculture for the public schools; teaching of agriculture in secondary schools; movement for securing federal aid (Davis bill); increasing scope of land-grant colleges; movements in other colleges and universities; auxiliary agencies for the advancement of agricultural education; and the status of instruction in agriculture in the common schools of certain states.
79. **United States. Office of experiment stations.** Organization, work, and publications of the agricultural education service. January 13, 1910. [Washington, Government printing office] 15 p. 8°. (Circular 93)
- An annotated list of the publications of the Office of experiment stations dealing with the educational work of agricultural colleges, schools, farmers' institutes, and other forms of educational extension work in agriculture. These lists, under various titles, have been published since 1907, and give those publications available for gratuitous distribution.
80. ———— Publications of the Department of agriculture classified for the use of teachers. Issued January 27, 1912. 36 p. 8°. (Division of publications. Circular 19)
- A list of publications of the Department of agriculture classified for the use of teachers and selected with special reference to their suitability to supplement college and school textbooks in the subjects mentioned. This has been issued with the desire to assist in a more intelligent use of government publications on agricultural subjects by classifying them with reference to the subjects usually taught in schools.
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93. ——— How can the masses be induced to adopt a better system of agriculture? *In Conference for education in the South. Proceedings, 1910.* p. 253-58.
94. ——— Improved conditions for the Southern farmer. *In Conference for education in the South. Proceedings, 1907.* p. 183-93.
95. **North Carolina. Laws, statutes, etc.** County farm life school law and explanations, by J. Y. Joyner, superintendent of public instruction of North Carolina. Raleigh, E. M. Uzzell & co., State printers, 1911. 1. p. 8°.
96. **Soule, A. M.** The work of the agricultural school in the scheme of State education. *In Southern educational association. Journal of proceedings and addresses, 1907.* p. 181-91.  
 Also in *Southern educational review, 5: 176-86, October-November 1906.*
97. **True, Alfred C.** Correlating the work of agricultural instruction. *In Southern educational association. Journal of proceedings, 1910.* p. 76-82.  
 "The function as regards teaching agriculture is discussed for elementary schools, high schools, the agricultural high school, normal schools and colleges and universities."
98. ——— The teaching of agriculture in the public schools of the South. *In Conference for education in the South. Proceedings, 1905.* p. 57-68.  
 "A sketch of general agricultural conditions, of the tendencies in education, especially on the agricultural side, statements of the way experience shows that agricultural education should be organized, and general observations urging the introduction of agriculture into the common schools."
99. **Vernon, J. J.** Agriculture—its educational value. *Florida school exponent, 17: 10-15, February 1910.*

## ELEMENTARY SCHOOLS.

100. **Babcock, Ernest H.** Elementary school agriculture. *Sierra educational news*, 7: 38-44, October 1911.
101. **Bailey, Liberty Hyde.** The common schools and the farm youth. *Century magazine*, 74: 960-67. October 1907.  
"A discussion of what the farm school can do for the farm youth in the way of teaching them how to live. This will come about largely through the teaching of nature-study and elementary agriculture."
102. **Bishop, Edward C.** Present status of agricultural education in the public schools. [Chicago] Printed at the University of Chicago press [1909] p. 976-83. 8°.  
Reprinted from Proceedings of National education association, 1909.
103. **Bricker, Garland A.** Agriculture in the public schools. [New York, 1911] p. 395-403. 8°.  
Reprinted from the Educational review. New York, April 1911.  
The author discusses the problem of agriculture in the public schools as a solution of the problem of intensive agriculture and as a preparation for training young men in the business of farming.
104. ——— Problems in the experimental pedagogy of elementary agriculture. *Journal of educational psychology*, 3: 29-34, January 1912.  
A discussion of what agriculture should be taught in the elementary schools and how it should be taught.
105. ——— Some pedagogical problems involved in the teaching of elementary agriculture. *Ohio educational monthly*, 60: 598-601, November 1911
106. **Bunger, Charles S.** Agriculture in elementary schools. *Nature-study review*, 5: 189-92, October 1909.
107. **Carter, Joseph.** The practical value of teaching agriculture in the public schools. *Kindergarten magazine*, 15: 31-37, September 1902.  
Also in National education association. *Journal of proceedings and addresses*, 1902. p. 431-36.
108. **Conference on agricultural science, Amherst, Mass.** Public school agriculture, 1909; report of committee appointed at the Conference on agricultural science at Amherst, Mass., 1908. [Amherst, Mass., 1909] 32 p. 8°.  
"Books for study and reference": p. 32.
109. **Crosby, Dick J.** A few good books and bulletins on nature study, school gardening, and elementary agriculture for common schools. [Washington, Government printing office, 1905] 4 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 52)  
"An abridged list of books suitable for teachers beginning nature study work, for teachers' and pupils' supplementary reading, for instruction in elementary agriculture, and for reference purposes."
110. **Elliff, Joseph Doliver.** A unit in agriculture; suggestions concerning the course of study, methods of teaching, equipment of laboratories and libraries, for teaching agriculture in the accredited schools . . . [Columbia, Mo.] The University of Missouri, 1910. 65 p. 8°.
111. **Ellis, A. Caswell.** The teaching of agriculture in the public schools. Austin, Tex., The University of Texas, 1906. 56 p. 8°. (Bulletin of the University of Texas. No. 85)  
"Bibliography": p. 52-56.
112. **Field, Jennie.** The corn lady; the story of a country teacher's work. Chicago, A. Flanagan company, 1911. 107 p. illus. 12°.  
"A series of letters, each a record of practical experience, on country-school and country-life improvement, from a 'Country teacher.'"

113. **French, W. H.** A course in agriculture for the public schools of Michigan. Michigan agricultural college, Department of agricultural education, 1908. 36 p. 8°.
114. **Hart, William R.** Elementary agriculture as a subject of study in the grades. In Annual conference on agricultural science, Amherst, Mass. Proceedings, 1909. p. 14-23.  
"The author bases the educational value of elementary school agriculture on the demand which it necessarily creates for knowledge of facts and principles from the special sciences, mathematics, and other subjects of study."
115. **Hays, Willet Martin.** Agriculture, industries, and home economics in our public schools. In National education association. Department of superintendence. Proceedings, 1908. p. 65-78.  
Discussion, p. 79-82.
116. **Johnson, Riley O.** Agriculture for elementary schools. In National education association. Journal of proceedings and addresses, 1909. p. 987-92.
117. ———. One hundred experiments in elementary agriculture for California schools. [San Francisco, Press of Calkins publishing house, 1908] 41 p. 8°.  
"Books recommended": p. 40-41.
118. **Macfeat, Minnie.** Elementary agriculture and school gardening at Winthrop. Rock Hill, S. C., The Record press, 1910. 40 p. 8°. (Winthrop normal and industrial college of South Carolina. Bulletin, v. 3, no. 4, April 1910)  
A bulletin designed to assist the teachers of South Carolina by "setting before them as simply and clearly as possible the methods in school gardening which have been successfully worked out at Winthrop."
119. **Massachusetts. Board of education.** Agriculture projects for elementary schools. Boston, Wright and Potter printing co., 1911. 53 p. illus. 8°.  
(Bulletin, 1911, no. 1)  
"This manual is prepared as a guide to teachers and superintendents in the introduction of work in agriculture in elementary schools. Full directions are given for conducting fourteen projects in farming."
120. **National education association. Department of rural and agricultural education.** Committee on courses of study in agriculture. Report. In National education association. Journal of proceedings and addresses, 1911. p. 1138-52.  
"This report is concerned only with the courses in agriculture offered in the courses of study in the general public schools and is more a representation of some of the governing influences in the arrangement of study in agriculture than of specific courses of study. Discusses the place of agriculture in the elementary schools, in the one-teacher rural school, and in secondary schools, giving topical outlines and representative courses for these schools."
121. **New York (State) Education department.** The course in nature-study, and agriculture for elementary schools, 1909-10. [Albany, N. Y., 1909] 4 p. 8°.
122. **Parks, M. M.** Agriculture in the public schools. In Georgia. Department of education. Annual report, 1904. p. 153-67.
123. **Roy, V. L.** Progress in agricultural education in the public schools of Louisiana. Louisiana school review, 18: 356-63, April 1911.
124. **Stevens, F. L.** Agriculture in the elementary school. In Conference for education in the South. Proceedings, 1910. p. 219-24.  
"The author lays emphasis on the following general propositions: 1. The ordinary elementary teacher can teach as large a percentage of the teachable facts of agriculture as she can of history, geography, or English. 2. A textbook should be used as the basis, supplemented with available illustrative material. 3. Teachers of the subject should receive special instruction in summer schools and institutes. 4. The teaching of agriculture should be required by school authorities. 5. An itinerant supervisor should be employed to assist the efforts of the local teacher."

