



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search

<http://ageconsearch.umn.edu>

aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

1.916
L612
Cop. 2
Reserve

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

AUG 18 1966

CURRENT SERIAL RECORDS

**RURAL ELECTRIFICATION
IN THE
UNITED STATES
1954-1964**

A list of selected references

*Library
List
No. 84*

NATIONAL AGRICULTURAL LIBRARY
United States Department of Agriculture
Washington, D.C.

PREFACE

This bibliography supplements Bibliographical Bulletin 24, issued April 1954, and contains selected references on the historical, sociological, and economic aspects of rural electrification in the United States during the years 1954-1964. Rural electric cooperatives, distribution and load, and effects of electrification are included.

This past decade was one of great changes in rural electrification. Now that most of the rural areas of the United States have electricity, the work of the United States Rural Electrification Administration and that of the local and statewide cooperatives is directed toward interties, generation and transmission, power plants of all types, territorial integrity, and development of rural areas.

References to rural telephones, refrigerators, locker plants, and freezers have been omitted, as have articles from farm papers and from local cooperative newsletters.

All references except those marked with an asterisk (*) were examined by the compiler.

The American Standard for Periodical Title Abbreviations, issued in 1964 by the American Standards Association, is the authority used for abbreviations. The abbreviation "Ref." indicates that the item contains at least ten references to other literature.

A list of Periodical Publications of Statewide Associations of Cooperatives may be found at the end of this bibliography, preceding the author index.

The compiler is grateful for the advice and assistance given to him by Hubert W. Kelley, Donald H. Cooper, and Charles U. Samenow of the Rural Electrification Administration, and to Ira Shesser and Charles J. Rice of the National Rural Electric Cooperative Association.

AVAILABILITY OF REFERENCES CITED

Loans. Most of the publications in the National Agricultural Library may be borrowed by employees of the Department of Agriculture and by other libraries. In requesting loans, please include the library call number found at the end of the citation. Loan of periodicals is restricted to the Washington, D. C. area. Please request loans through the Division of Lending, National Agricultural Library, Washington, D. C. 20250.

Free Distribution. Many publications of the Department of Agriculture and publications issued by the State Experiment Stations and the State Agricultural Extension Services may be obtained free of charge by applying direct to the issuing agency. The National Agricultural Library does not distribute them.

Reproduction. Most of the articles listed may be obtained in microfilm or photoprint form from the Photoduplication Section, National Agricultural Library. Copying charges for each periodical article or book are:

MICROFILMS: \$1.00 for each 30 pages or fraction copied from a single article or book.
PHOTOPRINTS: \$1.00 for each 4 pages or fraction copied from a single article or book.
RUSH SERVICE will be furnished upon payment of \$1.00 additional for each order.

Payment must accompany the order. Cash, Library coupons, check or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside of the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Superintendent of Documents coupons and requests to furnish photocopy to be paid from Superintendent of Documents Deposit funds cannot be honored. Credit may be extended only to Government agencies and institutions. Billing address should be indicated, including ZIP Code.

Library Coupons. National Agricultural Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Photoduplication Section, National Agricultural Library, Washington, D. C. 20250.

Foster E. Mohrhardt

Foster E. Mohrhardt
Director

SOURCES CONSULTED

Card Catalogs

National Agricultural Library
National Rural Electric Cooperative Association Library

Bibliographies and Indexes

Agricultural and Horticultural Engineering Abstracts 1954-1959
Agricultural Index 1954-Aug. 1964
Applied Science and Technology Index 1958-1964
Bibliographic Index 1954-1964
Bibliography of Agriculture 1954-1964
Biological and Agricultural Index Sept.-Dec. 1964
Business Periodicals Index 1958-1964
Cumulative Book Index 1954-1964
Engineering Index 1954-1964
Index of Economic Journals 1954-1959
Industrial Arts Index 1954-1957
Public Affairs Information Service Bulletin 1954-1964
Readers' Guide to Periodical Literature 1954-1964
Subject Guide to Books in Print 1965
Vertical File Service Catalog 1954-1964

TABLE OF CONTENTS

	PAGE
DEVELOPMENT	
History of Electrification - - - - -	1
Rural Electrification Administration - - - - -	2
 RURAL ELECTRIC COOPERATIVES	
General	
Development - - - - -	5
NRECA, Statewide Associations and Local Cooperatives - - - - -	6
Relations with the Power Industry - - - - -	9
Programs and Planning - - - - -	10
Organization and Management - - - - -	11
Finances and Loans - - - - -	12
Legal Aspects	
General - - - - -	15
Legislation - - - - -	16
Loans - - - - -	18
 DISTRIBUTION AND LOAD	
Utilization and Load Building	
General - - - - -	19
Appliances, Equipment, and Motors - - - - -	23
Wiring and Lighting - - - - -	26
Heating and Air Conditioning - - - - -	28
Automation and Mechanization - - - - -	29
Research - - - - -	32
Education - - - - -	33
Rates and Consumption - - - - -	35
Line Costs, Engineering, and Construction - - - - -	37
 POWER SUPPLY	
General - - - - -	38
Power Sources - - - - -	39
Generation and Transmission Loans - - - - -	42
 EFFECTS	
General - - - - -	43
Farm Production	
Farm Electrification - - - - -	47
Economic Value to Farmers - - - - -	49
Dairy Industry - - - - -	51
Poultry Industry - - - - -	53
Other Agricultural Products - - - - -	54
Rural Life - - - - -	55
Commercial and Industrial Development - - - - -	57
 PERIODICAL PUBLICATIONS OF STATEWIDE ASSOCIATIONS OF COOPERATIVES - - -	 59
 AUTHOR INDEX - - - - -	 61
SUBJECT INDEX - - - - -	67

RURAL ELECTRIFICATION IN THE UNITED STATES
1954-1964

A List of Selected References

Compiled by Dean Timothy Andrews
Division of Reference
Special Bibliographies Section

DEVELOPMENT

History of Electrification

1. ARDERY, P. P. A cloak of secrecy? Rural Elec. Mag. 21(6):38-40. Mar. 1963. 335.8 N21
Investor-owned power companies.
2. ASKEGAARD, D. H. 350,000 rural people remain without central station service. Rural Lines 9(7):6-7. Dec. 1962. A335.8 R88
3. BENNION, H. S. Seventy five years of electric light. Public Util. Fortn. 53(1):15-26. Jan. 7, 1954. 280.8 P966
4. CENTENNIAL of farm mechanization. Farm Elec. 9(2):7. Mar.-Apr. 1955. 335.8 F224
In connection with centennial of Michigan State College.
5. CONSUMERS will gain from East Kentucky integration. Rural Lines 1(3):10-11. Aug. 1954. A335.8 R88
6. ELLIS, C. T. A giant step. New York, Random House, 1966. 267 p. Not in Nat. Agr. Libr.
The story of rural electrification and natural resources development in the United States of America.
7. *ELLIS, C. T. People's electric systems must work together for abundant, low-cost power. Public power 14(5):16-19. May 1956. Not in Nat. Agr. Libr.
Rural electrification.
8. HENDRIX, R. S. How we attained 98 percent farms electrified. Tenn. Rural Elec. Bull. 5(12):4, 7. Dec. 1954. 335.8 T25
9. HINRICHS, H. S. Kansas: 29 years of rural electrification. Farm Elec. 8(4):1-3. July/Aug. 1954. 335.8 F224
10. MARTIN, R. C., ed. TVA: the first twenty years; a staff report. University, Ala., U. Ala. Press, 1956. 282 p. 280.002 M36
Some references to REA and rural electrification.
11. PARKER, F. E. The first 125 years; a history of distributive and service cooperation in the United States, 1829-1954. Superior, Wiss., Cooperative Pub. 1956. 462 p. 280.2 P22
The REA and the rural electric cooperative associations are both included.
12. SCHAEZNER, J. P. Rural electrification since the turn of the century. Agr. Eng. 38(6):442-452, 459. Ref. June 1957. 58.8 Ag83
Historical survey and a bibliography.
13. U. S. DEPT. OF AGRICULTURE. Yearbook of agriculture, 1960; power to produce. Washington, 1960. 480 p. 1 Ag84Y
14. VENNARD, E. The electric industry. Edison Elec. Inst. Bull. 31(7):265-272, 294. Aug. 1963. 335.8 Ed8
Rural electrification is also discussed.
15. WINSBOROUGH, R. M. A farm family visit to a powerhouse. Public Util. Fortn. 67(12):810-817. June 8, 1961. 280.8 P966
16. YOUNG, M. R. Rural electrification is the American way. Rural Elec. Mag. 13(5):13, 54, 56. Feb. 1955. 335.8 N21

*Not examined.

Rural Electrification Administration

17. AANDAHL, F. REA is not in danger! Capper's Farmer 65(10):20-22. Oct. 1954. 6 M693
New policy for low-cost power.
18. ADMINISTRATION officials speak on REA in 1963. Public Util. Fortn. 71(4):55-58. Feb. 14, 1963
280.8 P966
19. AIKEN, G. D. The debt rural America owes George Norris. N. Mex. Elec. News 11(11):12-15. Aug. 1961. 335.8 So84
Rural electrification.
20. BAKER, J. A. Area development as viewed at the national level; address at the annual meeting of the Southern Agricultural Workers Association, Jacksonville, Florida, February 5, 1962. Washington, U. S. D. A., 1962. 18 p. A281.29 B17
Role of REA in the Rural Areas Development Program.
21. BENSON, E. T. America's problems; address, May 21, 1959. Vital Speeches 25:552-555. July 1, 1959. 280.8 V83
22. CLAPP, N. M. Good neighbor policy; the role to power economy. Public Util. Fortn. 74(7):19-24. Sept. 24, 1964. 280.8 P966
23. CLAPP, N. M. REA administrator reports on RAD. Rural Elec. Minuteman 198:2, 3. Dec. 7, 1962. 335.8 R8895
24. CLAPP, N. M. Reviews REA progress. Public Util. Fortn. 69(6):400-405. Mar. 15, 1962. 280.8 P966
25. CLAPP outlines REA help for RAD. Rural Elec. Minuteman. 140:2; June 30, 1961. 335.8 R8895
26. CLAPP answers REA critics who claim rural electrification job is complete. Rural Elec. Minuteman. 261:1, 2. May 8, 1964. 335.8 R8895
27. DOHERTY, J. C. USDA steps up work on rural area development. Agr. Situation [Washington] 45(10):1-2. Oct. 1961. 1 Ec7Ag
REA assigned full time role.
28. ELLIS, C. T. Matter of motive (Rural Electrification Administration). Public Util. Fortn. 74(7): 82-88. Sept. 24, 1964. 280.8 P966
29. FICTION in the Reader's Digest. (Fancy vs. facts). Rural Elec. Minuteman 241:3 Dec. 6, 1963. 335.8 R8895
A rebuttal of the December, 1963 issue of the Reader's Digest article: The REA, a case study of bureaucracy run wild, by K. Gilmore and E. Methvin.
30. FLORENCE, E. H. Five year program cuts annual brush control budget. Rural Elec. Mag. 15(8):19, 60. May 1957. 335.8 N21
31. FOSTER analyzes REA program on radio network Rural Elec. Minuteman 10:3. June 20, 1958. 335.8 R8895
Partial text of remarks on his program-Mutal Broadcasting System on June 5, 1958.
32. FREEMAN, O. L. Address before the National Rural Electric Cooperative Association Convention, Las Vegas, Nevada, January 14, 1963. Washington, U. S. D. A., Off. Sec., 1963. 13 p. A31.3 F87
Includes work of U. S. Rural Electrification Administration.
33. GARWOOD, J. D., and TUTHILL, W. C. The Rural Electrification Administration; an evaluation. Washington, Amer. Enterp. Inst. Pub. Policy Res., 1963. 75 p. Ref. 335 R88
REA attacked.
34. GARWOOD, J. D. Self-perpetuation and expansion of government agencies. Public Util. Fortn. 72(4):37-42. Aug. 15, 1963. 280.8 P966
Rural Electrification Administration especially treated.
35. GARWOOD, J. D. When should government agency operations remain secret? Public Util. Fortn. 70(5):274-283. Aug. 30, 1962. 280.8 P966
Rural Electrification Administration.
36. GILMORE, K. O. and METHVIN, E. H. REA, a case study of bureaucracy run wild. Readers' Digest 83:81-87. Dec. 1963. Not in Nat. Agr. Libr.
37. GUNN, T. Happy birthday to you.' Rural Elec. Mag. 18(4):15, 52. Jan. 1960. 335.8 N21
Rural electrification.
38. HAMIL, D. A. REA administrator reviews past two decades, looks at problems. Farm Power 15(3): 9, 10. Apr. 1958. 335.8 F227
Technological changes, loan policies.

39. HAMILTON, C. Is REA in danger? Capper's Farmer 65(9):37, 92, 93. Sept. 1954. 6 M693
Competition and opposition by power companies more aggressive than ever.
40. HASSETT, J. J. REA comes of age. Public Util. Fortn. 60(2):91-97, July 18, 1957. 280.8 P966
41. HELM, J. Many facts on history, growth of REA set forth by MS-REA general manager. Rural Elec. Missourian 9(7):3-4, 11, 14. July 1956. 335.8 R886
42. JENNESS, J. 'Critical Issues' document refuted. Rural Elec. Minuteman 269:3, 4. July 3, 1964. 335.8 R8895
Rebuttal of Critical Issues Paper No. 11. Resources and the Future: Energy, sponsored by the Republican Citizens Committee of the United States.
43. JENNESS, J. Why not facts? Rural Elec. Mag. 22(4):16, 17. Jan. 1964. 335.8 N21
A rebuttal of an article in Reader's Digest of Dec., 1963 against the REA.
44. LUCKING, W. T. Adverse effect of the REA's on nation's balance sheet. Commercial & Financ. Chron. 191(5960):2600-2601. June 16, 1960. 286.8 C73
An address before the 28th annual convention of the Edison Electric Institute, Atlantic City, N.J., June 6, 1960.
45. MCCURLEY, J. B., and COOPER, D. H. Experience of the Rural Electrification Administration. II. The REA program and the role of rural electric cooperatives. In United Nations Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas, Geneva, 1963. Science, technology, and development. United States papers, v. 1, p. 39-54. Ref. 1962. 280.9 Un3982
46. MANY years too late.' Rural Elec. Minuteman 117:4. Jan. 20, 1961. 335.8 R8895
Early days of the REA.
47. MATHIS, P. C. Development and growth of the REA electrification program in South Dakota. S. Dak. U. Sch. Bus Admin. Bus Res. Bur. Bull. 75, 35 p. June 1962. 280.9 So88
48. MILLER, R. W. REA-does it still have a place in our economy? Rural Elec. Minuteman 15:3 July 25, 1958. 335.8 R8895
49. MORGAN, E. P. Morgan comments on REA program. Rural Elec. Minuteman 94:3 June 10, 1960. 335.8 R8895
50. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. LEGISLATION AND RESEARCH DEPT. Background on Farm Bureau vs rural electric controversy. Washington, 1963. 26 p. (Research Paper No. 63-1.) Not in Nat. Agr. Lib.
51. NELSEN, A. An REA look at industry cooperation. Public Util. Fortn. 53:740-744. June 10, 1954. 280.8 P966
52. *NELSEN, A. As things look to me. Washington, U.S. Rural Elec. Admin., 1955. 9 p. 1:933 N33
53. NELSEN, A. REA's outlook for 1955. Co-op Power 11(12):8. Dec. 1954. 335.8 C78
54. NELSON, L. American farm life. Cambridge, Mass., Harvard University Press, 1954. 192 p. 281.2 N332A
The Federal Government and electricity on the farm.
55. NORTHEAST AREA INTERIM FIELD CONFERENCE. A summary of the Interim Field Conference, March 22-26, 1954. Washington? U.S. Rural Electrification Admin., 1954. 11 p. 1.933 R2924
56. OKLAHOMA RURAL electric editor fights charge of "Socialism". Rural Elec. Mag. 12(1):48. Oct. 1953. 335.8 N21
Defends REA.
57. REA marks silver anniversary. Elec. World 153(20):57 May 16, 1960. 335.8 EL2
58. THE REA through the looking glass. National City Bank of New York, N.Y. Monthly letter on economic conditions, Government finance, p. 94-95, Aug. 1961. 252 Un31
59. REA to make first RAD loan. Rural Elec. Minuteman 149:3. Sept. 8, 1961. 335.8 R8895
60. REA's task is never finished. Rural Elec. Mag. 20(8):15. May 1962. 335.8 N21
First Electric Cooperative Corp., Jacksonville, Ark.

*Not examined

61. RURAL electric milestone. Rural Elec. Mag. 20(11):13-15. Aug. 1962. 335.8 N21
Five-millionth coop consumer on rural electric coop lines financed through REA loans.
62. RURAL electrification: American success story. Rural Elec. Minuteman 192A:3. Sept. 14, 1962. 335.8 R8895
63. RURAL electrification's big day (Minuteman background feature). Rural Elec. Minuteman 92. 2-3. May 20, 1960. 335.8 R8895
Speeches given to commemorate the Silver Anniversary.
64. SOUTHEAST AREA ELECTRIC INTERIM FIELD CONFERENCE. [Report] Atlanta, Georgia, March 15-19, 1954. Washington? U. S. Rural Elec. Admin., 1954. 88 p. A335.9 R882R
65. SUTTON, L. V. Public information program to combat REA's expansion. Commercial & Financ. Chron. 195(6168):2772, 2789. June 14, 1962. 286.8 C73
An address before the 30th annual convention of the Edison Electric Institute, at Atlantic City, N. J., June 6, 1962.
66. TEXAN defends future of REA. Rural Elec. Minuteman 231:3. Aug. 9, 1963. 335.8 R8895
Congressman R. Poage.
67. TROMBLEY, K. E. The life and times of a happy liberal; a biography of Morris Llewellyn Cooke. New York, Harper, 1954. 270 p. 120 C774
Includes the Rural Electrification Administration.
68. TWENTY fifth birthday party. Rural Lines. 6(8):3-8. Jan. 1960. A335.8 R88
69. TWENTY FIVE years for REA. Wallace's Farmer 85:20. May 7, 1960. Rural Lines. 7(2):3-5. July 1960. A335.8 R88
70. U. S. CONGRESS. SENATE. Twenty years of progress in rural electrification; the history of the Rural Electrification Administration as reported to the United States Senate on May 11, 1955. Document No. 42. 84th Cong., 1st sess., 1955. Washington, 1955. 49 p. Not in Nat. Agr. Libr.
71. U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Nominations of Glen A. Boger and David A Hamil. Hearing before the Committee on Agriculture and Forestry, United States Senate, 84th Cong., 2d sess. on the nominations of Glen A. Boger, of Pennsylvania to be a member of the Federal Farm Credit Administration, and David A. Hamil, of Colorado, to be Administrator of the Rural Electrification Administration. June 20, 1956. Washington, 1956. 17 p. 249.3 Un393
72. U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Nomination of Norman M. Clapp. Hearing before the Committee on Agriculture and Forestry, United States Senate, 87th Cong., 1st sess., on the nomination of Norman M. Clapp, of Wisconsin, to be Administrator of the Rural Electrification Administration for a period of ten years. Mar. 1, 1961. Washington, 1961. 3 p. 335 Un37
73. U. S. DEPT. OF AGRICULTURE. Report of the Secretary of Agriculture, 1955. Washington, 1956. 60 p. 1 Ag84
REA report included under item 20 of annual reports.
74. U. S. RURAL ELECTRIFICATION ADMIN. Current REA Publications, U. S. Rural Elec. Admin., 1965. 33 p. Mar. 12, 1965. 33 p. Mar. 12, 1965. Not in Nat. Agr. Libr.
75. U. S. RURAL ELECTRIFICATION ADMIN. A matter of record; a report on an article about REA and its borrowers published in the December 1963 issue of Reader's Digest, Washington, 1963. 15 p. A294.2 R882M
Refutation of statements regarding the REA and rural electric cooperatives.
76. U. S. RURAL ELECTRIFICATION ADMIN. The REA record. Washington, 1954. 6 p. A335 R88Re
77. U. S. RURAL ELECTRIFICATION ADMIN. Record of performance: a report to the directors of REA financed rural electric systems, by A. Nelsen. Washington, 1954. 13 p. A335.9 R882Re
78. U. S. RURAL ELECTRIFICATION ADMIN. Report of the administrator, 1956. Washington, 1957. 26 p. 173.2 R88A
Annual reports.
79. U. S. RURAL ELECTRIFICATION ADMIN. Report on Western Area Interim Field Conference, Newhouse Hotel, Salt Lake City, Utah, Mar. 15-19, 1954.

Washington, 1954. 16 p. 1.933 R2926

80. U. S. RURAL ELECTRIFICATION ADMIN. Rural Lines, USA; the story of the Rural Electrification Administration's first twenty-five years, 1935-1960. U. S. Dept. Agr. Misc. Publ. 811, 68 p. map. Jan. 1960. 1 Ag84M

81. VENABLES, T. The Early days, a visit with John M. Carmody. Rural Elec. Mag. 19(1):20-21, 62, 64-65. Oct. 1960. 335.8 N21
History of the REA.

82. WEITZELL, E. C. Federal financing of rural utilities. J. Farm Econ. 40(5):1158-1171. Dec. 1958. 280.8 J822

An official of the REA-history of REA and rural electrification. J. L. Fischer followed with discussion favoring private financing.

83. WISE, R. R. Prior events and early years of REA. Washington, NRECA, Apr., 1964. 43 p. Not in Nat. Agr. Libr.

84. ZANK, E. O. Light and power. Madison, Univ. Wisc., 1959. 180 p. 335 Z1
Rates and costs of service in Wisconsin R. E. A. Cooperatives plus history of REA.

RURAL ELECTRIC COOPERATIVES

General

Development

85. BISHOP, N. E. Farmer co-ops claim electric co-ops first cousins. Coop. Digest 15(12):8. June 1955. 280.28 C7896

Also in Co-op Power 12(8):9. Aug. 1955. 335.8 C78

86. BLOMBERG, C. The farmer makes kilowatts. N. Dak. Rural Elec. Mag. 1(3):8, 12. Sept. 1954. 335.8 N815

Electricity cooperatives.

87. BROWN, J. C. Consumers will decide the future. Rural Lines, 7(12):20-21. May 1961. A335.8 R88

88. BRYANT, D. E. Taking the rural electric story to members-through statewide publications. Amer. Coop. 1959:512-517. 280.29 Am3A

89. *CLAPP, N. M. Crisis in rural electrification,

1961. U. S. Rural Elec. Admin., 1961. 10 p. A335.9 C53 Not in Nat. Agr. Libr.

90. *CLAPP, N. M. New battle for rural power. Progressive Farmer. 26:37-39. Nov. 1962. 6 P945

91. COOLEY, O. W. Cooperation is not socialism. Co-op Power, 11(10):12, 18. Oct. 1954. 335.8 C78
No coercion of individuals.

92. CO-OP aid shown in two electric farms. Farm Power 15(4):10, 11. May 1958. 335.8 F227
Efficient and economical.

93. CO-OPS have earned their place. Rural Lines 8(9):7-9. Feb. 1962. A335.8 R88

94. DINEEN, M. P. The cooperatives-an institution for people-a share in the common good. Rural Elec. Mag. 14(11):30, 60. Aug. 1956. 335.8 N21
Social, spiritual and economic benefits.

95. FARM organizations announce policy on REA. Kans. Elec. Farmer 3(2):4-5. Feb. 1954. 335.8 K132
Resolutions by the American Farm Bureau Federation, the Kansas Farm Bureau, and the Kansas Farmers Union. Cooperatives and municipalities should have first opportunity to buy Federal power.

96. FARM power directory. Coop. Digest 23(9):13-54. Mar. 1963. 280.28 C7896
Annual issues every March.

97. FIFTY-SEVEN THOUSAND rural people's jobs created by REA borrowers. (REA administrator N. M. CLAPP reported to USDA National Advisory Committee on Rural Areas Development). Coop. Digest 24(9):34. Mar. 1963. 280.28 C7896

98. FISCHER, J. L. Cooperative progress in the United States. Amer. Coop. 26:443-448. 1954. 280.29 Am3A

Rural electric cooperatives making life more profitable and more comfortable.

99. FORTY EIGHT years of rural electrification. Rural Lines 7(10):3-6. Mar. 1961. A335.8 R88

100. HAMIL, D. A. Electric cooperatives re-examined. Public Util. Fortn. 61(5):289-297. Feb. 27, 1958. 280.8 P966

More desirable for rural areas with continued responsibilities even after 95 percent of farms are electrified.

101. HYRE, F. M. Future farm needs greater for service co-ops. News Farmer Coop. 26(10):22, 30. Jan. 1960. 166.2 N47
Mutual Insurance, credit unions, and irrigation, electricity and telephone cooperatives.
102. KING, J. Crusading for rural electrification. Rural Elec. Mag. 16(11):15, 49. Aug. 1958. 335.8 N21
103. LASSEN, W. L. Rural electric and telephone cooperatives: introductory statement. Amer. Coop. 1957:503-504. 280.29 Am3A
104. LUSE, R. P. Ten weaknesses of co-ops. Co-op Power 12(10):10. Oct. 1955. 335.8 C78
105. MARTZ, G. Ellis in wonderland. Washington, News Syndicate, 1962. 128 p. Not in Nat. Agr. Libr.
106. NATIONAL picture; REA electric borrowers are strong and prosperous. Rural Lines 5(6):7-20. Nov. 1958. A335.8 R88
107. NELSEN, A. Inventory time. Washington, Rural Electrification Admin., 1954. 8 p. 1.933 N33
Address at the 12th Annual Meeting of the National Rural Electric Cooperative Association, January 11, 1954, Miami, Florida.
108. NELSEN, A. The spirit of 1976. Washington, U. S. Rural Electrification Admin., 1956. 16 p. 1.933 N33
Remarks at Annual Meeting, National Rural Electric Cooperative Association, St. Louis, Missouri, January 24, 1956.
109. PORTWINE, S. A "give away" in the Southeast. Rural Elec. Mag. 12(9):25, 59. June 1954. 335.8 N21
110. PORTWINE, S. The "new look" in Federal power. Rural Elec. Mag. 12(7):15, 16. Apr. 1954. 335.8 N21
111. POTAMKIN, L. Exposing a myth: commercial power companies are public utilities, co-ops are not. Rural Elec. Mag. 14(7):16-17, 48. Apr. 1956. 335.8 N21
112. POTAMKIN, L. Private ownership confused with free enterprise in electric power. Rural Elec. Mag. 14(6):15-16, 58. Mar. 1956. 335.8 N21
113. POTAMKIN, L. Public utilities should be operated at cost. Rural Elec. Mag. 15(1):44. Oct. 1956. 335.8 N21
114. THE POWER companies: free enterprise? Rural Elec. Minuteman 258:4. Apr. 17, 1964. 335.8 R58895
115. PRIVATE and public power. Rural Elec. Minuteman 268:4. June 26, 1964. 335.8 R8895
116. PROJECTS for Minutemen. Rural Elec. Minuteman 71:3. Jan. 1, 1960. 335.8 R8895
117. REA reports continued coop growth in 1960. Elec. World 156(4):62. July 24, 1961. 335.8 E12
118. REPORT on condition of electric cooperatives. REA finds them fiscally fit. Rural Lines 3(8):13-14. Jan. 1957. A335.8 R88
119. RURAL Electric co-ops will continue in vital role. Farm Power 16(10):5. Oct. 1959. 335.8 F227
120. SAMENOW, C. U. The cooperative's role in achieving REA program objectives; presentation before a Panel on Rural Electrification at the summer conference on American Institute of Cooperation, East Lansing, Michigan, Aug. 11, 1964. U. S. Rural Electrification Admin., 1964. 8 p. A335.9 Sa4
121. SHUMAN, C. B. Rural electric coops, which way? Nation's Agr. 33(3):6. Mar. 1958. 280.82 B89
122. SMITH, B. L. The co-op as a vehicle for power service. Public Util. Fortn. 60(7):442-450. Sept. 26, 1957. 280.8 P966.
Favoritism in taxation. Some trend towards nonfarm service.
123. STATE-by-State summary of rural electrification program. Rural Elec. Minuteman 90:3. May 13, 1960. 335.8 R8895
NRECA, Statewide Associations and Local Cooperatives
124. AIKEN, C. R. A role for Statewide Co-op Power 10(10):7, 12. Oct. 1953. 335.8 C78
125. ANOKA Story. Rural Lines 5(11):7-10. Apr. 1959. A335.8 R88
The growth of the Anoka, Minn., Rural Electric Coop.

126. BOOM comes to the bayous. Rural Lines 7(4):7-11. Sept. 1960. A335.8 R88
Electrification in Louisiana through a cooperative.
127. CENTRAL station electricity comes to lonely Elk Lake. Rural Lines 10(1/2):15-16. June 1963. A335.8 R88
128. CHESSHER, A. H. Let there be light; a history of Guadalupe Valley Electric Cooperative. San Antonio, Naylor, 1964. 98 p. Not in Nat. Agr. Libr.
129. CLAPP, N. M. Developing the role of the state-wide in rural electrification; remarks before annual meeting of Virginia Association of Electric Cooperatives, Old Point Comfort, Va., April 28, 1964. Washington, U. S. Rural Electrification Admin., 1964. 8 p. A335.9 C53
130. CLAPP, N. M. Rural electric co-ops helped to launch 535 more RAD projects in fiscal '63. Rural Elec. Minuteman 250:1. Feb. 21, 1963. 335.8 R8895
131. COCHISE would be amazed; Sulphur Springs Valley Electric Cooperative, Willcox. Rural Lines 6(2):15-17. July 1959. A335.8 R88
132. DAVIS, J. Another step forward. Rural Elec. Mag. 21(3):20-21. Dec. 1962. 335.8 N21
Indiana rural electrics help in Rural Areas Development.
133. DILLINGHAM (Alaska) lights up. Rural Lines 8(2):8-10. July, 1961. A335.8 R88
Electrification in Alaska.
134. DIRECTORY of rural electric cooperatives. Co-op Power, Dec. 1953. 335.8 C78
In every December issue, Co-op Power changed title to Farm Power. Jan. 1956. 335.8 F227
135. DOHERTY, J. C. Rural America in transition. U. S. D. A. Yearbook Agr. 1962:585-589. 1 Ag84Y
Includes Rural Areas Development Program. Rural Electric systems promote area development.
136. ELLIS, C. T. Alaska's new rush. Rural Elec. Mag. 20(12):14-15, 48, 49. Sept. 1962. 335.8 N21
137. ELLIS, C. T. Democracy on the frontier; growing pains in Alaska. Rural Elec. Mag. 14(8):26-27, 52. May 1956. 335.8 N21
Electricity cooperatives.
138. ELLIS, C. T. The role of NRECA in this program. In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 23-32. Washington, 1954. A335.9 R882
National Rural Electric Cooperative Association.
139. ELLIS, C. T. Rural electrification is meeting Alaska's challenge. Rural Elec. Mag. 21(2):19-21, 60-61, map. Oct. 1962. 335.8 N21
140. FIRST lady of rural electrification. Rural Lines 8(2):3-6. July 1961. A335.8 R88
Pioneering efforts of Mrs. Olive Folkerth in Ohio.
141. FREEMAN, O. L. Address at the annual meeting of the Scott-New Madrid-Mississippi Rural Electric Cooperative, Sikeston, Missouri, Friday, June 26, 1964. 12 p. A31.3 F87
142. FREEMAN, O. The untold story of American agriculture. N. Dak. Rural Elec. Mag. 9(11):6-7. May 1963. 335.8 N815
Role of electrical cooperatives in some important aspects of rural development as well.
143. HAMIL, D. A. Future of REA electric co-ops. Public Util. Fortn. 65(11):770-772. May 26, 1960. 280.8 P966
Discussion of an address at the 18th annual meeting of the National Rural Electric Co-operative Association in St. Louis, Feb. 1960.
144. HAMIL hails success story of REA co-ops. Elec. World 115(18):48-49. May 4, 1959. 335.8 EL2
145. HARRISON, W. What a cooperative can do. Rural Elec. Mag. 21(6):35-36. Mar. 1963. 335.8 N21
Rural Areas Development.
146. HAUSLER, R. M. Cooperation-key to RAD. Amer. Coop. 1961:119-124. 280.29 Am3A
147. AN INSPIRING example of rural development. Rural Elec. Minuteman 237:4. Oct. 11, 1963. 335.8 R8895
Valley Rural Electric Cooperative, Hundingdon, Pa.
148. ISHIDA, J. T. Analysis of external economic factors affecting the success of Indiana Rural Electric Membership Corporations. Diss. Abstr. 21(10):2922-2923. Apr. 1961. 241.8 M58
Thesis, (Ph. D.)-Purdue Univ., 1960. 164 p.

149. THE JOB ahead for REA. I. Flourishing early years. II. Changing co-op loads. III. NRECA role expands. *Elec. World* 149(21):50, 51. 149(22):42. 149(21):57, 58. May 26, June 2, June 9, 1958. 335.8 EL2
150. KELLEY, H. W. Invitation to the 20th century. U. S. Dept. Agr. Yearbook, 1962:384-93. 1 Ag84Y Williamsburg, S. C. gets electricity.
151. LEES, D. Agness, Oregon is electrified. *Rural Elec. Mag.* 20(10):15-18. July 1962. 335.8 N21 Coos-Curry Electric Cooperative.
152. MERRILL, K. E. Kansas rural electric coops; 20 yrs. with the REA. Center for research in business. Univ. of Kansas, Lawrence, 1960. 214 p. Not in Nat. Agr. Libr.
- 152a. MINUTEMAN Program-how it's done in Kentucky. *Rural Elec. Minuteman* 257:7. Apr. 10, 1964. 335.8 R8895
153. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. Reports to members concerning the annual meetings. 12th meeting, 1954 to 22nd meeting, 1964. *Rural Elec. Mag.* 1954-1964 (Feb. Mar. or Apr). 335.8 N21 Issued annually.
154. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION, *Rural Electric fact book*. Rebecca R. Wise, editor. All new edition. Washington, 1965. 170 p. 335.9 W754
155. NORTH CAROLINA. RURAL ELECTRIFICATION AUTHORITY. Annual progress report of rural electrification in North Carolina. Raleigh. 335.9 N81 Annual reports, pagings vary-cover rural electric cooperatives, municipalities and public institutions.
156. O'HARA, W. Educational work in cooperatives with youth by the Indiana Farm Bureau. *Amer. Coop.* 26:574-580. 1954. 280.29 Am3A Statewide rural electric cooperative.
157. PARSONS, J. The lights go on in Yaak River Valley. *Rural Elec. Mag.* 22(2):13-15. Nov. 1963. 335.8 N21
158. PERSON, R. T. The Colorado story. *Edison Elec. Inst. Bull.* 31(6):241-244. June-July, 1963. 335.8 Ed4 Federally subsidized power in the Colorado area.
159. PIONEER systems and the atomic age (Aiken elec coop SC). *Rural Lines* 2(12):16-18. May 1956. A335.8 R88
160. PIONEERING electrically in Alaska. *Rural Lines* 5(5):9-11. Oct. 1958. A335.8 R88
161. POWER and the land; 20 years later. *Rural Lines* 6(6):10-12. Nov. 1959. A335.8 R88 Electrification in St. Clairsville, Ohio.
162. RAD through local initiative. *Rural Elec. Mag.* 20(4):22, 23, 34. Jan. 1962. 335.8 N21 Meriwether-Lewis Electric Cooperative in Centerville, Tenn.
163. REGIONAL meeting actions (Minuteman background feature). *Rural Elec. Minuteman* 112:3. Dec. 2, 1960. 335.8 R8895
164. RICHARDSON, L. K. Wisconsin REA; the struggle to extend electricity in rural Wisconsin, 1935-1955. Madison, Wisc. Univ. Exp. Sta. Coll. Agr. Apr. 1961. 152 p. 335 R392
165. SAVAGE, J. K. What co-ops need to know about R A D. U. S. Farmer Coop. Serv. Inform. 38, 15 p. Apr. 1963. A280.29 F22I
166. SCANLAN, M. W. Summing up 18 years of progress in s'west La. with rural electricity. *Rural Power Mag.* 5(12):16-17. Dec. 1955. 335.8 R8892
167. SCHOLNIK, E. H. 12th annual NRECA meeting. *Co-op Power* 11(2):15-22, 28. Feb. 1954. 335.8 C78
168. SELDEN, W. Minnesota co-ops and RAD workers explore ways to pull together. *News Farmer Coop.* 30 (12):11, 20-21. Mar. 1964. 166.2 N47 Rural electrics cooperating.
169. SEVERSON, H. The night they turned on the lights; the story of the electric power revolution in the North Star State. n. p., *Midwest Hist. Features*, 1962. 251 p. 335 Se8
170. SMITH, R. S. Miracle along the Mississippi. *Rural Elec. Mag.* 19(9):17-19. June, 1961. 335.8 N21 Eastern Iowa Light & Power Cooperative.
171. STATUS of Western REA-financed systems;

tabulation. Elec. World 112(2):90-91. Feb. 1954.
335.8 EL2

172. STRUNK, F. C. The Flint EMC story, Rural
Elec. Mag. 18(12):22-23, 58. Sept. 1960. 335.8 N21
Warner Robins, Georgia.

173. 12 IDEAS reviewed this MISSOURI coop. Rural
Lines 7(8):8-11. Jan. 1961. A335.8 R88

174. WASHINGTON FARM ELECTRIFICATION
COMMITTEE. The twenty-ninth annual progress report
of investigations of the various uses of electricity for
agriculture in the State of Washington, submitted
January 2, 1954, by W. E. Matson, and J. Roberts.
n. p., 1954. 40 p. 335.9 W273
Annual reports-various paging.

175. WILKINS, C. E. 13th annual NRECA convention,
Co-op Power 12(3):7-11, 13. Mar. 1955. 335.8 C78

176. WINDS of change sweep eastern Oklahoma.
Rural Lines 10(3):15-17. Aug. 1963. A335.8 R88

177. WISCONSIN AGRICULTURAL EXPERIMENT
STATION. Wisconsin REA: the struggle to extend
electricity to rural Wisconsin, 1935-1955, by L. K.
Richardson. Madison, 1960. 152 p., map. Ref.
335 R392

Relations with the Power Industry

178. BLALOCK, H. W. Don't sell your co-op's
birthright. Rural Elec. Mag. 15(11):15, 57. Aug.
1957. 335.8 N21

With restrictive wholesale power contract.

179. CO-OPS explore anti-trust suit against private
utility groups. Elec. World 148(22):78. Nov. 25,
1957. 335.8 EL2

180. CO-OPS team up with utilities; private companies
and REA's plan new cooperative projects. Elec.
World 142(20):106-107. Nov. 15, 1954. 335.8 EL2

181. CRONIN, R. E. Blue print for attack! The com-
mercial power companies and their allies are gearing
up for an intensive assault against the rural electric
during the coming months. Rural Elec. Mag. 21(4):
20-21, 71-72. Jan. 1963. 335.8 N21

182. CRONIN, R. E. Power companies open fire
in assault against co-ops. Rural Elec. Mag. 21(8):16,

18, 46. May 1963. 335.8 N21

183. CRONIN, R. E. Samson and the Power company.
Rural Elec. Mag. 21(6):18-19, 53-54. Mar. 1963.
335.8 N21

Commercial power company versus Alabama Rural
Electric Cooperative.

184. DEVIATION: true or false? (Minuteman back-
ground feature). Rural Elec. Minuteman 190:3. Aug.
24, 1962. 335.8 R8895

Analysis of NRECA objections to EEI's Deviation of
REA, by E. Vennard.

185. DOUGHERTY, C. J. Rural and urban co-opera-
tives? Public Util. Fortn. 71(8):26-33. Apr. 11, 1963.
280.8 P966

Electric cooperatives.

186. EEI AND CO-OP spokesmen stress cooperation at
Farm power conference. 7th annual National Inter-
industry Farm Electric Power Conference, at
Louisville, Ky. Elec. World 154(14):34-35. Oct. 3,
1960. 335.8 EL2

187. ELLIS, C. T. Speeches and statements of rural
electrification and related subjects. Washington,
NRECA, 1954-1964. 11 v. Not in Nat. Agr. Libr.

188. THE 1500 LIMITATION. (Minuteman background
feature). Rural Elec. Minuteman 49:3. May 29,
1959. 335.8 R8895

Limiting rural areas to districts with less than 1500
population.

189. FOUR REC's adapt to changing rural scene; grow
by supporting suburban electric association. Coop
Digest 25(9):3-5. Mar. 1965. 280.28 C7896

190. GAJAN, U. J. Southwest Power Administration
being systematically strangled. Rural Power Mag.
4(32):2-3. Mar. 1954. 335.8 R8892
Rural electrification.

191. GUNN, T. Case of the misguided public. Coop.
Digest 22(12):17, 18. July, 1962. 280.28 C7896
Territorial integrity squabble.

192. GUNN, T. Territorial protection-a crucial pro-
blem facing electric co-ops. N. Mex. Elect. News
12(5):13-15. Feb. 1962. 335.8 So84

193. MCFATE, K. L. Missouri council strengthens farm electrification activities. *Farm Elec.* 11(6):10, 11, 16. Nov.-Dec. 1957. 335.8 F224
Complete cooperation between coops and companies.
194. MARRITZ, R. O. Arizona Supreme Court rules in favor of Co-op in territorial dispute. *Rural Elec. Mag.* 21(6):36-37. Mar. 1963. 335.8 N21
195. MARTIN, D. Indiana rural electric battle for survival. *Rural Elec. Mag.* 16(2):21-22, 58-59. Nov. 1957. 335.8 N21
196. NELSON, P. How to prove your prejudices by rewriting history'. *Rural Elec. Mag.* 18(4):13-14, 49. Jan. 1960. 335.8 N21
Rural electrification. Expansion of power companies.
197. NEW JERSEY Power Company makes powerful bid to take over Co-op. *Rural Elec. Minuteman* 22:1-3. Sept. 26, 1958. 335.8 R8895
198. PENCE, D. North Carolina fight seen as "victory", "standoff" by observers. *Rural Elec. Mag.* 21(11):16, 17, 44. Aug. 1963. 335.8 N21
Power companies versus electric co-ops.
199. POTAMKIN, L. Important victory won by Texas Cooperative. *Rural Elec. Mag.* 14(10):47. July 1956. 335.8 N21
Expanding municipal limits won't have electric coops swallowed up.
200. POWER company declares war. *Rural Elec. Minuteman* 85:2-3. Apr. 8, 1960. 335.8 R8895
201. REA TO help co-ops fight battles: Clapp. *Rural Elec. Minuteman* 142:2-3. July 14, 1961. 335.8 R8895
From a talk by REA Administrator Clapp before the Rural Electric Consumer Publications Association.
202. SUTTON, L. V. Truth-our weapon. *Edison Elec. Inst. Bull.* 30(6):224-228. June-July, 1962. 335.8 Ed4
Power companies versus the coops, the REA and the NRECA.
203. THREE power companies try to kill new-co-op. *Rural Elec. Minuteman* 192A:1-2. Sept. 14, 1962. 335.8 R8895
Amargosa Valley Cooperative in Lathrop Wells, Nev. Also National significance of Amargosa, p. 4 of same issue of *Rural Elec. Minuteman*.
204. VENNARD, E., and ELLIS, C. T. Power battle. *Edison Elec. Inst. Bull.* 30(8):288-301. Sept. 1962. 335.8 Ed4
On Aug. 21, 1962, they discussed the investor-owned power industry and the deviation of the REA from its original objectives.
205. VOGEL, O. S. The impact of Government utilities and co-ops on electric companies. *Public Util. Fortn.* 72(7):27-34. Sept. 26, 1963. 280.8 P966
206. WALTERS, A. Attack at Amargosa. *Rural Elec. Mag.* 21(1):14-15, 52. Nov. 1962. 335.8 N21
Amargosa Valley Cooperative versus Nevada Power Company.
207. WHO REALLY serves the rural areas? *Rural Elec. Minuteman* 11:4. June 27, 1958. 335.8 R8895

Programs and Planning

208. ANDERSON, E. D. Charting the second 50 years. *Agr. Eng.* 39(7):395, 415, 420, 422. July 1958. 58.8 Ag83
The American Society of Agricultural Engineers.
209. BAKER, J. A. Address at the annual convention, North Dakota Farmers Union, Fargo, North Dakota, November 21, 1963. Washington, U. S. D. A., Off. Sec., 1963. 17 p. A281.29 B17
Policies and programs.
210. BAKER, J. A. Development programs of the U. S. Department of Agriculture; address before the Kansas Cooperative Council, Wichita, Kansas, March 22, 1963. Washington, U. S. D. A., Off. Sec., 1963. 11 p. A281.9 B17
Place of cooperatives. Rural electric cooperatives included.
211. BORROWERS list building plans, loan needs for 1956-60. *Rural Lines* 1(11):3-5. Apr. 1955. A335.8 R88
212. CLAPP, N. M. Is our program adequate to meet the needs of tomorrow; an address before the 23rd annual meeting of the National Rural Electric Cooperative Association at Miami, Florida, on January 26, 1965. 8 p. A335.9 C53

213. CLAPP, N. M. Program for growth. Address at the 1963 regional meeting of the National Rural Electric Cooperatives Association. Washington, Rural Elec. Admin., May 1964. 22 p. 335.9 C53
214. CLAPP, N. M. Rural Electrification-strength for the future. Address before the 21st annual meeting of the National Rural Electric Cooperative Association. January 15, 1963 at Las Vegas, Nevada. 14 p. A335.9 C53
215. FREEMAN, O. L. Eight principles for REA. Rural Elec. Minuteman 120:1-2. Feb. 10, 1961. 335.8 R8895
216. MUNGER, G. D. Five-star program tailored to individual co-op needs. Rural Lines 10(3):8-12. Aug. 1963. A335.8 R88
217. PLANS of 12 rural systems; symposium. Rural Lines 6(11/12):7-31. Apr. 1960. A335.8 R88
218. REA COOPS submit expansion plans. Elec. World. 143(11):9, 10. Mar. 14, 1955. 335.8 EL2
219. ROBINSON, C. A. Federal power policy in the Northwest. Rural Elec. Mag. 12(10):28-30, 56, 58. July, 1954. 335.8 N21
220. STEWART, M. C. Minuteman and junior board programs. Amer. Coop. 1958:616-618. 280.29 Am3A
Rural electric cooperatives.
221. A twenty-two point action program to save rural electrification. Rural Elec. Minuteman 254:4. Mar. 20, 1964. 335.8 R8895
A summary of keynote address by C. T. Ellis at the NRECA 22nd annual meeting in Dallas, Texas, March 1964.
222. U. S. RURAL ELECTRIFICATION ADMIN. REA programs move forward. Washington, 1956. 2 p. A335 R88Rp
223. U. S. RURAL ELECTRIFICATION ADMIN. The REA rural electrification program. Washington, annuals, various paging. 1.933 R8828
- Organization and Management
224. AIKEN, G. D. The functions of a co-op. Rural Elec. Mag. 22(1):52-54. Oct. 1963. 335.8 N21
225. ANALYSIS of REA Co-op operations-1956-1960. Public Util. Fortn. 71(3):55-58. Jan. 31, 1963. 280.8 P966
226. ANDERSON, J. L. Minutemen in action. Amer. Coop. 1959:507-511. 280.29 Am3A
Rural electric cooperatives.
227. BINKLEY, W. C., and SMITH, E. D. How Kentucky rural electric cooperatives are controlled. Ky. Univ. Agr. Ext. Circ. 571, 38 p., map. June 1960. 275.29 K415
228. BROWN, D. Automation for electric co-ops. Rural Elec. Mag. 16(2):17, 59. Nov. 1957. 335.8 N21
Needed for their survival.
229. COCHRAN, C. L., and ROSS, R. Case for competition in electric power. New York, Public Aff. Pam. No. 241. 1956. 280.8 P964
230. CO-OP members and public relations. Rural Lines 9(11):3-18. Apr. 1963. A335.8 R88
231. CRISP, W. T. One member, one vote. Carolina Farmer 9(2):10-11. Feb. 1954. 6 C223
Rural electric cooperatives.
232. ENDAHL, L. The co-op employee: your key to community and public acceptance. Rural Elec. Mag. 16(7):17, 44. Apr. 1958. 335.8 N21
233. GRUENING, E. The public pays; a study of power company propaganda. New York, Vanguard, 1964. 273 p. Not in Nat. Agr. Libr.
234. HAMIL, D. A. Service: key to tomorrow's success. Amer. Coop. 1958:605-608. 280.29 Am3A
Rural electric cooperatives.
235. HODGSON, E. How to advertise to further public relations. Amer. Coop. 1959:525-530. 280.29 Am3A
Rural electric cooperatives.
236. JENNESS, J. Organizational patterns of rural electrics. July 23, 1964. Research Paper64-2. Washington, NRECA, 1964. 55 p. Not in Nat. Agr. Libr.
237. KABAT, R. I. Long range management development for rural electrics. Rural Elec. Mag. 14(8): 22-23, 66-69. May 1956. 335.8 N21

238. MARGESON, G. M. Managing a small rural electric system. Rural Elec. Mag. 12(4):25, 43. Jan. 1954. 335.8 N21
239. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. LEGISLATION AND RESEARCH DEPT. The professors and the REA. An account of how tax exempt, nonprofit, education front peddles power company propaganda about rural electrification. Res. Paper No. 64-3. Washington, NRECA, 1964. 10 p. Not in Nat. Agr. Libr.
240. NELSON, T., and NICOL, E. Sound functional organization in a rural electric system. Rural Elec. Mag. 13(8):29, 50, 52. May 1955. 335.8 N21
241. PATE, H. Service improvement pays dividends. Rural Elec. Mag. 16(9):17, 18. June 1958. 335.8 N21
In adequate, full-time, uninterrupted electric service.
242. PICKENS, O. Telling the cooperative story-house party style. Amer. Coop. 1960:55-58. 280.29 Am3A
Electricity cooperatives.
243. REMOVAL of 10 percent surcharge saves coop members \$ 27,000. Elec. World. 14(3):63. July 16, 1956. 335.8 EL2
244. ROBERTS, W. S. The challenges of public relations. Amer. Coop. 1957:510-513. 280.29 Am3A
Electric cooperatives.
245. SHERWOOD, J. Local TNT kits help public relations. Rural Elec. Mag. 19(7):23, 56. Apr. 1961. 335.8 N21
Electricity cooperatives.
246. SMITH, C. W. Taking the rural electric story to the employees-through modern management. Amer. Coop. 1959:535-538. 280.29 Am3A
247. TIDWELL, P. Tennessee rural electrics find public relations bonanza. Rural Elec. Mag. 20(9):14-15, 43. June 1962. 335.8 N21
248. TO LET city people know. Rural Lines 10(3):13-14. Aug. 1963. A335.8 R88
249. TREND is upward; new DSER report reveals 25 percent improvement for REA borrowers. Rural Lines 2(9):3-5. Feb. 1956. A335.8 R88
250. U. S. RURAL ELECTRIFICATION ADMIN. Guide for directors of electric co-ops. U. S. Rural Electrification Admin. REA Bull. 101-3, 12 p. Jan. 1957. 1.933 R2293
251. UNIVERSITY of Georgia capsule course is helping cooperative managers in learning co-op management. Elec. World 142(13):15-17. Sept. 27, 1954. 335.8 EL2
252. WATKINS, E. H. How our rural electric cooperative strives to serve the needs of its members. Amer. Coop. 1959:52-58. 280.29 Am3A
253. WILSON, E. F. Member services must reflect today's needs. Rural Lines 10(3):5-7. Aug. 1963. A335.8 R88

Finances and Loans

254. THE ALTERNATIVES for future co-op financing. Co-op Power 12(9):9, 17. Sept. 1955. 335.8 C78
Borrowing through an agency similar to FCA but with higher interest rates.
255. AWBREY, B. Interest rates and our future. Rural Elec. Mag. 16(8):24-25. May 1958. 335.8 N21
REA rates.
256. BAUER, J. Results of low-cost Federal financing of hydro projects. Public Util. Fortn. 59(7):449-454. Mar. 28, 1957. 280.8 P966
Hydroelectric projects and related multipurpose enterprises cannot be developed and financed through private industries.
257. BLALOCK, H. W. Tips on negotiating wholesale power contracts. Rural Elec. Mag. 15(3):20-21, 65. Dec. 1956. 335.8 N21
258. CASTALDE, P. A. An accounts receivable procedure for small co-ops. Rural Elec. Mag. 14(6):18-19, 56. Mar. 1956. 335.8 N21
259. CLAPP, N. M. Rural electric "equalizers"-why they are necessary. Rural Elec. Mag. 21(8):22-23. May 1963. 335.8 N21
In REA loans.
260. DISSLIN, H. G. Can bank for co-ops succeed REA? Co-op Power 12(11):8, 21. Nov. 1955. 335.8 C78
It can and should.

261. ELLIS, C. T. Adequate REA funds. Rural Elec. Mag. 12(8):3-4. May 1954. 335.8 N21
262. FACTS about interest rates. (Minuteman background feature) Rural Elec. Minuteman 53:3. June 26, 1959. 335.8 R8895
263. FAIN, C. J. Capital credits re-examined. Rural Elec. Mag. 13(2):13, 55, 58, 60; 13(3):15, 43-44. Nov./Dec. 1954. 335.8 N21
Credit and the REA.
264. FARM credit banking for REA borrowers. Pro-Sec'y. E. T. Benson; Con. Sen. G. Aiken. Farm Power 16(6):7, 15. June 1959. 335.8 F227
265. THE FARM credit system (Minuteman background feature) Rural Elec. Minuteman 50:2-3. June 6, 1959. 335.8 R8895
266. FINANCIAL planning story; how they know what to do. Rural Lines 7(7):3-9. Dec. 1960. A335.8 R88
267. GARWOOD, J. D. The future direction of REA loan policies. Public Util. Fortn. 69(5):302-310. Mar. 1, 1962. 280.8 P966
268. GARWOOD, J. D. REA and Section 5 loans. Public Util. Fortn. 70(11):761-772. Nov. 22, 1962. 280.8 P966
269. GATES, T. V. The surplus funds of rural electric cooperatives: a case study. Diss. Abstr. 16: 1358. Aug. 1956. 241.8 M58
Used as increased assets and built-up working capital. Thesis (Ph. D.)-University of Oklahoma, 257 p.
270. GOVERNMENT doesn't borrow money for REA loan funds. Rural Elec. Minuteman 277:4. Aug. 28, 1964. 335.8 R8895
271. INTEREST hike would result in higher retail rates. Rural Elec. Minuteman 32:2-3. Jan. 30, 1959. 335.8 R8895
272. JONES, F. Watch your use of rural electric reserves. Rural Elec. Mag. 15(9):17-18. June 1957. 335.8 N21
Cooperatives.
273. NATIONAL RURAL ELECTRIC COOPERATION ASSOCIATION. Rural electric financing study report. July, 1965. Washington, 1965. 208, 14 p. Not in Nat. Agr. Libr.
274. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. Rural electric system policies on general funds. Washington, 1962. NRECA. June 1962. 69 p. Not in Nat. Agr. Libr.
275. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. Supplemental financing program for rural electrification. January, 1966. Washington, 1966. 25 p. Not in Nat. Agr. Libr.
A plan for the growing capital needs of rural electric systems.
276. NELSON, P. How's your DSER? Rural Elec. Mag. 17(12):22, 68. Sept. 1959. 335.8 N21
REA loan repayment rate.
277. NEW REA audit bulletin. J. Accountancy 117 (3):69-70. Mar. 1964. 325.8 J82
278. NICHOLS, B. Shop and sell for farmstead mechanization financing. Elec. Farm 37(2):14-15. Mar. 1964. 335.8 EL27
Potential to be found for lenders.
279. PARR, W. H. What the electric cooperative should do with its members' contribution to capital. Amer. Coop. 1955:580-581. 280.29 Am3A
Shares of stock payable, redeemable, transferable, and marketable on liquidation.
280. PERRY, B. How Georgia Co-op simplifies capital credit refund process. Rural Elec. Mag. 22(2): 26, 27, 52. Nov. 1963. 335.8 N21
281. PLOW IT Back into plant. Rural Lines 7(5):12-16. Oct. 1960. A335.8 R88
282. POTTS, M. T. Interest rates affect area coverage; background of an agreement between the Congress and America's rural electric co-ops. Rural Elec. Mag. 16(4):12, 48. Jan. 1958. 335.8 N21
283. THE QUESTION of future financing of REA programs; pro and con. Should the source of REA's loan funds be broadened and the interest rate adjusted to the U. S. Treasury's borrowing costs? Congr. Digest 38(4):99-128. Apr. 1959. Not in Nat. Agr. Libr.
284. REA approves key loans in West. Rural Elec. Minuteman 167:2-3. Mar. 16, 1962. 335.8 R8895
285. REA spells out electric power loan requirement. Public Util. Fortn. 68(13):970-971. Dec. 21, 1961. 280.8 P966

286. REPAYMENT record. Rural Lines 8(10):9-11. Mar. 1962. A335.8 R88
Electrification Administration, March 5 and 6, 1959. Washington, 1959. 214 p. 284.2 Un327R
287. RESERVE fund analysis. (Minuteman background feature). Rural Elec. Minuteman 103:3. Aug. 12, 1960. 335.8 R8895
288. ROBINSON, C. A., and MARRITZ, R. O. When is an offer an offer? Comptroller General's criticism of REA stems from misunderstanding of "offer." Rural Elec. Mag. 22(4):22, 42. Jan. 1964. 335.8 N21
Loan policy.
289. ROSS, J. Rural electric challenge: sound reserves policies. Rural Elec. Mag. 19(12):30-31. Sept. 1961. 335.8 N21
Financing.
290. RURAL electric reserves. Rural Elec. Mag. 20(8):18-19. May 1962. 335.8 N21
Financing.
291. RURAL ELECTRIC reserves policies. Rural Elec. Mag. 20(1):22-23, 52. Oct. 1961. 335.8 N21
For financial reserves.
292. SHOULD REA interest charges be raised? Congr. Quart. Weekly Rep. 15:1212-13. Oct. 25, 1957. 286.368 C763
293. SPECIAL tight-money, high interest edition. Rural Elec. Minuteman 81:1-6. Mar. 11, 1960. 335.8 R8895
294. SUN, H. S., and LARZELERE, H. E. Financial ratios for Michigan rural electric cooperatives. Mich. Agr. Exp. Sta. Quart. Bull. 37:506-515. May 1955. 100 M58S
Point out coop's future problems and help them stand on their own two feet.
295. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. REA financing. Hearing before the Subcommittee on Conservation and Credit of the Committee on Agriculture, House of Representatives, 88th Cong., 2d sess., Mar. 5, 1964. Washington, 1964. 30 p. 284.2 Un324Rf
296. U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Rural electrification loans. Hearings, 86th Cong., 1st sess. on S. Res. 21, a resolution expressing the sense of the Senate concerning the making of loans by the Rural Electrification Administration, March 5 and 6, 1959. Washington, 1959. 214 p. 284.2 Un327R
297. * U. S. GENERAL ACCOUNTING OFFICE. Audit of Rural Electrification Administration, Department of Agriculture; report to the Congress of the United States by the Comptroller General of the United States. Annual reports, various paying. Washington. Not in Nat. Agr. Libr.
298. U. S. GENERAL ACCOUNTING OFFICE. Possibilities for reducing Federal expenditures under the electric loan program and other matters pertaining to the Rural Electrification Administration; report to the Congress of the United States by the Comptroller-General of the United States. Washington, 1963. 92 p. Not in Nat. Agr. Libr.
299. U. S. RURAL ELECTRIFICATION ADMIN. ABC's of accounting and interpretation of financial statements. U. S. Rur. Electrification Admin. REA Bull. 180-3, 33 p. May 1956. 1.933 R2293
300. U. S. RURAL ELECTRIFICATION ADMIN. Active REA borrowers. Washington. Issued annually. Not in Nat. Agr. Libr.
301. U. S. RURAL ELECTRIFICATION ADMIN. Annual statistical report. Washington, REA Bull. Issued annually. 1.933 F49
302. * U. S. RURAL ELECTRIFICATION ADMIN. Monthly statistical bulletin. Rural electrification program 1954-1964. various paging. Washington, 1954. Not in Nat. Agr. Libr.
Quarterly supplements accompany some months, starting with June, 1955, No. 170.
303. U. S. RURAL ELECTRIFICATION ADMIN. REA loans to help consumers buy equipment double in 1955. Washington, 1955. 9 p. A284.2 R882
304. U. S. RURAL ELECTRIFICATION ADMIN. Report of the Rural Electrification Administration relating to the designated Great Plains area. Washington, 1955. 4 p. A335 R88Rg
Loans.
305. WAGGONER, J. G. What the electric cooperatives should do with its members' contribution to capital. Amer. Coop. 1955:574-579. 280.29 Am3A
Used in replacements and renewals for strong, efficient, dependable service.

306. WALL, A. P. How an electric cooperative can strengthen its bargaining position in regard to its wholesale power supply. Amer. Coop. 1956:432-434. 280.29 Am3A

With alternate sources of supply.

307. WILDER, J. E. What the electric cooperative should do with its members' contribution to capital. Amer. Coop. 1955:571-573. 280.29 Am3A

Waggoner, J. G., p. 574-579 and Parr, W. H., p. 580-581 both with the same title as above-but not panel discussions in the true sense.

308. WILKINS, C. E. REA funds back co-op costs 60 percent. Co-op. Power 11(10):13, 18. Oct. 1954. 335.8 C78

Legal Aspects

General

309. ABRAMS, E. R. The taxpayer subsidizes Government power projects. Public Util. Fortn. 60 (1):20-26. July 4, 1957. 280.8 P966

310. BLALOCK, H. W. Subsidy in the Southwest. Rural Elec. Mag. 13(4):11-12. Jan. 1955. 335.8 N21
For private utilities.

311. BLISS, J. A. The case of the missing millions. Public Util. Fortn. 59(3):145-159. Jan. 31, 1957. 280.8 P966
So-called tax savings of utilities.

312. CO-OP City sales blocked. Elec. World 151 (11):50. Mar. 16, 1959. 335.8 EL2

313. HAMIL, D. A. Toward greater freedom. Public Util. Fortn. 65(12):815-819. June 9, 1960. 280.8 P966

REA's Freedom from dependence on Federal Government.

314. HOLLISTER, S. C. Public and private power and the Hoover Commission's recommendations. Edison Elec. Inst. Bull. 25(8):185-188, 201. June 1957. 335.8 Ed4

315. HOOVER COMMISSION report threatens the future of rural electrification program, NRECA charges. Rural Elec. Mag. 13(7):26, 54. Apr. 1955. 335.8 N21

316. KAY, H. There's no stopping REA-or is there? Fortune 67(2):118-121, 173-174, 176, 181-182, 184, map. Feb. 1963. Not in Nat. Agr. Libr.

317. KLINE, A. The development of hydroelectric projects under the Federal Power Act. Edison Elec. Inst. Bull. 25(6):182-184. June 1957. 335.8 Ed4
Functions and duties of the FPC.

318. MITCHELL, D. H. Electric subsidy-for whom? Public Util. Fortn. 64(12):910-915. Dec. 3, 1959. 280.8 P966

Subsidies to cooperatives will drive principal investors away from electric utilities-largest tax paying industry in the nation.

319. MORGAN, H. Rural electric cooperatives as a regulatory force. Rural Elec. Mag. 21(9):20-22, 40. June 1963. 335.8 N21

The U. S. Federal Power Commission.

320. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. Statements. (on rural electrification, public power and related subjects presented by members of NRECA before Congressional committees, and other Government organizations.) Washington, NRECA, 1954-1964. 11 vols. Not in Nat. Agr. Libr.

These statements can be found in Congressional printed hearings.

321. NELSEN, A. Nelsen points out flaws in Hoover plan for REA. Elec. Farmer 9(9):7. Sept. 1955. 335.8 N27

322. NEW US power rules stir up REA co-ops. Farm J. 78(1):22-23. Jan. 1954. 6 F2212

Co-ops will get preference rights only for immediate needs.

323. N R E C A's Ellis presents rural electric point of view at big farm conference. Rural Elec. Minuteman 118:1-2. Jan. 27, 1961. 335.8 R8895

The legislative needs of the rural electric cooperatives.

324. O'BRIEN, J. B. The preference clause in Federal electric power development and distribution. In U. S. Commission on Organization of the Executive Br. of the Government. Task Force on Water Resources and Power. Report on water resources and power, v. 3, p. 1107-1150. Washington, 1955. 173 Or3Ta

325. POWER companies amass bonanza of over \$ 2 billion in tax subsidies. Rural Elec. Minuteman 208:1-4. Mar. 1, 1963. 335.8 R8895
326. REA AS A regulatory force. Rural Elec. Minuteman 214:4. Apr. 12, 1963. 335.8 R8895
327. THE REJECTED stone. Rural Elec. Minuteman 76:3. Feb. 5, 1960. 335.8 R8895
328. RURAL Electricians and taxes. Rural Electric Minuteman 159:4. Jan. 19, 1962. 335.8 R8895
Reprinted from Iowa Farm Bureau Spokesman, January 6, 1962.
329. SATTERFIELD, J. C. Co-ops and the law. Rural Elec. Mag. 20(5):12, 13, 44. Feb. 1962. 335.8 N21
A compilation of excerpts from a speech.
330. SMITH, B. L. Tax cost of Federal electric power. Public Util. Fortn. 61(13):896-908. June 19, 1958. 280.8 P966
Tax favoritism.
331. THE TAXES co-ops pay. Co-op Power 11(7):10, 14, 15. July 1954. 335.8 C78
332. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATIONS. Availability of power to public preference customers from Central Valley Project. Hearings, 84th Cong., 2d sess., September 24 and 25, 1956. Washington, 1957. 273 p.
Not in Nat. Agr. Libr.
333. UPSTREAM benefits bill (Minuteman background feature). Rural Elec. Minuteman 93:3. June 3, 1960. 335.8 R8895
Power companies' subsidies.
334. VENABLES, T. Census 1960 and what it means to us. Rural Elec. Mag. 18(10):14-15. July 1960. 335.8 N21
Number of farms decreasing-but Congress intended rural not farm electrification.
335. WATERMAN, W. B. REA-a yardstick for Government encroachment. Public Util. Fortn. 70(1):9-17. July 5, 1962. 280.8 P966
336. WELCH, F. X. Federal power corporation-a pattern for nationalization. Public Util. Fortn. 64(7):473-485. Sept. 24, 1959. 280.8 P966
337. WHO'S being "invaded"? Rural Elec. Minuteman 73:4. Jan. 15, 1960. 335.8 R8895
338. WRIGHT, C. E. Settling the Clark-Hill Co-op controversy. Public Util. Fortn. 58(6):373-380. Sept. 13, 1956. 280.8 P966
In sharing power output.
- Legislation
339. BENSON, E. T. Statement before the House Committee on Agriculture. Feb. 18, 1960. 45 p. 1.91 A2B44
Includes the Rural Electrification Administration.
340. CASE FOR rural electrification. Rural Elec. Minuteman 9:2-3. June 13, 1958. 335.8 R8895
Excerpts from testimony at the hearings for the Humphrey Price Bill.
341. COCHRAN, C. L. The Hoover Report and why REA is in politics. Rural Elec. Mag. 13(7):24-25, 62. Apr. 1955. 335.8 N21
342. COCHRAN, C. L., and BELLER, I. Urban versus rural support for rural electrification. Rural Elec. Mag. 15(5):23-25. Feb. 1957. 335.8 N21
Congressional support.
343. JURISDICTIONAL battle rages over rural electric coops. Congr. Quart. Weekly Rep. 21:1828-1832. Oct. 18, 1963. 286.368 C763.
344. KYSILKO, J. A. The role of Government in the electric industry. Washington, NRECA, 1965. 40 p.
Not in Nat. Agr. Libr.
Research Paper No. 65-1.
345. MITCHEL, R. H. Congress must control REA. Public Util. Fortn. 70(10):689-698. Nov. 8, 1962. 280.8 P966
346. PARTRIDGE, R. 1963: busy year for rural electricians in halls of Congress. Rural Elec. Mag. 22(4):20-21, 52. Jan. 1964. 335.8 N21
347. STRUNK, F. C. Does FPC have jurisdiction over co-ops? Rural Elec. Mag. 21(9):18, 38, 39. June, 1963. 335.8 N21
348. TOLLEY, G. S. The Rural Electrification Administration. In Break, G. F., and others. Federal credit agencies, p. 385-434. 1963. 284 B74

A historical study with legal implications and evaluation of possible changes and alternative approaches.

349. U. S. CONGRESS. HOUSE. COMMITTEE ON APPROPRIATIONS. Department of Agriculture Appropriation Bill. Hearings and Reports. Eighty third Congress to Eight-eighth Congress, 1954 to 1964. Washington, various paging. 1 Ag 81Ses

350. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATIONS. Effect of administrative acts and policies of Department of Interior and Rural Electrification Administration on rural electric cooperatives, public bodies, and municipal electrics. Hearings (Rep. Chudoff) before the Subcommittee on Public Works and Resources. 84th Cong., 1st and 2d sess., on HR 213, 1972, 2279. May 10-12, June 6-8, 25, July 6, 7, 16, 19-23, 26, 28, Aug. 11, 30, 31, Sept. 2, 7, 9, 12, 13, 14, Oct. 11-13, 18, 19. 1955. Washington, 1955. 1686 p. 335 Un387E

351. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATIONS. Modifying reorganization plan No. II of 1939 and reorganization plan No. 2 of 1953 (Rural Electrification Administration). Hearing, 86th Cong., 1st sess. on H. R. 1321, H. R. 3029, H. R. 3192, H. R. 4662, H. R. 5746, H. R. 5688, and H. R. 5853, March 6, 1959. Washington, 1959. 113 p. Not in Nat. Agr. Libr.

352. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATIONS. Reorganization of Rural Electrification Administration. Hearings before a subcommittee of the Committee on Government Operations. 85th Cong., 2d sess. on H. R. 11762, (Humphrey-Price bill) to amend reorganization plan No. 2 of 1953. June 9, 10, 13, 1958. Washington, 1958. 236 p. 335 Un387R

353. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATIONS. Reorganization plan No. 1 of 1959. Transfer of certain funds from Secretary of Interior to the Secretary of Agriculture. Hearings before the Subcommittee on Government Operations. 86th Cong. 1st sess. June 8, 1959. 81 p. Washington, 1959. 280.12 Un359Re

354. U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Rural Electrification Administration. Hearings before a subcommittee of the Committee on Agriculture and Forestry, United States Senate, 86th Cong., 1st sess., on S. 75, a bill

to establish the Rural Electrification Administration as an independent agency, and for other purposes. March 5 and 6, 1959. Washington, 1959. 45 p. 335 Un37Ru

355. U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE. Exemption of rural electric cooperatives from Power Commission jurisdiction report to accompany S2028. 88th Cong., 2d sess., Senate Rep. No. 1363. Washington, 1964. 7 p. 335 Un3962E

356. U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE. Hearings 88th Cong., 2d sess. on S. 3038. July 22, 23, and 29, 1964. Washington, 1964. 224 p. Not in Nat. Agr. Libr.

357. U. S. CONGRESS SENATE. COMMITTEE ON COMMERCE. Hearings on S. 1459 to amend Federal Power Act as amended, in respect of the jurisdiction of Federal Power Commission over non-profit cooperatives. United States Senate. 89th Cong., 1st sess., Apr. 22, 23, 1965. Washington, 1965. 153 p. Not in Nat. Agr. Libr.

358. U. S. CONGRESS. SENATE. COMMITTEE ON GOVERNMENT OPERATIONS. To amend Reorganization plan No. 2 of 1953 (Rural Electrification Administration). Hearings before a Subcommittee 85th Cong., 2d sess on S. 2990, a bill to transfer the statutory authority of the Rural Electrification Administration from the Secretary of Agriculture to the REA Administration on June 5, 6, 19, 1958. Washington, 1958. 305 p. 335.9 Un33

359. U. S. DEPARTMENT OF AGRICULTURE. OFFICE OF THE GENERAL COUNSEL. Legal aspects of territorial protection for REA-financed cooperatives. Washington, July, 1965. 58, A1-A70, xiv. Not in Nat. Agr. Libr.

360. U. S. RURAL ELECTRIFICATION ADMIN. State legislation affecting the REA program. 1954-1964. Washington, Annual reports. Not in Nat. Agr. Libr.

361. UNNECESSARY duplication of effort. Rural Elec. Minuteman 225:4. June 28, 1963. 335.8 R8895
Federal Power Commission's attempt to regulate rural electric co-operatives.

362. WISE, W. C. Legal restrictions on REA-financed cooperatives. (A study prepared at the request of Mid-West Electric Consumers Ass., Denver, Colo.) Denver, 1965. 18 p. Not in Nat. Agr. Libr.

Loans

363. THE AIKEN resolution (Minuteman background feature). Rural Elec. Minuteman 58:3. July 31, 1959. 335.8 R8895

Comptroller-General Joseph Campbell rulings should not be contrary to intent of Congress.

364. CAMPBELL clarifies his stand on REA. Elec. World 150(17):58. Oct. 27, 1958. 335.8 EL2

Will not limit REA on loans to coops for new customers.

365. COMPTROLLER General issues revised REA ruling. Rural Elec. Minuteman 24:1. Oct. 24, 1958. 335.8 R8895

366. CONGRESS curbs REA, FPC over empire building. Congr. Quart. Weekly Rep. 22:230-234. Jan. 31, 1964. 286.368 C763

Place one third of REA loans on reserve.

367. GORRIN, L. The legal bases for REA loans. Public Util. Fortn. 71(10):26-32. May 9, 1963. 280.8 P966

368. HOW A SUBSIDIZED business thrives; rural electric cooperatives. Nation's Business. 52(10):36, 37, 50, 52, 57. Oct. 1964. 286.8 N212

369. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. LEGISLATION AND RESEARCH DEPT. Cumulative REA loans to commercial power companies as of Jan. 1, 1963, and amounts repaid. Washington, 1963. 2 p.

Research circular 63-1. Not in Nat. Agr. Libr.

370. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. LEGISLATION AND RESEARCH DEPT. Rural electrification loan funds, 1935-1965. Amount of rural electrification loan funds authorized and appropriated by Congress since the beginning of the REA program through 1965. Washington, 1965. 2 p.

Research circular 65-2. Not in Nat. Agr. Libr.

371. NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION. LEGISLATION AND RESEARCH DEPT. Section V loans by the Rural Electrification Administration. Excerpts from Congressional records. Washington, 1963. 8 p.

Research circular 63-2. Not in Nat. Agr. Libr.

372. NATIONAL RURAL ELECTRIC COOPERATIVE

ASSOCIATION. LEGISLATION AND RESEARCH DEPT. Ten largest REA electric loans. Washington, 1965, 1 p.

Research circular 65-1. Not in Nat. Agr. Libr.

373. NELSON, P. Ripe for picking. Rural Elec. Mag. 17(5):32, 33, 72. Feb. 1959. 335.8 N21

Interest rates.

374. NELSON, P. Subsidy? Rural Elec. Mag. 17(4):14, 15, 46. Jan. 1959. 335.8 N21

Interest rates.

375. NRECA opposes any rise in REA interest rate. Farm Power 15(2):7, 11. Mar. 1958. 335.8 F227

376. RULING by Comptroller General could wreck entire rural electric program. Rural Elec. Minuteman 16:1-2. Aug. 1, 1958. 335.8 R8895

377. SPECIAL interest rate issue. Rural Elec. Minuteman 24:1-6. Oct. 24, 1958. 335.8 R8895

378. STORY behind the interest increase drive. Rural Elec. Minuteman 23:1-3. Oct. 10, 1958. 335.8 R8895

379. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Agricultural credit and Rural Electrification Administration review. Hearings, 86th Cong., 1st sess., February 5 and 18, 1959. Washington, 1959. 78 p. 284.2 Un324Ac

380. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. REA recreation loan policy. Hearing, 88th Cong., 1st sess., October 15, 1963. Washington, 1963. 41 p. 284.2 Un324Rea

Valley Rural Electric cooperative, Huntington, Pa. and the Blue Knob, Pa. ski resort.

381. U. S. CONGRESS. SENATE COMMITTEE ON AGRICULTURE AND FORESTRY. Allocation of REA funds. Hearing, 84th Cong., 1st sess. on S. 153, a bill to amend the Rural Electrification Act of 1936, Mar 23, 1955. Washington, 1955. 42 p. 335 Un37Ar

382. U. S. DEPT. OF AGRICULTURE. Loan programs of the Rural Electrification Administration. White House regional conference, 1961; fact sheet. Washington, 1961. 4 p. A335 Ag8

History and activities of REA.

383. U. S. DEPT. AGR. OFFICE OF GENERAL COUNSEL. Legal analysis of capital credits and related matters. (Mimeo) Washington, July, 1957. 30 p. A335 G28

384. U. S. RURAL ELECTRIFICATION ADMIN. The Rural Electrification Administration is a lending agency in the United States Department of Agriculture. U. S. Dep. Agr. Misc. Publ. 929, 11 p., maps. Apr. 1963. 1 Ag84M

DISTRIBUTION AND LOAD

Utilization and load building

General

385. ALL-ELECTRIC salesmanship in Ohio. Rural Lines 7(9):12-13. Feb. 1961. A335.8 R88
386. ALTMAN, L. B., and CHARITY, L. F. Demand studies in farm electric service. Agr. Eng. 41(4):237-240. Apr. 1960. 58.8 Ag83
387. ALTMAN, L. B., and JEBE, E. H. Load characteristics of selected highly electrified Iowa farms. Iowa. Agr. Exp. Sta. Res. Bull. 453:136-147. Ref. Dec. 1957. 100 Io9
So as to predict annual maximum power demands.
388. ALTMAN, L. B., and JEBE, E. H. Load characteristics of southeastern Iowa farms using electric ranges. Iowa. Agr. Exp. Sta. Res. Bull. 420:211-224. Jan. 1955. 100 Io9
For estimating maximum power demand.
389. ALTMAN, L. B., and JEBE, E. H. A new formula for determining electric load characteristics. Rural Elec. Mag. 15(5):18, 19, 66, 68. Feb. 1957. 335.8 N21
390. ALTMAN, L. B., and CHARITY, L. F. Sizing distribution transformers for farms. Agr. Eng. 44(5):240-245. Ref. May 1963. 58.8 Ag83
391. AMBROSIUS, C. C., and SARIKAS, R. H. Planning rural systems for continuing growth. Amer. Inst. Elec. Eng. Trans. 79(3):623-628. 1960. 335.8 Am3T
Includes discussion.
392. ANDERSON, F. F. Idle services, our #1 headache? Rural Elec. Mag. 16(11):20-21, 54. Aug. 1958. 335.8 N21
393. ARNETT, W. W. Filling the valleys in your system load curves. Rural Lines 5(10):14-18. Mar. 1959. A335.8 R88
394. ARNOLD, D. Building for the future with 4-H. Power Supplier Conf. 4-H Farm & Home Elec. Program. Talks 5:4-10. Nov. 30, 1955. 335.9 P87
Building electric power.
395. BUILDING for load ahead; Delaware coop adopts long range plan to push future power use, Rural Lines 2(8):3-4. January 1956. A335.8 R88
396. BUTZ, E. L. The new look in agriculture. Rural Realtor 10(12, i. e. 11):1-5. Nov. 1958. 282.8 R88
With an even greater need of electric energy.
397. CALDERWOOD, D. L., and MCFATE, K. L. Using electricity in Iowa farm homes. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 9:647-650. Dec. 1954. 275.28 Io94
398. CAROLINA POWER AND LIGHT (CO) launches \$ 100,000 farm electrically program for 1961. Edison Elec. Bull. 29(2):46-47. Feb. 1961. 335.8 Ed4
399. CHANGING rural market means larger farms, bigger customers. Elec. World 145(7):21, 32. Feb. 13, 1956. 335.8 EL2
By 1965, customers will be buying two and one half times as much electricity as in 1956.
400. CHASE, M. Power for rural Puerto Rico. Rural Lines 6(3):14-16. Aug. 1959. A335.8 R88
401. CLAPP, N. M. Secure power for rural co-operatives. Public Util. Fortn. 67(12):818-822. June 8, 1961. 280.8 P966
402. COBB, J. R. Viewing the new rural electric market. Rural Elec. Mag. 13(10):15, 48. July 1955. 335.8 N21
Now equal to that of New York, Chicago, and Philadelphia.
403. CO-OP moves toward expanded power use. Farm Power 14(1):10. Jan. 1957. 335.8 F227
404. CO-OPS up sales 15 percent, revenues 11 percent, statistic of REA financed systems. Elec. World 147(4):131-5. Jan. 28, 1957. 335.8 EL222

405. CRISP, W. T. A look at the role of statewide associations., In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 41-43. Washington, 1954. A335.9 R882
Cooperatives.
406. DELL, R. A. What REA can do to participate in this program. In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 10-13. Washington, 1954. A335.9 R882
407. ELLIS, C. T. New frontiers of rural electrification; introductory statement. Amer. Coop. 1961:549-550. 280.29 Am3A
408. "FARM better electrically" scores in first months as program. Edison Elec. Inst. Bull. 25(8):271-273. Aug. 1957. 335.8 Ed4
With a goal of doubling farm electricity usage by 1965.
409. FARM electrical load demand under study. Elec. Constr. & Maint. 62(6):167-8. June 1963. 335.8 EL232
410. FARM electrification by States: U. S. Census of Agriculture 1950 and 1954 data and EEI data for year end 1955. Farm Power 13(8):16. Aug. 1956. 335.8 F227
Also in Farm Power 13(12):13. Dec. 1956. 335.8 F227
Also in Farm Elec. 9(3):16. May-June 1955. 335.8 F224
411. FARM electrification statistics. Farm Elec. 12(4):14-15. July-Aug. 1958. 335.8 F224
For 1953-1957.
412. GOUDY, M. P. Land-use survey valuable too in system planning. Elec. Light & Power 36(25):66-69. Dec. 15, 1958. 335.8 EL243
Agriculture, a major share.
413. HAMIL, D. A. Co-op electricity enters boom years. Coop. Digest 21(5):17. Nov. 1960. 280.28 C7896
414. HAMIL, D. A. New guide lines for growing rural utilities. Public Util. Fortn. 63(8):528-532. Apr. 9, 1959. 280.8 P966
415. HAMIL, D. A. Rural Electrification Administration power sales boosted. 15.5 percent in 1959. Elec. World 153(3):42. Jan. 18, 1960. 335.8 EL2
416. HARD WORK plus imagination equals power sales success. Rural Lines 6(4):15-18. Sept. 1959. A335.8 R88
417. HARTUNG, T. E., and TRENARY, O. J. Are you protected against power failure? Poultry Tribune 66(5):18, 39-40. May 1960. 47.8 P8642
418. HERRIOTT, V. H. Electric power supply for agriculture. Agr. Eng. 41(9):632, 649. Sept. 1960. 58.8 Ag83
Agriculture, the largest power-using industry in America has an even greater potential.
419. HERRIOTT, V. H. What is the cooperatives role? In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 44-49. Washington, 1954. A335.9 R882
420. HE' S BUILDING daytime load. Rural Lines 5(4):13-16. Sept. 1958. A335.8 R88
421. HIENTON, T. E. Farm market for electric power. Implement & Tractor 75(2):18-20. Jan. 23, 1960. 58.8 W41
422. HILLMAN, C. H. Young farm families: their income, expenditures, satisfactions, and needs. Ohio. Agr. Exp. Sta. Res. Bull. 924, 44 p. Oct. 1962. 100 Oh3S
Machinery and land among the greatest needs.
423. HOLSTEIN, L. F. Count off-by the numbers to locate rural customers. Elec. Light & Power 34(26):119-120. Dec. 15, 1956. 335.8 EL243
For more efficient service repair.
424. INCREASE, in power use reduces rates in TVA area. Rural Elec. Mag. 15(4):28. Jan. 1957. 335.8 N21
425. KANSAS plans added electric use. Farm Elec. 8(6):10-11. Nov.-Dec. 1954. 335.8 F224
Importance of power loadbuilding.
426. KEEPING pace with demand. Rural Lines 2(9):6-7. Feb. 1956. A335.8 R88
427. LAND, W. B. 400 ampere services are being required on Georgia farms. (Abstr) Ass. South. Agr. Workers. Proc. 56:60. 1959. 4 C82
More practical than the inadequate 200 ampere services.

428. LEVEL peak loads. Co-op Power 12(8):10-12, 17. Aug., 1955. 335.8 C78
Also contains Peak opportunity to a sound investment by T. F. Galvin and Norwec Leveload; Centralized system solves peakload, by L. S. Rodes and Charles Seymour.
429. LUCKING, W. T. A look into the electrical future. Edison Elec. Inst. Bull. 25(12):395-398. Dec. 1957. 335.8 Ed4
Farm power needs included.
430. LUCKING, W. T. The rural electrification balance sheet. Edison Elec. Inst. Bull. 23(6):174-176, 244-245. June 1960. 335.8 Ed4
Future goals.
Also in Commercial & Financial Chron. 191:2600-2601. June 1, 1960. 286.8 C73
431. LUDINGTON, D. C. Electric load studies on dairy farms. N. Y. Farm Elec. Council. Prog. Rep. 1958:58-63. 1959. 335.9 N485
Aid in predicting maximum demand.
432. LUDINGTON, D. C. Is your electric system overloaded? Hoard's Dairyman 103(17):860, 863. Sept. 10, 1958. 44.8 H65
Also in Farm Power 16(6):13. June 1959. 335.8 F227
433. MABREY, O. E. Free electricity. Co-op Power 11(9):10, 16. Sept. 1954. 335.8 C78
With purchase of heaters and stoves to stimulate increased use of power.
434. MACMILLAN, K. A. Power use in island paradise. Rural Elec. Mag. 17(2):14-15, map. Nov. 1958. 335.8 N21
San Juan Island, Washington.
435. MADGETT, J. P. Dairyland power use has increased 7-fold; atomic facilities will help it double in next decade. Coop. Digest 25(5):12-13. Nov. 1964. 280.28 C7896
436. MARVIN, V. A forward look at farm electrification. Public Util. Fortn. 67(5):306-312. Mar. 2, 1961. 280.8 P966
Greater power demands.
437. MIDWEST farmers double electricity use in 10 years. Coop. Digest 24(9):31. Mar. 1963. 280.28 C7896
438. MILLER, A. L. Criteria for rural power use. Co-op Power 11(6):10, 19. June 1954. 335.8 C78
Against federalization of electric industry.
439. NELSEN, A. Remarks by REA Administrator at REA-Industry Power Use Conference, Edgewater Beach Hotel, Chicago, March 11, 1954. Washington, U. S. Rur. Elec. Admin., 1954. 2 p. 1.933 N33
Also published separately 2 p.
440. OLDS, L. The age of giant power. Rural Elec. Mag. 14(12):22-23, 58. Sept. 1956. 335.8 N21
Increased power needs face danger of losing to private power monopoly.
441. OLEJAR, P. D. Taking advantage of electric power. Nat. Grange Mon. 51:30-32. Jan. 1954. 6 N215.
Greater use of electricity needed.
442. OLSON, R. E. Needed: more of everything. Dairy Eng. Conf. Proc. 5:64-68. 1957. 44.9 D1482
More dairy engineers for more fully automated dairies for economical, technological and sociological betterment.
443. 1,000 KWH coop is here at last'. Rural Lines 1(8):14-15. Jan. 1955. A335.8 R88
444. THE OUTLOOK; still more consumers more kwh- and more plant. Rural Lines 5(6):15-20. Nov. 1958. A335.8 R88
445. PHILSON, M. K. Use of and demand for electricity in sixteen farm homes in Marshall and Jasper Counties, 1950-1951. (Abstr) Iowa State Coll. J. Sci. 28:378-379. Feb. 1954. 470 Io9
446. POOLE, W. R. A rural sales program that meets the challenge. Edison Elec. Inst. Bull. 28(5):151-153. May 1960. 335.8 Ed4
For increased power usage.
447. POWER-full promotion. Rural Lines 8(11):6-9. Apr. 1962. A335.8 R88
448. PRACTICAL plan for farm power sales. Public Util. Fortn. 65(2):120-121. Jan. 21, 1960. 280.8 P966
Discussion of an address by E. Vennard at the sixth annual national Electric Farm Power Conference in Phoenix, Arizona.

449. PRICE, R. C. The future power supply and requirements in the Southeast. (Condensed.) Agr. Eng. 45(5):257. May 1964. 58.8 Ag83
450. PRINGLE, H. S. Summary of progress report of Farm Electrification Councils in the Southern States. (Abstr) Ass. Southern Agr. Workers. Proc. 52:31. 1955. 4 C82
451. RADICAL 20 year power use increase predicted. Farm Power 15(6):5-6. July 1958. 335.8 F227
452. REA FORECAST for 1957; 21 billion Kwh input. Rural Lines 3(8):3-4. Jan. 1957. A335.8 R88
453. REA GIRDS to meet farm demand hike. Elec. World 147(19):78-79. May 13, 1957. 335.8 EL2
454. REA SEES power needs growing fast for farm-suburb-industry. Farm Power 15(1):6-8. Jan-Feb. 1958. 335.8 F227
455. REA'S SELL 23.6 billion KWHR up 7.8 percent; statistic of REA-financed systems. Elec. World 149(4):109. Jan. 27, 1958. 335.8 EL2
456. RURAL ELECTRIC Industry urged to work together-farm sales program outlined as key to success. Farm Power 1(1):6-9. Jan. 1956. 335.8 F227
457. RURAL Ohio; where city and county meet. Rural Lines 9(1):23-24. June 1962. A335.8 R88
Power use is increasing.
458. RUSHLOW, W. E. Economic loading of units. Washington, U. S. Rural Elec. Admin., 1956. 6 p. A335 R884E
For presentation at the 1956 Generation Plants Operations and Maintenance Conference, St. Louis, Missouri, April 2-5, 1956.
459. SMITH, E. G. A promotional drive. Co-op Power 12(6):14, 29. June 1955. 335.8 C278
For all-electric farms.
460. SMITH, J. K. For better use of power on the farm. Public Util. Fortn. 55:467-469. Apr. 28, 1955. 280.8 P966
461. SMITH, J. K. Special power use promotions. In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 33-38. Washington, 1954. A3359 R882
462. SPORN, P. Energy requirements and the role of energy in our expanding economy. Agr. Eng. 38(9):657, 677-679. Sept. 1957. 58.8 Ag83
Includes farm use of electric energy.
463. STAPLETON, H. N. Future farmstead power requirements. Agr. Eng. 41(9):631, 650-651. Sept. 1960. 58.8 Ag83
Expected increase in electricity as well as fuel.
464. STEWART, A. O. Organized power use. Amer. Coop. 1959:518-524. 280.29 Am3A
Rural electric cooperatives.
465. STRINGHAM, G. E. Safe use of electricity. Utah. Agr. Exp. Sta. Farm Elec. Leaflet. 12, 4 p. Spring 1958. 335.9 Ut1
466. STRONG, F. H. A look at the rural electrification program. In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 1-6. Washington, 1954. A335.9 R882
467. SWANSON, D. H. Builds to serve rising farm load. Elec. World 144(12):117-120. Sept. 19, 1955. 335.8 EL2
468. THOMAS, G. W. Rural load development through united co-operation. Public Util. Fortn. 60(3):158-164. Aug. 1, 1957. 280.8 P966
Farm utilization of electricity and the Inter-Industry Farm Electric Utilization Council.
469. TICHENOR, P. J. Throwing light on good practices. Ext. Serv. Rev. 30(2):43-44. Feb. 1959. 1 EX892Ex
Promotion of electricity on the farm.
470. TURNER, C. N. Electric load studies. N. Y. Farm Elec. Council. Prog. Rep. 1960:31-39. 1961. 335.9 N485
In dairy barns and poultry houses.
471. TURNER, C. N. Electric load studies. N. Y. Farm Elec. Council. Prog. Rep. 1961:28-33. 1962. 335.9 N485
In dairy barns.
472. TURNER, C. N. Electric load studies: a poultry laying house. N. Y. Farm Elec. Council. Prog. Rep. 1962:12-16. 1963. 335.9 N485

473. 12.5 BILLION KWH purchased by REA-financed systems last year. Co-op Power 11(8):12-14. Aug. 1954. 335.8 C78
474. 20 WAYS TO boost power sales; successful campaigns described cover; each was originated, engineered and led by coops. Rural Lines 5(1):1-23. June 1958. A335.8 R88
475. TWO GROUPS eye farm power market. Elec. World News 142(23):15. Dec. 6, 1954. 335.8 EL2
The Inter-industry Farm Electrification Council and the National Farm Electrification Conference.
476. ULRICH, J. R. Power use success. Rural Elec. Mag. 19(8):14-15. May 1961. 335.8 N21
Through rural cooperative employed participation.
477. U. S. DEPT. OF AGRICULTURE. Agricultural statistics, Washington, various paging. 1 Ag84Yas
Annual publications-electric energy used-number of farms electrified.
478. U. S. AGRICULTURAL MARKETING SERV. Use of electricity on United States farms continues to expand. Washington, 1955. 2 p. A335 M34U
479. U. S. RURAL ELECTRIFICATION ADMIN. Annual report of energy purchased by REA borrowers. Washington, various paging. 1.933 En2
Issued annually.
480. U. S. RURAL ELECTRIFICATION ADMIN. Developing a better electric-farming program. U. S. Rural Elec. Admin., REA Bull. 140-9, 32 p. Sept. 1957. Not in Nat. Agr. Libr.
481. U. S. RURAL ELECTRIFICATION ADMIN. A summary of the REA Power Use Conference held at the Edgewater Beach Hotel, Chicago, Ill., March 11, 1954. Washington, 1954. 73 p. A335.9 R882
482. UTILITIES back farm better electrically program. Elec. World 50(12):152, 154. Sept. 22, 1958. 335.8 EL2
483. VENNARD, E. Building load to increase net return. Co-op Power 12(4):10-11, 17; 12(5):10-11, 18; 12(6):12-13. Apr./May/June 1955. 335.8 C78
Limited to farm business.
484. VENNARD, E. A. A farm sales program to build net return. I-III, Farm Power 1(2):8-10; 13 i. e. 1(3):6-8, 15, 18-19; 13 i. e. 1(4):10. Feb/Apr. 1956. 335.8 F227
485. VENNARD, E. A realistic look at farm sales. Edison Elec. Inst. Bull. 28(1, sect. 1):18-24, 30. Jan. 1960. 335.8 Ed4
Consumption of electricity. With cooperation of cooperatives and companies.
486. VEST, S. J. Estimating Kw demand for future loads on rural distribution systems. Amer. Inst. Elec. Eng. Trans. 76(3):652-655. 1957. 335.9 Am3T
487. WESSENAUER, G. O. TVA's experience with a power utilization program for rural areas. In United Nations Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas, Geneva, 1963. Science, technology, and development. United States papers, v. 1, p. 55-61. 1962. 280.9 Un3982
488. WHAT area coverage means. Rural Elec. Minuteman 105:4. Aug. 26, 1960. 335.8 R8895
- Appliances, Equipment, and Motors
489. BECKER, R. J. Replacing piecemeal mechanization on farms. Implement & Tractor 73(13):26-27, 59-60. June 28, 1958. 58.8 W41
490. BENANCHIETTI, O. E. All about motors. Farm Quart. 12(3):50-55, 123-127. Autumn 1957. 6 F22995
Increased use 1000 percent in ten years-mechanization means savings in labor costs.
491. BENNETT, G. K. Electric fan performance. N. Y. Farm Elec. Counc. Progr. Rep. 1957:57-60. Apr. 1958. 335.9 N485
492. BRESSLER, G. O. Equipment; cost or investment? Egg Prod. 89(10):10-11, 32. Oct. 1958. 47.8 Am32
Electrification helpful and economical.
493. BRODELL, A. P. Machinery on U. S. farms, 1957. Farm Implement News 78(17):69-73, 76-86, 88, 90-104, 106, 119-120. Sept. 10, 1957. 58.8 F22
Electrical machinery included.
494. BRODELL, A. P., and COOPER, M. R. Power and machinery on farms, and related data. U. S. Agr. Res. Serv. ARS-43-26, 30 p. Apr. 1956. A281.9 R313A
Statistics on electric equipment from 1930 to 1955-by States.

495. BROWN, O. A. Electric motors for farm use. *World Farming* 2(4):14-15, 31. Apr. 1960. 30.08 W89
How to choose the equipment best fitted for job to be done.
Also in *Implement & Tractor* 75(4):96-97, 104. Feb. 20, 1960. 58.8 W41
496. BROWN, R. H. All about electric motors. *Elec. Farm Mag.* 29(1):10-12; 29(2):12-14; 29(3):18-20. Jan./Mar. 1956. 335.8 EL27
497. CAMPBELL, L. E. Standby electric power equipment for the farm. U. S. D. A. Leaflet 480, 8 p. Oct. 1960. 1 Ag84L
Electric generators.
498. CHAMBLISS, R. L. Application of management principles to farm machinery and labor use. Va. Polytech. Inst. Agr. Ext. Va. Farm Econ. 172:2-6. Jan. 1962. 275.29 V813
499. CO-OP BOOSTS power use in Oklahoma by selling 15,000 electric skillets. *Rural Lines* 4(3):14-15. Aug. 1957. A335.8 R88
500. DUNCAN, C. S. Thermoelectric cooling and power generation. *Agr. Eng.* 41(5):293-295. May 1960. 58.8 Ag83
In agricultural engineering.
501. ELECTRIC cooperatives and companies pool wits and push rural sales. *Elec. World* 153(14):71-73. Apr. 4, 1960. 335.8 EL2
502. ELECTRICALLY operated equipment gives the farm another hand at chore time. *Implement & Tractor* 69(7):60-61. Mar. 27, 1954. 58.8 W41
503. ENDAHL, L. \$1 billion rural market foreseen for appliances in 1961. *Rural Elec. Mag.* 19(5):18-19. Feb. 1961. 335.8 N21
504. FARM electrification: second phase. *Implement & Tractor* 73(13):28-30. June 28, 1958. 58.8 W41
Increased power use.
505. FARMER. RESEARCH DEPT. 1957 buying intentions of farm families in Minnesota. St. Paul, 1956. 3 p. 280.39 F224D
Electrical equipment and appliances included.
506. FARMER. RESEARCH DEPT. 1957 buying intentions of farm families in the Dakotas. St. Paul, 1956. 3 p. 280.39 F224D
Electrical equipment and appliances included.
507. FITTON, H. N. United makes farm equipment to fit farm needs. *News Farmer Coop.* 26(8):19-20. Nov. 1959. 166.2 N47
508. FLIKKE, A. M., and JUNNILA, W. A. Electric motors for farm automation. *Minn. Farm & Home Sci.* 18(3):12, 16. Spring 1961. 100 M668
509. FOSS, E. W. Kilowatts, motors and farm electric jobs. *Maine Univ. Agr. Ext. Maine Ext. Bull.* 351, 40 p. Jan. 1947. 275.29 M281B
510. FOX, K. As an aid to chemurgic progress: materials handling science. (Condensed.) *Chemurg. Digest* 14(7/8):15. July/Aug. 1955. 381 N213Na
Mechanization on the farm.
511. FRENCH, C. E. Labor savers; when do they pay? *Better Farming Methods* 35(10):10-13. Oct. 1963. 58.8 B46
Labor and management saved versus capital investment.
512. FRICK, G. E. Plan machinery to fit the farm. *Implement & Tractor* 70(4):38-39, 115; 70(6):43, 54; 70(10):30-31, 74. Feb. 12, Mar. 12, May 7, 1955. 58.8 W41
Savings from using electrical equipment as well.
513. HAMILTON, C. L. Is your electric fence safe? *Grain Prod. News* 6(5):13-14. Feb. 1954. 286.81 G764
514. HAMILTON, C. L. Unified national electric fence code needed. *Agr. Eng.* 35:154, 162. Mar. 1954. 58.8 Ag83
A safety code for adoption.
515. HAUSLER, R. M. Building load with small appliances. *Rural Elec. Mag.* 16(7):28-29, 44. Apr. 1958. 335.8 N21
516. HEMKER, W. D. Farm electrical equipment. *Farm Elec.* 8(2):10-14. Mar./Apr. 1954. 335.8 F224
Biggest potential in processing and handling.
517. HEMKER, W. D. Large electric motors for farm applications. *Farm Power* 13(10):8-9, 22. Oct. 1956. 335.8 F227

518. I H ELECTRIFIES the "South 40." Farm Implement News 75(13):46-47, 88-89. July 10, 1954. 58.8 F22
Portable electric generator.
519. INNES, F. R., and RIDOUT, W. J. Wake up to the market down on the farm. Elec. World 142(24):103-138. Dec. 13, 1954. 335.8 EL2
Vast load building opportunities.
520. INTER-INDUSTRY FARM ELECTRIC UTILIZATION COUNCIL. Second annual power use workshop. Companies, co-ops pool sales efforts. Elec. World 144(26):57. Dec. 26, 1955. 335.8 EL2
521. ISAACS, G. W. How to use electrical controls in farmstead operations. Implement & Tractor 76(22):52-54, 92. Oct. 15, 1961. 58.8 W41
522. ISAACS, G. W. What you should know about electric motors and their farm application. Implement & Tractor 72(14):20-22. July 13, 1957. 58.8 W41
Economical only if well-selected.
523. JAY, R. Farm generators; power insurance with a dividend. Farm Quart 18(4):50-52, 136, 138, 142. Winter 1963/64. 6 F22995
Increasing advantages in having own electric generating plants.
524. JEFFERS, J. The motor for the job. Farm Quart. 16(2):76-78, 80-81, 83. Summer 1961. 6 F22995
Learning the uses of the various types of electric motors.
525. JUNILLA, W. A. Adapting electric motors to the farm environment. World Farming 2(5):18-19, 30. May 1960. 30.08 W89
526. JUNILLA, W. A. The farm environments of electric motors. Implement & Tractor 75(7):24-25, 56. Apr. 2, 1960. 58.8 W41
527. KEARL, C. D. Maintenance costs of equipment, 1954. N. Y. State Coll. Agr. (Cornell Univ.) Farm Econ. 1957(210):5584-5585. July. 280.8 C812
Annual costs averaged one third of the value.
528. KREWATCH, A. V. Emergency stand-by farm generators. Md. Univ. Ext. Fact Sheet 135, 4 p. Feb. 1959. 275.29 M36Fa
529. LOUNSBURY, D. Why dairy farmers are good prospects for equipment. Implement & Tractor 72(15):18-21. July 27, 1957. 58.8 W41
Biggest savings in "chore jobs."
530. LUKENS, A. F. Mobile power packaged for the farm. Gen. Elec. Rev. 60(2):40-43. Mar. 1957. 335.8 G28
Mobile generator mounted to farm tractor or truck.
531. MCVEY, F. E. REA spurs appliance sales. Public Util. Fortn. 61(12):806-810. June 5, 1958. 280.8 P966
532. MAYER, A. G. Agricultural development. Farm Elec. 8(2):3-4. Mar/Apr. 1954. 335.8 F224
Utilities can encourage increased use and development of electrical equipment and bring on further agricultural development.
533. NELSON, P. Rural electric appliance market—a billion dollar whopper? Rural Elec. Mag. 18(1):18-19, 68. Oct. 1959. 335.8 N21
534. NEVALDINE, P. Electric generating plants; what they can do on the farm and which ones fit various farm purposes. Rural New-Yorker 105:244-245. Apr. 2, 1955. 6 R88
535. A NEW SOURCE of farm electrical power. Implement & Tractor 69(15):65. July 17, 1954. 58.8 W41
A mobile electrical generating unit.
536. PUCKETT, H. B. Single-phase electric motors for farm use. U. S. D. A. Farmers' Bull. 2177, 24 p. Sept. 1961. 1 Ag84F
537. SHIRLEY, T. Inventory time again. Rural Kentuckian 9:8-9. Jan. 1956. 335.8 K41
Savings with the use of electrical equipment.
538. SMITH, A. B. Low cost kilowatts increase profits. Utah. Agr. Exp. Sta. Farm Elec. Leaflet 9, 4 p. Fall 1956. 335.9 Ut1
539. SMITH, E. L. Working together—farmers and dealers. (Condensed.) Farm Equip. Retailing 24(6):24-25. Dec. 1957. 58.8 F2292
Equipment use. Electric equipment as well.
540. SMITH, H. P. Farm machinery and equipment. Ed. 4. New York, 1955. 514 p. (McGraw-Hill Publications in Agricultural Engineering) 58 Sm5
Only some are electrically operated.

541. SMITH, H. S. Prove automatic protection justified. *Elec. World* 145(12):115. Mar. 19, 1956. 335.8 EL2

Rural circuits.

542. SMITH, J. S. The challenge of a market that has to be sold. *Edison Elec. Inst. Bull.* 31(9):340-344. Oct. 1963. 335.8 Ed4

The farm market for electricity. Electrification has tripled the crops.

543. SOUTH DAKOTA STATE COLLEGE. AGRICULTURAL EXPERIMENT STATION. ECONOMICS DEPT. Prices and costs for use in farm and ranch planning.

Agr. Econ. Pam. No. 92. Oct., 1957. 71 p. 281.9 So86

Consumption of electricity and electrical equipment used.

544. STANDBY DIESEL protects rural electric. *Rural Elec. Mag.* 12(10):41, 54. July 1954. 335.8 N21

545. TENNESSEE. AGRICULTURAL EXPERIMENT STATION. Seventieth annual report, 1957. Knoxville, 1957. 44 p. 100 T25S

Some projects dealing with electrical equipment.

546. THAYER, C. B. Power equipment means greater efficiency and higher farm profits. III. *REA News* 2(11):5. May 1954. 335.8 IL62

547. TUNIS, R. W. Adventures in selling electrical farm equipment. *Farm Implement News* 76(8):20-21, 50, 52, 54. Apr. 25, 1955. 58.8 F22

Electricity has changed rural living and working standards.

548. TURNER, C. N. Protecting electric motors. *N. Y. Farm Elec. Counc. Prog. Rep.* 1960:40-52. 1961. 335.9 N485

From motor failures through overloading and overheating.

549. U. S. BUR. OF THE CENSUS. INDUSTRY DIV. Farm machines and equipment 1957. U. S. Bur. Census. *Facts Indus. Ser. M35A-07*, 23 p. Sept. 26, 1958. 157.41 M313

Annual publications.

Discusses electrical as well as other types of machines.

550. WHEN does labor-saving equipment pay for itself? *Farm Elec.* 12(5):6. Sept./Oct., 1958. 335.8 F224

Reprinted from Farm Electric Newsletter published by North Central Electric League, Minneapolis, Minn.

551. WILT, H. Does mechanization cost-or pay? *Hoard's Dairyman* 107(13):725. July 10, 1962. 44.8 H65

552. WOOD, J. Good year for farm equipment but no boom! *Southern Farm Equip.* 129(1):12-13, 32. Jan. 1960. 58.8 So8

Wiring and Lighting

553. ALL INDUSTRY hands join in Minnesota to rewire a farm in one day. *Elec. World* 142(19):56-7. Nov. 8, 1954. 335.8 EL2

554. ALLWARDEN, J. C. Versatile tractor-generator builds all-electric farm. *Farm Power* 13(8):8-9, 22. Aug. 1956. 335.8 F227

555. BARTON, H. F. Steps to adequate farm wiring. *Farm Elec.* 9(5):14-15. Sept./Oct. 1955. 335.8 F224
Pays off always.

556. BIDLACK, S. F. Better farm wiring. *Farm Elec.* 10(3):10. May/June 1956. 335.8 F224

557. BLACK, W. R. Cooperation on teacher training. *Farm Elec.* 8(6):15-16. Nov/Dec. 1954. 335.8 F224
So as to eliminate inadequacy of farm wiring.

558. BOWEN, R. Farm wiring display. *Farm Elec.* 11(2):12. Mar./Apr. 1957. 335.8 F224

559. BOWEN, R. "Full farm power" comes with expanded wiring facilities. *Farm Power* 14(8):10-11. Aug. 1957. 335.8 F227

560. BRED AHL, A. C. Wiring manual for home and farm. New York, McGraw-Hill, 1957. 221 p. 335 B74

Intended for architects, engineers, electrical contractors and for trade school courses.

561. CHESNESS, J. L., BENZ, R. C., and KOCH, K. A. Bringing your wiring up to date. *La. Univ. Agr. Ext. Publ.* 1342, 18 p. May 1963. 275.29 L93Ep

562. COOK, W. N. Breaking the wiring barrier. *Rural Elec. Mag.* 18(11):19, 62. Aug. 1960. 335.8 N21

563. DAVIS, H. R. Adequate farm wiring systems. N. Y. State Coll. Agr. Ext. Cornell Ext. Bull. 849, rev., 72 p. July 1956. 275.29 N48E
564. FARM power wiring; rewiring of farms answer for full rated voltage. Farm Elec. 10(1):4-5. Jan./Feb. 1956. 335.8 F224
Ten to fifteen year old wiring not adequate for new heavy equipment.
565. FARM wiring upped. Elec. World 144(14):152, 161. Oct. 3, 1955. 335.8 EL2
566. FOSSUM, D. Wiring requires a maintenance program, too! Hoard's Dairyman 101:1022-1023. Oct. 25, 1956. 44.8 H65
567. GEDDINGS, M. T. Rural program adds 9,000 lights in 1960. Elec. World 155(8):56. Feb. 20, 1961. 335.8 EL2
568. GEORGE, E. O. Lighting; the golden opportunity. Edison Elec. Inst. Bull. 29(2):333-335, 353. Oct. 1961. 335.8 ED4
569. GRUBE, H. C. A practical approach to farm wiring. Rural Elec. Mag. 15(11):20-21, 56. Aug. 1957. 335.8 N21
To stimulate sale and use of electric equipment.
Also in Amer. Soc. Agr. Eng. Trans. ASAE 1(1): 53, 55. 1958. 290.9 Am32T
570. HALTERMAN, A. E. Tailored wiring-a cooperative principle. Rural Elec. Mag. 14(7):24, 61. Apr. 1956. 335.8 N21
571. HARVEY, R. G. Modern farms need modern wiring. Farm Elec. 11(1):4-5. Jan./Feb. 1957. 335.8 F224
572. HARVEY, R. G. Wiring requirements for modern farm demands. Implement & Tractor 72(22):14-15, 47. Nov. 2, 1957. 58.8 W41
Also in Farm Elec. 12(1):14-15. Jan./Feb. 1958. 335.8 F224
573. HODGES, C. E. Electricity in your home. Ark. Agr. Coll. Ext. Leaflet. 221, 6 p.-folder. June 1956. 275.29 Ar4Le
Adequate wiring.
574. JEFFERS, J. Farm wiring. Farm Quart. 16(1): 66-67, 142-143, 145-146. Feb./Apr. 1961. 6 F22995
- Importance of adequate wiring.
575. JOHNSON, B. D. Good wiring is planned wiring. Farm Elec. 12(6):6-7, 10. Nov./Dec. 1958. 335.8 F224
576. JONES, E. W., and JOHNSTON, J. L. Adequate wiring for home and wiring. Milwaukee, Wis., Bruce Publ. Co., 1963. 237 p. 335 J71
577. KLEIS, R. W., and ANDREW, F. W. Is your wiring safe? Hoard's Dairyman 100:945, 959. Oct. 25, 1955. 44.8 H65
578. LACK OF adequate wiring called weak link in electrical chain. Farm Power 1(2):19. Feb. 1956. 335.8 F227
579. MABREY, O. E. A lighting program to help build load. Farm Power 14(9):6-7, 15. Sept. 1957. 335.8 F227
580. MCBRIDE, V. New developments in farm wiring materials. (Abstr) Ass. Southern Agr. Workers. Proc. 52:34. 1955. 4 C82
581. MCCURDY, J. A. How to wire your farm. Hoard's Dairyman 99:169, 192-193. Feb. 25, 1954. 44.8 H65
582. MCCURDY, J. A. Is your electric bill too high? You may have too few circuits which cause overheated wires resulting in electricity which is paid for but never used. Hoard's Dairyman 99:118, 134. Feb. 10, 1954. 44.8 H65
583. MORRIS, A. Georgia teachers stress better farm wiring. Farm Elec. 10(2):1-2. Mar./Apr. 1956. 335.8 F224
Only 5 percent of Georgia farms had adequate, safe wiring.
584. MORRIS, C. K., BROWN, D. P., and WIAANT, D. E. Lighting your home. Mich. State Univ. Ext. Misc. Ser. Circ. E-8, 16 p. Sept. 1958. 275.29 M58Mis
Also in Wash. State Coll. Ext. Bull. 533, 16 p. May, 1959. 275.29 W27P
585. NEXT, a super push for farm wiring? National Farm Wiring Conference, Chicago, Ill., May 3-4, 1956. Elec. World 145(23):24. June 4, 1956. 335.8 EL2

586. OLVER, E. F. The farm wiring menace. Agr. Educ. Mag. 27:159, 166. Jan. 1955. 275.8 Ag8

587. REWIRING solved our power problems. Rural Lines 8(7):14-16. Dec. 1961. A335.8 R88

588. RICHTER, H. P. Practical electrical wiring; residential, farm, and industrial. Based on the 1956 National electrical code. Ed. 5. N. Y., McGraw-Hill, 1957? 602 p. 335 R41Pe

Textbook-wiring for buildings using less than 600 volts.

589. ROWELL, G. The American farmer's dilemma. Int. Ass. Elec. Insp. News Bull. 28(3):27-30. May 1958. 335.9 In8

On farm electrification. Adequate wiring and other safety measures.

590. RUPP, R. G. Danger, your wiring is inadequate. Farmer [St. Paul] Gen. Ed. 72(18):1, 24-25. Sept. 18, 1954. 6 F2211

591. SWANSON, H. B. Wire-rama; a demonstration on good farm rewiring. Agr. Leaders' Digest 36(2): 12, 30-31. Feb. 1955. 275.28 Am3

592. WIANT, D. E. Electric controls and farmstead wiring. World Farming 2(8):10-12. Aug. 1960. 30.08 W89

Should be and can be safe, adequate and economically practical.

593. WIRING IS a roadblock to promoting sales of electrical equipment. Farm Power 13(5):14. May 1956. 335.8 F227

Heating and Air Conditioning

594. AIKEN, C. R. Statewide electric heating standards. Rural Elec. Mag. 17(2):24, 58. Nov. 1958. 335.8 N21

595. ALTMAN, L. B., and CHARITY, L. F. Demand studies on electric house heating, air conditioners, and crop driers. (Abstr) Agr. Eng. 40(7):416. July 1959. 58.8 Ag83

Load factors of rural electric distribution systems.

596. ALTMAN, L. B., and CHARITY, L. F. Report on Iowa electric house-heating study, 1958. U. S. Agr. Res. Serv. ARS 42-28, 12 p. May 1959. A58.9 R31

597. BEATY, H. H. Home heating with electricity. Ill. Univ. Agr. Ext. Circ. 834, 16 p., map. June 1961. 275.29 IL62C

598. BEERY, V. R. House heating seems a desirable load for farm lines. Elec. World 140:86-87. Nov. 2, 1953. 335.8 EL2

Use of electricity is lowest in winter for farm work.

599. BRYANT, D. E. Electric heating gains popularity in rural Iowa. Rural Elec. Mag. 16(4):13, 32. Jan. 1958. 335.8 N21

600. ELECTRIC heat booms in San Luis Valley. Farm Power 16(1):5-6, 10. Jan. 1959. 335.8 F227

601. ELECTRIC heat has bright future in "all-electric dream home." Farm Power 13(5):17. May 1956. 335.8 F227

602. ELECTRIC heat, the waking giant. Farm Power 16(3):12-14, 17. Mar. 1959. 335.8 F227

Especially aided by medallion home program.

603. ELLIS, S. W. Rural customers buy electric heat. Elec. S. 41(11):27, 101-102. Nov. 1961. 335.8 EL234

604. FORSYTH, S. L. A new look at electric home heating. Rural Elec. Mag. 14(4):28-29, 66. Jan. 1956. 335.8 N21

605. GEORGIANS adopt medallion plan. Farm Power 15(8):9. Sept. 1958. 335.8 F227

Criteria for ideal all-electric homes.

606. HILDEBRAND, T. F. Electric heat for modern farm homes. Farm Elec. 13(1):6-7. Jan./Feb. 1959. 335.8 F224

607. LUSE, R. P. Solar and septic heat pickup basis for experimental house. Farm Power 1(2):14. Feb. 1956. 335.8 F227

608. MCVEY, F. E. Go compact! Rural Elec. Mag. 18(11):18, 60. Aug. 1960. 335.8 N21

Electric heating.

609. MCVEY, F. A new concept of electric resistance heating. Rural Lines 6(3):8-9. Aug. 1959. A335.8 R88

Making electric heating cheaper and more satisfying.

610. NELSON, G. S. Home heating with electricity in Arkansas. Ark. Agr. Exp. Sta. Bull. 625, 18 p. Apr. 1960. 100 Ar42
Increase in use and in satisfaction.
611. RICH, S. M. Electric heating: capitalize on full capacity. Rural Elec. Mag. 18(11):16-17. Aug. 1960. 335.8 N21
For efficient utilization of generation and distribution facilities.
612. RUDOLPH, F. R. Operation salvage. Rural Elec. Mag. 17(2):16-17. Nov. 1958. 335.8 N21
House heating by electricity.
613. STOVER, H. E. Electric heating of the home. Kans. State Univ. Agr. Ext. Eng. Balanced Farming. Rural Elec. 24, 6 p. Sept. 1961. 275.29 K13En
614. TOMORROW's home. Rural Elec. Mag. 20(4): 35-37. Jan. 1962. 335.8 N21
All electric home - based on speech by J.E. Young.
615. WHISENANT, W. C. Electric heating is economical for greenhouses. Elec. World 159(8):145-146. Feb. 25, 1963. 335.8 EL2
616. WITZ, R. L., GUEST, R. W., and FRENCH, E. W. Home heating with electricity. N. Dak. Agr. Exp. Sta. Bull. 420, 20 p. Sept. 1958. 100 N813
617. YOUNG MacDonald has a farm. Farm Power 16(9):10-11, 15. Sept. 1959. 335.8 F227
Advantages of electric heat.
- Automation and Mechanization
618. ALBRECHT, C. F. Centennial of farm mechanization. Agr. Eng. 35:878-880. Dec. 1954. 58.8 Ag83
619. ANDREW, F. W., and KLEIS, R. W. Automation of farm chores: feeding cattle and poultry. Implement & Tractor 70(18):26-27, 56. Aug. 27, 1955. 58.8 W41
620. ANDREW, F. W. New ideas in mechanization. Ill. Agr. Exp. Sta. AE-3661:43-48. 1961. 275.29 IL62P
621. ANDREWS, W. H. 1960 changes in population and agriculture in Ohio and their implications. Ohio. Agr. Exp. Sta. Res. Circ. 104, 82 p., maps. May 1961. 100 Oh3R
Statistics include farm tenure and mechanization.
622. ARCHITECTS of the farm revolution. Rural Lines 8(8):13-22. Jan. 1962. A335.8 R88
623. AUTOMATION wave may soon take in farmers. Farm Power 15(5):9. June 1958. 335.8 F227
624. BATDORF, R. O. Evaluating automation. Northwest. Wood Prod. Clin. Proc. 11:33-38. 1956. 99.9 Sp6
625. BENSON, E. T. Address before Fourth Regional Conference on Rural Development, Athens, Georgia, Sept. 25, 1957. Washington, U. S. D. A. Off. Sec., 1957. 15 p. 1.91 A2B44
Farmers continue pushing mechanization.
626. BERTRAND, A. L., and others. Factors associated with agricultural mechanization in the Southwest region. Ark. Univ. Agr. Exp. Sta. Bull. 567, 33 p. Feb. 1956. 100 Ar42
J. L. Charlton, H. A. Pedersen, R. L. Skrabanek, and J. D. Tarver, joint authors.
Agricultural Experiment Stations of the Southwestern Region and the U. S. Department of Agriculture, cooperating. Changing labor requirements and other social effects - electricity only one form of mechanization.
627. BIVEN, W. C. Automation: its impact on our manpower needs. Prof. Agr. Workers Conf. Proc., 19th Conf.:45-51. 1961. 281.9 P942
628. CARLETON, W. M., and ASHBY, W. Progress in mechanizing U. S. farms and farmsteads. Int. Congr. Agr. Eng. Trans. 5(2):719-731. 1958, pub. 1960. 290.9 C765C
629. CAVERT, W. L. The technological revolution in agriculture, 1910-1955. Agr. Hist. 30:18-27. Ref. Jan. 1956. 30.98 Ag8
More products with less labor in fewer but larger farms.
630. CLAYTON, J. T. Economic pressures are encouraging automation of the Front Ten. Farm & Power Equip. 27(4):24-26, 40. Apr. 1959. 58.8 F2292
631. DEAN, G. W. Will machines control farm size? Better Farming Methods 32(11):14-15, 37. Nov. 1960. 58.8 B46
Management and uncertainties limit size increase.

632. DEFOREST S. S. The challenge in farm materials handling. *Agr. Eng.* 37:540-542. Aug. 1956. 58.8 Ag83
Labor-saving systems, not mere gadgets.
633. FREEMAN, O. L. Statement before the Senate Subcommittee on Agricultural Appropriations, March 21, 1963. Washington, U. S. D. A., Off. Sec., 1963. 31 p. A31.3 F87
Rural Areas Development Program and other policies. Technical advances in agriculture.
634. GUIDE to feedlot mechanization. *World Farming.* 3(4):22-24, 31; 3(5):6-10, 18, 20; 3(6):12-15; 3(7):6-9; 3(8):12-14; 3(9):4-8; 3(10):6-8; 3(11):8-14; 3(12):12-14. Apr./Dec. 1961. 30.08 W89
Careful selection of equipment can care for several times as many animals.
635. GUNLOGSON, G. B. How efficient will be the farm machine of the future? *Agr. Eng.* 39(10):629, 652, 670. Oct. 1958. 58.8 Ag83
Automation will increase.
636. GUTSCH, N. V. Automation, air conditioning, drying equipment and more uses of power will grow in the farms's electric future. *Chemurg. Digest* 15(8, i. e. 9):8-11. Sept. 1956. 381 N213Na
637. HALL, C. W. Mechanization and automation. U. S. D. A. Yearbook Agr. 1960:416-427. 1 Ag84Y
638. HANSEN, H. J. Farmer acceptance of automatic feed and materials handling around the farmstead. (Abstr) *Ass. Southern Agr. Workers. Proc.* 56:44. 1959. 4 C82
Scarcity of and high cost of labor has speeded mechanization.
639. HEADY, E. O. Extent and conditions of agricultural mechanization in the United States. In Meij, J. L., ed. *Mechanization in agriculture*, p. 63-97. Chicago, Quadrangle Books, 1960. 58 M472
640. HICKMAN, E. Is your farm "mechanized" yet? *N. H. Breeder & Broiler Grower* 17:16-18. Jan./Mar. 1954. 47.8 N45
641. HOUGAN, M. C. How much mechanization can you afford? *Poultry Tribune* 70(1):15, 36-37. Jan. 1964. 47.8 P8642
642. HUNT, D. Farm power and machinery management; laboratory manual & workbook. Ed. 2. Ames, Iowa State Coll. Press, 1956. 149 p. 58 H91
643. IMPLEMENT & TRACTOR. Farmstead mechanization number. *Implement & Tractor* 77(21), 70 p. Oct. 1, 1962. 58.8 W41
Contents include: 1. A guide to livestock engineering research by G. H. Seferovich; 2. A new concept in automatic feeding system controls by F. Buckingham; 3. A classified directory of farmstead equipment manufacturers.
644. JEWETT, L. J. Economic evaluation of automation for egg production. *Maine Farm Res.* 12(1):26-29. Apr. 1964. 100 M28Ma
Costs and returns.
645. JOHNSON, S. E. New developments in agriculture. *Nat. Agr. Credit Conf. Proc.* 1956:59-68. 1957. 284.29 N21
646. KLEIS, R. W., and ANDREW, F. W. Automation of farm chores: feed grinding and handling. *Implement & Tractor* 70(17):36-37, 94. Aug. 13, 1955. 58.8 W41
647. KUMMER, F. A. A candid look at your future. *Farm & Power Equip.* 27(2):30-31, 41. Feb. 1959. 58.8 F2292
Mechanization.
648. LARSON, L. W. The farmstead; next frontier for mechanization. *Implement & Tractor* 73(1):62-64. Jan. 11, 1958. 58.8 W41
649. MCCALLUM, J. The parts of an automated system. *Farm Quart.* 14(4):72-76. Winter, 1960. 6 F22995
Analysis of the twelve types of automation.
650. MACCALLUM, J. Planning your farm of the future. *Farm Quart.* 16(1):88-90, 92, 94-95. Feb./Apr. 1961. 6 F22995
Layouts. Aided by farmstead engineers.
651. MCFATE, K. L. How to meet the automation challenge. *Farm Power* 14(6):6-7. June 1957. 335.8 F227
652. MCFATE, K. L. Your State Farm Electric Council. *Implement & Tractor* 74(24):18-19, 54. Nov. 28, 1959. 58.8 W41
Speeds up electrification on with more automation.

653. MCKIBBEN, E. G., and CARLETON, W. M. Engineering in agriculture. U. S. D. A. Yearbook Agr. 1964:96-101. 1 Ag84Y
Mechanization in the United States and in developing areas. Electrification of the farm increased phenomenally since 1934.
654. MCLAUGHLIN, T. Automation and costs. Nat. Dairy Eng. Conf. Proc. 9:10-13. 1961. 44.9 D1482
655. MALONE, J. R. Farm automation. Nation's Agr. 37(5):12-13. May 1962. 280.82 B89
656. NELSON, L. Can family farms keep pace with needs for mechanization? Wis. REA News 14(10):4-5, 15. Apr. 1954. 335.8 W75
They need to, to survive and grow.
657. NICHOLSON, R. L. Pacing the nation in mechanization. West. Farm Equip. 52(12):23, 68. Nov. 1955. 58.8 Im73
658. O'BRIEN, M. Demonstrations for farm mechanics. Danville, Ill., Interstate, 1957. 242 p. 58 Ob6
College or trade school textbook with chapters on electrical equipment.
659. OSBORNE, L. M. Animal agriculture and the farmstead mechanization business. Nat. Anim. Agr. Proc. 11:60-66. Apr. 3-4, 1961. 49.9 N219
660. PINCHES, H. E. Revolution in agriculture. U. S. D. A. Yearbook Agr. 1960:1-10. 1 Ag84Y.
Mechanization.
661. POYNOR, R. R. Changing requirements in mechanization for agriculture. (Abstr) Ass. Southern Agr. Workers. Proc. 56:54-55. 1959. 4 C82
Equally fast pace as in past, with emphasis on complete farming systems.
662. PROMERSBERGER, W. J., and BISHOP, F. E. Modern farm power. Englewood Cliffs, N. J., 1962. 280 p. Ref. (Prentice-Hall Vocational Agriculture Series) 291 P94
663. PUCKETT, H. B. Energy control in farm production. Agr. Eng. 44(6):320-322. June 1963. 58.8 Ag83
Automatic controls.
664. ROBERTS, R. W., and others. Modern farming. Ed. 2. Chicago, Lippincott, 1956. 600 p. Ref.
- 31.3 R543
C. L. Angerer, J. L. Moses, and R. W. Gregory, joint authors.
A college text-book-Electricity on the farm. p. 584-591.
665. ROEDER, D. An engineer looks at farm equipment 20 years from now. (Excerpts.) