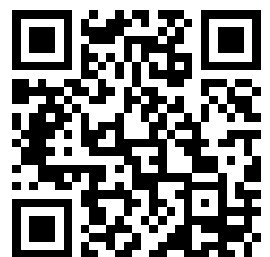

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U. S. DEPARTMENT of AGRICULTURE
BUREAU of AGRICULTURAL ECONOMICS

PROBLEMS DEALING WITH FARM MANAGEMENT
1903 - JUNE 30, 1940

M. A. CROSBY
M. R. COOPER
DELLA E. MERRICK

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1. UNITED STATES DEPARTMENT OF AGRICULTURE
2. Bureau of Agricultural Economics

PUBLICATIONS DEALING WITH FARM MANAGEMENT: 1903-JUNE 30, 1940

(Bulletins, processed reports, and articles carried in official publications,
prepared by federal farm management workers alone or in cooperation
with State and other agencies, and published in Washington or
the States)

COMPILED BY

M. A. Crosby, Assistant Agricultural Economist
M. R. Cooper, Senior Agricultural Economist
Della E. Merrick, Senior Clerk

Washington, D.C.
December 1940

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FOREWORD



The activities regarding farm management and costs now under way in the Bureau of Agricultural Economics are the outgrowth of work inaugurated in 1902 by the late Dr. W. J. Spillman, then Agrostologist in charge of the Division of Grass and Forage Plant Investigations, Bureau of Plant Industry. The Honorable James Wilson, Secretary of Agriculture, in his annual report dated November 29, 1902 (Yearbook 1902) stated:

**** I have approved the establishment within the Bureau (Plant Industry) of an office of Farm Management, which shall have for its object the bringing together in concrete form of all facts developed in the Bureau as a whole, sifting the results, and applying them in a practical way where they will do the most good. To enhance the value of this work general studies have been inaugurated in the matter of securing facts regarding the way in which the best paying farms are managed, and what are the relationships of surrounding conditions, such as proximity to markets, ways of leasing or controlling lands, soils, and climate, and the methods of farming followed.

Although certain farm management studies were begun in 1902 the formal organization of the Office of Farm Management did not become effective until July 1, 1905. Before that date certain bulletins, circulars, and yearbook separates, prepared under the direction of Dr. Spillman and relating to the work later carried on by the Office of Farm Management, were published as contributions of the Bureau of Plant Industry.

From July 1, 1905, to June 30, 1915, the Office of Farm Management remained a division of the Bureau of Plant Industry. On July 1, 1915, it was transferred to the Office of the Secretary as an independent unit. From the time of its inception until September 1, 1918, the Office of Farm Management was under the direction of Dr. Spillman. On March 8, 1919, Dr. H. C. Taylor was appointed chief, and July 1, of that year, the name was changed to the Office of Farm Management and Farm Economics. July 1, 1921, Dr. G. W. Forster was made Acting Chief of the Office of Farm Management and Farm Economics when Dr. Taylor was appointed Chief of the Bureau of Markets and Crop Estimates. July 1, 1922, the office was merged with the Bureau of Markets and Crop Estimates in forming the Bureau of Agricultural Economics in which the farm management work was carried on in the Division of Farm Management, H. R. Tolley, in charge, and in the Division of Cost of Production, R. H. Wilcox, in charge. At the close of the fiscal year ended June 30, 1924, these two divisions were consolidated as the Division of Farm Management and Costs with M. L. Wilson in charge. With the resignation of M. L. Wilson, July 16, 1926, H. R. Tolley became head of the Division and remained in that position until his appointment as Assistant Chief of the Bureau of Agricultural Economics, September 16, 1928. Dr. C. L. Holmes was appointed head of the work on March 1, 1929, which position he held until 1937 when he relinquished leadership because of ill health. Dr. Sherman E. Johnson was appointed to the position on October 1, 1937.

FARM MANAGEMENT PUBLICATIONS: 1903-JUNE 30, 1940

(Bulletins, processed reports, and articles carried in official publications, prepared by federal farm management workers, or in cooperation with State and other agencies, and published in Washington or the States)

Compiled by M. A. Crosby, Assistant Agricultural Economist,
M. R. Cooper, Senior Agricultural Economist,
and Della E. Merrick, Senior Clerk

CONTENTS

	Page:		Page
Published in 1903	2 :	Published in 1922	33
" " 1904	3 :	" " 1923	37
" " 1905	3 :	" " 1924	42
" " 1906	4 :	" " 1925	48
" " 1907	5 :	" " 1926	54
" " 1908	6 :	" " 1927	61
" " 1909	7 :	" " 1928	70
" " 1910	8 :	" " 1929	77
" " 1911	9 :	" " 1930	83
" " 1912	10 :	" " 1931	89
" " 1913	11 :	" " 1932	95
" " 1914	12 :	" " 1933	99
" " 1915	13 :	" " 1934	103
" " 1916	15 :	" " 1935	107
" " 1917	17 :	" " 1936	109
" " 1918	19 :	" " 1937	114
" " 1919	23 :	" " 1938	119
" " 1920	25 :	" " 1939	122
" " 1921	29 :	" " 1940 (thru June 30)	129

The publications listed herein are contributions that relate to farm management and farm economics from the time farm-management studies were inaugurated in the United States Department of Agriculture in January 1, 1902 to June 30, 1940. The publications issued by the Department are based (1) on studies made by the farm-management staff; (2) on studies made by the farm-management staff in cooperation with other specialists of the Bureau and of the Department; and (3) on studies made in cooperation with State and other institutions. The listed publications include those that were printed, or duplicated by other means, in Washington and in the cooperating States. The list is not complete, but contains the publications that are now available. Some can be obtained free; others can be bought as shown in the footnotes.

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Most of them can be consulted in the larger reference libraries. Requests for publications issued by a State should be addressed to the State; no attempt has been made to indicate the availability of the State publications.

The publications are listed by years, and according to series, such as Farmers' Bulletins, Department Bulletins, Department Circulars, Processed Reports, Yearbook articles and separates, State Experiment Stations and Extension Service publications, etc.

Each item listed was given a reference number in the right margin of the page. (These numbers will be used to prepare an index which will show each publication that contains certain types of information.)

PUBLISHED IN 1903

Bureau of Plant Industry Bulletins

- ** No. 38 - Forage Conditions and Problems in Eastern Washington, Eastern Oregon, Northeastern California, and Northwestern Nevada. David Griffiths. (1)

Yearbook of Agriculture

(Articles)

- Y. B, 1902 - Systems of Farm Management in the United States. W. J. Spillman. pp. 343-364. (Also published as Yearbook Separate **278.) (2)
- Y. B, 1902 - Hay, Pastures, and Forage Crops. W. J. Spillman. pp. 721-722. (3)

As of Jan. 1940. U.S.D.A. publications without an asterisk can be obtained on request from the Bureau of Agricultural Economics, United States Department of Agriculture. (This does not necessarily apply to Yearbooks of Agriculture.)

* Can be obtained only by purchase from the Superintendent of Documents, Government Printing Office, Washington, D. C. Remittance should be made by coupons, postal money order, express order, or New York draft. Postage stamps not accepted.

** Out of print.

PUBLISHED IN 1904

Bureau of Plant Industry Bulletins

- ** No. 57 - Methods Used for Controlling and Reclaiming Sand Dunes.
A. S. Hitchcock. (4)
- ** 59 - Pasture, Meadow, and Forage Crops in Nebraska.
T. L. Lyon and A. S. Hitchcock (5)
- ** 65 - Reclamation of Cape Cod Sand Dunes. J. M. Westgate. (6)
- ** 67 - Range Investigation in Arizona. David Griffiths. (7)

Yearbook of Agriculture

(Articles)

- Y.B. 1903 - A Model Farm. W. J. Spillman. pp. 363-370. (Also published as Yearbook Separate. **323 and Farmers' Bulletin No. 242. See item 16.) (8)

PUBLISHED IN 1905

Bureau of Plant Industry Bulletins

- ** No. 72 - Miscellaneous Papers: III. Extermination of Johnson Grass. W. J. Spillman. (9)
- ** 74 - The Prickly Pear and Other Cacti as Food for Stock.
David Griffiths. (10)
- ** 75 - Range Management in the State of Washington.
J. S. Cotton. (11)

Yearbook of Agriculture

(Articles)

- Y.B. 1904 - Opportunities in Agriculture. (Part III. General Farming. W. J. Spillman. pp. 181-190. Also published in Yearbook Separate **340.) (12)
- Y.B. 1904 - Grasses and Forage Plants. W. J. Spillman. pp. 587-588. (13)

PUBLISHED IN 1906

Bureau of Plant Industry Bulletins

- ** No. 94 - Farm Practice with Forage Crops in Western Oregon and Western Washington. Byron Hunter. (Also published as Farmers' Bulletin 271, and as Oregon Experiment Station Bulletin 91. See items 18 and 22.) (14)

Bureau of Animal Industry Bulletins

- ** No. 91 - Feeding Prickly Pear to Stock in Texas. David Griffiths. (15)

Farmers' Bulletins

- ** No. 242 - An Example of Model Farming. W. J. Spillman. (See item 8.) (16)
- ** 245 - Renovation of Worn-Out Soils. W. J. Spillman. (17)
- ** 271 - Forage-Crop Practices in Western Oregon and Western Washington. Byron Hunter. (See item 14.) (18)
- ** 272 - A Successful Hog and Seed-Corn Farm. W. J. Spillman. (19)

Yearbook of Agriculture, 1905
(Articles)

- Diversified Farming in The Cotton Belt; I. South Atlantic Coast. W. J. Spillman. pp. 193-200.
II. Alabama and Mississippi. M. A. Crosby. pp. 201-207.
III. Louisiana, Arkansas and Northeastern Texas. D. A. Brodie, pp. 207-212. IV. Texas. C. W. Warburton. pp. 212-218. (Also published as Yearbook Separate **377.) (20)
- Improvements in Farm Practice. W. J. Spillman. p. 628. (21)

State Publications of Cooperating Studies

Oregon - Experiment Station Bulletins

- No. 91 - Farm Practice with Forage Crops in Western Oregon and Western Washington. Byron Hunter. (See item 14.) (22)

PUBLISHED IN 1907

Bureau of Plant Industry Bulletins

- ** No. 102 - Miscellaneous Papers: I. Summary of Recent Investigations of the Value of Cacti as Stock Food. David Griffiths and R. F. Hare. II. A Successful Dairy Farm. L. G. Dodge. III. Planning a Cropping System. W. J. Spillman. (23)
- ** 111 - Miscellaneous Papers: IV. Forage Crops for Hogs in Kansas and Oklahoma. C. E. Quinn. (Also published as Farmers' Bulletin No. 331. See item 45.) (24)
- ** 116 - The Tuna as Food for Man. David Griffiths. (25)
- ** 117 - The Reseeding of Depleted Range and Native Pasture. David Griffiths. (26)

Bureau of Plant Industry Documents

- ** No. 290 - Model Plan for a Southern Farm. D. A. Brodie. (27)

Farmers' Bulletins

- ** No. 279 - A Method of Eradicating Johnson Grass. J. S. Cates and W. J. Spillman. (28)
- ** 280 - A Profitable Tenant Dairy Farm. Lyman Carrier. (29)
- ** 288 - Nonsaccharine Sorghums. C. W. Warburton. (30)
- ** 292 - Cost of Filling Silos. Lyman Carrier. (31)
- ** 294 - Farm Practice in the Columbia Basin Uplands. Byron Hunter. (32)
- ** 299 - Diversified Farming Under the Plantation System. D. A. Brodie and C. K. McClelland. (33)
- ** 300 - Some Important Grasses and Forage Plants for the Gulf Coast Region. S. M. Tracy. (34)
- ** 310 - A Successful Alabama Diversification Farm. M. A. Crosby, J. F. Duggar, and W. J. Spillman. (35)
- ** 312 - A Successful Southern Hay Farm. Harmon Benton. (36)

PUBLISHED IN 1907 - Continued

Yearbook of Agriculture, 1906.

(Articles)

Range Management. J. S. Cotton. pp.225-238.
(Also published as Yearbook Separate **419.) (37)

Progress in Farm Management in 1906. W. J. Spillman.
pp. 524-525. (38)

PUBLISHED IN 1908

Bureau of Plant Industry Bulletins

** No. 124 - The Prickly Pear as a Farm Crop. David Griffiths. (39)

** 127 - The Improvement of Mountain Meadows. J. S. Cotton (40)

Bureau of Plant Industry Documents

** No. 416 - The Wild Onion. J. S. Cates and H. R. Cox. (41)

Farmers' Bulletins

** No. 323 - Clover Farming on the Sandy Jack-Pine Lands of the
North. C. B. Smith. (42)

** 325 - Small Farms in the Corn Belt. J. A. Warren. (43)

** 326 - Building Up a Run-down Cotton Plantation.
D. A. Brodie. (44)

** 331 - Forage Crops for Hogs in Kansas and Oklahoma.
C. E. Quinn. (See item 24.) (45)

** 337 - Cropping Systems for New England Dairy Farms.
L. G. Dodge. (46)

Yearbook of Agriculture, 1907

(Articles)

Cropping Systems for Stock Farms. W. J. Spillman.
pp. 385-398. (Also published as Yearbook Separate
**456.) (47)

Improvements in Farm Practice. W. J. Spillman.
pp. 559-560. (48)

PUBLISHED IN 1909

Bureau of Plant Industry Bulletins

- ** No. 140 - The "Spineless" Prickly Pears. David Griffiths. (49)
- ** 165 - Application of Some of the Principles of Heredity to Plant Breeding. W. J. Spillman. (50)

Bureau of Plant Industry Documents

- ** No. 454 - Hints to Settlers on the North Platte Project, Nebraska. J. A. Warren. (51)
- ** 455 - Hints to Settlers on the Williston Project, North Dakota. J. C. McDowell. (52)
- ** 462 - Hints to Settlers on the Sun River Project, Montana. J. S. Cotton. (53)
- ** 495 - Hints to Settlers on the Umatilla Project, Oregon. Byron Hunter. (54)

Bureau of Plant Industry Circulars

- ** No. 22 - Farm Methods of Applying Land Plaster in Western Oregon and Western Washington. Byron Hunter. (55)
- ** 25 - The Cost of Clearing Logged-Off Land for Farming in the Pacific Northwest. Harry Thomson. (56)
- ** 28 - Clover-Seed Production in the Willamette Valley, Oregon. Byron Hunter. (57)
- ** 31 - Notes on the Number and Distribution of Native Legumes in Nebraska and Kansas. J. A. Warren. (58)

Farmers' Bulletins

- ** No. 355 - A Successful Poultry and Dairy Farm. W. J. Spillman. (59)
- ** 362 - Conditions Affecting the Value of Market Hay. H. B. McClure. (60)
- ** 364 - A Profitable Cotton Farm. C. L. Goodrich. (61)
- ** 365 - Farm Management in Northern Potato-Growing Sections. L. G. Dodge. (62)
- ** 368 - The Eradication of Bindweed or Wild Morning-Glory. H. R. Cox. (63)
- ** 370 - Replanning a Farm for Profit. C.B. Smith and J. W. Froy. (64)

PUBLISHED IN 1909 - Continued

Yearbook of Agriculture, 1908
(Articles)

Types of Farming in the United States, W. J. Spillman.
pp. 351-366. (Also published as Yearbook Separate **487.) (65)

State Publications of Cooperative Studies

Washington -- Experiment Station Bulletins

No. 88 - Part I. Lime as a Fertilizer, R. W. Thatcher.
Part II. Farm Practice in Applying Land Plaster in
Western Oregon and Western Washington.
Byron Hunter. (66)

PUBLISHED IN 1910

Bureau of Plant Industry Bulletins

** No. 170 - Traction Plowing. L. W. Ellis. (67)

** 177 - A Protected Stock Range in Arizona. David Griffiths. (68)

Bureau of Plant Industry Circulars

** No. 44 - Minor Articles of Farm Equipment. L. W. Ellis. (69)

** 45 - The Utilization of Pea Cannery Refuse for Forage.
M. A. Crosby. (70)

** 49 - Improvement of Pastures in Eastern New York and the
New England States. J. S. Cotton. (71)

** 60 - Suggestions to Settlers on the Sandy Soils of the
Columbia River Valley. Byron Hunter and S. O. Jayne. (72)

** 64 - Agricultural Conditions in Southern New York.
M. C. Burritt. (73)

** 69 - Ornamental Value of the Saltbushes. David Griffiths. (74)

** 70 - Additional Notes on the Number and Distribution of
Native Legumes in Nebraska and Kansas. J. A. Warren. (75)

Farmers' Bulletins

- ** No. 398 - Farm Practice in the Use of Commercial Fertilizers in the South Atlantic States. J. C. Beavers. (76)
- ** 406 - Soil Conservation. W. J. Spillman. (77)

Yearbook of Agriculture, 1909
(Articles)

- Farming as an Occupation for City-bred Men.
W. J. Spillman, pp. 239-248. (Also published as Yearbook Separate **509.) (78)

PUBLISHED IN 1911

Bureau of Plant Industry Bulletins

- ** No. 212 - A Study of Farm Equipment in Ohio. L. W. Ellis. (79)
- ** 215 - Agriculture in the Central Part of the Semiarid Portion of the Great Plains. J. A. Warren. (80)

Bureau of Plant Industry Circulars

- ** No. 75 - Agricultural Survey of four Townships in Southern New Hampshire. E. H. Thompson. (81)
- ** 84 - Suggested Cropping Systems for the Black Lands of Texas. Bonney Youngblood. (82)

Farmers' Bulletins

- ** No. 432 - How a City Family Managed a Farm. J. H. Arnold. (83)
- ** 437 - A System of Tenant Farming and Its Results. J. W. Froley and C. B. Smith. (84)
- ** 438 - Hog Houses. J. A. Warren. (85)
- ** 441 - Lespedeza, or Japan Clover. A. D. McNair and W.B. Mercier. (86)
- ** 454 - A Successful New York Farm. M. C. Burritt. (87)
- ** 462 - The Utilization of Logged-Off Land for Pasture in Western Oregon and Western Washington. Byron Hunter and Harry Thompson. (88)
- ** 464 - The Eradication of Quack-Grass. J. S. Cates. (89)
- ** 472 - Systems of Farming in Central New Jersey. G.A. Billings and J. C. Seavers. (90)

PUBLISHED IN 1911 - Continued

Office of Secretary Circulars

- ** No. 36 - Emergency Forage Crops. D. A. Brodie. (91)

Department Reports

- ** No. 96 - Soils of the Prairie Regions of Alabama and Mississippi and Their Use for Alfalfa; Part II. Alfalfa on the Houston Clay; Its Culture and Management. M. A. Crosby. (92)

State Publications of Cooperative Studies

Ohio - Experiment Station Bulletins

- No. 227 - Farm Equipment. L. W. Ellis. (93)

PUBLISHED IN 1912

Bureau of Plant Industry Bulletins

- ** No. 239 - Cost and Methods of Clearing Land in Western Washington. Harry Thompson. (94)
- ** 257 - The Weed Factor in the Cultivation of Corn. J. S. Cates and H. R. Cox. (95)
- ** 259 - What is Farm Management? W. J. Spillman. (96)
- ** 262 - Ornamental Cacti: Their Culture and Decorative Value. Charles Henry Thompson. (97)

Bureau of Plant Industry Circulars

- ** No. 94 - The Mangum Terrace in Its Relation to Efficient Management. J. S. Cates. (98)
- ** 104 - Special Contests for Corn-Club Work. O. H. Benson. (99)

Farmers' Bulletins

- ** No. 483 - The Thornless Prickly Pears. David Griffiths. (100)
- ** 491 - The Profitable Management of the Small Apple Orchard on the General Farm. M. C. Burritt. (101)
- ** 508 - Market Hay. H. B. McClure. (102)
- ** 511 - Farm Bookkeeping. E. H. Thomson. (103)

PUBLISHED IN 1912 - Continued

Yearbook of Agriculture, 1911
(Articles)

- Seasonal Distribution of Labor on the Farm. W. J. Spillman. pp. 269-284. (Also published as Yearbook Separate **567.) (104)
- Rotations in the Corn Belt. C. B. Smith. pp. 325-336. (Also published as Yearbook Separate **572.) (105)

PUBLISHED IN 1913

Bureau of Plant Industry Documents

- ** No. 803 - Organization and Instruction in Boys' Corn-Club Work. O. H. Benson. (106)
- ** 883 - Tomato Growing as Club Work in the North and West. L. C. Corbett. (107)
- ** 884 - Potato Growing as Club Work in the North and West. William Stuart. (108)

Bureau of Plant Industry Circulars

- ** No. 116 - Miscellaneous Papers: (D) The Artificial Curing of Alfalfa Hay. H. B. McClure. (109)
- ** 117 - Miscellaneous Papers: The Relation of Agricultural Extension Agencies to Farm Practices. C. B. Smith and K. H. Atwood. (110)
- ** 128 - Miscellaneous Papers: (A) Some Profitable and Unprofitable Farms in New Hampshire. F. E. Robertson and L. G. Dodge. (111)
- ** 130 - Miscellaneous Papers: A Simple and Economical Method of Burning Lime. J. H. Arnold and John E. Nichol. (112)
- ** 131 - Miscellaneous Papers: Measuring Hay in Ricks or Stacks. H. B. McClure, W. J. Spillman, and J. W. Froley. (113)
- ** 132 - Miscellaneous Papers: The Farmer's Income. W. J. Spillman. (114)

Farmers' Bulletins

- ** No. 519 - An Example of Intensive Farming in the Cotton Belt. M. A. Crosby. (115)
- ** 521 - Canning Tomatoes at Home and in Club Work. J. F. Breazcaale and O. H. Benson. (116)

PUBLISHED IN 1913 - Continued

Farmers' Bulletins - Continued

- ** No. 524 - Tile Drainage on the Farm. A. G. Smith. (117)
- ** 529 - Vetch Growing in the South Atlantic States.
A. G. Smith. (118)
- ** 545 - Controlling Canada Thistles. H. R. Cox. (119)
- ** 546 - How to Manage a Corn Crop in Kentucky and West
Virginia. J. H. Arnold. (120)
- ** 560 - The Agricultural Outlook for Meat Production. Future
Meat Supply of the United States. W. J. Spillman. (121)
- ** 561 - Bean Growing in Eastern Washington and Oregon and
Northern Idaho. Lee W. Fluharty. (Revised and published
as Farmers' Bulletin 907. See item 191.) (122)

Department Bulletins

- ** No. 3 - A Normal Days' Work for Various Farm Operations.
H. H. Mowry. (123)
- ** 29 - Crew Work, Costs and Returns in Commercial Orchardng
in West Virginia. J. H. Arnold. (124)
- ** 31 - Behavior Under Cultural Conditions of Species of Cacti
Known as Opuntia. David Griffiths. (125)
- ** 32 - An Example of Successful Farm Management in Southern
New York. M. C. Burritt and John H. Barron. (126)

State Publications of Cooperative Studies

Ohio - Experiment Station Bulletins

- No. 266 - Labor Cost of Producing Corn in Ohio. L. H. Goddard
and W. L. Elser. (127)

PUBLISHED IN 1914

Farmers' Bulletins

- ** No. 572 - A System of Farm Cost Accounting. C. E. Ladd. (128)
- ** 588 - Economical Cattle Feeding in the Corn Belt.
J. S. Cotton and W. F. Ward. (129)
- * 599 - Pasture and Grain Crops for Hogs in the Pacific North-
west. Byron Hunter. 5¢. (Also published as Department
Bulletin 68. See item 138.) (130)

PUBLISHED IN 1914 - Continued

Farmers' Bulletins - Continued

- ** No. 600 - An Outfit for Boring Taprooted Stumps for Blasting. Harry Thompson. (131)
- ** 610 - Wild Onion: Methods of Eradication. H. R. Cox. (132)
- * 614 - A Corn-Belt Farming System Which Saves Harvest Labor by Hogging Down Crops. J. A. Drake. 5¢. (133)
- ** 635 - What the Farm Contributes Directly to the Farmer's Living. W.C. Funk. (134)

Department Bulletins

- ** No. 41 - A Farm Management Survey of Three Representative Areas in Indiana, Illinois, and Iowa. E. H. Thomson and H. M. Dixon. (135)
- ** 49 - The Cost of Raising a Dairy Cow. C. Morris Bennett and Morton O. Cooper. (136)
- ** 50 - Possible Agricultural Development in Alaska. Levi Chubbuck. (137)
- ** 68 - Pasture and Grain Crops for Hogs in the Pacific Northwest. Byron Hunter. (See item 130.) (138)
- ** 91 - Cost and Method of Clearing Land in the Lake States. Harry Thompson and Earl D. Strait. (139)
- ** 117 - Profits in Farming on Irrigated Areas in Utah and Lake Valley. E. H. Thomson and H. M. Dixon. (140)
- ** 130 - Operating Costs of a Well-established New York Apple Orchard. G. H. Miller. (141)

Yearbook of Agriculture, 1913
(Articles)

- Factors of Efficiency in Farming. W. J. Spillman. pp. 93-108. (Also published as Yearbook Separate **617.) (142)

PUBLISHED IN 1915

Farmers' Bulletins

- No. 660 - Weeds: How to Control Them. H. R. Cox. (143)

PUBLISHED IN 1915 - Continued

Farmers' Bulletins - Continued

- ** No. 661 - A Method of Analyzing the Farm Business. E. H. Thomson and H. M. Dixon. (Revised and published as Farmers' Bulletin 1139. See item 298.) (144)
- ** 677 - Growing Hay in the South for Market. C. V. Piper, H. B. McClure, and Lyman Carrier. (145)
- ** 687 - Eradication of Ferns from Pasture Lands in the Eastern United States. H. R. Cox. (146)

Department Bulletins

- ** No. 174 - Farm Experience with the Tractor. Arnold P. Yerkes and H. H. Mowry. (147)
- ** 201 - Native Pasture Grasses of the United States. David Griffiths, George L. Bidwell, and Charles E. Goodrich. (148)
- ** 208 - Yields of Native Prickly Pear in Southern Texas. David Griffiths. (149)
- ** 211 - Factors Affecting Range Management in New Mexico. E. O. Wooton. (150)

Office of Secretary Circulars

- ** No. 53 - Formulae for Calculating Interest on Farm Equipment. W. J. Spillman. (151)
- ** 54 - A System of Pasturing Alfalfa in Salt River Valley, Ariz. R. W. Clothier. (152)

State Publications of Cooperative Studies

Iowa - Experiment Station Bulletins

- No. 159 - Farm Leases in Iowa. O. G. Lloyd, Sept. 1915. (Abridged edition, Dec. 1915.) (153)

Missouri - Experiment Station Bulletins

- No. 125 - The Cost of Production on Missouri Farms. O. R. Johnson and W. E. Foard. (154)

Washington - Experiment Station Bulletins

- No. 120 - First Annual Report, Bureau of Farm Development for the Year Ending December 31, 1914. Introduction by Ira D. Cardiff. Report by Byron Hunter. (155)

PUBLISHED IN 1915 - Continued

State Publications of Cooperative Studies - Continued

Washington - Cont'd. Experiment Station Popular Bulletins

No. 81 - An Efficient Alfalfa Ditcher. Lee M. Lampson and
Byron Hunter. (156)

89 - Control of Tumbling Mustard. Roy G. Adams and
Byron Hunter. (157)

West Virginia - Experiment Station Bulletins

No. 153 - An Agricultural Survey of Brooke County.
O. M. Johnson and A. J. Dadisman. (158)

PUBLISHED IN 1916

Farmers' Bulletins

** No. 716 - Management of Sandy-Land Farms in Northern Indiana and
Southern Michigan. J. A. Drake. (159)

** 719 - An Economic Study of the Farm Tractor in the Corn Belt.
Arnold P. Yerkes and L. M. Church. (160)

** 745 - Waste Land and Wasted Land on Farms. J. S. Ball. (161)

** 746 - The Farmer's Income. E. A. Goldenweiser. (162)

** 761 - Management of Muck-Land Farms in Northern Indiana and
Southern Michigan. H. R. Smalley. (163)

Department Bulletins

** No. 320 - Farm Practice in the Cultivation of Corn. H. R. Cates. (164)

** 321 - Cost of Fencing Farms in the North Central States.
H. N. Humphrey. (165)

** 337 - A Study of the Tenant System of Farming in the Yazoo-
Mississippi Delta. E. A. Boeger and E. A. Goldenweiser. (166)

** 338 - Machinery Cost of Farm Operations in Western New York.
H. H. Mowry. (167)

** 341 - Farm Management Practice of Chester County, Pennsylvania.
W. J. Spillman, H. M. Dixon, and G. A. Billings. (168)

** 367 - Carrying Capacity of Grazing Ranges in Southern Arizona.
E. O. Wooton. (169)

PUBLISHED IN 1916 - Continued

Department Bulletins - Continued

- ** No. 410 - Value to Farm Families of Food, Fuel, and Use of House.
W. C. Funk. (170)
- ** 411 - Systems of Renting Truck Farms in Southwestern New
Jersey, Howard A. Turner. (171)
- ** 412 - The Normal Days' Work of Farm Implements, Workmen, and
Crews in Western New York. H. H. Lowry. (172)
- ** 413 - Influence of Age on the Value of Dairy Cows and Farm
Work Horses. J. C. McDowell. (173)
- ** 423 - Labor Requirements of Dairy Farms as Influenced by
Milking Machines. Harold N. Humphrey. (174)
- ** 425 - Farming on the Cut-over Lands of Michigan, Wisconsin,
and Minnesota. J. C. McDowell and W. B. Walker. (175)

Office of Secretary Circulars

- ** No. 57 - The Influence of Relative Area in Intertilled and Other
Classes of Crops on Crop Yield. D. A. Brodie. (176)
- ** 67 - Measuring Hay in Ricks or Stacks. H. B. McClure and
W. J. Spillman. (177)

Farm Management Circulars

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Management Data. W. J. Spillman. (178)

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(Articles)

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PUBLISHED IN 1916 - Continued

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(Articles)

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West Virginia. O.M. Johnson and A. J. Dadisman. (185)

PUBLISHED IN 1917

Farmers' Bulletins

- ** No. 782 - Use of Diary for Farm Accounts. E. H. Thomson. (186)
- ** 812 - How Live Stock is Handled in the Blue-Grass Region
of Kentucky. J. H. Arnold. (187)
- ** 816 - Minor Articles of Farm Equipment. H. N. Humphrey and
A. P. Yerkes. (188)
- ** 838 - Harvesting Hay with the Sweep-Rake. (A Means by which
Eastern Hay Growers May Save Labor.) A. P. Yerkes and
H. B. McClure. (189)
- ** 877 - Human Food From an Acre of Staple Farm Products.
H. O. Cooper and W. J. Spillman. (190)
- ** 907 - Bean Growing in Eastern Washington and Oregon and
Northern Idaho. L. W. Fluharty and Byron Hunter.
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See item 617.) (191)

Department Bulletins

- ** No. 446 - The Cost of Producing Apples in the Wenatchee Valley,
Washington. G. H. Miller and S. M. Thomson. (192)
- ** 482 - Farming in the Bluegrass Region. J. H. Arnold and
Frank Montgomery. (193)

PUBLISHED IN 1917 - Continued

Department Bulletins - Continued

- ** No. 492 - An Economic Study of Farming in Sumter County, Georgia.
H. M. Dixon and H. W. Hawthorne. (194)
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S. M. Thomson and G. H. Miller. 10¢. (195)
- ** 501 - A Study in the Cost of Producing Milk on Four Dairy
Farms, Located in Wisconsin, Michigan, Pennsylvania,
and North Carolina. Morton O. Cooper, C. M. Bennett,
and L. M. Church. (196)
- ** 504 - The Theory of Correlation as Applied to Farm Survey
Data on Fattening Baby Beef. H. R. Tolley. (197)
- ** 511 - Farm Practice in the Cultivation of Cotton. H. R. Cates. (198)
- ** 518 - The Cost of Producing Apples in the Hood River Valley,
S. M. Thomson and G. H. Miller. (199)
- ** 528 - Seasonal Distribution of Farm Labor in Chester County,
Pa. George A. Billings. (200)
- ** 529 - Validity of the Survey Method of Research. W. J.
Spillman. (201)
- ** 548 - The Business of Ten Dairy Farms in the Bluegrass Region
of Kentucky. J. H. Arnold. (202)
- ** 560 - Cost of Keeping Farm Horses and Cost of Horse Labor.
M. R. Cooper. (203)
- ** 615 - The Economical Winter Feeding of Beef Cows in the Corn
Belt. J. S. Cotton and Edmund H. Thompson. (204)

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PUBLISHED IN 1917 - Continued

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(Articles)

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W. D. Nicholls. (210)

PUBLISHED IN 1918

Farmers' Bulletins

** No. 904 - Fire-Prevention and Fire Fighting on the Farm. H. R.
Tolley and A. P. Yerkes. (211)

** 905 - Ways of Making Southern Mountain Farms More Productive.
J. H. Arnold. (212)

** 924 - A Simple Way to Increase Crop Yields. H. A. Miller.
Revised, November, 1932. (213)

** 929 - The Place of Sheep on New England Farms. F. H. Branch. (214)

** 931 - Soy Beans in Systems of Farming in the Cotton Belt.
A. G. Smith. (215)

** 943 - Haymaking. H. B. McClure. (216)

** 956 - Curing Hay on Trucks. (A method by which a good
quality of hay may be cured during unfavorable
weather.) H. B. McClure. (217)

** 963 - Tractor Experience in Illinois. (A Study of the Farm
Tractor Under Corn Belt Conditions.) Arnold P. Yerkes
and L. M. Church. (218)

** 964 - Farm Household Accounts. W. C. Funk. 1918. (219)

** 974 - Clearing Land. Earl D. Strait. (220)

** 977 - Hay Caps. H. B. McClure. (221)

PUBLISHED IN 1918 - Continued

Farmers' Bulletins - Continued

- ** No. 978 - Handling Barnyard Manure in Eastern Pennsylvania.
D. A. Brodie. (222)
- * 981 - Farm Practices that Increase Crop Yields in Kentucky
and Tennessee. J. H. Arnold. 5¢. (223)
- * 985 - Systems of Hog Farming in the Southeastern States.
E. S. Haskell. (224)
- ** 986 - Farm Practices that Increase Crop Yields in the Gulf
Coast Region. M. A. Crosby. 5¢. (225)
- ** 987 - Labor Saving Practices in Haymaking. H. B. McClure. (226)
- ** 989 - Better Use of Man Labor on the Farm. H. R. Tolley and
A. P. Yerkes. (227)
- ** 991 - The Efficient Operation of Threshing Machines.
H. R. Tolley. (228)
- ** 992 - The Use of Machinery in Cutting Corn. H. R. Tolley. (229)
- * 1000 - Crop Systems for Arkansas. A. D. McNair. 5¢. (230)
- ** 1004 - The Gas Tractor in Eastern Farming. A. P. Yerkes and
L. M. Church. (231)
- ** 1008 - Saving Farm Labor by Harvesting Crops with Livestock.
J. A. Drake. (232)

Department Bulletins

- ** No. 578 - A Study of Hay-Making Crews and Labor Costs.
H. B. McClure. (233)
- ** 532 - Farm Management and Farm Profits on Irrigated Land in
the Provo Area (Utah Lake Valley). L. G. Connor. (234)
- ** 602 - Value of a Small Plot of Ground to the Laboring Man.
A Study of the Food Raised by Operatives in Southern
Cotton-Mill Towns. W. C. Funk. (235)
- ** 603 - A Study of Share-Rented Dairy Farms in Green County,
Wisconsin, and Kane County, Illinois. E. A. Boeger. (236)
- ** 614 - Cost of Producing Apples in Yakima Valley, Washington.
G. H. Miller and S. M. Thomson. (237)

Department Bulletins - Continued

- * No. 625 - Cropping Systems for the Moister Portions of Eastern Washington and Oregon, and Northern Idaho. Lee W. Fluharty. 5¢. (238)
- ** 626 - Pasture Land on Farms in the United States. E. A. Goldenweiser and J. S. Ball. (239)
- ** 627 - Cost of Harvesting Wheat by Different Methods. Arnold P. Yerkes and L. M. Church. (240)
- * 633 - Factors of Successful Farming Near Monett, Missouri. W. J. Spillman. 5¢. (241)
- ** 636 - Cost of Production of Apples in the Payette Valley, Idaho. S. M. Thomson and G. H. Miller. (242)
- ** 637 - A Method of Calculating Economical Balanced Rations. J. C. Rundles. (243)
- ** 641 - Farm Practice in the Production of Hay in Steuben County, N. Y., and Washington County, Pa. H. B. McClure. (244)
- ** 648 - A Farm Management Study in Brooks County, Georgia. E. S. Haskell. (245)
- ** 650 - Lease Contracts Used in Renting Farms on Shares. A Study of the Distribution of Investments, Expenses, and Incomes Between Landlord and Tenant. E. V. Wilcox. (246)
- ** 651 - A Farm-Management Study in Anderson County, S.C. A. G. Smith. (247)
- ** 654 - Farm Organization in the Irrigated Valleys of Southern Arizona. R. W. Clothier. (248)
- ** 659 - A Farm Management Study of Cotton Farms of Ellis County, Texas. Rex E. Willard. (249)
- ** 665 - Status of Farming in the Lower Rio Grande Irrigated District of Texas. Rex E. Willard. (250)
- ** 678 - Influence of a City on Farming. (A Study of Types of Farms and Their Organizations in Jefferson County, Ky.) J. H. Arnold and Frank Montgomery. (251)
- * 693 - Farm Practice in Growing Sugar Beets for Three Districts in Utah and Idaho 1914-15. L. A. Moorhouse, T. H. Summers, R. S. Washburn, and James W. Jones. 10¢. (252)

PUBLISHED IN 1918 - Continued

Department Bulletins - Continued

- ** No. 694 - A Study of Farm Management Problems in Lenawee County, Mich. H. M. Dixon and J. A. Drake. (253)
- ** 705 - Profitable Management of General Farms in the Willamette Valley, Oregon. Byron Hunter and S. O. Jayne. (254)
- ** 713 - A Study of Farming in Southwestern Kentucky. J. H. Arnold. (255)
- ** 716 - A Five-Year Farm Management Survey in Palmer Township, Washington County, Ohio, 1912-1916. H. W. Hawthorne. (256)
- ** 726 - Farm Practice in Growing Sugar Beets for Three Districts in Colorado, 1914-15. L. A. Moorhouse, R. S. Washburn, T. H. Summers, and S. B. Nuckols. (257)
- ** 728 - Certain Desert Plants as Emergency Stock Feed. E. O. Wooten. (258)
- ** 735 - Farm Practice in Growing Sugar Beets in the Billings Region of Montana. S. B. Nuckols and E. L. Currier. (259)

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** Part V. Section A. Cotton. O. C. Stine and O. E. Baker. (260)
- ** Report of the Acting Chief of the Office of Farm Management. E. H. Thomson. (261)

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(Articles)

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PUBLISHED IN 1918 - Continued

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- ** Cost of Producing Cotton - 1918. - (Based on 342 records. Also published as Department Bulletin 896. See item 309.) (265)

State Publications of Cooperative Studies

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W. D. Nicholls and J. B. Hutson. (266)

Utah - Experiment Station Bulletins

- No. 165 - Labor Costs and Seasonal Distribution of Labor on Irrigated Crops in Utah Valley.
L. G. Connor. (267)

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- No. 40 - (Series 1) - Increasing the Production of Wheat on Washington Dry Farms by Better Cultural Methods. Byron Hunter. (268)

PUBLISHED IN 1919

Farmers' Bulletins

- ** No. 1005 - Sweetclover on Corn Belt Farms. J. A. Drake and J. C. Rundles. (Superseded by Farmers' Bulletin 1653. See item 923.) (269)
- ** 1009 - Hay Stackers: How They May Be Used in the East and South to Save Labor. H. B. McClure. (Superseded by Farmers' Bulletin 1615. See item 807.) (270)
- ** 1013 - Practical Hints on Running a Gas Engine. A. P. Yerkes. (271)
- * 1015 - Producing Family and Farm Supplies on the Cotton Farm. C. L. Goodrich. 5¢. (272)
- * 1021 - Alfalfa on Corn Belt Farms. J. A. Drake, J. C. Rundles, and Ralph D. Jennings. 5¢. (273)
- ** 1023 - Machinery for Cutting Firewood. H. R. Tolley. (274)

PUBLISHED IN 1919 - Continued

Farmers' Bulletins - Continued

- ** No. 1035 - The Farm Tractor in the Dakotas. A. P. Yerkes and L. M. Church. (275)
- * 1042 - Saving Man Labor in Sugar-Beet Fields. L. A. Moorhouse and T. H. Summers. 5¢. (276)
- 1045 - Laying Out Fields for Tractor Plowing. H. R. Tolley. (Revised June 1926. C. D. Kinsman and L. A. Reynoldson.) (277)
- * 1047 - Dry Farming for Better Wheat Yields. The Columbia and Snake River Basins. Byron Hunter. 5¢. (Revised and issued as Farmers' Bulletin 1545. See item 619,) (278)
- ** 1049 - Baling Hay. H. B. McClure. (279)
- * 1051 - Sheep on Irrigated Farms in the Northwest. S.O. Jayne. 5¢. (280)

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PUBLISHED IN 1919 - Continued

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PUBLISHED IN 1920

Farmers' Bulletins

No. 1082 - Home Supplies Furnished by the Farm. W. C. Funk. (294)

1083 - Selecting a Farm. E. H. Thomson. (295)

PUBLISHED IN 1920 - Continued

Farmers' Bulletins - Continued

- ** No. 1093 - Influence of the Tractor on Use of Horses.
L. A. Reynoldson. (296)
- ** 1121 - Factors That Make for Success in Farming in the
South. C. L. Goodrich. (297)
- 1139 - A Method of Analyzing the Farm Business. H. M. Dixon
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- 1164 - The Farm Lease Contract. L. C. Gray and H. A. Turner. (299)
- ** 1182 - Farm Inventories. J. S. Ball. (300)

Department Bulletins

- ** No. 814 - The Standard Day's Work in Central Illinois.
(Performance of Implements and Crews as Indicated by
Reports from 600 Farms in a Typical Corn-Belt Area.)
H. R. Tolley and L. M. Church. (301)
- ** 840 - A System of Records for Local Farmers' Mutual Fire
Insurance Companies. V. N. Valgren. (302)
- ** 848 - An Economic Study of Small Farms Near Washington, D.C.
W. C. Funk. (303)
- ** 850 - Rent Contracts in Typical Counties of the Wheat Belt.
E. A. Boeger. (304)
- ** 851 - Cost of Producing Apples in Five Counties in Western
New York, 1910-1915. G. H. Miller. (305)
- ** 853 - The Organization and Management of Farms in Northwestern
Pennsylvania. Earl D. Strait and H. M. Dixon. (306)
- ** 873 - The Shrinkage of Market Hay. H. B. McClure. (307)
- ** 874 - Farm Land Values in Iowa. L. C. Gray and O. G. Lloyd. (308)
- ** 896 - The Cost of Producing Cotton. L. A. Moorhouse and
M. R. Cooper. (See item 265.) (309)
- ** 910 - Experience of Eastern Farmers with Motor Trucks.
H. R. Tolley and L. M. Church. (310)
- ** 912 - Hail Insurance on Farm Crops in the United States.
V. N. Valgren. (311)

PUBLISHED IN 1920 - Continued

Department Bulletins - Continued

- ** No. 920 - Farm Profits - Figures from the same farms for a series of years. Washington County, Ohio; Clinton County, Indiana; and Dane County, Wisconsin. H. M. Dixon and H. W. Hawthorne. (312)

Department Circulars

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(Articles)

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Processed Reports, U.S.D.A.

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- ** Cost of Production and Farm Business Analysis Survey on 229 Palouse Farms. Idaho and Washington, 1919. E. D. Strait. (321)

PUBLISHED IN 1920 - Continued

Processed Reports, U.S.D.A. - Continued

- ** A Farm Business Analysis of 136 Farms in Hillsboro County, New Hampshire. W. C. Funk and R. D. Jennings. (322)
- ** Cost of Producing Beef in Illinois. Winter 1918-19: 72 droves, 2,668 cattle. Winter 1919-20: 83 droves, 3,543 cattle. Winter 1919-20: Detailed Costs on 25 droves - 1,069 cattle. R. H. Wilcox and G. S. Klemmedson. (Also published as Technical Bulletin 23. See item 626.) (323)
- ** Cost of Producing Beef in Indiana. Winter 1918-19: 49 droves - 1,540 cattle. Winter 1919-20: 76 droves - 2,199 cattle. Winter 1919-20: Detailed Costs on 21 droves - 817 cattle. R. H. Wilcox. (Also published as Technical Bulletin 23. See item 626.) (324)
- ** Cost of Producing Beef in Iowa - Winter 1918-19: 81 droves - 3,996 cattle. Winter 1919-20: 87 droves - 3,165 cattle. Winter 1919-20: Detailed Cost on 26 droves - 1,129 cattle. G. S. Klemmedson. (Also published as Technical Bulletin 23. See item 626.) (325)
- ** Cost of Producing Beef in Missouri. Winter 1918-19: 50 droves - 3,473 cattle. Winter 1919-20: 75 droves - 3,415 cattle. Winter 1919-20: Detailed Costs on 27 droves - 2,076 cattle. R. H. Wilcox. (Also published as Technical Bulletin 23. See item 626.) (326)
- ** Cost of Producing Beef in Nebraska - Winter 1918-19: 70 droves - 2,293 cattle. Winter 1919-20: 103 droves - 3,041 cattle. Winter 1919-20: Detailed Costs on 21 droves - 795 cattle. R. H. Wilcox. (Also published as Technical Bulletin 23. See item 626.) (327)

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PUBLISHED IN 1920 - Continued

State Publications of Cooperative Studies - Continued

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W. D. Nicholls and F. W. Peck. (330)

Processed Reports

Investigations in the Cost of Producing
Tobacco in Kentucky. W. D. Nicholls and
F. W. Peck. (331)

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No. 1 - Preliminary Report, Farm Accounting Route,
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2 - Preliminary Report, Farm Accounting Route,
Cottonwood and Jackson Counties. (333)

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C. F. Sarle. (335)

PUBLISHED IN 1921

Farmers' Bulletins

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and W. C. Nason. (336)

** 1192 - Organization of Rural Community Buildings.
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** 1201 - Motor Trucks on Eastern Farms. H. R. Tolley and
L. M. Church. (338)

PUBLISHED IN 1921 - Continued

Department Bulletins

- * No. 917 - Farm Practice in Growing Field Crops in Three Sugar-Beet Districts of Colorado. S. B. Nuckols and T. H. Summers. 20¢. (339)
- ** 931 - Corn-Belt Farmers' Experience with Motor Trucks. H. R. Tolley and L. M. Church. (340)
- ** 941 - Farm Management in the Ozark Region of Missouri. H. M. Dixon and J. M. Purdom. (341)
- ** 943 - Cost of Producing Wheat. M. R. Cooper and R. S. Washburn. (See item 290.) (342)
- ** 961 - Standards of Labor on the Hill Farms of Louisiana. M. Bruce Oates and L. A. Reynoldson. (343)
- * 963 - Cost of Producing Sugar Beets in Utah and Idaho, 1918-19. L. A. Moorhouse and S. B. Nuckols. 10¢. (344)
- ** 968 - Buying Farms with Land-Bank Loans. L. C. Gray and Howard A. Turner. (345)
- * 984 - The National Influence of a Single Farm Community. Emily F. Hoag. 20¢. (346)
- ** 994 - Methods of Conducting Cost of Production and Farm Organization Studies. F. W. Peck. (347)
- ** 997 - The Cost of Utilization of Power on Farms where Tractors are Owned. 286 farms - Ohio, Indiana, Illinois - 1920. H. R. Tolley and L. A. Reynoldson. (348)
- ** 1000 - Labor and Material Requirements of Field Crops. L. A. Moorhouse and O. A. Juve. (See item 355.) (349)
- ** 1047 - Farm Mortgage Loans by Banks, Insurance Companies, and Other Agencies. V. N. Valgren and E. E. Engelbert. (350)

Department Circulars

- ** No. 197 - The Credit Association as an Agency for Rural Short-time Credit. V. N. Valgren and E. E. Engelbert. (351)

PUBLISHED in 1921 - Continued

Yearbook of Agriculture, 1920

(Articles)

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(Statistics)

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308. (Also published as Yearbook Separate *846. 5¢.) (353)

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L. A. Moorhouse and O. A. Juve. (Also published as
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** Labor and Material Requirements in Production of
Potatoes. (461 Records, 1919 Crop.) W. C. Funk.
(Also published as Department Bulletin 1188. See
item 447.) (356)

** The Cost of Producing Milk on 94 Farms in Northern
Maryland with the Relation of the Dairy Enterprise to
the Organization of the Farm Business. George A.
Billings and Henry A. Miller. (357)

** Cost of Producing Winter Wheat - 453 records -
Missouri, Nebraska, Kansas, and Oklahoma - 1920 Crop.
R. S. Washburn and L. A. Moorhouse. (Also published
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Survey 79 droves - 2,294 cattle. Detail Costs on 22
droves - 680 cattle. R. H. Wilcox. (Also published as
Technical Bulletin 23. See item 626.) (359)

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626.) (360)

PUBLISHED IN 1921 - Continued

Processed Reports, U.S.D.A. - Continued

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- ** Cost of Producing Apples and Farm Business Analysis for 48 Orchard Farms for Five Years, 1916-20. Shenandoah Valley, Winchester, Frederick County, Virginia. C. R. Swinson. (Also published as Department Bulletin 1455. See item 623.) (362)

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No. 123 - Preliminary Report on Farm Organization in Twin Falls and Latah Counties, Byron Hunter. (363)
- Iowa - Experiment Station Bulletins
No. 198 - Iowa Farm Management Survey, Blackhawk, Grundy, and Tama Counties. H. B. Munger. (364)
- Kentucky - Processed Reports
Cost of Producing Tobacco in Kentucky. (Season of 1920.) W. D. Nicholls. (365)
- Minnesota - Processed Reports
No. 3 - Preliminary Report, Farm Accounting Route, Steele County. (366)
4 - Preliminary Report, Farm Accounting Route, Cottonwood and Jackson Counties. (367)
- Montana - Experiment Station Circulars
No. 101 - Farm Management Studies - Lessons from Irrigated Farms in the Billings Region. E. L. Currier. (368)
- New Jersey - Experiment Station Bulletins
No. 353 - Costs, Profits and Practices of the Can-House Tomato Industry in New Jersey. Frank App and A. G. Waller. (369)

PUBLISHED IN 1921 - Continued

State Publications of Cooperative Studies - Continued

North Dakota - Experiment Station Bulletins

- No. 144 - Cost of Producing Wheat and Other Crops in North Dakota in 1920. Rex E. Willard, Hutzal Metzger, and Emma Skeem. (370)

PUBLISHED IN 1922

Farmers' Bulletins

- * No. 1272 - Renting Dairy Farms. Howard A. Turner. 5¢. (371)
- ** 1296 - Changes Effected by Tractors on Corn Belt Farms. L. A. Reynoldson and H. R. Tolley. (372)
- ** 1297 - Cost of Using Tractors on Corn Belt Farms. L. A. Reynoldson and H. R. Tolley. (373)
- * 1298 - Cost of Using Horses on Corn Belt Farms. M. R. Cooper and J. O. Williams. 5¢. (374)

Department Bulletins

- ** 1001 - The Relation of Land Tenure to the Use of the Arid Grazing Lands of the Southwestern States. E. O. Wooton. (375)
- ** 1020 - Harvest Labor Problems in the Wheat Belt. D. D. Leschier. (376)
- ** 1034 - Farm Management and Farm Organization in Sumter County, Georgia. H. W. Hawthorne. H. M. Dixon, and Frank Montgomery. (377)
- ** 1043 - Crop Insurance: Risks, Losses, and Principles of Protection. V. N. Valgren. (378)
- ** 1048 - Bank Loans to Farmers on Personal and Collateral Security. V. N. Valgren and E. E. Engelbert. (379)
- ** 1070 - Farm Management in Catawba County, North Carolina. J. M. Johnson and E. D. Strait. 5¢. (380)

PUBLISHED IN 1922 - Continued

Department Circulars

- ** No. 133 - Seedtime and Harvest. Oliver E. Baker, Charles F. Brooks, James R. Covert, and Reginald G. Hainsworth. (381)

Miscellaneous Printed Publications

- ** Report of Chief, Office of Farm Management and Farm Economics. H. C. Taylor. (382)

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(Articles)

Articles prepared under direction of interbureau committees. Sections referred to by page number are direct contributions of the Farm Management unit.

The Corn Crop. C. E. Leighty, C. W. Warburton, O. C. Stine, and O. E. Baker. "The Cost of Producing Corn," pp. 188-194. (Also published as Yearbook Separate **872.) (383)

Wheat Production and Marketing. C. R. Ball, C. E. Leighty, O. C. Stine, and O. E. Baker. "Cost of Production," pp. 111-120. (Also published as Yearbook Separate **873.) (384)

Our Beef Supply. E. W. Sheets, O. E. Baker, C. E. Gibbons, O. C. Stine, and R. H. Wilcox. "Cost of Beef Production," pp. 265-275. (Also published as Yearbook Separate **874.) (385)

The Cotton Situation. A. M. Agelasto, C. B. Doyle, G. S. Meloy, and O. C. Stine. "Cost of Production and Organization for Profitable Production," pp. 357-367. (Also published as Yearbook Separate *877. 15¢.) (386)

A Graphic Summary of American Agriculture. (Based largely on the Census of 1920.) O. E. Baker. pp. 407-506. (Also published as Yearbook Separate **878.) (387)

PUBLISHED IN 1922 - Continued

Yearbook of Agriculture, 1921 - Continued
(Statistics)

Cost Data for Farm Products. (Compiled from publications listed, from State publications, and from unpublished data.) pp. 804-845. (Also published as Yearbook Separate **876.)
O. A. Juve. (388)

- (a) Cost of Tractor Work. pp. 805-807.
- (b) Cost of Motor Truck Work. p. 807.
- (c) Labor and Material Required per Acre for Different Crops. pp. 808-816. (Also summarized in Department Bulletin 1,000. See item 349.)
- (d) Cost of Production for Different Crops. pp. 817-832.
- (e) Cost of Milk Production. pp. 833-834.
- (f) Yearly feed, bedding, man labor, and horse work requirements per cow in dairy herd. p. 835.
- (g) Feed, labor, and horse work used in producing 100 pounds of gain on beef cattle in the feed lot. pp. 836-837.
- (h) Costs of fattening cattle in sections of the Corn Belt. pp. 838-839.
- (i) Relative importance of each item of cost and average amounts of feed, labor, and horse work, for keeping a work horse. pp. 840-841.
- (j) Cost per head of fattening lambs by method of feeding. pp. 842-844.
- (k) Feed, labor, horse work, and cost of production per 100 pounds of pork. p. 845.

Processed Reports, U.S.D.A.

- ** Cost and Methods of Producing Beef in Iowa. (Winter 1920-21) 135 droves - 5,558 cattle. R. H. Wilcox. (Also published in Technical Bulletin 23. See item 626.) (389)
- ** Costs and Methods of Producing Beef in Missouri. (Winter 1920-21) 105 droves - 5,134 cattle. R. H. Wilcox. (Also published in Technical Bulletin 23. See item 626.) (390)
- ** Cost of Fattening Cattle in Nebraska. (Winter 1921-22) 122 droves - 4,222 cattle. R. H. Wilcox and R. D. Jennings. (Also published in Technical Bulletin 23. See item 626.) (391)

PUBLISHED IN 1922 - Continued

Processed Reports, U.S.D.A. - Continued

- ** Studies in the Economics of Beef Production, Chase County, Kansas. Progress Report for 1921-22. Eric Englund, Morris Evans, Homer J. Henny, and R. H. Wilcox. (Also published in Department Bulletin 1454. See item 558.) (392)
- ** Cost of Producing Pork in Sections of Iowa and Illinois, 769 Spring Litters - Year 1921. R. H. Wilcox and G. S. Klemmedson. (Also published in Department Bulletin 1381. See item 552.) (393)
- ** Tractors and Horses in the Winter Wheat Belt, 1921. H. R. Tolley and W. R. Humphries. (Also published in Department Bulletin 1202. See item 449.) (394)
- ** Farm Business Analysis and Cost of Producing Winter Wheat in Sherman County, Oregon, 1920. R. S. Washburn, H. D. Scudder, and R. B. Gunn. Also published in Department Bulletins 1446 and 1447. See item 622.) (395)
- ** Cost of Production and Farm Business Analysis Survey on 229 Farms for 1919, and 241 Farms for 1920, Palouse Area, Idaho and Washington. E. D. Strait. (See item 429.) (396)
- ** Incomes and Profits of 100 Fruit Farms, Polk County, Florida. W. C. Funk. (Also published in Department Bulletin 1435. See item 621.) (397)
- ** The Business Analysis of 100 Truck Farms, Hillsboro County, Florida. W. C. Funk. (Also published in Florida College of Agriculture Bulletin, Vol. XXI - No. 3. See item 578.) (398)
- ** Are Interest and Rent Fair Charges Against Cost of Production? (Quotations from economics and accounting literature collected by committee appointed at Chicago Meeting, December, 1922.) Committee, H. C. M. Case, Illinois, J. I. Falconer, Ohio, W. E. Grimes, Kansas, and O. A. Juve, Chairman, Washington, D.C. (399)

State Publications of Cooperative Studies

Georgia - College of Agriculture Bulletins

No. 250 - Cost of Producing Bright Tobacco in Georgia in 1920. E. C. Westbrook and DeForest Hungerford. (400)

No. 270 - Systems of Farming in the Piedmont Section of Georgia. E. C. Westbrook and DeForest Hungerford. (401)

PUBLISHED IN 1922 - Continued

State Publications of Cooperative Studies - Continued

- Idaho - Experiment Station Research Bulletins
No. 2 - Farm Costs and Relative Profitableness of Seven Crops, Twin Falls County, Idaho, 1919 and 1920. Byron Hunter and S. B. Nuckols. (402)
- Minnesota - Processed Reports
No. 5 - Preliminary Report, Farm Accounting Route, Steele County. (403)
6 - Preliminary Report, Farm Accounting Route, Cottonwood and Jackson Counties. (404)
- North Dakota - Experiment Station Bulletins
No. 165 - Cost of Production and Farm Organization on 126 Farms in North Dakota, 1921, and Other Economic Data. Rex E. Willard, Hutzel Metzger, and T. S. Thorfinson. (405)
- South Dakota - Processed Reports
Circular No. 7 - Progress Report on Farm Cost of Producing Crops and Livestock in South Dakota in 1922. C. G. Worsham. (406)
- Washington - Processed Reports
Farm Business Analysis of 175 Irrigated Farms in Yakima County, Washington, 1921. E. R. Johnson. (407)

PUBLISHED IN 1923

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- * 1289 - Distribution of Types of Farming in the United States. W. J. Spillman. 5¢. (408)
- ** 1295 - What Tractors and Horses Do On Corn Belt Farms. L. A. Reynoldson and H. R. Tolley. (409)

PUBLISHED IN 1923 - Continued

Farmers' Bulletins - Continued

- ** 1299 - Shall I Buy a Tractor? (for a Corn Belt Farm.) L. A. Reynoldson and H. R. Tolley, (410)
- ** 1300 - Choosing a Tractor. (for a Corn Belt Farm.) L. A. Reynoldson and H. R. Tolley. (411)

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- ** 1144 - Cost of Milk Production on 48 Wisconsin Farms. S. W. Mendum. 1923. (412)

Yearbook of Agriculture, 1922
(Articles)

Articles prepared under direction of interbureau committees. Sections referred to by page number are direct contributions of the Farm Management unit.

The Dairy Industry. C. W. Larson, L. M. Davis, O. A. Juve, O. C. Stine, A. E. Wight, A. J. Pistor, and C. F. Langworthy. "The Cost of Milk Production," pp. 344-351. (Also published as Yearbook Separate **879.) (413)

Hog Production and Marketing. E. Z. Russell, S. S. Buckley, O. E. Baker, C. E. Gibbons, R. H. Wilcox, H. W. Hawthorne, S. W. Mendum, O. C. Stine, G. K. Holmes, A. V. Swarthout, W. B. Bell, G. S. Jamieson, C. W. Warburton, and C. F. Langworthy. "Cost of Production of Hogs," pp. 220-227. (Also published as Yearbook Separate **882.) (414)

Oats, Barley, Rye, Rice, Grain Sorghums, Seed Flax, and Buckwheat. C. R. Ball, T. R. Stanton, H. V. Harlan, C. E. Leighty, C. E. Chambliss, A. C. Dillman, O. C. Stine, O. E. Baker, O. A. Juve, and W. J. Spillman. "Cost of Production," pp. 553-560. "Crop Position and Cropping Systems," pp. 560-568. (Also published as Yearbook Separate **891.) (415)

History and Status of Tobacco Culture. W. W. Garner, E. G. Moss, H. S. Yohe, F. B. Wilkinson, and O. C. Stine. "Cost of Production," pp. 425-431. (Also published as Yearbook Separate **885.) (416)

PUBLISHED IN 1923-- Continued

Yearbook of Agriculture, 1922 - Continued
(Statistics)

Farm Operations. (Compilation.) pp. 1045-1075. (Also published as Yearbook Separate **890. O. A. Juve.) (417)

- (a) Size of implements, power used, and daily duty per foot of width. p. 1045.
- (b) Acres done per 10-hour day in plowing, harrowing, and disking, with different sizes of implements and units of power. pp.1046-1049.
- (c) Normal day's work per 10-hour day in hauling and distributing manure and fertilizers. p. 1050.
- (d) Normal day's work per 10-hour day for various operations used in producing selected field and vegetable crops, apples, and berries. pp.1051-1073.
- (e) Normal day's work in hauling selected commodities to market with wagon, 1 man, and 2 horses, by distance hauled. p. 1073.
- (f) Normal day's work in building wire fence. p. 1074.
- (g) Hours worked per farm by operator, family workers, and hired workers, and hours exchanged with neighbors. p. 1074.
- (h) Length of day worked by proprietors and hired men. pp. 1076-1077.
- (i) Number of hours that different sized teams were used, and average hours worked per horse, by months and totals. p. 1078.

Processed Reports, U.S.D.A.

- ** The Costs and Methods in Carrying Cattle on the National Forest Ranges of Colorado in 1922. G. S. Klenmedson. (418)
- ** Cost of Fattening Cattle in Illinois. (Winter 1921-22) 106 droves - 4,202 Head. R. H. Wilcox and R. D. Jennings. (Also published in Technical Bulletin 23. See item 626.) (419)
- ** Costs of Fattening Cattle in Indiana. (Winter 1921-22) 117 droves - 4,877 Head. R. H. Wilcox and R. D. Jennings. (Also published in Technical Bulletin 23. See item 626.) (420)
- ** Cost of Fattening Cattle in Iowa. (Winter 1921-22) 117 droves - 4,717 cattle. R.D. Jennings. (Also published in Technical Bulletin 23. See item 626.) (421)
- ** Cost of Fattening Cattle in Missouri. (Winter 1921-22) 101 droves - 4,914 Head. R. H. Wilcox and R. D. Jennings. (Also published in Technical Bulletin 23. See item 626.) (422)

PUBLISHED IN 1923 - Continued

Processed Reports, U.S.D.A. - Continued

- ** Studies in the Economics of Beef Production, Chase County, Kansas. Preliminary Report Covering Two Years' Work. Grazing Seasons of 1921 and 1922. Winter Seasons of 1921-22 and 1922-23. W. E. Grimes, Morris Evans, Homer J. Henny, and R. H. Wilcox. (Also published in Department Bulletin 1454. See item 558.) (423)
- ** Cost of Producing Winter Wheat and Incomes from Wheat Farming, Sherman County, Oregon, for years 1920-21. R. S. Washburn, H. D. Scudder, and R. V. Gunn. (Also published in Department Bulletins 1446 and 1447. See item 622.) (424)
- ** Cost of Producing Virginia Dark Fire-Cured and Bright Tobacco, Charlotte and Adjacent Counties. - Crop Year 1922. A. P. Brodell. (Also published in Virginia Agricultural Experiment Station Bulletin 255. See item 718.) (425)
- ** Conference of Research Workers in the Field of Farm Organization and Cost of Production. Remarks of H. C. Taylor and Committee Reports. (426)
- ** Returns from Farming on 6,094 Farms, 1922. S. W. Mendum. (427)
- ** Return from Land in Plantations Worked by Croppers and Tenants 1921. C. O. Brannen. (428)
- ** Cost of Wheat Production and Incomes from Farming in Eastern Washington and Northern Idaho for the years, 1919, 1920 and 1921. M. R. Cooper. (See item 396.) (429)
- ** Farming in Northeastern Montana. L. A. Reynoldson. (430)
- ** The Progress of Farmers in Northeastern Montana for Two Years. L. A. Reynoldson. (431)

State Publications of Cooperative Studies

Delaware - Extension Bulletins

- the
No. 9 - A Study of Farm Business of the Lewis Community.
M. O. Pence. (432)

Georgia - College of Agriculture Bulletins

- No. 273 - Systems of Farming for South Georgia.
DeForest Hungerford and E. C. Westbrook. (433)

PUBLISHED IN 1923 - Continued

State Publications of Cooperative Studies - Continued

Idaho - Experiment Station Bulletins

- No. 132 - Preliminary Report, Business Analysis of 161
General Crop, 11 Dairy, and 10 Fruit Farms,
Twin Falls County, Idaho. 1921. Byron Hunter. (434)

Minnesota - Experiment Station Bulletins

- No. 205 - A Study of Farm Organization in Southwestern
Minnesota, George A. Pond and Jesse W. Tapp.
(Also published as Department Bulletin 1271.
See item 452.) (435)

Processed Reports

- No. 7 - - Preliminary Report, Farm Accounting Route,
Steele County, 1923. (436)

- 8 - Preliminary Report, Farm Accounting Route,
Cottonwood and Jackson Counties. (437)

Montana - Extension Bulletins

- No. 66 - Dry Farming in the North Central Montana
"Triangle." M. L. Wilson. (438)

New York - Cornell Experiment Station Bulletins

- No. 414 - Cost Accounts for Six Years on Some Successful
New York Farms. G. F. Warren, Van B. Hart,
W. I. Myers, R. L. Gillett, C. V. Noble, and
Others. (439)

- 421 - Economic Studies of Dairy Farming in New York:
I, "Condensary Milk Without Cash Crops."
E. G. Misner. (440)

Utah - Experiment Station Bulletins

- No. 184 - A Farm-Management Study of the Great Salt Lake
Valley. George Stewart. (441)

Wisconsin - Processed Reports

- Detailed Cost of Production Studies, Walworth
County, Wisconsin, 1921-1922. First Annual
Summary. (442)

PUBLISHED IN 1924

Farmers' Bulletins

- ** No. 1385 - Buying a Farm in an Undeveloped Region. B. Henderson. (443)
- ** 1421 - Successful Farming on 80-Acre Farms in Central Indiana. H. W. Hawthorne and Lynn Robertson. (444)
- ** 1440 - More Profit for the Wheat Farmers of Central Kansas. Jesse W. Tapp and W. E. Grimes. (445)

Department Bulletins

- ** No. 1181 - Labor Requirements of Arkansas Crops. A. D. McNair. (Also published in processed report and in Arkansas Extension Circular 173. See items 476 and 437.) (446)
- ** 1188 - Cost and Farm Practices in Producing Potatoes on 461 Farms in Minnesota, Wisconsin, Michigan, New York, and Maine for the Crop Year 1919. W.C.Funk. (See item 356.) (447)
- (**.) 1198 - Cost of Producing Wheat in Central Great Plains Region of the United States. R. S. Washburn. (See item 358.) (448)
- ** 1202 - Tractors and Horses in the Winter Wheat Belt, Oklahoma, Kansas, Nebraska. H. R. Tolley and W. R. Humphries. (See item 394.) (449)
- * 1236 - Farming the Logged-Off Uplands in Western Washington. E. R. Johnson and E. D. Strait. 10¢. (450)
- * 1258 - Farm Organization and Management in Clinton County, Indiana - A Business Analysis of 100 Farms in Forest and Johnson townships, for eight years, 1910, and 1913-1919. H. W. Hawthorne and H. M. Dixon. 10¢. (Also see items 479, 480, 481, 482, 483, 484, and 485.) (451)
- ** 1271 - A Study of Farm Organization in Southwestern Minnesota. George A. Pond and Jesse W. Tapp. (See item 435.) (452)
- * 1277 - Input as Related to Output in Farm Organization and Cost-of-Production Studies. H. R. Tolley, J. D. Black, and M. J. B. Ezekiel. 10¢. (453)

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- ** No. 307 - A Method of Testing Farm-Management and Cost-of-Production Data for Validity of Conclusions. H. R. Tolley and S. W. Mendum. (454)

PUBLISHED IN 1924 - Continued

Miscellaneous Circulars

* No. 32 - Practical Farm Economics. Henry C. Taylor, H. R. Tolley,
and J. W. Tapp. 40¢ (455)

Yearbook of Agriculture, 1923

(Articles)

The Wheat Situation. Prepared by several members of the Bureau of Agricultural Economics. The section, "Cost of Producing Wheat," pp. 122-126, was prepared by M. R. Cooper and R. S. Washburn of the Division of Cost of Production. ("The Wheat Situation" was published originally as "A Report to the President," by Henry C. Wallace, Secretary of Agriculture. The cost of production figures were published also in the Yearbook section on Agricultural Statistics. See item 463.) (456)

Articles prepared under the direction of interbureau committees. Sections referred to by page number are direct contributions of Farm Management and Cost of Production.

Sugar. E. W. Brandes, C. O. Townsend, P. A. Yoder, S. F. Sherwood, R. S. Washburn, G. B. L. Arner, O. E. Baker, F. C. Stevens, F. H. Chittenden, and C. F. Langworthy. "Practices and Labor Requirements in Growing and Transporting Sugar Cane." pp. 164-177 - summarized for publication by O. A. Juve, L. E. Long, and H. H. Wilcox. "Cost of Producing Sugar Beets." pp. 193-201. (Also published as Yearbook Separate #893. 20¢.) (457)

The Sheep Industry. D. A. Spencer, M. C. Hall, C. D. Marsh, J. S. Cotton, C. E. Gibbons, O. C. Stine, O. E. Baker, V. N. Valgren, R. D. Jennings, G. K. Holmes, W. B. Bell, and W. C. Barnes. "Cost of Producing Mutton and Wool." pp. 269-274. (Also published as Yearbook Separate 894.) (458)

Our Forage Resources. C. V. Piper, H. N. Vinall, R. A. Oakley, Lyman Carrier, O. E. Baker, J. S. Cotton, O. A. Juve, Nettie P. Bradshaw, E. W. Sheets, C. D. Marsh, W. C. Barnes, and W. B. Bell. "Economic Importance of Farm Pastures." pp. 406-413. (Also published as Yearbook Separate #895. 20¢.) (459)

PUBLISHED IN 1924 - Continued

Yearbook of Agriculture, 1923 - Continued
(Articles)

Farm Ownership and Tenancy. L. C. Gray, Charles L. Stewart, Howard A. Turner, J. T. Sanders, and W. J. Spillman. pp.507-600. (Also published as Yearbook Separate **897.) (460)

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Farmers' Incomes, 1922. (Prepared by S. W. Mendum.) p. 1161. (Also published in Yearbook Separate **900, Miscellaneous Agricultural Statistics; and with text, in Weather, Crops and Markets, Apr. 28, 1923.) (461)

Farmers' Incomes, Washington Co., Ohio, 1912-1922. (Prepared by H. W. Hawthorne.) pp.1162-1163. (Also published in Yearbook Separate **906, Miscellaneous Agriculture Statistics.) (462)

Cost of Producing Wheat. pp. 646-651. (Also published in "The Wheat Situation." See item 456.) (463)

Processed Reports, U.S.D.A.

** An Economic Study of the Costs and Methods of Range Cattle Production on Forty-One Ranches in Colorado, 1922. G. S. Klemmedson. (Also published in Colorado Agricultural Experiment Station Bulletins 327 and 342. See items 759 and 760.) (464)

** Costs and Methods in Carrying Cattle on National Forest Ranges in Colorado, Wyoming, Montana, Utah, and Idaho in 1923. G. S. Klemmedson. (465)

** Costs and Methods of Fattening Cattle in Illinois. (Winter 1922-23) 116 droves - 4,742 Head. G. W. Collier. (Also published in Technical Bulletin 23. See item 626.) (466)

** Costs and Methods of Fattening Cattle in Indiana. (Winter 1922-23) 93 droves - 3,900 cattle. R. H. Wilcox and R. D. Jennings. (Also published in Technical Bulletin 23. See item 626.) (467)

** Costs and Methods of Fattening Cattle in Iowa. (Winter 1922-23) 101 droves - 4,536 cattle. G. W. Collier. (Also published in Technical Bulletin 23. See item 626.) (468)

PUBLISHED IN 1924 - Continued

Processed Reports, U.S.D.A. - Continued

- ** Costs and Methods of Fattening Cattle in Missouri.
(Season 1922-23) 94 droves - 5,808 Head. R. H. Wilcox
and G. W. Collier. (Also published in Technical Bulletin
23. See item 626.) (469)
- ** Costs and Methods of Fattening Cattle in Nebraska.
(Winter 1922-23) 100 droves - 4,202 cattle. R. H. Wilcox
and G. W. Collier. (Also published in Technical Bulletin
23. See item 626.) (470)
- ** An Economic Study of the Costs and Methods of Range
Cattle Production in the Northeastern Range Area of
Texas, 1920, 1921, 1922. 15 Ranches - 38,511 cows and
their calves. V. V. Parr and G. S. Klemmerson. (Also
published in processed reports. See items 517, 546, and
1125.) (471)
- ** Practices Which Determine Profit or Loss in Milk Produc-
tion in Southeastern Pennsylvania. Mordecai Ezekiel.
(Also published in Department Bulletin 1400. See item
554.) (472)
- ** Farm Management and Cost Investigations in Anderson
County, South Carolina - 1922. Ward C. Jensen. (Also
published in South Carolina Bulletin 221. See item 497.) (473)
- ** Detailed Farm Records and Accounts, Objectives and Methods.
(Prepared in the Bureau of Agricultural Economics after
a conference held December 23, 1923 to January 2, 1924
between representatives of the Bureau and several of the
State Colleges of Agriculture.) (474)
- ** The Progress of Farmers who have settled in Southeastern
Montana. L. A. Reynoldson. (475)
- ** Labor Requirements of Arkansas Crops. A. D. McNair.
(Also see items 446 and 487.) (476)
- ** Cost of Producing Virginia Dark Fire-Cured and Bright
Tobacco - Charlotte and Adjacent Counties - Crop Year
1923. A. P. Brodell. (Also published in Virginia Agricul-
tural Experiment Station Bulletin 255. See item 718.) (477)
- ** Organization of Farms in Western South Dakota and Progress
of Farmers Who Have Settled in the Area. E. R. Johnson
and C. G. Worsham. (478)

PUBLISHED IN 1924 - Continued

Processed Reports, U.S.D.A. - Continued

Source Material from the Clinton County, Indiana, Farm Business Survey - H. W. Hawthorne and H. M. Dixon. (See item 451.)

Section I - Tenure, Acreages, and Yields on Each of 100 Farms in Clinton County, Indiana, 1910 and 1913 to 1919. (Published in 1923.) (479)

Section II - Livestock and Labor on Each of 100 Farms in Clinton County, Indiana, 1910 and 1913 to 1919. (Published in 1923.) (480)

Section III - Capital on Each of 100 Farms in Clinton County, Indiana, 1910 and 1913 to 1919. (431)

Section IV - Receipts on Each of 100 farms in Clinton County, Indiana, 1910 and 1913 to 1919. (482)

Section V - Expenses on Each of 100 Farms in Clinton County, Indiana, 1910 and 1913 to 1919. (483)

Section VI - Farm Income on Each of 100 Farms in Clinton County, Indiana, 1910 and 1913 to 1919. (434)

** Facts from the Farm Business Analysis of 100 Farms in Clinton County, Indiana, for 8 Years, 1910 and 1913 to 1919. H. W. Hawthorne. See item 451. (435)

** Production, Consumption, and Marketing of Farm Products, Cumberland County, North Carolina. Collin McLaurin. R. J. Saville, H. I. Richards, and H. T. Crosby. (482)

State Publications of Cooperative Studies

Arkansas - Extension Circulars

No.173 - Labor Requirements of Arkansas Crops. A. D. McNair. (also see items 446 and 476.) (487)

PUBLISHED IN 1924 - Continued

State Publications of Cooperative Studies - Continued

Colorado - Processed Reports

The Cost of Growing Sugar Beets in 1922 and 1923,
Weld County, Colorado. Hazen B. Pingrey. 1/
(Also published in Experiment Station Bulletin
353. See item 829.) (488)

Illinois - Processed Reports

Cost Accounting Results - Summary of 18 Knox
and Warren County Farms for 1923. H. C. M. Case
and C. A. Bennen. 1/ (489)

Kentucky - Experiment Station Bulletin

No. 255 - Strawberries and Farm Profits in Western
Kentucky. J. B. Hutson. (490)

Minnesota - Processed Reports

No. 9 - Preliminary Report, Farm Accounting Route,
Steele County. (491)

10 - Preliminary Report, Farm Accounting Route,
Cottonwood and Jackson Counties. (492)

Montana - Extension Bulletins

No. 71 - Reducing the Cost of Montana's Dry Land
Wheat Harvest. M. L. Wilson and H. E.
Murdock. (493)

New York - Cornell Experiment Station Bulletins

No. 433 - Economic Studies of Dairy Farming in New
York: II, Grade A Milk With and Without
Cash Crops. E. G. Hisner. (494)

North Dakota - Experiment Station Bulletins

No. 180 - An Economic Study of Farming in Southwestern
North Dakota. Rex E. Willard and L. A.
Reynoldson. (495)

1/ Date of publication not given.

PUBLISHED IN 1924 - Continued

State Publications of Cooperative Studies - Continued

Pennsylvania - Experiment Station Bulletins

- No. 184 - Adjusting Production to Meet Home Market Demands in Blair County, Pennsylvania. R. Bruce Dunlap, Burke H. Critchfield, and M. V. Carroll. (496)

South Carolina - Experiment Station Bulletins

- No. 221 - Farm Organization and Cost of Production on Cotton Farms in Anderson County, South Carolina. Ward C. Jensen. (See item 473.) (497)

Washington - Processed Reports

- The Economics of Poultry Farming in Western Washington. George Severance and E. R. Johnson. (Also published in Experiment Station Bulletin No. 216. See item 721.) (498)

West Virginia - Experiment Station Bulletins

- No. 188 - Adjusting Agricultural Production and Distribution in South Central West Virginia to Meet Home Market Demands. W. W. Armentrout. H. T. Crosby, and H. I. Richards. (499)

PUBLISHED IN 1925

Farmers' Bulletins

- ** 1463 - Successful Farming on 160-Acre Farms in Central Indiana. Lynn Robertson and H. W. Hawthorne. (500)

Department Bulletins

- ** 1292 - Field and Crop Labor on Georgia Farms (Coastal Plain Area.) L. A. Reynoldson. (501)
- * 1296 - A Study of Farm Organization in Central Kansas. W. E. Grimes, J. A. Hoages, R. D. Nichols, and Jesse W. Tapp. 1925. 15¢. (502)

PUBLISHED IN 1925 - Continued

Department Bulletins - Continued

- ** No. 1338 - The Family Living from the Farm: Data from 30 Farming Localities in 21 States for the Years 1918 to 1922. H. W. Hawthorne. (503)
- ** 1348 - An Appraisal of Power Used on Farms in the United States. C. D. Kinsman. (504)

Department Circulars

- ** No. 340 - Cost of Producing Field Crops, 1923. M. R. Cooper and C. R. Hawley. (505)

Yearbook of Agriculture, 1924

(Articles)

Articles prepared under direction of interbureau committees. Sections referred to by page numbers are direct contributions of the Division of Farm Management and Costs.

Hay, C. V. Piper, R. A. Oakley, H. N. Vinall, A. J. Pieters, W. J. Morse, W. J. Spillman, O. C. Stine, J. S. Cotton, G. A. Collier, M. R. Cooper, E. C. Parker, E. W. Sheets, and A. T. Semple. "Cost of Producing Hay." pp. 366-376. (Also published as Yearbook Separate **916.) (506)

The Poultry Industry. M. A. Jull, A. R. Lee, H. Bunyea, R. R. Slocum, D. Jackson, S. W. Mendum, C. F. Langworthy, and W. L. McAtee. "The Feed Cost of Raising Chickens." pp. 395-396. "The Feed Cost of Egg Production." pp. 396-405. "The Feed Cost of Fattening Chickens." pp. 405-407. (Also published as Yearbook Separate *917. 20¢.) (507)

(Statistics)

Farmers' Incomes, 1922 and 1923. (Prepared by S. W. Mendum.) pp. 1131-1132. (Also published in Yearbook Separate **912, Miscellaneous Agriculture Statistics; and with text, in Crops and Markets, July, 1924.) (508)

Yearbook of Agriculture, 1924 - Continued
(Statistics)

Cost of Production (Wheat, Corn, Oats, Potatoes, Cotton) for 1923 with Comparisons for 1922 for Corn, Oats, and Wheat. (Prepared by M. R. Cooper.) pp.1133-1143. (Also published in Yearbook Separate **912, Miscellaneous Agricultural Statistics. The 1923 data are also published in less detail and with text, in Crops and Markets, June 1924; and the 1922 Costs for Wheat, Corn, and Oats, are published in detail and with text in Weather, Crops, and Markets, Sept. 1, 1923. (509)

Processed Reports, U.S.D.A.

- ** An Organization System for Farms in Northeastern Montana. L. A. Reynoldson. (510)
- ** Effect of the Agricultural Outlook for 1925 on the Organization System for Farms in Northeastern Montana. L. A. Reynoldson. (511)
- ** Effect of the Agricultural Outlook for 1925 on the Organization System for Farms in Southeastern Montana. L. A. Reynoldson. (512)
- ** An Organization System for Farms in Southeastern Montana. L. A. Reynoldson. (513)
- ** What Makes Hog Prices. G. C. Haas and H. J. B. Ezekiel. (514)
- ** Cost of Producing Pork in Indiana, 1922, 1923, and 1924. Oscar Steanson and G. E. Young. (515)
- ** Costs and Methods of Producing Hogs. Humboldt County, Iowa, Spring Pigs, 1922, 1923, and 1924. Oscar Steanson and Ernest R. Moburg. (516)
- ** An Economic Study of the Costs and Methods of Range Cattle Production in North Central Texas. 15 Ranches - 1920, 1921, 1922. 40 Ranches - 1923, 65,458 cows and their calves. V. V. Parr and G. S. Klemmedson. (See items 471, 546, and 1135.) (517)
- ** Economic Surveys in Areas Surrounding Growing Cities - Objectives and Methods. E. H. Critchfield and H. I. Richards. (518)

Processed Reports, U.S.D.A - Continued

- ** Good Farm Organization in the Alfalfa and Potato Areas of the Yakima Valley, Washington. E. R. Johnson and S. B. Nuckols. (Also published in Department Bulletin 1388. See item 553.) (519)
- ** The Long-Time Outlook for the Sheep Industry. Mordecai Ezekiel. (520)
- ** Cost of Producing Cotton in Fifteen Selected Areas, 1923. Lewis E. Long and C. R. Swinson. (521)
- ** Data on the Swine Industry. Mordecai Ezekiel. (522)
- ** Suggestions for Office Workers in Farm Records and Accounts. (523)
- ** Suggestions for Route Men in Detailed Farm Records and Accounts. (524)

State Publications of Cooperative Studies

Arkansas - Processed Reports

Standard Costs in the Production of Arkansas Crops. A. D. McNair. (525)

Colorado - Processed Reports

Cost of Producing Crops and Returns Per Acre, 1924. Weld County, Colorado. R. T. Burdick. 1/ (Also published in Colorado Experiment Station Bulletin 353. See item 329.) (526)

An Economic Study of the Costs and Methods of Ranch Cattle Production on Fifteen Plains Ranches in Colorado, 1924. G. S. Klemedson and Martin Reinholdt. (Also published in Experiment Station Bulletin 327. See item 759.) (527)

Delaware - Extension Bulletins

No. 10 - Suggestions for Better Farming in the Seaford Community. M. C. Pence and H. W. Hawthorne. (528)

1/ Date of publication not given.

PUBLISHED IN 1925 - Continued

State Publications of Cooperative Studies - Continued

Georgia - College of Agriculture Bulletins

- No. 304 - An Agricultural Survey of Central Georgia.
M. C. Cay and H. T. Crosby. (529)

Illinois - Processed Reports

- Cost of Producing Farm Products on 18 Farms
in Knox and Warren Counties, 1924. H.C.M.
Case and C. A. Bonnen. 1/ (530)

Indiana - Experiment Station Bulletins

- No. 295 - The Production and Marketing of Farm
Products in Wayne County, Indiana.
M. H. Overton and Paul K. Edwards. (531)

Kentucky - Experiment Station Bulletins

- No. 259 - Farming with Bluegrass. J. B. Hutson
and E. L. Langsford. (532)

Minnesota - Processed Reports

- No. 11 - Cost of Crop Production, Pine County. (533)
12 - Preliminary Report, Farm Accounting
Route, Pine County. (534)

Mississippi - Experiment Station Bulletins

- No. 228 - Cost of Production Route in Choctaw
County, Mississippi. J. N. Lipscomb
and H. A. Byrd. (535)

Montana - Extension Bulletins

- No. 70 - Big Teams in Montana. M. L. Wilson. (536)

Nebraska - Processed Reports

- Preliminary Report of Range Cattle
Survey in Sandhill Area of Nebraska. 1/
(Also published in Nebraska Bulletin 215.
See item 791.) (537)

1/ Date of publication not given.

PUBLISHED IN 1925 - Continued

State Publications of Cooperative Studies - Continued

New Hampshire - Experiment Station Bulletins

- No. 217 - Adjusting Farm Production in Cheshire County, N.H., to Market Demands.
H. I. Richards and H. A. Rollins. (538)

New Jersey - Experiment Station Bulletins

- No. 416 - Agricultural Production and Marketing in Atlantic County, New Jersey. W. C. Funk, A. G. Waller, Arthur R. Eldred and Henry Keller, Jr. (539)

New York - Cornell Experiment Station Bulletins

- No. 438 - Economic Studies of Dairy Farming in New York: III, Grade B Milk with Alfalfa Roughage. E. C. Misner. (540)
- 441 - Economic Studies of Dairy Farming in New York: IV, Grade B Milk with Cash Crops and Mixed Hay Roughage, Crop Year 1921. E. G. Misner. (541)
- 442 - Economic Studies of Dairy Farming in New York: V, Cheese-Factory Milk. E. G. Misner. (542)

North Dakota - Experiment Station Bulletins

- No. 186 - A Survey of Sheep Production of 200 Farms in Northeastern North Dakota and Northwestern Minnesota and the General Sheep Situation. R. D. Jennings. (543)

Pennsylvania - Experiment Station Bulletins

- No. 198 - Agricultural Production and Marketing in Lebanon County, Pennsylvania. A. C. Berger, P. R. Taylor, B. H. Critchfield, and R. S. Kifer. (544)

South Dakota - Processed Reports

- The Cost of Producing Farm Products on 20 Farms in Brown County. C. A. Bonnen. (545)

PUBLISHED IN 1925 - Continued

State Publications of Cooperative Studies - Continued

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An Economic Study of the Costs and Methods
of Range Cattle Production in North Central
Texas, 1923. V. V. Parr and G. S. Klenmedson.
(See items 471, 517 and 1125.) (54c)

Vermont - Experiment Station Bulletins

No. 250 - A Study in Vermont Dairy Farming.
J. A. Hitchcock. (547)

Virginia - Experiment Station Bulletins

No. 240 - The Agricultural Situation in Roanoke and
Its Trade Territory. J. J. Vernon and
H. I. Richards. (543)

241 - Causes of Profit and Loss on Virginia
Tobacco Farms. J. J. Vernon and
M. J. B. Ezekiel. (549)

Extension Bulletins

No. 96 - Making Virginia Tobacco Farms Profitable.
A. P. Brodell and C. C. Taylor. (550)

Washington - Experiment Station Bulletins

No. 192 - A Review of the Agriculture of the Big Bend
Country. Byron Hunter, George Severance,
and R. M. Miller. (551)

PUBLISHED IN 1926

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- ** No. 1381 - Cost of Producing Hogs in Iowa and Illinois; years 1921-22.
Oscar Steanson and K. H. Wilcox. (See item 393.) (552)
- * 1388 - Farm Management Problems on Irrigated Farms in Hay and
Potato Areas of the Yakima Valley, Washington. E. R.
Johnson and S. B. Nuckols. 15¢. (See item 519.) (553)
- ** 1400 - Factors Affecting Farmers' Earnings in Southeastern
Pennsylvania. Mordecai Ezekiel. (See item 472.) (554)

PUBLISHED IN 1926 - Continued

Department Bulletins - Continued

- * No. 1421 - An Economic Study of Irrigated Farming in Twin Falls County, Idaho. Byron Hunter and Samuel B. Nuckols. 154. (555)
- 1440 - Factors Affecting the Price of Hogs. G. C. Haas and Mordecai Ezekiel. (556)
- ** 1447 - Cost of Using Horses, Tractors, and Combines on Wheat Farms in Sherman County, Oregon. R. S. Washburn and H. D. Scudder. (557)
- ** 1454 - Factors in the Cost of Producing Beef in the Flint Hills Section of Kansas. R. H. Wilcox, W. E. Grimes, Morris Evans, and H. J. Henney. (See items 392 and 423.) (558)

Yearbook of Agriculture, 1925

(Articles)

Relation of The Fruit and Vegetable Industry to Other Farm Enterprises. L. C. Corbett, W. R. Beattie, and H. R. Tolley. pp.125-131. (559)

(Statistics)

Farm Business Surveys, 1907-1924. (Compiled by H. W. Hawthorne.) pp.1285-1311. (Also published in Yearbook Separate **925, Farm Management and Cost Statistics.) (560)

Cost of Production (Wheat, Corn, Oats, Potatoes, and Cotton) for 1924, With Comparisons for the 2 preceding years for Wheat, Corn, and Oats, and for the preceding year for potatoes. (Prepared by M. R. Cooper.) pp.1326-1340. (Also published in Yearbook Separate **925, Farm Management and Cost Statistics; and in less detail, with text, in Crops and Markets, June, 1925.) (561)

Farm Returns, 1923 and 1924. (Prepared by S. W. Mennum.) pp. 1342-1343. (Also published in Yearbook Separate **925, Farm Management and Cost Statistics; and with text in Crops and Markets, June, 1925.) (562)

Family Living From the Farm, 1918-1922. (Compiled by H. W. Hawthorne.) pp. 1352-1354. (Also published in Yearbook Separate **925, Farm Management and Cost Statistics.) (563)

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- ** An Economic Study of the Costs and Methods of Range Cattle Production on Forty-One Ranches in Plains and Mountain Areas of Colorado, 1923. G. S. Klemmedson, Martin Reinholt, and V. V. Parr. (Also published in Colorado Agricultural Experiment Station Bulletins 327 and 342. (See items 759 and 760.) (564)
- ** Costs and Methods of Carrying Cattle on National Forest Ranges in Colorado, Wyoming, Montana, Utah, Idaho, Oregon, Washington, California, and South Dakota, 1924. G. S. Klemmedson. (565)
- ** The Commercial Fresh Peach Industry in the United States. Part I. Producing Areas, Competition, Distribution, Marketing, and Prices. J. W. Park and Carl R. Swinson. (566)
- Appendix of Tables to the Commercial Fresh Peach Industry in the United States - Part II. (Cost of Developing Orchards and Cost of Producing Peaches.) A. P. Brodell and R. S. Washburn. (567)
- ** The Corn Picker in the Dakotas. L. A. Reynoldson and M. B. Johnson. (568)
- ** Statistics of the Dairy Industry with Special Reference to the Eleven Western States. Byron Hunter. (569)
- ** Factors Affecting Returns from the Dairy Enterprise in the Shenandoah Valley. Mordecai Ezekiel and J. J. Vernon. (Also published in Virginia Agricultural Experiment Station Bulletin 257. See item 719.) (570)
- ** Findings of the Peach Survey in Georgia. M. R. Cooper. (Also published in Department Circular 420. See item 625.) (571)
- Tables for each of 26 States giving the number of peach trees classified by age and variety in commercial orchards, with details for principal counties or districts. Summary of the number of peach trees of each age in commercial orchards reported, with details for each State, also published in Crops and Markets, June 1926. Survey was made in the fall and winter of 1925-26 by the Divisions of Farm Management and Costs and Crop and Livestock Estimates, in cooperation with State Colleges, State departments of Agriculture and other local Agencies. (572)

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- No. 207 - Production Costs and Market Distribution of Arkansas Peaches. C. O. Brannon. (573)

State Publications of Cooperative Studies - Continued

Iowa - Processed Reports

Iowa County Cost Route - 1925 1/

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| No. 1 - Suggestions to Iowa County Farm Cost Route Cooperators. | (581) |
| 2 - The Hog Enterprise. | (582) |
| 3 - The Cattle Enterprise. | (583) |
| 4 - The Poultry Enterprise. | (584) |
| 5 - The Corn Enterprise. | (585) |
| 6 - Oats, Barley, Wheat. | (586) |
| 7 - Forage Crops. | (587) |
| 8 - Expenses in Producing Silage. | (588) |
| 9 - Expenses on Horses and Tractors. | (589) |
| 10 - Equipment Expense. | (590) |
| 11 - Expense on Labor. | (591) |

Kansas - Processed Reports

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| Cost of Producing One Acre of Oats, Jackson County, Kansas, and McPherson County, Kansas, 1920-1924.
J. A. Hodges. | (592) |
| Detailed Cost of Production Studies, Poultry Production Part 1, Bourbon County, Kansas, 1925. W. E. Grimes, J. A. Hodges, and R. D. Nichols. | (593) |
| Detailed Cost of Production Studies, Report on Dairying, Bourbon County, Kansas, 1925. W. E. Grimes, J. A. Hodges, and R. D. Nichols. | (594) |

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| No. 274 - Man Labor, Horse Work, and Materials Used in Producing Crops in Christian County. J. B. Hutson and W. G. Finn. | (595) |
| 275 - A Study of the Cost of Producing Tobacco in Kentucky. W. D. Nicholls. | (596) |

PUBLISHED IN 1926 - Continued

State Publications of Cooperative Studies - Continued

Louisiana - Extension Circulars

No. 89 - Louisiana Agriculture Progress and Opportunities.
B. H. Critchfield, Thew D. Johnson, Sherman E.
Johnson, R. L. Thompson, W. F. McDonald, and
R. D. Forbes.

Part I - Agricultural Conditions, General Crops,
and Livestock. (597)

Part II - Climate and Reforestation. (598)

Part III - Fruits and Vegetables. (599)

Part IV - Agricultural Situation in The Rice
Section, St. Landry Parish and Sugar
Cane Section. (600)

Part V - Agricultural Situation in the Shreveport
Trade Area of Louisiana. (601)

Miscellaneous Printed Reports

The Agricultural Situation in the New Orleans Trade
Area - A Tentative Report of the Economic Survey of
Agriculture in the New Orleans Trade Area, New
Orleans, La. B. H. Critchfield, T. D. Johnson,
Sherman E. Johnson, R. E. Thompson, T. M. Patterson,
and Lewis E. Long. (Published by New Orleans
Association of Commerce.) (602)

Minnesota - Processed Reports

No. 13 - Livestock Costs and Returns, Pine County, 1925.
Andrew T. Hoverstad and George A. Pond. (603)

Mississippi - Experiment Station Bulletins

No. 237 - Progress Report on Cost of Production Route in
Choctaw County, Mississippi, 1925. Lewis E. Long
and H. W. Reynolds. (604)

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Joint No. 1 - Agricultural Progress and Opportunities
of South Mississippi. B. H. Critchfield,
T. D. Johnson and others. (605)

PUBLISHED IN 1926 - Continued

State Publications of Cooperative Studies - Continued

New Hampshire - Experiment Station Bulletins

- No. 222 - Can New Hampshire Produce More of What She Eats?
H. C. Woodworth, L. B. Lincoln, and
H. I. Richards. (606)

New Jersey - Department of Agriculture Circulars

- No. 101.- A Preliminary Report on the New Jersey Peach
and Apple Tree Survey. Harry B. Weiss. (607)

New York - Cornell Experiment Station Bulletins

- No. 452 - Economic Studies of Dairy Farming in New York:
VI, Grade B Milk with Cash Crops and Mixed
Hay Roughage, Crop Year, 1922. E. G. Misner. (608)
- 455 - Economic Studies of Dairy Farming in New York:
VII, Grade B Milk with Cash Crops and Mixed
Hay Roughage, Crop Year 1923. E. G. Misner. (609)

North Carolina - College of Agriculture Research Bulletins

- No. 1 - Profitable Farm Organizations for the Coastal
Plain of North Carolina. G. W. Forster,
R. J. Saville, and J. B. Hutson. (610)

North Dakota - Experiment Station Bulletins

- No. 201 - Some Farming Changes in Southwestern North
Dakota, 1922 to 1925. Rex E. Willard. (611)

Ohio - Experiment Station Bulletins

- No. 396 - Variations in Costs of Producing Corn, Wheat,
and Other Crops in Greene County, Ohio.
J. I. Falconer and J. F. Dowler. (612)

Extension Bulletins

- Vol. XXI, No. 1 - A Plan of Farm Organization for Hill
Land Farms in Southeastern Ohio. E. J. Utz,
S. C. Hartman, and H. W. Hawthorne. (613)

Oregon - Extension Bulletins

- No. 391 - Report of the Wheat Growers Economic Conference,
February 11-13, 1926. W. J. Spillman parti-
cipating. (614)

PUBLISHED IN 1926 - Continued

State Publications of Cooperative Studies - Continued

South Carolina - Experiment Station Bulletins

- No. 230 - Farming for Profits, Anderson and Similar Areas of South Carolina. Ward C. Jensen. (615)

Washington - Experiment Station Popular Bulletins

- No. 135 - Farming in the Big Bend Country. W. J. Spillman. (616)

PUBLISHED IN 1927

Farmers' Bulletins

- No. 1509 - Bean Growing in Northern Idaho, Eastern Washington, and Eastern Oregon. Byron Hunter. Revised 1939. (See item 191.) (617)
- 1525 - Effective Haying Equipment and Practices for Northern Great Plains and Intermountain Regions. L. A. Reynoldson and C. D. Kinsman. Revised 1931. (618)
- 1545 - Dry Farming Methods and Practices in Wheat Growing in the Columbia and Snake River Basins. Byron Hunter. (See item 278.) (619)
- 1546 - Systems of Livestock Farming in the Black Prairie Belt of Alabama and Mississippi. M. A. Crosby and R. D. Jennings. (620)

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- ** No. 1435 - Economic Aspects of Citrus-Fruit Growing in Polk County, Florida. Carl R. Swinson and W. C. Funk. (See item 397.) (621)
- * 1446 - Cost of Producing Winter Wheat and Incomes from Wheat Farming in Sherman County, Oregon. R. S. Washburn and H. D. Scudder. (See items 395 and 424.) (622)
- * 1455 - Incomes From Farming and Cost of Apple Production in the Shenandoah Valley, Frederick County, Virginia. C. R. Swinson. 10¢. (See item 362.) (623)

Department Circulars

- * No. 416 - Demand, Marketing, and Production of Oregon and Washington Prunes. Burke H. Critchfield. 10¢. (624)
- 420 - The Peach Situation in the Southern States. M. R. Cooper and J. W. Park. (See item 571.) (625)

PUBLISHED IN 1927 - Continued

Technical Bulletins

- * No. 23 - Costs and Methods of Fattening Beef Cattle in the Corn Belt, 1919-1923. R. H. Wilcox, R. D. Jennings, G. W. Collier, W. H. Black, and E. W. McComas. 20¢. (See items 323, 324, 325, 326, 327, 359, 360, 361, 389, 390, 391, 419, 420, 421, 422, 466, 467, 468, 469, and 470.) (626)
- * 54 - Factors Influencing the Yield of Apples in the Cumberland-Shenandoah Region of Pennsylvania, Virginia, and West Virginia. Carl R. Swinson, F. P. Weaver, A. J. Dadisman, J. J. Vernon, H. P. Gould, and J. B. Kincer. 10¢. (627)

Miscellaneous Printed Reports

- ** Harvesting Wheat With a Combined Harvester-thresher in the Great Plains Region, 1926. R. S. Kifer, W. R. Humphries, and J. H. Martin. (Also published in Technical Bulletin No. 70. See item 732.) (628)

Yearbook of Agriculture, 1926
(Articles)

- Balancing The Production of Agriculture. W. J. Spillman. pp. 156-158. (629)
- Cattle Feeding for Profit. George W. Collier. pp. 201-203. (630)
- Changes in Type of Farming, 1919-24. W. J. Spillman. pp. 203-207. (631)
- Combine Harvesters in The Great Plains. L. A. Reynoldson. pp. 232-234. (632)
- Law of Diminishing Returns in Farm Business. W. J. Spillman. pp. 477-479. (633)
- Efficiency of United States Agriculture is Increasing. H. R. Tolley. pp. 318-324. (634)
- Egg Supply in Winter. E. R. Johnson. pp. 325-327. (635)
- Farm Returns for 1922 to 1925 Studied. S. W. Mendum. pp. 348-351. (636)
- Hog Cycles and Possibilities of Regulating Them. Mordecai Ezekiel. pp. 419-422. (637)
- Hog Price Changes Studied. Mordecai Ezekiel. pp. 422-424. (638)

Yearbook of Agriculture, 1926 - Continued
(Articles)

- Hog Raising by Low Cost Operations. Oscar Steanson.
pp. 425-426. (639)
- Income Data Show Earnings Vary Widely. H. W. Hawthorne.
pp. 447-450. (640)
- Labor Requirements Measured for Principal Crops.
A. P. Brodell. pp. 466-467. (641)
- Law of Diminishing Returns in Farm Business.
W. J. Spillman. pp. 477-479. (642)
- Mechanical Corn Pickers in the Corn Raising States.
L. A. Reynoldson. pp. 521-522. (643)
- Outlook Reports - Their Preparation. H. R. Tolley.
pp. 560-563. (644)
- Peach Survey of National Scope Shows Pitfalls.
M. R. Cooper. pp. 567-569. (645)
- Production and Consumption Surveys Useful.
B. H. Critchfield. pp. 610-612. (646)
- Size of Farms Important on Irrigated Lands.
Byron Hunter. pp. 662-663. (647)
- Tractor Farming in Dry Regions Has Advantages.
R. S. Washburn. pp. 734-736. (648)
- Working Days of Farmers A High Average. J. B. Hutson.
pp. 785-786. (649)
- Working of Horses on Farms Vary Widely. J. B. Hutson.
pp. 786-788. (650)

(Statistics)

- Returns From Farming, 1925, with Comparisons for the 3
preceding years. (Prepared by S. W. Mendum.) pp. 1206-
1207. (Also published in Yearbook Separate **937, Miscel-
laneous Agricultural Statistics; and with text, in Crops
and Markets, July 1926.) (651)
- Item listed originally as No. 652 was deleted after the
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PUBLISHED IN 1927 - Continued

Yearbook of Agriculture, 1926 - Continued
(Statistics)

Cost of Production (Wheat, Corn, Oats, Potatoes, and Cotton) for 1925, with Comparisons for the 2 preceding years for Wheat, Corn, Oats, and Potatoes. (Prepared by M. R. Cooper.) pp. 1209-1218. (Also published in Yearbook Separate **937, Miscellaneous Agricultural Statistics; and in less detail, with text, in Crops and Markets, June 1926.) (653)

Processed Reports, U.S.D.A.

- ** Family Living in 25 Farm Homes of Askov, Pine County, Minnesota, for the Year Ending December 31, 1925. E. L. Kirkpatrick and A. T. Hoverstad. (Article based on Farm Management and Cost route study, and prepared in the Division of Farm Population and Rural Life, in cooperation with the Department of Farm Management, University of Minnesota.) (654)
- ** Requirements and Costs for Picking, Snapping and Sledding Cotton in Western Texas and Oklahoma. A. P. Brodell and M. R. Cooper. (655)
- ** Statistics of the Poultry Industry with Special Reference to the Eleven Western States. E. R. Johnson. (656)
- ** Statistical and Graphic Presentation of Data Relating to Livestock Production in the Southeastern Coastal Plain. C. L. Goodrich. (657)

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California - Experiment Station Bulletins

No. 445 - Economic Aspects of the Apple Industry.
Emil Rauchenstein. (658)

Colorado - Experiment Station Bulletins

No. 318 - Factors that Influence Profits on Irrigated Farms. L. A. Moorhouse, R. T. Burdick and J. B. Hutson. (659)

Processed Reports

Sheep and Steer Feeding 1925-1926, Weld County, Colorado. R. T. Burdick and H. B. Pingrey. 1/ (660)

PUBLISHED IN 1927 - Continued

State Publications of Cooperative Studies - Continued

Delaware - Extension Bulletins

- No. 13 - Producing and Marketing Farm Produce in Northern
New Castle County. R. O. Bausman. (661)

Georgia - College of Agriculture Bulletins

- No. 324 - An Economic Study of Farm Organization in
Sumter County. E. C. Westbrook, W. A. Minor, Jr.,
Kenneth Traynor, C. L. Goodrich, and W. C. Funk. (662)
- 331 - A Survey of Livestock Production in Georgia.
John R. Fain, W. A. Minor, Jr., and Kenneth
Traynor. (663)

Idaho - Experiment Station Bulletins

- No. 151 - Farming Business in Idaho - Being Part I of a
Tentative Report of the Agricultural Situation.
Based on an Economic Survey of the Production
and Marketing of Idaho Farm Products. (664)
- 152 - Dairy Situation in Idaho. Part II. F. W.
Atkeson, D. L. Fourn, George L. Sulerud, and
B. H. Critchfield. (665)
- 153 - Potato Situation in Idaho. Part III. C. F. Wells
and H. C. Dale. (666)
- 154 - Poultry Situation in Idaho. Part IV. Raymond T.
Parkhurst and George L. Sulerud. (667)

Illinois - Experiment Station Bulletins

- No. 293 - Adjusting Hog Production to Market Demand.
F. F. Elliott. (668)

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Complete Costs and Farm Business Analysis on
19 Farms in Clinton County, Illinois, 1926.
R. H. Wilcox, H. A. Berg, and H. C. M. Case. 1/(669)

Indiana - Experiment Station Bulletins

- No. 310 - Feeding and Marketing of Early Spring Pigs
on Indiana Farms. O. G. Lloyd and G. E. Young.
(Production Costs and Feed Requirements.
Also published in Indiana Experiment Station
Bulletin No. 338. See item 881.) (670)

PUBLISHED IN 1927 - Continued

State Publications of Cooperative Studies - Continued

Iowa - Processed Reports

Iowa County Cost Route - 1926 ^{1/}

- No. 1 - Farm Income and Expenses on 21 Farms.
J. A. Hopkins, Jr. and R. C. Bevan. (671)
- 2 - The Hog Enterprise. J. A. Hopkins, Jr. (672)
- 3 - The Cattle Enterprise. J. A. Hopkins, Jr.,
and R. C. Bevan. (673)
- 4 - The Poultry Enterprise. J. A. Hopkins, Jr.,
and R. C. Bevan. (674)
- 5 - The Corn Crop. J. A. Hopkins, Jr., and
R. C. Bevan. (675)
- 6 - Small Grain Crops, J. A. Hopkins, Jr., and
R. C. Bevan. (676)
- 7 - Forage Crops. J. A. Hopkins, Jr., and
R. C. Bevan. (677)
- 8 - Expenses in Producing Silage. J. A. Hopkins, Jr.,
and R. C. Bevan. (678)
- 9 - Expenses on Horses and Tractors.
J. A. Hopkins, Jr., and R. C. Bevan. (679)
- 10 - Equipment. J. A. Hopkins, Jr., and
R. C. Bevan. (680)
- 11 - Labor. J. A. Hopkins, Jr., and R. C. Bevan. (681)
- 12 - Summary of Farm Efficiency Factors.
J. A. Hopkins, Jr., and R. C. Bevan. (682)
- 13 - Steer Feeding. Albert Mighell and
R. C. Bevan. (683)

Kansas - Processed Reports

- Detailed Cost of Production Studies, Report
on Dairying for 1926, Comparisons with 1925,
Bourbon County, Kansas. W. E. Grimes, J. A.
Hodges, and R. D. Nichols. (684)

State Publications of Cooperative Studies - Continued

Kansas - Processed Reports - Continued

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Requirements of Hog Production in Kansas and the Hog Situation for 1927. J. A. Hodges and Harold Howe. 1/ (687)

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No. 14 - Cost of Crop Production, Pine County, 1926. A. T. Hoverstad and G. A. Sallee. (689)

15 - Cost of Crop Production, Polk County, 1926. A. T. Hoverstad and D. C. Mumford. (690)

16 - Preliminary Report, Farm Accounting Route, Pine County, 1926. A. T. Hoverstad, G. A. Sallee, and F. H. Tomlinson. (691)

17 - Livestock Costs and Returns, Pine County, 1926. Andrew T. Hoverstad, George A. Sallee, and F. H. Tomlinson. (692)

18 - Preliminary Report, Farm Accounting Route, Polk County, 1926. D. C. Mumford, A. T. Hoverstad, G. A. Pond, and C. O. Rudd. (693)

19 - Livestock Costs and Returns, Polk County, 1926. D. Curtis Mumford, Andrew T. Hoverstad, and C. O. Rudd. (694)

Mississippi - Experiment Station Bulletins

No. 243 - Progress Report on Cost of Production/^{Route}in Choctaw County, Mississippi, 1926. Lewis E. Long and H. W. Reynolds. (695)

State Publications of Cooperative Studies - Continued

Mississippi - Experiment Station Bulletins - Continued

No. 256 - Cost of Production Route in Jones County, Mississippi, 1927. Lewis E. Long and J. R. Allen. (69)

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No. 110 - Varieties of Peaches in Competing States, Their Ages and Trends of Popularity in Percentages; also Varieties of Apples and Peaches in Principal New Jersey Counties. R. C. Oley. (69)

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No. 159 - A Preliminary Study of 127 New Mexico Ranches. A. L. Walker and J. L. Lantow. (69)

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No. 252 - Profitable Farm Combinations. G. W. Forster and R. J. Saville. (70)

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No. 212 - Type-of-Farming Areas in North Dakota, Rex E. Willard and O. M. Fuller. (70)

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State Publications of Cooperative Studies - Continued

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- No. 1 - Ashtabula and Surrounding Counties. (704)
- 2 - Medina and Surrounding Counties. (705)
- 3 - Wayne and Surrounding Counties. (706)
- 4 - Seneca and Surrounding Counties. (707)
- 5 - Lucas and Surrounding Counties. (708)
- 6 - Hancock and Surrounding Counties. (709)
- 7 - Fulton and Surrounding Counties. (710)
- 8 - Paulding and Surrounding Counties. (711)

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- No. 243 - An Economic Study of the Columbia Farm Trade Area. T. D. Johnson, F. H. Robinson, B. A. Russell, and W. C. Jensen. (712)

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- No. 226 - Profitable Farming Systems for East Central South Dakota. C. A. Bonnen and J. B. Hutson. (713)

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- No. 362 - Large-Scale Cotton Production in Texas. L. P. Gabbard and F. R. Jones. (714)
- 373 - Harvesting Grain with the Combined Harvester-Thresher in Northwest Texas. H. P. Smith and Robert F. Spilman. (715)

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- No. 203 - Cattle Ranching in Utah, Report of a Preliminary Economic Survey of the Ranch Situation as of 1925. William Peterson, P. V. Cardon, K. C. Ikeler, George Stewart, and A. C. Esplin. (716)

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State Publications of Cooperative Studies - Continued

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No. 268 - Studies in Vermont Dairy Farming: III,
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No. 255 - Cost of Producing Virginia Dark and Bright
Tobacco, and Incomes from Farming, 1922-1925.
A. P. Brodell. (See items 425 and 477.) (718)

257 - Factors Affecting Returns from the Dairy
Enterprise in the Shenandoah Valley, J. J.
Vernon, C. W. Holdaway, Mordecai Ezekiel,
and R. S. Kifer. (See item 570.) (719)

258 - Systems of Beef Cattle Farming for South-
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J. B. Hutson. (720)

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No. 216 - An Economic Study of Poultry Farming in
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No. 395 - Planning the Farm for Profit. P. E. McNall,
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P. E. McNall, and F. B. Morrison. (723)

PUBLISHED IN 1928

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No. 1562 - Farm Practices under Corn-Borer Conditions. Jesse W.
Tapp, George W. Collier, and C. R. Arnold. (724)

1564 - Farm Budgeting. J. B. Hutson. (725)

Farmers' Bulletins - Continued

- * No. 1565 - Shall I Buy a Combine. L. A. Reynoldson, J. H. Martin, and W. R. Humphries. 5¢. (726)
- 1574 - Preparing Johnson Hay for Market in the Black Prairie Belt of Alabama and Mississippi. M. A. Crosby. (727)
- * 1577 - Harvesting Grain Sorghums. John H. Martin, L. A. Reynoldson, B. E. Rothgeb, and W. M. Hurst. 5¢. (See item 809.) (728)
- 1589 - The Husker-Shredder on Eastern Corn Belt Farms. George W. Collier, W. R. Humphries, and E. W. McComas. (729)

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- ** No. 45 - A Study of Ranch Organization and Methods of Range-Cattle Production in the Northern Great Plains Region. M. L. Wilson, R. H. Wilcox, G. S. Klemmedson, and V. V. Parr. (730)
- * 68 - Ranch Organization and Methods of Livestock Production in the Southwest. V. V. Parr, G. W. Collier, and G. S. Klemmedson. 25¢. (731)
- * 70 - The Combined Harvester-Thresher in the Great Plains. L. A. Reynoldson, R. S. Kifer, J. H. Martin, and W. R. Humphries. 15¢. (See item 628.) (732)
- * 102 - Types of Farming in North Dakota. F. F. Elliott, Jesse W. Tapp, and Rex E. Willard. 15¢. (733)

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- " 2. Analyzing the Farm Business. H. W. Hawthorne.
- " 3. Size of Business in Relation to Returns. H. W. Hawthorne.
- " 4. Crop Yields Per Acre. H. W. Hawthorne.
- " 5. Livestock Returns Per Animal in Relation to Farm Income. H. W. Hawthorne.
- " 6. Efficiency in the Use of Labor. H. W. Hawthorne.
- " 7. Farm Layout. H. W. Hawthorne.
- " 8. The Farm Budget. J. B. Hutson.
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- " 10. How Farm Returns Vary in the United States. S. W. Mendum.

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(Articles)

- Apple Tree Areas of Heavy Concentration Widely Scattered.
W. H. Youngman. pp. 107-109. (735)
- Apple Trees Fewer Since 1910, but No Drop in Apple Crop.
M. R. Cooper. pp. 109-110. (736)
- Budgets Useful in Planning A System of Farming.
J. B. Hutson. pp. 151-153. (737)
- Corn Borer Control Adds to Farm Cost, but is Worth While.
George W. Collier. pp. 199-202. (738)
- Corn Borer Makes Changes Necessary in Farm Methods.
Jesse W. Tapp. pp. 207-210. (739)
- Cotton Growers Often Find Larger Outlay Pays in Better
Yields. C. L. Goodrich. pp. 221-223. (740)
- Cotton Harvesting by Newer Methods Saves Much Labor.
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- Eggs from Poultry Farms that Specialize a Factor in
Markets. E. R. Johnson. pp. 283-285. (742)
- Family Living Among Poorer Farm People Studied Statistic-
ally. E. L. Kirkpatrick and H. W. Hawthorne. pp. 293-295.
(743)
- Hay-Harvesting Cost Much Reduced With Up-to-date
Machinery. R. S. Washburn. pp. 356-358. (744)
- Hog Raising by One or Two Litter Systems is Feed Supply
Problem. Oscar Steanson. pp. 377-378. (745)
- Incomes of Farmers in 1926 as Shown in 4,799 Statements.
S. W. Mendum. pp. 388-389. (746)
- Johnson Hay Market Unsatisfactory; Cure in Producers
Hands. M. A. Crosby. pp. 407-408. (747)
- Lamb Price Changes Usually Controlled by Very Few
Factors. Mordecai Ezekiel. pp. 409-410. (748)
- Livestock A Vital Necessity in the Southern States.
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- Size of Farm is an Important Factor in Standards of
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- Wheat Harvesting by Combine Advantageous Under Right
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- ** Type-of-Farming Studies. W. J. Spillman and F. F. Elliott. (754)
- ** Source and Uses of Income Among 300 Farm Families of Vinton, Jackson, and Meigs Counties, Ohio. E. L. Kirkpatrick and H. W. Hawthorne. (755)
- ** Annual Family Living in Selected Farm Homes of North Dakota. E. L. Kirkpatrick. (Article based on Farm Management Farm Record and Account Studies, and prepared in the Division of Farm Population and Rural Life.) (756)
- ** The Problem of Handling Surpluses of Farm Products. Mordecai Ezekiel. (757)
- ** Summer Grazing Crops for Hogs in the Peanut Area. Oscar Steanson, Henry T. Wingate, and W. A. Minor. (758)

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- No. 327 - A Study of Ranch Organization in Eastern Colorado. R. T. Burdick, Martin Reinholt, and G. S. Klemmedson. (See items 464, 527, and 564.) (759)
- 342 - Cattle-Ranch Organization in the Mountains of Colorado. R. T. Burdick, Martin Reinholt, and G. S. Klemmedson. 1928. (See items 464, 564, and 574.) (760)

Idaho - Experiment Station Bulletins

- No. 162 - Statistics on the Prices and Destinations of Idaho Apples. The Four Crops, 1923 to 1926. Clinton F. Wells. (761)

State Publications of Cooperative Studies - Continued

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- Complete Costs and Farm Business Analysis on 18 Farms in Clinton County, Illinois, 1927. R. H. Wilcox, H. A. Berg, and H.C.M. Case. 1/ (762)

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- No. 321 - What is Happening to Agriculture in Northwestern Indiana. M. H. Overton. (763)
- 322 - The Indianapolis Apple Market. Harry M. Clover, M. R. Cooper, and J. W. Park. (764)

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- Iowa County Cost Route - 1927 1/
- No. 1. - Resources, Income and Expenses on Seventeen Farms. Albert Mighell and F. J. Rossiter. (765)
- 2 - The Hog Enterprise. J. A. Hopkins, Jr., and F. J. Rossiter. (766)
- 3 - Cattle Enterprise. J. A. Hopkins, Jr., and F. J. Rossiter. (767)
- 4 - The Poultry Enterprise. J. A. Hopkins, Jr., and F. J. Rossiter. (768)
- 5 - The Corn Crop. J. A. Hopkins, Jr., and F. J. Rossiter. (769)
- 6 - Small Grain Crops. J. A. Hopkins, Jr., and F. J. Rossiter. (770)
- 7 - Mixed Hay, Timothy Seed. J. A. Hopkins, Jr., and F. J. Rossiter. (771)
- 8 - Expenses in Producing Silage. J. A. Hopkins, Jr., and F. J. Rossiter. (772)
- 9 - Expenses on Horses and Tractors. J. A. Hopkins, Jr., and F. J. Rossiter. (773)
- 10 - Equipment. J. A. Hopkins, Jr., and F. J. Rossiter. (774)
- 11 - Labor. J. A. Hopkins, Jr., and F. J. Rossiter. (775)
- 12 - Summary of Farm Efficiency Factors. J. A. Hopkins, Jr., and F. J. Rossiter. (776)
- 13 - Feeding Cattle. J. A. Hopkins, Jr., and F. J. Rossiter. (777)

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PUBLISHED IN 1928 - Continued

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- No. 142 - The Effect of the Combined Harvester-Thresher on Farm Organization in Southwestern Kansas and Northwestern Oklahoma. W. E. Grimes, R. S. Kifer, and J. A. Hodges. (778)

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- No. 239 - An Economic Study of Crops and Livestock in the Purchase Region of Kentucky. J. B. Hutson, W. G. Finn, and Z. L. Galloway. (779)

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The Livingston County Area. (781)

The Monroe County Area. (782)

The St. Clair County Area. (783)

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- No. 20 - Cost of Crop Production, Pine County, 1927. A. T. Hoverstad and F. H. Tomlinson. (784)

- 21 - Costs of Crop Production, Polk County, 1927. D. Curtis Mumford, George A. Sallee, and C. O. Ruud. (785)

- 22 - Preliminary Report, Farm Accounting Route, Pine County, 1925-1926-1927. Andrew T. Hoverstad. (786)

- 23 - Livestock Costs and Returns, Pine County, 1927. Andrew T. Hoverstad and F. H. Tomlinson. (787)

- 24 - Preliminary Report, Farm Accounting Route, Polk County, 1927. D. C. Mumford, G. A. Sallee, G. A. Pond, and C. O. Ruud. (788)

- 25 - Livestock Costs and Returns, Polk County, 1927. D. Curtis Mumford, George A. Sallee, and C. O. Ruud. (789)

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No. 231 - Economic Aspects of the Cattle Industry of the Nebraska Sand Hills. Harold Hedges. (See item 537.) (791)

New Mexico - Extension Circulars

No. 97 - Economics of Crop Production on the Elephant Butte Irrigation Project. L. H. Hauter. (792)

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No. 462 - Economic Studies of Dairy Farming in New York: VIII, Grade B Milk with Cash Crops and Mixed Hay Roughage, Crop Year 1924. E. G. Misner. (793)

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North Carolina - Experiment Station Bulletins

No. 260 - Systems of Livestock Farming for the Mountain Region of North Carolina. R. J. Saville. (795)

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No. 424 - Dairy and Other Livestock Production Costs in Medina County, Ohio. F. L. Morison. (796)

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No. 223 - Farm Adjustments in Market Hay Areas of Pennsylvania. F. P. Weaver and R. S. Washburn. (797)

South Dakota - Experiment Station Bulletins

No. 235 - Profitable Farming Systems for the Intensive Spring Wheat Area in South Dakota. C. A. Bonnen and R. H. Rogers. (798)

PUBLISHED IN 1928 - Continued

State Publications of Cooperative Studies - Continued

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No. 263 - The Market for Milk in Richmond, Virginia. J. J. Vernon and R. S. Kifer. (801)

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PUBLISHED IN 1929

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1614 - Business Records for Poultry Keepers. E. R. Johnson and A. R. Lee. (806)

Farmers' Bulletins - Continued

No. 1615 - Hay Stackers and Their Use. L. A. Reynoldson. (See item 270.) (307)

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* No. 115 - Factors Affecting the Price of Peaches in New York City Market. Henry S. Kantor. 15¢. (308)

* 121 - Methods of Harvesting Grain Sorghums. John H. Martin, L. A. Reynoldson, B. E. Rothgeb, and W. M. Hurst. 10¢. (See item 728.) (309)

127 - An Economic Study of Livestock Possibilities in the Southeastern Coastal Plain. R. D. Jennings and M. A. Crosby. (810)

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(Articles)

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Corn-Stover Shredding Pays if Supply of Hay and Straw is Short. George W. Collier. pp. 231-232. (812)

Dairying in Eastern Corn Belt Has Field for Continued Growth. H. A. Miller. pp. 254-255. (813)

Hog Profits Greatly Affected by Heavy Death Rate of Pigs. Oscar Steanson. pp. 364-365. (814)

Machinery Plays a Vital Role in Making Agriculture Efficient. M. R. Cooper. pp. 441-443. (815)

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PUBLISHED IN 1929 - Continued

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(Statistics)

- Apple trees: Estimated Number, by Age Groups and Varieties, in Commercial Orchards and in Farm Orchards, Jan. 1, 1923. (For New York, Illinois, and Washington) pp. 759-763. (Prepared by W. H. Youngman.) (Also published in mimeograph reports. See item 945.) (818)

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- ** The Extent of Various Methods of Harvesting Corn in Ohio, Michigan, and Indiana. George W. Collier. (819)
- ** Statistics and Charts of the Range Livestock Industry with Special Reference to Seventeen Western States. R. D. Jennings. (820)
- Cost-of-Production Statistics of Strawberries in Southern and Eastern States. A. P. Brodell. (821)
- ** Farm Management Research in New England - Possibility of Making a Coordinated Regional Program. C. L. Holmes. (822)
- ** Balancing the Livestock Output. W. J. Spillman. (823)
- ** Means of Preventing Surplus Production. W. J. Spillman. (824)
- ** Preliminary Report on Apiary Organization and Honey Production in the Intermountain States in 1923. E. L. Sechrist and R. S. Kifer. (825)

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No. 59 - An Economic Survey of Salt River Valley Project in Maricopa County, Arizona. Byron Hunter and others. (826)

60 - Returns from Different Systems of Farming on the Salt River Valley Irrigation Project. Byron Hunter and Harry A. Stewart. (827)

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No. 236. - Economic Phases of the Arkansas Apple Industry. A. P. Brodell and C. O. Brannen. (828)

PUBLISHED IN 1929 - Continued

State Publications of Cooperative Studies - Continued

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- No. 353 - Cost of Producing Crops on Irrigated Farms.
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488 and 526.) (829)

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- Complete Costs and Farm Business Analysis on 17
Farms in Clinton County, Illinois, 1928.
R. H. Wilcox, R. G. Trummel, and H. C. M. Case. 1/
(830)

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- No. 261 - The Crop System in Iowa County. J. A. Hopkins, Jr.,
(831)
- 264 - Horses, Tractors, and Trucks. J. A. Hopkins, Jr.
(832)

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- No. 292 - Systems of Farming for the Purchase Region of
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Z. L. Galloway. (See item 688.) (833)

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- No. 256 - The Combine Harvester in Minnesota. A. J. Schwantes,
G. A. Pond, A. C. Arney, C. H. Bailey, R. H. Black,
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- No. 30 - The Combine Comes to Minnesota. A. J. Schwantes.
(835)

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- No. 26 - First Annual Report of Better Farming Club,
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R. C. Bevan, and M. C. Hansen. (836)
- 27 - First Annual Report of Better Farming Club,
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G. A. Pond, R. C. Bevan, and M. L. Armour. (837)
- 28 - First Annual Report of Better Farming Club,
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R. C. Bevan, and Harry Hass. (838)

PUBLISHED IN 1929 - Continued

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- Minnesota - Processed Reports - Continued
- No. 29 - First Annual Report, Better Farming Club, Steele County, 1928. W. P. Ranney, G. A. Pond, R. C. Bevan, and Russell Seath. (839)
 - 30 - First Annual Report of Better Farming Club, Freeborn County, 1928. W. P. Ranney, G. A. Pond, R. C. Bevan, and W. M. Lawson. (840)
 - 31 - Costs of Crop Production, Polk County, 1928. George A. Sallee, George A. Pond, and C. O. Ruud. (841)
 - 32 - Preliminary Report, Farm Accounting Route, Polk County, 1926-1927-1928. G. A. Sallee, G. A. Pond, and C. O. Ruud. (842)
 - 33 - Livestock Costs and Returns, Polk County, 1928. George A. Sallee, G. A. Pond, and C. O. Ruud. (843)
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 - 276 - Farm Practices in South Central Mississippi with Suggested Changes. Lewis E. Long and R. S. Kifer. (845)
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- No. 99 - Milk Production on the Elephant Butte Irrigation Project. L. H. Hauter. (846)
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- No. 267 - Farm Income and Taxation in North Carolina. G. W. Forster, H. W. Hawthorne, G. S. Klemmedson, and H. H. Wooten. (848)
- North Dakota - Experiment Station Bulletins
- No. 225 - The Combined Harvester-Thresher in North Dakota. Alva H. Denton, R. H. Black, W. R. Humphries, W. M. Hurst, C. E. Mangles, R. C. Miller, L. A. Reynoldson, H. E. Scielstad, and T. E. Stoa. (849)

PUBLISHED IN 1929 - Continued

State Publications of Cooperative Studies - Continued

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Belt of Texas. L. P. Gabbard, J. B. Hutson,
and T. L. Gaston, Jr. (853)

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Recommendations for Agricultural Development in
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No. 266 - The Adjustment of Agricultural Production to
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Covington Trade Area. J. J. Vernon and
T. D. Johnson. (855)

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No. 112 - Profitable Farming Systems on Dark Tobacco Farms.
A. P. Brodell, C. C. Taylor, and H. E. McSwain.
(856)

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Crop Production on Dairy Farms Near Richmond,
Virginia. (Report showing man labor, horse work,
tractor work, and materials used in crop pro-
duction on selected farms, 1928.) R. S. Kifer,
J. J. Vernon, and J. L. Maxton. (Also published
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See item 916.) (857)

PUBLISHED IN 1929 - Continued

State Publications of Cooperative Studies - Continued

Virginia - Processed Reports - Continued

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PUBLISHED IN 1930

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No. 1631 - Broomcorn Growing and Handling. John H. Martin and
R. S. Washburn. (859)

Yearbook of Agriculture, 1930

(Articles)

Farm Incomes Averaged \$1,340 Per Farm Yearly in Period
1924-1928. H. R. Tolley. pp. 243-246. (860)

Hay Acreage Constant Though Work Animals Have Become
Fewer. R. S. Washburn. pp. 308-310. (861)

Hay-stacking Machines Speed the Work, Reduce Costs, and
Save Labor. L. A. Reynoldson. pp. 310-314. (862)

Hog Belt's Shift Northwestward Has Economic Reasons.
W. J. Spillman. pp. 318-319. (863)

Tobacco Growers Gain by Acting on a Farm Reorganization
Study. A. P. Brodell. pp. 522-524. (864)

(Statistics)

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with text, in Crops and Markets, June, 1929.) (867)

PUBLISHED IN 1930 - Continued

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- ** A Comparison of Outlook Statements with Subsequent Events. Oris V. Wells. (868)
- The Role of Machinery in the Development of the Agriculture of the United States. H. R. Tolley and A. P. Brodell. (Revised, 1934.) (869)
- ** Poultry and Egg Production in the United States. C. L. Holmes. (870)
- ** Statistics and Charts of the Apple Industry. W. H. Youngman. (871)
- ** Shifts in Farming in the United States. W.J. Spillman. (872)
- ** Cost of Production and Effective Utilization of Sweetclover on Corn-Belt Farms. M. A. Crosby. (Also published in Farmers' Bulletin 1653. See item 923.) (873)
- ** Statistics and Charts of the Poultry and Egg Industry. E. R. Johnson. (874)
- ** The Economic Position of the Western States in American Agriculture. C. L. Holmes. (875)
- ** Farmers' Response to Price in the Production of Flax. F. F. Elliott. (876)
- ** The Relation of Certain Personal and Family Influences to Operators' Labor Earnings. W. W. Wilcox. (877)
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No. 173 - Farming Systems for Eastern Washington and Northern Idaho. George Severance, Byron Hunter, and Paul Eke. (Also published as Washington Experiment Station Bulletin No. 244. See item 922.) (880)

PUBLISHED IN 1930 - Continued

State Publications of Cooperative Studies - Continued

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G. E. Young. (See item 670.) (881)

342 - Types of Farming in Indiana. E. C. Young and
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George W. Collier and Lynn Robertson. (883)

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George W. Collier and Lynn Robertson. (884)

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Large Farms (Over 225 acres). George W. Collier
and Lynn Robertson. (885)

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No. 270 - The Livestock System in Iowa County. . . .
J. A. Hopkins, Jr., and R. S. Kifer. (886)

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No. 251 - Types of Farming in Kansas. J. A. Hodges,
F. F. Elliott, and W.E. Grimes. (887)

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Seeding to Wheat in Southwestern Kansas.
R. D. Nichols and R. S. Kifer. (888)

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Laurel County, Kentucky. W. D. Nicholls and
H. W. Hawthorne. (889)

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No. 266 - Cost of Combine Harvesting in Minnesota. George A. Pond and Louis B. Bassett. (894)

268 - Systems of Farming in Northwestern Minnesota. L. F. Garey and F. F. Elliott. (895)

270 - Factors Affecting the Physical and Economic Cost of Butterfat Production in Pine County, Minnesota. George A. Pond and Mordecai Ezekiel. (896)

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No. 34 - Costs of Crop Production, Rock and Nobles Counties, 1929. George A. Pond, Wm. H. Dankers, and Robert H. Loreaux. (897)

35 - Second Annual Report of Better Farming Club, Rice County, 1929. W. P. Ranney, G. A. Pond, R. C. Bevan, and Harry Hass. (898)

36 - Second Annual Report of Better Farming Club, Dodge and Goodhue Counties, 1929. W. P. Ranney, G. A. Pond, R. C. Bevan, M. L. Armour and M. A. Thorfinnson. (899)

PUBLISHED IN 1930 - Continued

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- No. 37 - Second Annual Report of Better Farming Club, Steele County, 1929. W. P. Ranney, G. A. Pond, R. C. Bevan, and Russell Seath. (900)
- 38 - Second Annual Report of Better Farming Club, Waseca County, 1929. W. P. Ranney, G. A. Pond, R. C. Bevan, and M. C. Hansen. (901)
- 39 - Second Annual Report of Better Farming Club, Freeborn County, 1929. W. P. Ranney, G. A. Pond, R. C. Bevan, and W. M. Lawson. (902)
- 40 - Preliminary Report, Farm Accounting Route, Rock and Nobles Counties, 1929. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (903)
- 41 - Livestock Costs and Returns, Rock and Nobles Counties, 1929. George A. Sallee, G. A. Pond, and R. H. Loreaux. (904)

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- No. 230 - The Combined Harvester-Thresher in Montana. A. E. Starch and R. M. Merrill. (905)

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- No. 244 - Types of Farming in Nebraska. Harold Hedges and F. F. Elliott. (906)

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- No. 186 - A Five-Year Economic Study of 125 Farms in Curry and Roosevelt Counties, New Mexico, Part I of Economics of Agriculture on Dry-Land Farms in Eastern New Mexico. L. H. Hauter, A. L. Walker, and O. V. Wells. (907)
- 187 - Production Requirements, Costs, and Returns from Dry-Land Farming in Eastern New Mexico, Part II of Economics of Agriculture on Dry-Land Farms in Eastern New Mexico. L. H. Hauter, A. L. Walker, and O. V. Wells. (908)

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- No. 237 - Ranch Organization and Management in Western North Dakota. M. B. Johnson. (909)

PUBLISHED IN 1930 - Continued

State Publications of Cooperative Studies - Continued

- Ohio - Experiment Station Bulletins
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- Oregon - Experiment Station Bulletins
No. 244 - Oregon Apple Prices, by Variety, Grade, and Size, 1922-1926. Ralph S. Besse and M. R. Cooper. (911)
- Pennsylvania - Experiment Station Bulletins
No. 260. - Growing and Marketing Grapes in Erie County, Pennsylvania. J. T. Vandenburg and G. P. Scoville. (912)
- South Dakota - Experiment Station Bulletins
No. 249 - Economic Adjustments on Farms in Southeastern South Dakota. R. H. Rogers. (913)
255 - Cattle Ranch Organization and Management in Western South Dakota. M. B. Johnson. (914)
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PUBLISHED IN 1930 - Continued

State Publications of Cooperative Studies - Continued

Virginia - Processed Reports - Continued

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A Farm Business Survey of the Early Potato Section of Virginia, 1929 Season. Emil Rauchenstein and J. J. Vernon. (Also published in Virginia Experiment Station Bulletin 289. See item 1,053.) (920)

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No. 242 - Washington Apple Prices and Costs of Shipping Point Marketing Services. Chester C. Hampson and E. F. Dummeier. (921)

244 - Farming Systems for Eastern Washington and Northern Idaho. George Severance, Byron Hunter, and Paul Eke. (Also published as Idaho Bulletin 173. See item 880.) (922)

PUBLISHED IN 1931

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1663 - Winter Legumes for Green Manure in the Cotton Belt. Roland McKee and A. D. McNair. (924)

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** 237 - Economic Factors Affecting the Beef-Cattle Industry of Virginia. Charles A. Burmeister, Herman M. Conway, and Albert P. Brodell. (926)

** 244 - Harvesting Small Grain, Soybeans, and Clover in the Corn Belt with Combines and Binders. L. A. Reynoldson, W. R. Humphries, and J. H. Martin. 1931. (927)

Technical Bulletins - Continued

- No. 287 - Farm Management Problems in Shifting from Sack to Bulk Handling of Grain in the Pacific Northwest. Neil W. Johnson, E. F. Landerholm, G.W. Kuhlman, and T. L. Gaston. (928)

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(Articles)

Apple-Tree Plantings Since 1920 Show Trend Toward Newer Varieties. W. H. Youngman. pp. 101-104. (929)

Farm Income Changes Measured Roughly by Representative Reports. S. W. Mendum. pp. 227-230. (930)

Incomes from Farms in the Appalachian Region Added to in Many Ways. (931)

Regional Conferences Carry Outlook Facts Closer to Farm Needs. Thew D. Johnson. pp. 459-460. (932)

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Apple Trees: Number in Commercial Orchards, by Age and Variety, for States and Regions. (Prepared by W. H. Youngman.) pp. 719-724. (Also published in processed reports. See item 945.) (936)

Processed Reports, U.S.D.A.

** What is New in Farm Management Research Methodology? C. L. Holmes. (937)

** Shifts in Production Areas in the United States Induced by Changes in Farm Prices and Farm Technique. C. L. Holmes. (938)

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- Practices and Costs in the Development of Peach Orchards in the Production of Pecans. R. S. Washburn and B. H. Thibodeaux. (Also published in Technical Bulletin 324. 1932. See item 980.) (939)
- Agricultural Crisis. W. J. Spillman. (940)
- ** Coordination of Farm Management Research in the Western States. C. L. Holmes. (941)
- Statistics Relating to the Apple Industry, 1931. (Prepared by M. R. Cooper for the use of Outlook Conferences.) (942)
- The Apple Situation, 1931. (Prepared by M. R. Cooper for the use of Outlook Conferences.) (943)
- ** Farm Production Costs as Affected by Mechanical Farm Equipment. C. L. Holmes. (944)
- Estimated Numbers of Apple Trees by Varieties and Ages on January 1, 1928. (A Part of an Economic Study of the Apple Industry of the United States, by the Bureau of Agricultural Economics, U. S. Department of Agriculture, in cooperation with State Colleges and State Departments of Agriculture. See items 818 and 936.) 1/ (945)
- (a) Trees in Commercial and Farm Orchards. W. H. Youngman. (J. B. Shepard joint author for States marked with (1).)
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|---------------------|---------------------|--------------------------|
| Arkansas | **Kentucky (1932) | Ohio (1932) |
| Colorado | (1) Maryland (1930) | (1) Pennsylvania (1930) |
| (1) Delaware (1930) | (1) Michigan (1930) | Tennessee (1930) |
| Georgia (1932) | (1) Missouri (1930) | Utah |
| **Illinois (1930) | New England | (1) Virginia (1930) |
| Indiana | (1) New York | Washington |
| Iowa | North Carolina | (1) West Virginia (1930) |
- (b) Trees in Commercial Orchards. W. H. Youngman
- | | | |
|------------------|----------------|-----------------------|
| Idaho | Montana (1932) | Oregon |
| Kansas | Nebraska | Wisconsin (1932) |
| Minnesota (1932) | New Jersey | Summary for 41 States |

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and K. H. Myers. (946)

374 - Management Factors That Influence Farm Profits in
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and R. G. Trummel. (947)

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I. D. Mayer and J. C. Bottom. (948)

Processed Reports

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Small Farms (Less than 125 acres tillable).
George W. Collier and Lynn Robertson. (949)

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Medium Sized Farms (125 to 225 acres tillable).
George W. Collier and Lynn Robertson. (950)

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Large Farms (More than 225 acres tillable).
George W. Collier and Lynn Robertson. (951)

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J. A. Hodges, R. S. Kifer, and R. D. Nichols. (952)

Processed Reports

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Kansas. R. D. Nichols and J. A. Hodges. (953)

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and R. S. Kifer. (954)

Machinery Expense and Depreciation on Farms in
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Hodges, and R. S. Kifer. (955)

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and J. A. Hodges. (956)

PUBLISHED IN 1931 - Continued

State Publications of Cooperative Studies - Continued

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- No. 276 - Systems of Farming in Eastern and Southern Minnesota. L. F. Garcy and F. F. Elliott. (959)
- 282 - An Economic Study of Crop Production in the Red River Valley of Minnesota. George A. Pond, George A. Sallee, and C. W. Crickman. (960)
- 283 - An Economic Study of Livestock Possibilities in the Red River Valley of Minnesota. George A. Sallee, George A. Pond, and C. W. Crickman. (961)
- 284 - Planning Systems of Farming for the Red River Valley of Minnesota. C. W. Crickman, George A. Pond, and George A. Sallee. (962)

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- 43 - Costs of Crop Production, Rock and Nobles Counties, 1930. Geo. A. Sallee, Geo. A. Pond, and Robert H. Loreaux. (964)
- 44 - Third Annual Report of Better Farming Club, Rice County, 1930. W. P. Ranney, G. A. Pond, R. C. Bevan, and Harry Haas. (965)
- 45 - Third Annual Report of Better Farming Club, Dodge and Goodhue Counties, 1930. W. P. Ranney, G. A. Pond, R. C. Bevan, M. L. Armour, and M. A. Thorfinnson. (966)

State Publications of Cooperative Studies - Continued

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- 47 - Third Annual Report of Better Farming Club, Steele County, 1930. W. P. Ranney, G. A. Pond, R. C. Bevan, and H. J. Vanlêtre. (968)
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- 49 - Livestock Costs and Returns, Rock and Nobles Counties, 1930. George A. Sallee, G. A. Pond, and R. H. Loreaux. (970)
- 50 - Preliminary Report, Farm Accounting Route, Rock and Nobles Counties, 1930. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (971)
- 51 - Cost of Crop Production, Rock and Nobles Counties, 1931. Geo. A. Sallee, Geo. A. Pond, and Robert H. Loreaux. (972)

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- No. 295 - Farm Power in the Yazoo-Mississippi Delta. Lewis E. Long. (973)

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- No. 188 - Economics of Agriculture on Dry-Land Farms in Eastern New Mexico, Part III, Selecting the Most Profitable System of Dry-Land Farming in Eastern New Mexico. L. H. Hauter, A. L. Walker, and O. V. Wells. (974)

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- No. 199 - Systems of Farming in Oklahoma. (No. 1, Wheat Farming in North Central Oklahoma.) P. H. Stephens and Emil Rauchenstein. (975)

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- No. 280 - Farm Power Utilization and Costs, South Carolina. B. A. Russell. (976)

PUBLISHED IN 1931 - Continued

State Publications of Cooperative Studies - Continued

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PUBLISHED IN 1932

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(Articles)

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Mechanization Affects Both Supply of and Demand for Agriculture's Products. Oris V. Wells. pp. 415-417. (982)

Mechanization has made Greatest Progress in the Great Plains Region. L. A. Reynoldson. pp. 417-420. (983)

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PUBLISHED IN 1932 - Continued

Yearbook of Agriculture, 1932 - Continued

(Articles)

Mechanization in South Has Been Retarded by Lack of a Cotton-Picking Machine. L. A. Reynoldson and B. H. Thibodeaux. pp. 428-431. (986)

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Processed Reports, U.S.D.A.

** Farm Management and Its Application to Southern Agriculture. C. L. Holmes. (989)

** Farmers' Response to Price in the Production of Market Milk. Mordecai Ezekiel, Emil Rauchenstein, and Oris V. Wells. (990)

Grape Varieties, Yields, Production Costs, and Cost of Maintaining Vines and Trellis, New York, Pennsylvania, Michigan and Arkansas Vineyards. G. P. Scoville. (Summarized in Cornell Experiment Station Bulletin No. 605 and No. 628, with emphasis on New York data. See items 1083 and 1111.) (991)

** Use of Outlook Information in Farm-Business Planning in the Cotton Belt. B. H. Thibodeaux and Oris V. Wells. (992)

State Publications of Cooperative Studies

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No. 275 - Relation of Central Market Prices of Strawberries to Production Planning. Orville J. Hall. (993)

PUBLISHED IN 1932 - Continued

State Publications of Cooperative Studies - Continued

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- No. 195 - A Method of Determining What to Produce. (Budgeting the Farm Program on the Twin Falls Irrigation Project.) Byron Hunter and Paul A. Eke. (994)

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- No. 369 - The Human Factor in the Management of Indiana Farms. W. W. Wilcox and O. G. Lloyd. (995)

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- Central Indiana Farm Business Summary for 1931, Small Farms (Less than 125 acres tillable). George W. Collier and O. G. Lloyd. (996)

- Central Indiana Farm Business Summary for 1931, Medium Sized Farms (125 to 225 tillable acres). George W. Collier and O. G. Lloyd. (997)

- Central Indiana Farm Business Summary for 1931, Large Farms (More than 225 acres tillable). George W. Collier and O. G. Lloyd. (998)

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- Yields and Costs of Producing the 1931 Wheat Crop in Southwestern Kansas. R. D. Nichols. (999)

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- No. 288 - Relation of Variations in the Human Factor to Financial Returns in Farming. W. W. Wilcox, Andrew Boss, and George A. Pond. (1001)

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PUBLISHED IN 1932 - Continued

State Publications of Cooperative Studies - Continued

Minnesota - Processed Reports - Continued

- No. 53 - Livestock Costs and Returns, Rock and Nobles Counties, 1931, With Averages for 1929 and 1930. George A. Sallee, G. A. Pond, and R. H. Loreaux. 1932. (1003)
- 54 - Preliminary Report, Farm Accounting Route, Rock and Nobles Counties, 1929-1930-1931. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1004)

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- No. 204 - Organization, Feeding Methods and Other Practices Affecting Returns on Irrigated Dairy Farms in Western Montana. Sherman E. Johnson, J. O. Tretsven, Mordecai Ezekiel, and O. V. Wells. (1005)

New Jersey - Experiment Station Bulletins

- No. 534 - Farm Profits and Factors Influencing Farm Profits on 176 Dairy Farms in Hunterdon County. A. G. Waller and Emil Rauchenstein. (1006)
- 542 - Farm Profits and Factors Influencing Farm Profits on 98 Dairy Farms in Sussex County. A. G. Waller and Emil Rauchenstein. (1007)

New Mexico - Experiment Station Bulletins

- No. 204 - Economics of Sheep Production in Western New Mexico. A. L. Walker, J. L. Lantow, and K. P. Pickrell. (1008)

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- In 1931 Farms with Equal Grain Yields Show Differences in Net Incomes Per Acre. H. R. Danielson. (1009)

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- No. 6 - Tractor and Horse Power in the Wheat Area of South Dakota. C. M. Hampson and Poul Christophersen. (1010)

Texas - Experiment Station Bulletins

- No. 453 - An Economic Study of Farm Organization in the Piney Woods Farming Area of Texas. C. A. Bonnen, B. H. Thibodeaux, and J. F. Criswell. (1011)

PUBLISHED IN 1932 - Continued

State Publications of Cooperative Studies - Continued

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Lynn, Dawson, Lamb, and Hockley Counties, Texas, 1931).
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item 1282.) (1012)

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the Production and Marketing of Poultry Products in Utah.
W. P. Thomas and Marion Clawson. (Also published in Utah
Experiment Station Bulletin No. 244. See item 1052.) (1013)

PUBLISHED IN 1933

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No. 1715 - Methods and Costs of Husking Corn in the Field.
Kenneth H. Myers. (1014)

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- ** 348 - Use of the Exponential Yield Curve in Fertilizer Experiments.
W. J. Spillman. (1016)
- 359 - Farmers' Response to Price in Hog Production and Marketing.
Oris V. Wells. (1017)
- ** 367 - The Use of Winter Legumes in the Southeastern States.
A. D. McNair and Roland McKee. (1018)
- ** 380 - Sweetclover in Great Plains Farming. M. A. Crosby. (1019)
- ** 384 - Utilization and Cost of Power on Corn Belt Farms.
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E. W. McComas, and W. H. Youngman. (1020)

Yearbook of Agriculture, 1933
(Articles)

American Cotton Holds Ground Despite Growth of Foreign Competition. Lawrence Myers, L. D. Howell, and B. H. Thibodeaux. pp. 97-107. (1021)

Farmers Resourceful and Prompt in Making Needed Readjustments. C. L. Holmes and V. N. Valgren. pp. 369-384. (1022)

(Statistics)

Farm Returns, 1923-1931. (Prepared by S. W. Mendum and Liary B. Thompson.) pp. 704-705. (Also published in Yearbook Separate. **1353, Farm Business and Related Statistics; and in Crops and Markets, Nov. 1932.) (1023)

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The Background of the Present Dairy Situation. C. L. Holmes. (1028)

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State Publications of Cooperative Studies - Continued

Florida - Processed Reports

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No.431 - A Study of Farm Organization with Special Reference to Hog Production. John R. Fain and W. A. Minor, Jr. (1033)

434 - Utilization and Cost of Farm Power in Georgia. John R. Fain and Others. (1034)

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No.198 - Profitable Systems of Farming for the Idaho Falls Area. Paul A. Eke and Neil W. Johnson. (1035)

Indiana - Experiment Station Bulletins

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No. 56 - Cost of Crop Production, Stevens County, 1932. Geo. A. Sallee, Geo. A. Pond, and Robert H. Loreaux. (1039)

57 - Annual Report of the Farm Management Service for Farmers in Southeast Minnesota for Year 1932. W. P. Ranney and G. A. Pond. (1040)

58 - Livestock Costs and Returns, Stevens County, 1932. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1041)

PUBLISHED IN 1933 - Continued

State Publications of Cooperative Studies - Continued

- Minnesota - Processed Reports - Continued
- No. 59 - Preliminary Report, Farm Accounting Route, Stevens County, 1932. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1042)
- Montana - Experiment Station Bulletins
- No. 278 - Farm Organization as Affected by Mechanization. E. A. Starch. (1043)
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- New Mexico - Extension Circulars
- No. 124 - Estimated Returns from Operating an 80-Acre Mesilla Valley Farm Under Eight Different Plans in 1932. L. H. Hauter and Byron Hunter. (1046)
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- No. 208 - Farm Production Costs in Oklahoma, 1931. P. H. Stephens. (1049)
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PUBLISHED IN 1933 - Continued

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No. 244 - Economic Factors Affecting Poultry Production and
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Thomas and Marion Clawson. (See items 978 and
1013.) (1052)

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No. 289 - A Study of the Organization and Management of Early
Potato Farms in Eastern Virginia. C. W. Crickman,
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and 920.) (1053)

Washington - Experiment Station Bulletins

No. 288 - Present Land Uses - Washington Types of Farming
Series, Part I, Rex E. Willard and Neil W. Johnson.
(1054)

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No. 114 - Farm Family Living in Wisconsin. E. L. Kirkpatrick,
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Family Living in Wisconsin. E. L. Kirkpatrick,
P. E. McNall, and May L. Cowles. (1056)

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No. 1724 - Farm Practice With Lespedeza. H. A. Miller. (1057)

1725 - Methods and Costs of Filling Silos in the North
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PUBLISHED IN 1934 - Continued

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Economic Aspects of Chicken and Egg Production in the United States - Organization and Distribution of the Industry. Marion Clawson. (1063)

Factors Affecting Returns to Louisiana Strawberry Growers. H. R. Cooper and J. W. Park. (1064)

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No. 207 - Types of Farming in Idaho - Part I - Agricultural Resources and Factors Affecting Their Use. Harold A. Vogel and Neil W. Johnson. (1068)

208 - Types of Farming in Idaho - Part II - The Type of Farming Areas. Neil W. Johnson and Harold A. Vogel. (1069)

PUBLISHED IN 1934 - Continued

State Publications of Cooperative Studies - Continued

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No. 389 - Adjusting Central Indiana Farming to Corn Borer Conditions. George W. Collier and Lynn Robertson. (1071)

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Methods and Costs of Producing Wheat in Southwestern Kansas. J. A. Hodges. (1073)

Kentucky - Experiment Station Bulletins

No. 347 - Factors for Successful Farm Management in Todd, Christian and Warren Counties. W. L. Rouse. (1074)

351 - Farm Organization and Family Incomes in Knott County. W. D. Nicholls and W. L. Rouse. (1075)

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No. 254 - A Study of Farm Organization in Southeastern Michigan. P. G. Minneman and E. B. Hill. 1934. (See items 893, 958, and 1000.) (1076)

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No. 301 - Beef Cattle Production in Minnesota. C. W. Crickman, George A. Sallee, and W. H. Peters. (1077)

314 - Factors Causing Variations in Earnings Among Dairy Farmers in Southeastern Minnesota. G. A. Pond, W. P. Ranney, and C. W. Crickman. (1078)

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No. 61 - Costs of Crop Production, Stevens County, 1933. Geo. A. Sallee, Geo. A. Pond, and Robert H. Loreaux. (1079)

PUBLISHED IN 1934 - Continued

State Publications of Cooperative Studies - Continued

Minnesota - Processed Reports - Continued

- No. 62 - Annual Report of the Farm Management Service for Farmers in Southeast Minnesota for the Year 1933. W. P. Ranney and G. A. Pond. (1080)
- 64 - Livestock Costs and Returns, Stevens County, 1933. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1081)
- 65 - Preliminary Report, Farm Accounting Route, Stevens County, 1933. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1082)

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- No. 605 - An Economic Study of Grape Farms in Eastern United State. Part I. Production. G. P. Scoville. (See items 991, 1029 and 1062.) (1083)

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- No. 305 - Types of Farming in Pennsylvania. Emil Rauchenstein and F. P. Weaver. (1084)

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- No. 19 - An Economic Study of Farms in the Spring Wheat Area of South Dakota. C. M. Hampson and Poul Christophersen. (1085)
- 20 - Estimated Returns From Farms of Large, Medium, and Small Size of Business in the Spring Wheat Area of South Dakota. C. M. Hampson and Poul Christophersen. (1086)
- 21 - Estimated Returns From Operating 800 Acres in the Spring Wheat Area Under Four Different Plans - A Method of Determining What to Produce. C. M. Hampson and Poul Christophersen. (1087)

Texas - Processed Reports

- Farm Business Report, High Plains Cotton Area, 1933. (Preliminary Report of a Farm Management Study in Lubbock, Lynn, Dawson, Lamb, and Hockley Counties, Texas. 1933). G. A. Bonnen, A. C. Magee, and B. H. Thibodeaux. (Also published in Texas Experiment Station Bulletin 568. See item 1282.) (1088)

PUBLISHED IN 1934 - Continued

State Publications of Cooperative Studies - Continued

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No. 300 - Trends in Agriculture in Washington 1900 to 1930 -
Types of Farming Series, Part II. Neil W. Johnson
and Rex E. Willard. (1089)

301 - Nature and Distribution of Types of Farming in
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PUBLISHED IN 1935

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* No. 481 - Organization and Management of Apairies Producing Extracted
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G. E. Marvin. 5¢. (1091)

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The Agricultural Situation

Volume 19, No. 2. Feb. 1935

Corn Belt Farming in 1935. George W. Collier. pp.9-11. (1093)

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pp. 7-8. (1094)

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1933. (Prepared by M. R. Cooper and Catherine A. Scanlin.)
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PUBLISHED IN 1935 - Continued

Processed Reports, - U.S.D.A.

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- Cost of Production of Dry Beans. H. W. Hawthorne. (1097)
Cost of Production of Asparagus. H. W. Hawthorne. (1098)
Cost of Production of Fresh Beans. H. W. Hawthorne. (1099)
Cost of Production of Cabbage. H. W. Hawthorne. (1100)
Cost of Production of Melons. H. W. Hawthorne. (1101)
Cost of Production of Onions. R. P. Matteson and
H. W. Hawthorne. (1102)
Cost of Production of Fresh Peas. H. W. Hawthorne. (1103)
- Influences that Affect Costs and Returns From the Tobacco Enterprise on Virginia Fire-Cured Tobacco Farms. A. P. Brodell and W. J. Nuckolls, Jr. (1104)
- A National Program of Farm Management Research. C. L. Holmes. (1105)

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- No. 413 - Type of Farming Areas in Colorado. Byron Hunter, L. A. Moorhouse, R. T. Burdick, and H. B. Pingrey. (1106)

Florida - Experiment Station Bulletins

- No. 287 - Economic Study of Absentee Ownership of Citrus Properties in Florida. H. W. Hawthorne and J. E. Turlington. (1107)

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- No. 357 - Types of Farming in Kentucky. B. Poundstone and W. J. Roth. (1108)

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- No. 07 - Annual Report of the Farm Management Service for Farmers in Southeast Minnesota for the Year 1934. W. P. Ranney and G. A. Pond. (1109)
- 69 - A Preliminary Report of Data Secured in 1934 on the Farm Accounting Route in Stevens County, Minnesota, G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1110)

PUBLISHED IN 1935 - Continued

State Publications of Cooperative Studies - Continued

Montana - Experiment Station Bulletins

No. 295 - Economic Changes in Montana's Wheat Area.
E. A. Starch. (1111)

302 - The Economics of Range Sheep Production in
Montana. M. H. Saunderson and Louis Vinke. (1112)

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No. 628 - An Economic Study of Grape Farms in Eastern
United States. Part II. Harvesting and
Marketing. G. P. Scoville. (See items 991,
1029 and 1062.) (1113)

Oregon - Experiment Station Circulars

No. 114 - Graphic Summary of Agriculture and Land Use
in Oregon. H. D. Scudder and E. B. Hurd. (1114)

Utah - Processed Reports

Agriculture in Utah - Statistical Presentation of
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Marion Clawson and George T. Blanch. (1115)

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No. 131 - Forces Affecting Wisconsin Agriculture with
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W. J. Roth. (1116)

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Appendix Tables for Research Bulletin 131, Forces
Affecting Wisconsin Agriculture. P. E. McNall and
W. J. Roth. (1117)

PUBLISHED IN 1936

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Volume 20, No. 2. Feb. 1936.

The Farm Management Situation in the Corn Belt.
C. W. Crickman. pp. 8-10. (1118)

PUBLISHED IN 1936 - Continued

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Compilations of available data collected by Federal and State Agencies pertaining to Cost of Production of Truck Crops and Citrus Fruits as follows:

Cost of Production of Sweet Corn. H. W. Hawthorne. (1121)
Cost of Production of Sweet Potatoes. H. W. Hawthorne. (1122)
Cost of Production of Tomatoes. H. W. Hawthorne. (1123)
Cost of Production of Citrus Fruits. H. W. Hawthorne. (1124)

A Study of Ranch Organization and Operation in North-Central Texas. V. V. Parr and R. S. Kifer. (See items 471, 517 and 546.) (1125)

Utilization of Tractors and Cost of Tractor Power on Grain Farms, Northern Great Plains and Pacific Northwest, 1933. R. S. Washburn and R. S. Kifer. (1126)

Cost of Operating Farm Motor Trucks on Grain Farms, Northern Great Plains and Pacific Northwest, 1933. R. S. Washburn. (1127)

Tillage, Planting, and Harvesting Equipment on Grain Farms and Rates of Doing Field Work with These Implements When Drawn with Horse and with Tractor Power, Northern Great Plains and Pacific Northwest. R. S. Washburn and Della Merrick. (1128)

Utilization of Combined Harvester-Threshers and Cost of Harvesting Small Grains with a Combine, Northern Great Plains and Pacific Northwest, 1933. R. S. Washburn. (1129)

Apples: Yields, Prices, Returns Per Acre, and Trend in Plantings of Important Varieties Grown in Selected Districts of the East, (Va., W. Va., Md., Pa., and Del.). W. H. Youngman, R. P. Matteson, and C. J. Blair, Jr.) (1130)

The World Cotton Situation - Part II - Cotton Production in the United States. C. L. Holmes and B. H. Thibodeaux, and Others in the Divisions of Farm Management and Costs, Cotton Marketing, Statistical and Historical Research, and Foreign Agricultural Service. (1131)

Statistics Relating to the Apple Industry, 1936. (Prepared by M. R. Cooper for the use of Outlook Workers.) (1132)

PUBLISHED IN 1936 - Continued

Processed Reports, U.S.D.A. - Continued

Farm Returns 1935, with Comparisons. (Prepared by S. W. Mendum.)
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Summaries from "Regional Adjustment Project," cooperatively conducted
with AAA and State Agricultural Experiment Stations.

The County Planning Project: A Statistical Summary of Results
Obtained in 1935-36. (1134)

Recommended Adjustments in Land Use for the North Central States.
(A Preliminary Estimate by Type-of-Farming Areas.) (1135)

Table IV: Distribution of Land Among Selected Uses, 1929 and
Recommended, Southern and East-Central Regions. (Preliminary
Report by Type-of-Farming Areas.) (1136)

Processed Reports, W.P.A.

Cooperative project with Resettlement Administration. Reports edited
and processed by W.P.A. This series, including items 1168 and 1169,
was summarized in W.P.A. Research Monograph No. 16, Farming Hazards
in the Drought Area. See item 1212.

- K-1. Farm Relief and Rehabilitation Problems in the Loess
Hills of Central Nebraska (as typified by Sherman
County, Neb.). R. S. Kifer. (1137)
- K-2. Natural and Economic Factors Affecting Rural Rehabilita-
tion Problems in Central South Dakota (as typified by
Hyde County, South Dakota). H. L. Stewart. (1138)
- K-3. Conditions in the Southwestern Wheat Area Which Affect the
Rehabilitation Program (as typified by Perkins County,
Nebraska). H. M. Pevehouse. (1139)
- K-4. Natural and Economic Factors Affecting Rural Rehabilitation
Problems in Southwestern North Dakota (as typified by
Hettinger County). H. L. Stewart. (1140)
- K-5. Natural and Economic Factors Which Affect Rural Rehabilita-
tion on the North Plains of Texas (as typified by Dallam
County, Texas). H. M. Pevehouse. (1141)
- K-6. Natural and Economic Factors Which Affect Rural Rehabilita-
tion in the High Plains Area of Eastern Colorado (as
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(1142)

PUBLISHED IN 1936 - Continued

Processed Reports, W.P.A. - Continued

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- K-7. Natural and Economic Factors Affecting Rural Rehabilitation Problems in Northwestern North Dakota and Northeastern Montana (as typified by Divide County, North Dakota). H. L. Stewart. (1143)
- K-8. Natural and Economic Factors Affecting Rural Rehabilitation in Central North Dakota (as typified by Sheridan County, North Dakota). H. L. Stewart. (1144)
- K-9. Natural and Economic Factors Affecting the Possibility of Closer Settlement in the Red River Valley of Eastern North Dakota (as typified by Traill County, North Dakota). H. L. Stewart. (1145)
- K-10. Natural and Economic Factors Affecting Rehabilitation in the Upper South Plains of the Texas Panhandle and the High Plains of Eastern New Mexico (as typified by Curry County, New Mexico). H. M. Pevehouse. (1146)
- K-11. The Agricultural Situation in the Intensive Livestock Production Area of Southeastern South Dakota (as typified by Moody County, South Dakota). H. L. Stewart. (1147)

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Economic Considerations Affecting Permit Distribution Policy on Public Range Lands, Yampa River Drainage, Colorado - III The Agricultural Situation - An Economic Survey. R. T. Burdick and Marion Clawson. (In cooperation with Agricultural Adjustment Administration and U. S. Forest Service). (1148)

Minnesota - Processed Reports

- No. 71 - A Preliminary Report of Crop Production Costs - From Data Secured in 1935 on the Farm Accounting Route in Winona County, Minnesota. Geo. A. Sallee, Geo. A. Pond, and Robert H. Loreaux. (1149)
- 72 - Annual Report of the Farm Management Service for Farmers in Southeast Minnesota for the Year 1935. W. P. Ranney and G. A. Pond. (1150)

State Publications of Cooperative Studies - Continued

Minnesota - Processed Reports - Continued

- No. 73 - A Preliminary Report of Data Secured in 1935 on the Farm Accounting Route in Stevens County, Minnesota. G. A. Sallee and G. A. Pond. (1151)
- 75 - A Preliminary Report of Livestock Costs and Returns From Data Secured in 1933 on the Farm Accounting Route in Winona County, Minnesota. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1152)
- 76 - A Preliminary Report of Data Secured in 1935 on the Farm Accounting Route in Winona County, Minnesota. G. A. Sallee, G. A. Pond, and R. H. Loreaux. (1153)

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- No. 328 - Types of Farming in Montana - Part I. Physical Environment and Economic Factors Affecting Montana Agriculture. Neil W. Johnson and M. H. Saunderson. (1154)

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- Farm Business Report, High Plains Cotton Area, 1934. (Preliminary Report of a Farm Management Study in Lubbock, Lynn, Dawson, Lamb, and Hockley Counties, Texas, 1934.) C. A. Bonnen, A. C. Magee, and B. H. Thibodeaux. (Also published in Texas Experiment Station Bulletin 503. See item 1282.) (1155)

Utah - Experiment Station Bulletins

- No. 275 - Types of Farming in Utah. Marion Clawson, Walter U. Fuhriman, George T. Blanch, and W. Preston Thomas. (1156)

Virginia - Experiment Station Bulletins

- No. 304 - A Study of the Organization and Management of Farms in Grayson County, Virginia. J. J. Vernon, T. M. Dean, and H. W. Hawthorne. (1157)

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- No. 335 - Trends and Desirable Adjustments in Washington Agriculture. A. E. Orr, C. P. Heisig, J. C. Knott, and C. L. Vincent. (In cooperation with Agricultural Adjustment Administration.) (1158)

PUBLISHED IN 1937

The Agricultural Situation

Volume 21, No. 1. Jan. 1, 1937.

High Priced Feed Caused Liquidation of Stock. C. W. Crickman.
pp. 6-7. (1159)

Volume 21, No. 4, April 1, 1937.

Mechanization Reduces Labor in Growing Wheat. M. R. Cooper.
pp. 12-14. (1160)

Volume 21, No. 6. June 1, 1937.

Displacement of Horses and Mules by Tractors. Martin R. Cooper.
pp. 22-24. (1161)

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Cost of Production (Corn, wheat, oats, and cotton) for 1935.
(Prepared by M. R. Cooper and Catherine A. Scanlin.) pp. 396-398.
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Processed Reports, U.S.D.A.

Compilations of available data collected by Federal and State Agencies pertaining to Cost of Production of Truck Crops as follows:

Cost of Production of Beets, Carrots, Cauliflower, Celery, Cucumbers, Eggplant, Lettuce, Okra, Peppers, Radishes, Spinach, Squashes, and Turnips. H. W. Hawthorne. (1164)

Cost of Production of Potatoes. R. P. Matteson and H. W. Hawthorne. (1165)

Cattle Ranching and Range Utilization in Western North Dakota. M. B. Johnson and R. D. Jennings. (1166)

PUBLISHED IN 1937 - Continued

Processed Reports, U.S.D.A. - Continued

Summaries from "Regional Adjustment Project," cooperatively conducted with AAA and State Agricultural Experiment Stations.

Table IV: Distribution of Land Among Selected Uses, Western Wheat Regions, 1929 and Recommended. (1167)

Processed Reports, W.P.A.

Cooperative project with Resettlement Administration. Reports edited and processed by W.P.A. This series, including items 1137-1147 was summarized in W.P.A. Research Monograph No. 16, Farming Hazards in the Drought Area. See item 1212.

K-12. Natural and Economic Factors Affecting Rural Rehabilitation on the South Plains of the Texas Panhandle (as typified by Hale Co., Texas). H. M. Pevehouse. (1168)

K-13. Natural and Economic Factors Affecting Rural Rehabilitation in Southeastern Wyoming as typified by Goshen Co.). H. L. Stewart. (1169)

State Publications of Cooperative Studies

Arizona - Processed Reports

Occurrence of Shrubs on Range Areas in Southeastern Arizona. Arthur Upson, W. J. Cribbs, and E. B. Stanley. (In cooperation with Agricultural Adjustment Administration.) (1170)

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AE-631 - Farm Business Survey on 123 Farms Located in East and West Marion Township, Williamson County, Illinois, 1936. E. L. Sauer and H. C. M. Case. (In cooperation with Soil Conservation Service.) (1171)

AE-632 - Farm Business Survey on 58 Farms Located in Perryton Township, Mercer County, Illinois, 1936. E. L. Sauer and H. C. M. Case. (In cooperation with Soil Conservation Service.) (1172)

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PUBLISHED IN 1937 - Continued

State Publications of Cooperative Studies - Continued

Illinois - Processed Reports - Continued

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361 - Livestock Production in Iowa as Related to Hay and Pasture. Walter W. Wilcox. (In cooperation with Agricultural Adjustment Administration.) (1177)

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No. 81 - A Preliminary Report on Crop Production Costs from Data Secured in 1930 on the Farm Accounting Route in Winona County, Minnesota. S. A. Engene, Geo. A. Pond, and Robert H. Loreaux. (1178)

82 - A Preliminary Report of Data Secured in 1930 on the Farm Accounting Route in Stevens County, Minnesota. S.A. Engene and G. A. Pond. (1179)

83 - Annual Report of the Farm Management Service for Farmers in Southeast Minnesota for the year 1936. W. P. Ranney and G. A. Pond. (1180)

85 - A Preliminary Report of Livestock Costs and Returns from data secured in 1930 on the Farm Accounting Route in Winona Co., Minn. S. A. Engene, G. A. Pond, H. R. Loreaux. (1181)

86 - A Preliminary Report of Data secured in 1930 on the Farm Accounting Route in Winona Co., Minnesota. S.A. Engene, G.A. Pond, R. H. Loreaux. (1182)

State Publications of Cooperative Studies - Continued

Minnesota - Processed Reports - Continued

- No. 88 - Report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Resettlement Administration for the Year 1936. (For owner-operated farms in Southern Minnesota.) W. P. Ranney and G. A. Pond. (In cooperation with the Resettlement Administration.) (1183)
- 89 - Report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Resettlement Administration for the Year 1936. (For tenant-operated farms with cash leases in Southern Minnesota.) W. P. Ranney and G. A. Pond. (In cooperation with the Resettlement Administration.) (1184)
- 90 - Report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Resettlement Administration for the Year 1936. (For tenant-operated farms with crop share and cash leases in Southern Minnesota.) W. P. Ranney and G. A. Pond. (In cooperation with the Resettlement Administration.) (1185)
- 91 - Report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Farm Security Administration for the Year 1936. (For owner-operated farms in Northern Minnesota. (In cooperation with the Farm Security Administration.) (1186)
- 92 - Report of the Farm Management Service for Farmer-Borrowers of the Rural Rehabilitation Division of the Farm Security Administration. (Tenant-operated farms with cash leases.) W. P. Ranney and G. A. Pond. (In cooperation with the Farm Security Administration.) (1187)
- 93 - Report of the Farm Management Service for Farmer-Borrowers of the Rural Rehabilitation Division of the Farm Security Administration. (Tenant-operated farms with crop share and cash leases.) W. P. Ranney and G. A. Pond. (In cooperation with the Farm Security Administration.) (1188)
- 94 - Summary report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Farm Security Administration for the Year 1936. W. P. Ranney and G. A. Pond. (In cooperation with the Farm Security Administration.) (1189)

PUBLISHED IN 1937 - Continued

State Publications of Cooperative Studies - Continued

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New Mexico - Processed Reports

A Preliminary Report, Economic Survey, Clovis Project Area, New Mexico #9. (In cooperation with the Soil Conservation Service.) (1191)

Ohio - Processed Reports

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Pennsylvania - Experiment Station Bulletins

No. 350 - Dairy Farm Organization and Management in South-eastern Pennsylvania. T. D. Johnson and J. E. McCord. (1193)

Processed Reports

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Strip Cropping in Southwestern Pennsylvania. David H. Walter. (In cooperation with the Soil Conservation Service.) (1195)

Texas - Experiment Station Bulletins

No. 544 - A Description of the Agriculture and Types of Farming Areas in Texas. C. A. Bonnen and B. H. Thibodeaux. (See item 977.) (1196)

Processed Reports

Farm Business Report, Elm Creek Watershed, Black Prairie Area, Texas, 1933. B. H. Thibodeaux, C. H. Bates, and C. A. Bonnen. (In cooperation with the Soil Conservation Service.) (1197)

PUBLISHED IN 1937 - Continued

State Publications of Cooperative Studies - Continued

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C. A. Bonnen, A. C. Magee, and B. H. Thibodeaux. (Also
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item 1282.) (1198)

West Virginia - Processed Circular

No. 24 - Strip-Cropping in Northern West Virginia as
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(In cooperation with the Soil Conservation
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PUBLISHED IN 1938

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Shifts in Corn Acreage. G. W. Collier. pp. 22-23. (1200)

Land Policy Review

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Farm Management Aspects of Land Planning. Sherman E. Johnson.
pp. 6-8. (1201)

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PUBLISHED IN 1938 - Continued

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Processed Reports, U.S.D.A.

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Large-Scale Farming in the United States. D. Curtis Mumford. (1207)

Range Lands of Northeastern Nevada. (Their Proper and Profitable Use.) Marion Clawson, Cruz Venstrom, and T. Dean Phinney. (1208)

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PUBLISHED IN 1938 - Continued

State Publications of Cooperative Studies - Continued

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- No. 95 - A Preliminary Report of Crop Production Cost from Data Secured in 1937 on the Farm Accounting Route in Winona County, Minnesota. S. A. Engene, G. A. Sallee, G. A. Pond, and Fred E. Wetherill. (1216)
- 96 - Annual Report of the Farm Management Service for Farmers in Southeast Minnesota for the year 1937. W. P. Ranney and G. A. Pond. (1217)
- 99 - A Preliminary Report of Livestock Costs and Returns from Data Secured in 1937 on the Farm Accounting Route in Winona County, Minnesota. G. A. Sallee, G. A. Pond, and F. E. Wetherill. (1218)
- 100 - A Preliminary Report of Data Secured in 1937 on the Farm Accounting Route in Winona County, Minnesota. G. A. Sallee, G. A. Pond, and F. E. Wetherill, Routeman. (1219)
- 101 - Third Annual Report of the Farm Management Service for Farmers in Soil Conservation Demonstration Areas for the Year 1937. (April 1937 to March 1938.) W. P. Ranney, G. A. Pond, J. C. Jensen, A. B. Sanford, and C. Herman Welch, Jr. (In cooperation with the Soil Conservation Service.) (1220)
- 102 - Report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Farm Security Administration for the Year 1937. Southern Minnesota. W. P. Ranney and G. A. Pond. (In cooperation with the Farm Security Administration.) (1221)
- 103 - Report of the Farm Management Service for Farmer-Borrowers of Rural Rehabilitation Division of the Farm Security Administration for the Year 1937. Northern Minnesota. W. P. Ranney and G. A. Pond. (In cooperation with the Farm Security Administration.) (1222)

Missouri - Experiment Station Research Bulletins

- 282 - Effects of Better Selection of Crops and Pastures on Farm Income in Missouri. G. W. Collier and O. R. Johnson. (1223)
- 284 - Types of Farming in Missouri. Conrad H. Hammer, Walter J. Roth and O. R. Johnson. (1224)

PUBLISHED IN 1938 - Continued

State Publications of Cooperative Studies - Continued

New Jersey - Experiment Station Bulletins

- No. 649 - Power Machinery Effects on Management and on Costs of Potato Farming in New Jersey. John W. Carncross, Allen G. Waller, and Emil Rauchenstein. (1225)

Pennsylvania - Experiment Station Bulletins

- No. 369 - An Economic Study of Farming in the Crooked Creek Area, Indiana and Armstrong Counties, Pennsylvania. David H. Walter. (In cooperation with the Soil Conservation Service.) (1226)

Processed Reports

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South Carolina - Experiment Station Bulletins

- No. 315 - Farm Adjustments in Saluda County, South Carolina. M. C. Rochester and Oscar Steanson. (1228)

Wyoming - Experiment Station Bulletins

- No. 228 - Type of Farming and Ranching Areas in Wyoming. Byron Hunter, H. W. Pearson and A. F. Vass. (1229)

PUBLISHED IN 1939

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- No. 682 - Plantation Organization and Operation in the Yazoo-Mississippi Delta Area. E. L. Langsford and B. H. Thibodeaux. (1230)

The Agricultural Situation

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- Increasing Use of the Combine. A. P. Brodell. pp. 14-16. (1231)

PUBLISHED IN 1939 - Continued

The Agricultural Situation - Continued

Volume 23, No. 9. Sept. 1939

Mechanizing the Corn Harvest. A. P. Brodell. pp. 18-20. (1232)

Volume 23, No. 11. Nov. 1939

Horse, Mule Population Declines, M. R. Cooper. p. 30. (1233)

Land Policy Review

Volume II, No. 4. July-August, 1939.

Square Meals from Spare Acres. Oscar Steanson. pp. 1-6. (1234)

Volume II, No. 5. Sept.-Oct. 1939.

Definitions of "Efficient Farming." Sherman E. Johnson.
pp. 13-23. (1235)

Volume II, No. 5. Sept-Oct. 1939.

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Volume II, No. 6. Nov.-Dec. 1939.

The Migrants. II. New Farms on Newly Irrigated Land.
Carl P. Heisig. pp. 10-16. (1237)

Volume II, No. 6. Nov.-Dec. 1939.

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Marion Clawson. pp. 17-23. (1238)

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Processed Reports, U.S.D.A.

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- Changes Needed for the Production of an Adequate Food Supply. Oscar Steanson. (1242)
- Effects of Changing Prices upon Income to Land from Cattle and Sheep Ranching, as Illustrated by Data for Montana. Marion Clawson. (1243)
- Index Numbers of Farm Costs and Returns. M. R. Cooper. (1244)
- Analysis of Interregional Competition in Agriculture. S. E. Johnson, Frank T. Hady, Ronald L. Mighell, R. H. Allen, and Erling Hole. (1245)
- Regional Circular No. 1 - Food and Feed Needs in Georgia. Oscar Steanson, W. F. Lagrone and Robert Terry. (1246)
- Regional Circular No. 2 - Food and Feed Needs in Alabama. Oscar Steanson, W. F. Lagrone and Robert Terry. (1247)
- Regional Circular No. 3 - Food and Feed Needs in South Carolina. Oscar Steanson, W.F. Lagrone and Robert Terry. (1248)
- Production Costs and Returns. M. R. Cooper. (1249)
- Size of Farm in Relation to Family Requirements in the Northern Plains. T. S. Thorfinnson, F. D. Cronin, and R. B. Hile. (1250)
- Acreage of Wheat, Oats, and Corn for Grain Harvested by Specified Methods at Custom Harvest and Labor Rates, 1938. (Prepared by A. P. Brodell. Published in A.M.S. release, "Farm Wage Rate Index Down 3 Points from Year Ago," July 1939.) (1251)
- Considering Farm Adjustments in Sub-Area 33, Type of Farming Area VII, Montana. Neil W. Johnson. (1252)
- A Comparison of the Determinations of AAA, Form NCR-203 and 1938 Corn Acreage Allotments with Recommendations of Soil Specialists for 166 Farms in Iowa. R. D. Jennings and W.W. Wilcox. (1253)
- Factors of Economic Importance in Southern Agriculture. B. H. Thibodeaux. (1254)
- Observed Results of the Experimental Agricultural Conservation Program in Boone County, Indiana. (In cooperation with the AAA. Not for general distribution.) (1255)
- Sorting and Sampling Farms for Soil Conservation Research. Neil W. Johnson. (1256)

PUBLISHED IN 1939 - Continued

Processed Reports, U.S.D.A. - Continued

- Organization and Crop Production Practices on Grain Farms in Selected Areas of the Pacific Northwest. R. S. Washburn. (1257)
- Food, Feed, and Southern Farms. Oscar Steanson and E. L. Langsford. (1258)
- Forces Causing Dairy Farmers to Make Changes in Their Farm Organizations in Barron County, Wisc. Raymond P. Christensen. (1259)

State Publications of Cooperative Studies

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- No. 202 - Farming Conditions in Toombs County, Georgia. J. C. Elrod and Oscar Steanson. (1260)

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- No. 381 - The Farmer Looks at Soil Conservation in Southern Iowa. Arthur C. Bunce. (In cooperation with the Soil Conservation Service.) (1262)

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- The 1938 AAA Program in Iowa. II. What It Accomplished. Walter W. Wilcox and Roger P. Matteson. (1263)

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PUBLISHED IN 1939 - Continued

State Publications of Cooperative Studies - Continued.

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Tech. 138 - Farm Organization for Beef Production in Southwestern Minnesota. George A. Sallee, George A. Pond, and C. W. Crickman. (1266)

Processed Reports

No. 112 - A Study of Reported Crop Yields in Southeastern Minnesota. Hjalmer O. Anderson. (In cooperation with the Soil Conservation Service.) (1267)

A Study of Farming in the Prairie Creek Soil Conservation Demonstration Area, Rice County, Minnesota. C. Herman Welch, Jr., and Hjalmer O. Anderson. (In cooperation with the Soil Conservation Service.) (1268)

A Preliminary Report of a Study of Farming in the Gillmore Creek Soil Conservation Demonstration Area, Winona County, Minnesota. C. Herman Welch, Jr., and Hjalmer O. Anderson. (In cooperation with the Soil Conservation Service.) (1269)

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Montana - Experiment Station Bulletins

No. 367 - Farm Adjustments in Montana. Study of Area VII: Its Past, Present and Future. Neil W. Johnson. (1271)

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No. 314 - The Agricultural Conservation Program in New Hampshire. Harry C. Woodworth, Victor Smith, and Emil Rauchenstein. (1272)

New Jersey - Processed Reports

A.E. 11 - Farm Business Study of 25 Specialized Vegetable Farms in Monmouth County, New Jersey. John W. Carncross, Allen G. Waller and Charles Messer. (In cooperation with the Soil Conservation Service.) (1273)

PUBLISHED IN 1939 - Continued

State Publications of Cooperative Studies - Continued

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- No. 261 - Type of Farming and Ranching Areas in New Mexico.
Part I. Byron Hunter, P. W. Cockerill, and H. B. Pingrey. (1274)
- 267 - Type of Farming and Ranching Areas in New Mexico.
Part II. Byron Hunter, P. W. Cockerill and H. B. Pingrey. (1275)

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Farm Business and Farm Labor Used. Cedar Creek Soil Conservation Project Area, Franklin County, North Carolina, 1938. S.W. Atkins. (In cooperation with the Soil Conservation Service.) (1278)

Pennsylvania - Processed Reports

A Preliminary Economic Appraisal of the Soil Conservation Program in the Little Antietam Creek Watershed, Franklin County, Pennsylvania. David H. Walter. (In cooperation with the Soil Conservation Service.) (1279)

South Carolina - Experiment Station Bulletins

- No. 318 - Farming Possibilities in Horry County, South Carolina. Oscar Steanson, M. H. Sutherland, and M. C. Rochester. (1280)

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- No. 169 - Types of Farming in Tennessee. B. H. Leubke, S. W. Atkins, C. E. Allred, and W. J. Roth. (1281)

PUBLISHED IN 1939 - Continued

State Publications of Cooperative Studies - Continued

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- No. 568 - An Economic Study of Farm Organization and Operation in the High Plains Cotton Area of Texas. B. H. Thibodeaux, C. A. Bonnen, and A. C. Magee. (See items 1012, 1051, 1088, 1155, and 1198.) (1282)

Processed Reports

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- Tech. 64 - Flue-Cured Tobacco Farm Management. F. L. Underwood. (In cooperation with the Soil Conservation Service.) (1284)

Processed Reports

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- No. 374 - Farming Systems and Practices and Their Relationship to Soil Conservation and Farm Income in the Wheat Region of Washington. B. H. Pubols, A. E. Orr, and C. P. Heisig. (1286)

- 377 - Economic Conditions and Problems of Agriculture in the Yakima Valley, Washington: The Agriculture and Its Setting. E. B. Hurd and H. F. Hollands. (1287)

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- No. 291 - Certain Economic Aspects of Agriculture in Jackson County Soil Conservation Area. E. C. Weitzell. (In cooperation with the Soil Conservation Service.) (1288)

- 292 - Types of Farming in West Virginia. W. W. Armentrout and T. D. Johnson. (1289)

PUBLISHED IN 1939 - Continued

State Publications of Cooperative Studies - Continued

West Virginia - Experiment Station Bulletins - Continued

No. 293 - Economic Implications of Soil Conservation in Marshall County, West Virginia. E. C. Weitzell. (In cooperation with the Soil Conservation Service.) (1290)

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PUBLISHED IN 1940

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The Agricultural Situation

Vol. 24, No. 6. June 1940

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PUBLISHED IN 1940 - Continued

Land Policy Review

Vol. III, No. 1, Jan.-Feb. 1940

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Vol. III, No. 3, May-June 1940

The Migrants V. Stump Ranching. Marion Clawson, Davis McEntire, and C. P. Heisig. pp. 32-38. (1299)

Vol. III, No. 3, May-June 1940

Book Review: Farm Appraisal: Classification and Valuation of Farm Land and Buildings. S. W. Mendum. p. 39. (1300)

Vol. III, No. 3, May-June 1940

Book Review: Practical Farming for Beginners. Donald R. Rush. p. 40. (1301)

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Determining Input-Output Relationships in Milk Production. Einar Jensen. (1303)

Farm Returns 1938, With Comparisons. (Prepared by S. W. Mendum.) (1304)

Operation of Agricultural Conservation Programs in Illinois. G. E. Toben and H. C. M. Case. (1305)

Types of Farming in Mississippi. M. A. Crosby. (1306)

Probable Effects of the Agricultural Conservation Program on Livestock Production in the Midwest Dairy Region. Part I. A Summary of the Studies of Selected Areas. Sherman E. Johnson, Ronald L. Mighell, and Frank T. Hady. (1307)

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PUBLISHED IN 1940 - Continued

Processed Reports, U.S.D.A. - Continued

Probable Effects of the Agricultural Conservation Program on Livestock Production in the Midwest Dairy Region. Part IV. Four Wisconsin Areas - Areas with No Close Alternatives to Dairying. Sherman E. Johnson, Ronald L. Mighell, and Frank T. Hady. (1310)

Probable Effects of the Agricultural Conservation Program on Livestock Production in the Midwest Dairy Region, Part V. Southeastern Michigan - A Corn Belt Transition Area, and West-Central Michigan - An Area with No Close Alternatives to Dairying. Sherman E. Johnson, Ronald L. Mighell, and Frank T. Hady. (1311)

Analysis of the Present Program of Research in the Economics of Soil Conservation and Suggestions for Its Improvement. Neil W. Johnson. (1312)

Rural Rehabilitation Progress in Stearns County, Minnesota, I. A Summary Analysis. Warren R. Bailey. (1313)

Annual Report of the Division of Farm Management and Costs for the Year Ending June 30, 1939. (1314)

Mechanization, Its Relation to Farm Labor and the Farm Business - Tables and charts presented by Sherman E. Johnson at hearings before the Temporary National Economic Committee. (Also published in complete report of the Bureau of Agricultural Economics' testimony before the Temporary National Economic Committee.) (1315)

Mechanization and the Use of Labor on Farms.- Tables and charts presented by Sherman E. Johnson and R. S. Kifer at hearings before the Civil Liberties Committee. (1316)

Production Responses of Dairy Farmers in East-Central Minnesota. Edwin G. Strand and Erling Hole. (1317)

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