125. **Stickney, Alpheus B.** Shall theoretical and practical agriculture and the physical development of childhood be added to the curriculum of the city public schools? A paper read at a meeting of the American association for the advancement of science held in Minneapolis, Minnesota, December 28, 1910. St. Paul, McGill-Warner co., 1910. 15 p. 8°.  
Reviews changes in industrial conditions and recommends industrial and agricultural courses for city schools.
126. **Storm, Ashley V.** Public school agriculture. Iowa yearbook of agriculture, 1908. p. 84-90.  
Shows the need of agriculture in the public schools and means of improving agriculture, home life, and the schools.
127. **Sweet, John.** Concerning some common-sense ways of interesting school children in nature studies relating to agriculture, horticulture, viticulture and farm life. Western journal of education, 11: 399-410, March 1906.
128. **Texas. Department of education.** Course of study for the public free schools of the state of Texas. Some work in agriculture suggested. Houston, Tex., State printing company [1906?]. 83p. 8°.
129. **True, Alfred C.** Agriculture in the public schools. In Pennsylvania State educational association. Directors' department. Proceedings, 1907. p. 16-25.
130. ——— Introduction of elementary agriculture into schools. In United States Department of agriculture. Yearbook, 1906. p. 151-64.  
"An account is given of the growth of interest in the teaching of elementary agriculture in public schools as indicated by the attitude of men of prominence, farmers' organizations, school officers and teachers, and by recent legislation. Progress in the formulation of courses in elementary agriculture, the preparation of textbooks and manuals, the development of training courses for teachers, the organization of agricultural schools, and the number of pupils studying agriculture, is reviewed and some suggestions are made concerning ways in which the farmer may help the schools."

## RURAL SCHOOLS

131. **Association of American agricultural colleges and experiment stations. Committee on methods of teaching agriculture.** The teaching of agriculture in the rural common schools. Washington, Government printing office, 1904. 20 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 60)  
"This report discusses the development of industrial training in the common schools, the movement to introduce agriculture into the rural schools, obstacles to this movement, and the object of teaching agriculture, and outlines work in nature study and elementary agriculture suitable for the common schools."
132. **Bishop, Edward C.** Agriculture in the rural schools. In Missouri. First district state normal school, Kirksville. Rural life conference, 1911. p. 14-19. (Bulletin, v. XI, no. 2, September 1911)
133. **Bigelow, M. A.** Nature study and agriculture in rural schools. In Annual conference on agricultural science, Amherst, Mass. Proceedings, 1909. p. 5-13.  
"The writer sees no conflict between nature study and school agriculture, but doubts the advisability of substituting the latter for the former in the seventh and eighth grades."
134. **Bricker, Garland A.** Suggestive outline for one year course in secondary agriculture for rural and village high schools. Education, 32: 75-76, October, 1911.
135. **Bull, Coates P.** Rural school agriculture. St. Anthony Park, Minn. [Minnesota, experiment station] 1907. 116 p. 8°. (Minnesota. University. Department of agriculture. Bulletin no. 2)  
Exercises prepared for the use of teachers in the rural schools of Minnesota.



136. **Chisholm, Nellie B.** Agriculture in the rural school. *In Michigan Farmers' institutes.* Bulletin 14. 1908. p. 283-86.  
 "The author emphasizes the demands of the new education as a preparation for life, and points out ways in which the teaching of agriculture helps to meet these demands."
137. **Crosby, Dick J.** The most useful school in the country. *In Pennsylvania, Department of agriculture.* Annual report, 1909. p. 257-63.  
 "Two small country schools are described in considerable detail as illustrating the possibilities of a rural school: one at Calvert Center, Md., and the other at Waterford, Pa."
138. ——— The relation of nature study and agriculture in elementary rural schools. *Nature-study review*, 5: 93-98, April 1909.
139. ——— The use of illustrative material in teaching agriculture in rural schools. *In U. S. Department of agriculture.* Yearbook, 1905. p. 257-74.  
 "In this article the author discusses the value of agriculture in rural schools, describes methods employed in teaching this subject in a consolidated school in Tennessee, in a village high school in Pennsylvania, and in a county high school in Kansas, describes eight exercises which can be performed with simple and inexpensive apparatus, and discusses agriculture as an aid to other school work."
140. **Davis, Benjamin M.** What constitutes successful work in agriculture in rural schools? *In National education association.* Journal of proceedings and addresses, 1908. p. 1188-94.  
 "This discussion is based on a study of replies to a questionnaire addressed to teachers and others interested in agricultural education."
141. **Foght, Harold Waldstein.** The American rural school; its characteristics, its future, and its problems. New York, The Macmillan company, 1910. 361 p. 12°.  
 Contains: Nature study and school grounds, p. 154-78. School gardens, p. 179-204. Elementary agriculture and industrial clubs, p. 205-35.  
 "Intended for rural school teachers, superintendents, and school board members; for teachers' reading circles, normal school training classes, and all the public at large who are interested in the profound movement to make our American rural life richer and in its labor more effective by means of schools adapted to the changing needs of rural society and the demands of modern life."—Prof.
142. **Harvey, Lorenzo D.** Instruction in agriculture and domestic science in rural communities in Wisconsin. *In Wisconsin.* Department of education. Bulletin of information no. 5. Madison, Democrat printing company, 1900. p. [3]-22
143. **Hochbaum, H. W.** Bulletin of agriculture and nature study for rural schools. [Greeley] State normal school, 1910. 44 p. 12°. (State normal school of Colorado. Bulletin. Ser. X, no. 5)  
 Bibliography: p. 44.  
 "This bulletin is devoted to rural school improvement and discusses . . . the aims in teaching nature study and agriculture and the training of rural school teachers."
144. ——— Why we should teach agriculture in the rural schools. *Colorado school journal*, 27: 19-21, December 1911.
145. **Illinois. Conference on the teaching of agriculture in the public schools. Committee on course of study . . . Appointed, 1910.** Report made to the Second conference, held January 18-21, 1911, Urbana, Ill. Suggested course of study in nature-study agriculture for the one-room rural schools of Illinois. *School news*, 24: 445-52, June 1911.
146. **Ivins, Lester S.** A plea for agricultural instruction in the rural schools. *Ohio teacher*, 29: 339-42, March 1909.

147. **Kern, Oly Jasper.** Among country schools. Boston, New York [etc.] Ginn & co. [1906.] 366 p. 12°.  
 Contains: School gardens, p. 56-64. A farmers' boys' experiment club, p. 129-57. Educational excursions to the college of agriculture, p. 158-74. The country school and the farmers' institute, p. 175-200. The new agriculture and the country school, p. 201-25.  
 "This is one of the best contributions to rural education that has been written."
148. **Knapp, Seaman A.** Agricultural education for the rural districts. In National education association. Journal of proceedings and addresses, 1909. p. 954-59.
149. **McClintock, James E.** Exercises in elementary agriculture for Maine rural schools. Prepared for the State educational department. [n. p.] 1910. 15 p. 8°.
150. **Minnesota. University. Department of agriculture.** Exercises in agriculture and housekeeping for rural schools . . . St. Paul, Minn., McGill-Warner co. [1903?] 496 p. 12°. (Bulletin no. 1)
151. **Powell, E. P.** Agriculture in rural schools. In American association of farmers' institute workers. Proceedings, 1902. p. 109-113.
152. **Truë, Alfred C.** Some problems of the rural common school. In U. S. Department of agriculture. Yearbook, 1901. p. 133-54.  
 "Discusses some of the weaknesses of the rural common schools and ways of overcoming them, including centralization of schools, transportation of pupils, the introduction of studies more closely related to the practical business of the farm, securing teachers in sympathy with farm life, making the schools the center of intellectual life of the community, and the cooperation of the farmer and his family with teacher and pupils."
153. **Winnebago county [Ill.] schools.** [Annual reports] 1903-1910. O. J. Kern, county superintendent, Rockford, Ill.  
 These reports, published under various names, are practical, illustrated accounts of methods and results in the Winnebago county rural schools. They contain valuable material on agriculture, libraries, school grounds, transportation and consolidation, and industrial education.

## SECONDARY SCHOOLS

154. Agricultural education in secondary schools. Papers read at the second annual meeting of the American association for the advancement of agricultural teaching, Columbus, Ohio, November 14, 1911. Washington, Government printing office, 1912. 53 p. 8°. (U. S. Bureau of education. Bulletin, 1912, no. 6)  
 CONTENTS: 1. Essentials in a state system of agricultural education [by] F. W. Howe.—2. The need for reliable scientific data regarding social and economic conditions in rural communities [by] E. C. Higbie.—3. The proper equipment of an agricultural high school [by] D. O. Barto.—4. The Smith's agricultural school and agricultural education in Massachusetts [by] R. W. Stimson.—5. The unprepared teacher of agriculture in high schools and colleges of education [by] A. V. Storm.—6. What is done to prepare teachers of secondary school agriculture [by] A. C. Monahan.—7. Recent publications of the Bureau of education on agricultural education.  
 "Six papers on vital questions concerning secondary school agriculture, read before the American association for the advancement of agricultural teaching at its second meeting held in November 1911 . . . They discuss in an able manner the place of agricultural education in the state system of public instruction and the need of reliable data concerning rural conditions, as well as matters relating to equipment and teachers for the agricultural high school."
155. **Anderson, Leroy.** Agriculture in the high schools. Whittier, Cal., Linotyping and printing by boys of the state school, 1909. 18 p. 8°. (University of California. College of agriculture. Agricultural experiment station. Circular no. 47, November 1909)  
 "A partial list of helpful bulletins, circulars and books on agriculture": p. 16-18.
156. ——— The teaching of agriculture in the secondary schools. University of California chronicle, 13: 164-76, April 1911.  
 Discusses the nature of agriculture and the reason for teaching it.

157. **Association of American agricultural colleges and experiment stations. Committee on methods of teaching agriculture.** Secondary courses in agriculture. [Washington, Government printing office, 1902] 10 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 49)  
Deals with secondary agricultural education in connection with colleges and in town high schools, giving a number of high-school courses.
158. **Babcock, Ernest B. and others.** Development of secondary school agriculture in California. [Berkeley, 1911] 53 p. 8°. (University of California. College of agriculture. Agricultural experiment stations. Circular no. 67)  
"Recommended list of books for the high school agricultural library": p. 51-53
159. **Barto, D. O.** Problems in secondary school agriculture. *In* Central association of science and mathematics teachers. Proceedings, 1908. p. 16-23.
160. **Bricker, Garland A.** Shall secondary agriculture be taught as a separate science? *Education*, 30: 352-56, February 1910.
161. ———. Suggestions for organizing a high school course in agriculture. Columbus, Ohio state university, 1910. 16 p. illus. 8°. ([Ohio state university, Columbus. College of agriculture and domestic science.] The Agricultural college extension bulletin. Vol. VI, Supplement 2, no. 11)  
"Books and pamphlets containing laboratory and field exercises": p. 4-7.
162. ———. The teaching of agriculture in the high school. . . . New York, The Macmillan company, 1911. xxv, 202 p. illus. 8°.  
"Recent textbooks on general agriculture": p. 185-90.  
"In the following pages Mr. Bricker has analyzed the problem of agricultural education in the secondary schools. He has formulated the aims and methods of agricultural education in the light of the principles and hypotheses that have been gleaned from experience in the field of general education."—W. C. Bagley in Pref.
163. **Buckham, Matthew H.** Agriculture in the high school; an address to the students of the winter course in the University of Vermont, January 5, 1910. [Burlington? Vt.] 1910. 7 p. 8°.
164. **Burnett, E. A.** The function of the land-grant college in promoting agricultural education in secondary schools. *In* Association of American agricultural colleges and experiment stations. Proceedings, 1909. p. 87-93. (U. S. Department of agriculture. Office of experiment stations. Bulletin no. 228)
165. **Crosby, Dick J.** Agricultural schools. *In* New York state agricultural society. Proceedings of the seventeenth annual meeting, Albany, 1910. p. 159a-169a.  
"Briefly discusses the status, types and function of secondary agricultural schools in this country."
166. ———. Agriculture in high schools. *Southern educational review*, 4: 37-43, February-March 1907.
167. ——— and **Crocheron, E. H.** Community work in the rural high school. *In* U. S. Department of agriculture. Yearbook, 1910. p. 177-88.
168. **Davenport, Eugene.** The next step in agricultural education; or, The place of agriculture in our American system of education. Urbana, Ill. [1908] 22 p. 8°.

"This address was read first at Illinois college, Jacksonville, October 31, 1907, and after some alterations read, as here printed, at Missouri state university, Columbia, January 9, 1908."

The author summarizes his arguments in the following statement: "This then is the place of agriculture in our scheme of education—that it shall become an integral part of our educational system, to the end that all great interests shall be served equally well by a single comprehensive system of schools; and the next step is to see to it that agriculture shall attain the same important and honorable place in our high schools that it has already attained in our universities."

169. **Davis, Booth C.** The possibilities of agricultural education in the high schools. In New York state agricultural society. Proceedings of the seventy-first annual meeting, Albany, 1911. p. 381-86.
170. **Doster, James J.** Agriculture in public high schools. In Conference for education in the South. Proceedings, 1910. p. 225-33.  
 "The author discusses the reasons for general rural indifference to school improvement and calls attention to the need of textbooks in physics, biology, chemistry, mathematics, bookkeeping, and history that are adapted to rural conditions and interest, and illustrates the importance of agriculture in the industrial development of the race. He suggests that country boys and girls should be encouraged to carry on a productive business in truck or fruit growing or in stock or poultry raising while studying in the rural high school. The school should be the social center of the neighborhood, and evening classes for the benefit of the women of the neighborhood in cooking, dress-cutting and dressmaking, in training to care for the sick, and in the prevention of disease, might be formed."
171. **Duncan, L. N.** Best method of introducing agriculture and allied branches into high schools. In Alabama educational association. Official proceedings, 1910. p. 207-14.
172. **Eldred, C. H.** Practical agriculture in the smaller high school. Wisconsin journal of education, 42: 160-62, June 1910.
173. **Giles, F. M.** Teaching of agriculture in the high school. School review, 17: 154-65, March 1909.  
 "References": p. 165.  
 This paper recommends the study of elementary agriculture as an introduction to high school science.
174. **Hatch, Kirk Lester.** The high school course in agriculture. Madison, The University of Wisconsin, 1911. 40 p. 12°. (Bulletin of the University of Wisconsin, no. 441. High school ser., no. 12)  
 Bibliography: p. 37-40.  
 Gives a suggested arrangement of work in agriculture and related sciences for each year; details of each unit of work; a syllabus of a four-year secondary course in agriculture; necessary laboratory supplies for a class of 12 with estimated cost; and a list of bulletins of the U. S. Department of agriculture recommended for school use.
175. **Hays, Willet M.** Agricultural education in high schools. In U. S. Bureau of education. Report of the Commissioner for the year 1903. v. 2, p. 1368-72.
176. ——— History of secondary agricultural education. In Society for the promotion of agricultural science. Proceedings, 1907. p. 73-83.
177. **Hunt, T. F.** Agriculture in secondary schools. In Pennsylvania. Department of agriculture. Annual report, 1907. p. 332-95.  
 A brief review of the progress made in introducing agriculture in secondary schools.
178. ——— Agriculture in township high schools. Pennsylvania school journal, 56: 327-35, February 1908.
179. **Hurd, William Daniel.** Approved course in agriculture for high schools and academies in Maine . . . Waterville, Sentinel publishing company, 1909. 66 p. 8°. Includes bibliographies.
180. **Knapp, Seaman A.** Shall agriculture be taught in the secondary schools of the United States? Southern educational review, 4: 53-64, February-March, 1907.
181. **Lohead, W.** Agricultural education in secondary schools. Southern educational review, 4: 43-53, February-March 1907.
183. **Main, Josiah.** Agriculture in the high school. Popular science monthly, 79: 385-96, October 1911.

183. **Main, Josiah.** Correlation of high school science and agriculture. *Education*, 30: 135-45, November 1909.
184. ———. Educational agriculture. Hays, Kan., 1910. 74 p. illus. 8°. (Western state normal school. Bulletin, vol. II, no. 3)  
 "List of books suitable for a high-school agricultural library": p. 73-74.  
 A discussion of high-school agriculture as the most important division of the subject of agricultural education, with the object of the proper fixing of the upper and lower limits of secondary agriculture, thereby determining the work of the elementary grades and higher institutions.
185. **Michigan. State agricultural college, Lansing.** Department of agricultural education. A course in agriculture for the high schools of Michigan. [Lansing] Michigan agricultural college, 1911. 64 p. 8°. (Bulletin no. 7, July 1911)
186. ———. Report of agriculture in the high schools of Michigan. [Lansing] Michigan agricultural college, 1911. 23 p. illus. (Bulletin no. 6, July 1911)
187. **National society for the study of education.** Eleventh yearbook [1912] Part 2. Agricultural education in secondary schools. Chicago, Illinois, The University of Chicago press [1912] 113 p. 8°.
 

CONTENTS: 1. The training of teachers for secondary courses in agriculture [by] A. C. Monahan, p. 9-21. 2. The vocational agricultural school [by] R. W. Stinson, p. 22-53. 3. State-aided departments of agriculture in public high schools [by] Dick J. Crosby, p. 54-65. 4. High-school agriculture without state subsidy [by] W. H. French, p. 66-74. 5. Short courses and extension work in agriculture for high schools—(a) In the South [by] H. F. Button, p. 75-82; (b) In the North [by] F. R. Crane, p. 83-90. 6. In public high schools should agriculture be taught as agriculture or as applied science (a) [by] W. R. Hart, p. 91-97; (b) [by] O. F. Warren, p. 98-101.

"This yearbook was discussed at the St. Louis meeting of the National society, February 26, 1912. The program represents an analysis of the typical experiments that are being undertaken, with some interpretation of each plan and its results. The contributors of the articles are specialists who are in intimate touch with the special phases of the work which they describe."
188. **New York (State) Education department.** Syllabus for secondary schools; agriculture . . . 1910. Albany, New York state education department, 1910. 103 p. 8°.
 

List of books for classroom work, p. 3-4.
189. **Owens, Clarence J.** Secondary agricultural education in Alabama. Washington, Government-printing office, 1909. 30 p. illus. 8°. (U. S. Department of agriculture. Office of experiment stations. Bulletin 220)  
 Gives an account of the district agricultural schools in Alabama with a description of their course of study and equipment.
190. **Robison, Clarence H.** Agricultural instruction in the public high schools of the United States . . . New York, Teachers college, Columbia university, 1911. 205 p. 8°. (Teachers college, Columbia university. Contributions to education, no. 39)  
 "List of references on agricultural education": p. 191-200.  
 CONTENTS: 1. Agricultural education. 2. Public high school. 3. Some typical high schools teaching agriculture. 4. Administration, equipment and methods. 5. Preparation and salaries of teachers of agriculture in the high schools. 6. Special secondary schools of agriculture. 7. Problems of agricultural instruction in secondary schools.  
 "It comprises the most comprehensive study of high school instruction in agriculture that has been made in this country . . . Scattered throughout the work are 34 tables giving in condensed form the results of the author's investigations, and these with the topical index will render much valuable information available to students of education."
191. ———. The present status of agricultural education in public secondary schools of the United States. [Chicago, 1911] p. 333-44. 8°.
 

Reprinted from the *School review*, vol. xix, no. 5, May 1911.

192. **True, Alfred C.** Secondary education in agriculture in the United States. [Washington, Government printing office] 1909. 11 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular 91)
- "A brief review of the status of secondary education in agriculture in the United States, together with a discussion of the desirable relationships between secondary and collegiate education in agriculture and outlines of two-year and four-year agricultural and horticultural courses, showing the time given not only to agriculture and horticulture but also to other natural sciences, languages, history, and mathematics."
193. **Warren, George Frederick.** Agriculture for high schools. *In* Annual conference on agricultural science, Amherst, Mass. Proceedings, 1909. p. 32-43.
- A discussion on the economic value of agricultural study, based on a Cornell university investigation of the increased earning power of trained farmers as compared with untrained.
194. ——— The place of agriculture in the public high schools. *In* National education association. Journal of proceedings and addresses, 1910. p. 1094-1103.
- A brief discussion of how much education the farmer needs, what schools should teach agriculture, and the place and object of teaching it in the high school.

#### AGRICULTURAL HIGH SCHOOLS

195. **Crocheron, Bertram H.** Agricultural education through the public schools. *In* Maryland. State board of education. Forty-fifth annual report, 1910-11. Baltimore, The Sun job printing office, 1911. p. 68-93.
196. ——— Community work in the agricultural high school. *In* National society for the study of education. Tenth yearbook, 1911. Part II, p. 9-16.
- "A detailed description of the community work undertaken by the Baltimore (Md.) county agricultural high school. It includes an account of the school, its organization, and work among the farmers, farmers' wives, and the young people of the community. This paper shows the great possibilities of a rural high school in its service to an entire community, children and adults as well."
197. ——— Laboratory and field work in the agricultural high school. *In* National education association. Journal of proceedings and addresses, 1910. p. 1089-93.
- Discusses the difficulties of laboratory work in the agricultural high school.
198. ——— A very real country school; how it touches and teaches all the people. *World's work*, 23: 318-26, January 1912.
- A popular account of the Agricultural high school of Baltimore county, Maryland.
199. **Cromwell, A. D.** Need for agricultural high schools. *School review*, 16: 198-200, March 1908.
200. **Crosby, Dick J.** The place of the agricultural high school in the system of public education. *In* National education association. Journal of proceedings and addresses, 1910. p. 1103-7.
- The author discusses two things essential in a system of public education: 1. A standard graded course from kindergarten through the university; 2. Adequate provision for those who cannot pursue the whole course.
201. ——— Special agricultural high schools. *In* National education association. Journal of proceedings and addresses, 1909. p. 974-76.
202. **Georgia. University.** Report of J. S. Stewart . . . on the tentative curriculum of the district agricultural high schools . . . Adopted by the Board of trustees of the University of Georgia, January 10, 1907. [n. p., 1907] 8 p. 8°
203. **Macnamee, Richard S.** District high schools. *Pennsylvania school journal*, 56: 487-91, May 1908.
204. **The Minnesota agricultural high school . . .** *In* Arkansas. Department of public instruction. Biennial report, 1907-1908. Little Rock, Arkansas, Democrat printing and lithographing co. p. 140-73.

205. **Noble, Stuart Grayson.** The Alabama system of agricultural high schools. *Educational exchange*, 26: 10-13, January 1911.
206. ——— The agricultural high school in Mississippi. *Mississippi school journal*, 15: 1-6, January 1911.
207. ——— The curriculum of the agricultural high school. *Mississippi school journal*, 15: 7-11, March 1911.  
"Presents the results of a detailed study of the curricula of the agricultural high schools of Alabama, Georgia, and Mississippi."
208. ——— Shall we have a secondary school of agriculture? *Mississippi school journal*, 15: 8-11, December 1910.
209. **Reynolds, J. H.** Agricultural high schools. In *Southern educational association. Journal of proceedings and addresses*, 1908. p. 515-25.

## COUNTY SCHOOLS OF AGRICULTURE

210. **Cobb, C. A.** What one Southern county agricultural high school has done and is doing. In *Conference for education in the South. Proceedings*, 1910. p. 64-69.  
Describes the work of the county agricultural high school, Chickasaw County, Mississippi.
211. **Davis, Kary C.** County schools of agriculture in Wisconsin. In U. S. Department of agriculture. Office of experiment stations. Report, 1904. p. 677-86.  
"Describes the equipment of these schools, the character of instruction and facilities, and the attitude of the students and the public towards them."
212. **Johnson, A. A.** County schools of agriculture and domestic economy in Wisconsin. Washington, Government printing office, 1911. 24 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Bulletin 242)  
"This report deals with the origin, equipment, organization, and work of these schools, and also contains statistical data concerning the students, graduates, and income."
213. **Michigan. Department of public instruction.** County schools of agriculture. In *its Seventy-first annual report*. Lansing, Wynkoop, Hallenbeck, Crawford co., 1908. p. 35-42. (Department of public instruction. Bulletin no. 24).  
A digest of the law establishing county high schools, with general suggestions regarding their organization, courses of study, etc.

## MOVABLE SCHOOLS OF AGRICULTURE

214. Agricultural demonstration trains of the University of California. *University of California chronicle*, 11: 186-87, April 1909.
215. **American association of farmers' institute workers.** Report on movable schools of agriculture . . . In *its Proceedings*, 1908. Washington, Government printing office, 1909. p. 23-28.
216. **Ball, S. Mays.** With a prosperity train in Georgia. *World's work*, 16: 10445-53, July 1908.
217. **Gregory, C. V.** Farming by special train. *Outlook*, 97: 913-22, April 22, 1911.
218. **Hamilton, John.** Form of organization for movable schools of agriculture. Washington, Government printing office, 1908. 8 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular 79)  
"A plan is proposed to organize movable schools of agriculture for farmers over nineteen years of age and for teachers in rural schools. A course is to extend over three or four seasons. The purpose is to equip several persons in each community so that they will be able to improve in their locality the branch of agriculture which the school represents."

219. **Snyder, A. H.** Traveling schools. *In* Conference for the study of the problems of rural life, University of Virginia, 1909. p. 48-54.
220. **Washington, Booker T.** Farmers' college on wheels. *World's work*, 13: 8352-54, December 1906.
221. **Wilson, N. O.** Railroading knowledge to the farmers: special trainloads of demonstrations and exhibits. *World's work*, 23: 100-6, November 1911.

## FARMERS' INSTITUTES

222. **American association of farmers' institute workers.** Proceedings, 1896-'1910. Washington, Government printing office [1897-1911] 15 v. 8°. Published by the U. S. Department of agriculture.
223. **Butterfield, Kenyon L.** A significant factor in agricultural education. *Educational review*, 21: 301-6, March 1901.  
"The work of the grange and farmers' institutes."
224. **Creelman, G. C.** [Historical sketch of the American association of farmers' institute workers] *In* American association of farmers' institute workers. Proceedings, 1906. Washington, Government printing office, 1907. p. 11-15.
225. **Graham, A. B.** The farmers' institute with relation to rural public schools. *In* American association of farmers' institute workers. Proceedings, 1908. p. 46-51.
226. **Hamilton, John.** The farmers' institute as a factor in creating a desire for an agricultural education. *In* American association of farmers' institute workers Proceedings, 1902. p. 68-73.  
Discussion, p. 73-77.
227. ——— Farmers' institutes for women. Washington, Government printing office, 1909. 16 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular 85)  
"A discussion of the importance of farmers' institutes for women is followed by suggestions for organizing such work, including forms of organization for county and state associations, and data concerning the kind of instruction women's institutes should give, and the extent to which women's institute work has been developed in the different states."
228. ——— Farmers' institutes for young people. Washington, Government printing office, 1910. 40 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 99)  
"Calls attention to the lack of adequate means for giving vocational training in agriculture to young people in rural districts after they leave the public school and before they enter upon their life occupation. As a partial remedy for this the author recommends the organization of boys' and girls' clubs, farmers' institutes for young people, subjects for institute study, systematic course for contest work, boys' encampments, form of organization, model constitution."
229. ——— The farmers' institutes in the United States. *In* U. S. Office of experiment stations. Annual report, 1910. p. 387-424.  
The reports of the Farmers' institute specialist of the Department of agriculture are published annually. They include discussions on the progress and problems of institute work, accounts of the annual meeting of the American association of farmers' institute workers, and detailed reports of the farmers' institutes in different states.
230. ——— History of farmers' institutes in the United States. *In* U. S. Office of experiment stations. Report, 1907. p. 307-54.  
"Includes a discussion of the progress and problems of the institute movement and a discussion of the agricultural education extension movement."



231. **Stevens, F. L.** The farmers' institute with relation to agricultural high schools. In American association of farmers' institute workers. Proceedings, 1908. p. 53-57.

Discusses the duty of the agricultural high school to the individual and its duty to the community. The author sums up his recommendations as follows: "A dominant agricultural atmosphere to enoble and dignify agriculture, to make the pupil realize that agriculture is worth the while; a proper recognition of agriculture in our textbooks of history, geography, literature, science; a school curriculum broad enough to give culture, but special enough to bear upon the lives of the pupils and adapted to the majority, not to the minority, of the graduates; a competent teacher secured by whatever salary is necessary; a cooperation between the agricultural high school and the agricultural colleges and normal schools of the state."

#### - AGRICULTURAL CLUBS

232. **Bishop, Edward C.** Nebraska corn book, including a brief treatment of the principal corn plants, potatoes and sugar beets, with something about domestic science, manual work, and announcements concerning the 1906 Corn contest and convention. Lincoln, For the Nebraska boys' and girls' associations, The University publishing co., 1906. 78 p. illus. 8°.

A manual prepared for the boys and girls of Nebraska taking part in the corn growing and cooking contests.

233. **Crosby, Dick J.** Boys' agricultural clubs. In U. S. Department of agriculture. Yearbook, 1904. p. 489-96.

"This paper includes a description of the boys' exhibit of corn at the Louisiana purchase exposition, the development of boys' clubs in Illinois and other states, and school fairs, and discusses the educational value of the work done by such organizations."

234. **Duncan, L. N.** The boys' corn clubs. Progressive school journal, 1:6-7, May 1911.

235. **Hamilton, John.** Agricultural fair associations and their utilization in agricultural education and improvement. Washington, Government printing office, 1910. 23 p. 8°.

"This circular gives the result of an extended study of the conditions of country fairs in the various states, and contains numerous suggestions in detail as to methods of increasing their usefulness for betterment of educational, social, and economic conditions in rural communities. An appendix contains a suggested form of organization."

236. **Howe, F. W.** Boys' and girls' agricultural clubs. In Virginia. University. Conference for the study of the problems of rural life, 1909. p. 43-47.

237. ——— Boys' and girls' agricultural clubs. Washington, Government printing office, 1910. 23 p. illus. 8°. (U. S. Department of agriculture. Farmers' bulletin no. 385)

"Available publications": p. 19-22.

"This reviews the work already accomplished by boys' and girls' agricultural and domestic science clubs in the United States, the assistance given by this Department, and the relation of such work to rural schools, and offers practical suggestions for the organization of such clubs and the planning of their work. There is also included a list of free publications of this Department and of various state colleges and experiment stations dealing directly or indirectly with this form of school extension work and related subjects."

238. **Kern, Olly Jasper.** "Learning by doing," for the farmer boy. Review of reviews, 28: 456-61, October 1903.

Boys' agricultural club of Winnebago county, Illinois.

239. ——— Winnebago county boys' and girls' clubs. In his The Winnebagoes, 1903 [Rockford, Ill. 1903] p. 39-49.

240. **Nebraska. Department of public instruction.** Agricultural and domestic science clubs. In its Biennial report, 1905-1907. Fremont, Nebraska, Hammond printing company. p. 420-21.

Corn contest, etc., p. 61-61.

241. **Nebraska. University.** Department of farmers' institutes. Nebraska boys' and girls' associations. Lincoln, Nebraska, 1907, 1908. (University bulletin. Series xii, no. 25; series xiii, no. 11, 14)
242. **Price, Homer C.** Agricultural clubs in rural schools. Ohio state university. Bulletin, series 7, no. 10. 1904.  
 "This bulletin contains suggestions for organizing clubs in the rural schools of Ohio. These suggestions are the outgrowth of the previous year's experience of the first club formed in Ohio under the auspices of the students of the Agricultural Union."
243. **Boy, V. L.** Boys' agricultural clubs. 14 p. (Louisiana. Department of education. Circular of information, December 1909)
244. **Wisconsin. University. University extension division.** Farmers' clubs, organization, discussion, programs, loan of books and study materials. Madison, The University, 1909. 9 p. 12°. (University bulletin, no. 34)

#### SCHOOL GARDENS

245. **Babcock, Ernest B.** Suggestions for garden work in California schools. Berkeley. University press, 1909. 48 p. illus. 8°. (University of California. College of agriculture. Agricultural experiment station. Circular no. 46. October 1909).  
 Bibliography: p. 45-48.  
 "The author reviews briefly the progress of the children's garden movement, gives illustrations of successful school garden work in California, outlines a scheme successfully carried out at Chico, Cal., for the business management of school gardens through the organization of a school bank, and gives general suggestions to teachers who are beginning school garden work as to the creation of public sentiment for the work and as to details of the work in small rural or ungraded schools and in large rural or city schools."
246. ——— and **Stebbins, Cyril A.** The school garden in the course of study. Western journal of education, 16: 6-7, August 1911.
247. **Baldwin, W. A.** School gardens and their relation to other school work. [Philadelphia? 1905?] 15 p. (American civic federation. Department of children's gardens. Department pamphlet-no. 2)
248. **Conference on agricultural science.** 3d, Amherst, Mass. . . . 1910. Proceedings of the third annual Conference on agricultural education. School and home gardens . . . Amherst, The College, 1910. 30 p. illus. 8°. (Massachusetts agricultural college. Department of agricultural education. Circular 10)  
 "Books on school and home gardens": p. 29.  
 Contains: 1. Coordination between garden work and nature work and book work, by G. L. Green.—2. How agriculture put new life into a rural school, by E. H. Nash.—3. Rural school and home gardens during the summer, by Elizabeth Hall.—4. Gardening in the schools of Springfield, by F. A. Stebbins.—5. Home gardens of the Worcester public schools, by E. R. Thayer.—6. Some suggestions for beginning garden work, by W. R. Hart.
249. **Corbett, Lee C.** The school garden. Washington, Government printing office, 1905. 40 p. illus. 8°. (U. S. Department of agriculture. Farmers' bulletin, no. 18)
250. **Crosby, Dick J.** Children's gardens, prospectus of the Department. 3d ed. [Philadelphia? 1906] 8 p. 8°. (American civic association. Department leaflet no. 1)
251. **Davis, Benjamin M.** School gardens for California schools; a manual for teachers . . . Sacramento, W. W. Shannon, superintendent state printing, 1905. 79 p. illus. 8°. (State normal school, Chico, California. Bulletin no. 1, July 1905)  
 "Useful reference books and bulletins for school library": p. 50-53.  
 Bibliography: p. 57-74.  
 "Discusses the history of school gardens and their educational importance, the plant and its relations, plant propagation, instruction including aim and scope, practical work, correlative subjects, adaptation to school conditions, etc. The annotated bibliography of nearly three hundred titles is a summary of the literature of the subject up to 1905."

252. **Elford, Percy and Heaton, Samuel.** Practical school gardening. Oxford, Clarendon press, 1909. 224 p. 8°.
- CONTENTS: 1. The garden. 2. Tools. 3. Preparation of the soil. 4. Sowing and planting. 5. Vegetable garden pests. 6. Herbs. 7. Salads. 8. How to make a hotbed. 9. Fruit culture. 10. Fruit-tree pests. 11. Flowers. 12. Insects and diseases which attack flowering and foliage plants. 13. Friends of the garden. 14. Weeds. 15. Calendar of gardening operations. 16. Nature calendar.
253. **Galloway, Beverly T.** School gardens; a report upon some cooperative work with the normal schools of Washington, with notes on school-garden methods followed in other American cities. Washington, Government printing office, 1905. 47 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Bulletin 160)
254. **Gang, E.** School gardens. In U. S. Bureau of education. Report of the Commissioner, 1898-99. p. 1067-84.
- "This is one of the best accounts, especially from the historical standpoint, published."
255. **Greene, Maria L.** Among school gardens. New York, Charities publication committee, 1910. 388 p. 8°. (Russell Sage foundation publication)
- Bibliography: p. 341-75.
- CONTENTS: 1. Evolution of the school gardens. 2. Different kinds of school gardens. 3. Soil fertility. 4. Cost of equipment. 5. Planning and planting the garden. 6. After planting, what? 7. Some garden weeds. 8. School garden in vacation and in term time. 9. Some last things.
256. **Hemenway, Herbert D.** How to make school gardens; a manual for teachers. New York, Doubleday, Page & company, 1903. 107 p. 12°.
- School garden bibliography: p. 97-107.
257. **Hochbaum, H. W.** Successful school gardens. Colorado school journal, 27: 11-14, November 1911.
258. **Keller, S. C.** School and home gardening. Manila, Bureau of printing, 1910. 45 p. illus. 8°. (Philippine Islands. Bureau of education. Bulletin no. 31, 1910)
- A manual for the use of teachers in the Philippines, prescribing courses for the elementary schools and giving detailed instructions for the preparation, planting, and care of the school garden.
259. **Milpatrick, Van Evrie.** Gardening in city schools. School work, 7: 106-10, October 1908.
260. **Livermore, Henrietta J.** School gardens, report of the Fairview garden association, Yonkers, N. Y. New York city, Russell Sage foundation, Department of child hygiene, 1910. 31 p. illus. 8°.
261. **Maccaughey, Vaughn.** School gardening in Hawaii as related to agricultural education. In National education association. Journal of proceedings and addresses, 1911. p. 1126-31.
262. **Miller, Louise Klein.** Children's gardens for school and home; a manual of cooperative gardening . . . New York, D. Appleton & co., 1904. 235 p. illus. 12°.
263. **Parsons, Henry G.** Children's gardens for pleasure, health, and education. New York, Sturgis & Walton company, 1910. 226 p. 12°.
- "Books for the teacher": p. 194-97.
- Part 1. "Deals with the theoretical considerations favoring the use of gardening for the educational development of children. The author emphasizes its value in lessening poverty, sickness, and inefficiency, in teaching economy of time and labor, in training for other occupations and for civic affairs, and in developing a sense of the dignity of work . . . Part 2. Deals with the practical equipment and management of a school garden, the seeds and tools needed, the preparation of the soil, planting and subsequent work, and the functions of sunlight, air, water, and earthworms in plant growth. The final chapter presents a list of books and government publications for teachers. The distinctive character of this book lies in its pedagogic attitude throughout."

264. **Rowe, W. S.** School gardening at Greenville, Ohio. *Ohio educational monthly*, 57: 49-50, February 1908.
265. **Skinner, Hubert M.** A discussion of school gardens . . . at the N. E. A. meeting at San Francisco, Cal., July 1911. [Hammond, Ind.] 1911. 13 p. 8°.
266. **Stebbins, Cyril A.** Potentiality of the school garden. *In National education association. Journal of proceedings and addresses*, 1911. p. 1131-37.  
"Educationally the garden is a potent factor, for it not only educates but educates sanely, by taking into consideration the satisfaction of the racial body and the racial mind of the child."
267. **Weed, Clarence M. and Emerson, P.** School garden book. New York, C. Scribner's sons, 1909. 320 p.  
Bibliography: p. 315.  
"This is intended as a general guide for teachers in school garden work and in utilizing its educational, economic, and social values in the training of children."

## AGRICULTURE: TRAINING OF TEACHERS

268. **Abbey, M. J.** Normal school instruction in agriculture. Washington, Government printing office, 1909. 31 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 90)  
"In this circular a description is given of the agricultural course in the Mayville, North Dakota, state normal school, including a discussion of the place of agriculture in the normal school curriculum, methods of teaching, correlation, and other related subjects."  
"If the normal schools generally shall fail to give adequate instruction along the industrial and vocational lines now demanded by the persistent sentiment of the people, they must be content to see this line of teaching preparation pass to other agencies not originally intended for normal work." p. 31.
269. **Bailey, Liberty Hyde.** The better preparation of men for college and station work. *In Association of American agricultural colleges and experiment stations. Proceedings*, 1909. p. 25-32. (U. S. Department of agriculture. Office of experiment stations. Bulletin no. 228)
270. — On the training of persons to teach agriculture in the public schools. Washington, Government printing office, 1908. 53 p. 8°. (U. S. Bureau of education. Bulletin, 1908, no. 1)  
"List of references": p. 49-50.  
An able discussion of the nature of the problem, the means of training teachers, and the general outlook and significance of normal work in the colleges of agriculture.
271. **Balcomb, Ernest Elwell.** Agriculture in normal schools: courses of instruction and financial support. *In National education association. Journal of proceedings and addresses*, 1907. p. 752-58.
272. — What has been done by normal schools and agricultural colleges for popular education in agriculture. *In National education association. Journal of proceedings and addresses*, 1907. p. 1069-75.  
"This report is a summary of answers to letters to the presidents of each agricultural college, to each state normal school, and to certain other schools of the United States."
273. **Crosby, Dick J.** Training courses for teachers of agriculture. *In U. S. Department of agriculture. Office of experiment stations. Yearbook*, 1907. p. 207-20.  
Reprinted, 1908.  
"Results of an inquiry . . . concerning courses for teachers of agriculture in agricultural colleges, state normal schools, privately endowed colleges and schools, and county normal training schools in the United States. These are followed by a discussion of the essentials of training for teachers of agriculture and lines of future development in this work."
274. **Davis, Benjamin M.** Shall teachers be prepared to give instruction in elementary agriculture? *Western journal of education*, 11: 6-15, May 1908.  
"Discusses the organization of agricultural education in the United States, agriculture in the elementary schools, work in Canada, N. E. A. report on industrial education in schools for rural communities, work of the normal schools."

275. **Duggar, J. F.** Preparing teachers to give instruction in agriculture. *In* Southern educational association. *Journal of proceedings*, 1910. p. 142-46.  
 "The agencies at work in training teachers to give instruction in agriculture are enumerated, and it is stated that in fitting the teacher there must be imparted three distinct elements of success: (1) inspiration and a reasonable confidence in the importance of the end to be attained; (2) abundant subject-matter; (3) some slight instruction regarding methods of teaching agriculture."
276. **Johnson, D. B.** Agriculture in normal schools. *In* Conference for education in the South. *Proceedings*, 1910. p. 242-50.  
 A general review of the present status of secondary agricultural education in this country, followed by a description of the work in agriculture and domestic science in the Winthrop industrial and normal college, North Carolina.
277. **Johnson, D. B.** Agriculture in the Chico normal schools. *Western journal of education*, 16: 126-33, March 1911.
278. **Kirk, John R.** Agriculture and domestic science in normal schools with special reference to preparing teachers for community work. *In* National education association. *Journal of proceedings and addresses*, 1911. p. 1152-55.  
 Discussion: p. 1155-56.
279. **Mitchler, Fred and Craig, W. J.** A course of study for the preparation of rural school teachers: nature study, elementary agriculture, sanitary science, and applied chemistry. Washington, Government printing office, 1912. 23 p. 8°. (U. S. Bureau of education. Bulletin, 1912, no. 1)  
 "A very important problem of popular education to-day is the better adaptation of the work of the rural schools to the needs of rural life. The schools must make the people more intelligent in regard to the life they are to live. Both for culture and practical utility the course of study in these schools should conform more closely to the environment of the child and the future work of the man. This can be brought about only by teachers educated and trained for the task."
280. **National committee on agricultural education.** The Davis bill in its relation to normal schools. *In* National education association. *Journal of proceedings and addresses*, 1909. p. 570-73.
281. **Preparation of teachers for agricultural education.** *In* National education association. *Journal of proceedings and addresses*, 1908. p. 294-312.  
 Contains: 1. Notes on the training of teachers of agriculture [by] E. E. Brown. 2. Cooperation of State agricultural colleges and State normal schools [by] K. L. Butterfield and A. Bayliss. 3. Cooperation between the U. S. Department of agriculture and the state authorities in promoting agricultural education [by] Dick J. Crosby.
282. **Seerley, Homer Horatio.** National aid in the preparation of teachers of agriculture for the public schools. *In* National education association. *Journal of proceedings and addresses*, 1909. p. 265-68.  
 Also in *Journal of education*. 78: 204-5, September 2, 1909.
283. **True, Alfred C.** Notes on the history of agricultural pedagogy in the United States. Delivered at twenty-eighth annual meeting of the Society for the promotion of agricultural science, 1907. [1907] 23 p. 8°.
284. ——— Training of extension teachers. *In* Association of American agricultural colleges and experiment stations. *Proceedings*, 1910. p. 202-4.  
 Discussion: p. 204-11.
285. **The work of the normal school in preparing teachers to teach agriculture.** 1. [By] Charles Evans. 2. [By] W. L. French. *In* National education association. *Journal of proceedings and addresses*, 1908. p. 1194-99.

## HIGHER AGRICULTURAL EDUCATION

286. **Addis, Wellford, comp. and ed.** The curriculum of the land-grant colleges. *In* U. S. Bureau of education. *Report of the Commissioner, 1896-97.* Washington, Government printing office, 1898. p. 427-56.

287. **Association of American agricultural colleges and experiment stations.** Proceedings, 1889-1910. Washington, Government printing office, 1889-1911. 23 v. 8°.  
Published annually by the Department of agriculture, and contains much valuable material on the work of the agricultural colleges.
288. ——— **Committee on instruction in agriculture.** . . . A four years' college course in agriculture. [Summary of reports 1-5 and 8 of the Committee . . .] Washington, Government printing office, 1906] 36 p. 8° (U. S. Department of agriculture. Office of experiment stations. Circular 69)
289. ——— **Committee on methods of teaching agriculture.** The relation of the natural sciences to agriculture in a four-year college course. [Washington, Government printing office, 1903] 15 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 55)  
"This report contains the recommendations of the committee with reference to the time to be devoted to work in physics, chemistry, botany, geology, physiology, and zoology in a four-year college course."
290. **Ayres, B.** Place of the agricultural and mechanical college in the educational scheme of the South. *Southern educational review*, 2: 485-93, December 1905.
291. **Bailey, Liberty Hyde.** Place of agriculture in higher education. *Education*, 31: 249-56, December 1910.
292. **Brannon, Melvin A.** Higher education and the farm. *Educational review*, 38: 451-60, December 1909.
293. **Butterfield, Kenyon L.** The social phase of agricultural education. In *Association of American agricultural colleges and experiment stations. Proceedings, 1904.* p. 56-61 (U. S. Department of agriculture. Office of experiment stations. Bulletin no. 153)  
"From the point of view of the agricultural college. A presentation of the rural problems and of the ways in which the agricultural college may fulfill its function by helping to solve them."
294. **Crosby, Dick J.** Special and short courses in agricultural colleges . . . Washington, Government printing office, 1903. 59 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Bulletin no. 139)  
"A summary of information on the special and short courses in agriculture and related subjects offered at the land-grant colleges. Brief statements are made concerning the date of opening, length, nature, admission requirements, and cost of attending these courses."
295. **Dabney, Charles W.** Land-grant and other colleges and the national defense . . . [Washington, Government printing office, 1899] 15 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular no. 40)
296. **Hamilton, John, ed.** College extension in agriculture. Discussions before the Graduate school of agriculture, at the Iowa state college, Ames, Iowa, July 4-27, 1910 . . . Washington, Government printing office, 1910. 86 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Bulletin 231)  
Contains: 1. L. E. Reber: University extension. 2. E. E. Sparks: University extension difficulties. 3. J. Hamilton: The status of agricultural extension in the United States and in other countries. 4. H. C. Price: The sphere of agricultural extension. 5. A. M. Soule: The sphere of agricultural extension. 6. K. L. Butterfield: Problems of agricultural extension work. 7. J. H. Miller: How to make effective the teaching of college and institute. 8. A. E. Burnett: American system of agricultural extension—organization. 9. P. G. Holden: American systems of agricultural extension—methods and equipment. 10. G. I. Christie: American system of agricultural extension—methods and equipment. 11. T. F. Hunt: American system of agricultural extension—qualifying teachers.
297. **Hamilton, John.** Progress in agricultural education extension. . . Washington, Government printing office, 1910. 12 p. 8°. (U. S. Department of agriculture. Office of experiment stations. Circular 98)

298. **Hamilton, John.** The present status of extension work in the United States. *In Association of American agricultural colleges and experiment stations. Proceedings, 1910.* p. 87-92.  
Supplement to Report of Committee on extension work, p. 81-87.
299. **James, Edmund J.** The origin of the land grant act of 1862 (the so-called Morrill act) and some account of its author, Jonathan B. Turner. Urbana-Champaign, University press, 1910. 139 p. 8°. (University of Illinois. The University studies, vol. iv, no. 1)
300. **Jordan, Whitman H.** Function and efficiency of the agricultural college. *Science, n. s.* 34: 773-85, December 8, 1911.
301. **Keffer, Charles A.** What the college of agriculture can do to promote the teaching of agriculture in the rural schools. *In Conference for education in the South. Proceedings, 1910.* p. 233-42.  
Discusses the place of the college of agriculture in the school system of the state, college extension in agriculture, and the creation among voters of a sentiment favorable to the teaching of agriculture. The author emphasizes the place of the college of agriculture as a part of the public school system and its work in aiding the public schools.
302. **Kerr, W. J.** Some land grant college problems. *In Association of American agricultural colleges and experiment stations. Proceedings, 1910.* p. 37-51.
303. **Medd, John C.** Agricultural education in the United States. *Nineteenth century, 60:* 209-306, August 1906.  
"A popular historical account dealing mainly with agricultural colleges."
304. **Monahan, Arthur C.** Opportunities for graduate study in agriculture in the United States. Washington, Government printing office, 1911. 18 p. 8°. (U. S. Bureau of education. Bulletin, 1911, no. 2)  
"This bulletin, describing the opportunities in the United States for graduate study in agriculture and those closely allied sciences which have a direct application in agriculture, is a result of an inquiry made by the Bureau of Education in cooperation with the Committee on graduate study of the Association of American agricultural colleges and experiment stations."
305. ——— Undergraduate or collegiate courses in agriculture in the State colleges of agriculture in the United States: prepared especially for foreign students. Washington, Government printing office, 1911. 13 p. 8°. (U. S. Bureau of education. Supplement to bulletin 1911, no. 2)
306. **Nelson, Knute.** Colleges for the benefit of agriculture and mechanic arts. . . Washington, Government printing office, 1907. 7 p. 8°. (59th Cong. 2d sess. Senate. Doc. 189)
307. **Russell, H. L.** The agricultural extension service of the Wisconsin college of agriculture. *In Conference for education in the South. Proceedings, 1910.* p. 210-15.
308. **Snyder, J. L.** Entrance requirements for land-grant colleges. *In Association of American agricultural colleges and experiment stations. Proceedings, 1909.* p. 65-68. (U. S. Department of agriculture. Office of experiment stations. Bulletin no. 228)  
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## AGRICULTURAL EDUCATION: FOREIGN COUNTRIES

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- "Part II deals with the planning of courses for elementary schools, Part III for secondary schools, and Part IV for higher institutions. There are very full and suggestive outlines of courses for each kind of school. The bibliography appended to each chapter is excellent, and there is also a selected bibliography as an appendix. The book lacks an index, which would seem to be inexcusable, none the less it is one of the most valuable books of the season."—*Journal of home economics*, October 1911, p. 418.
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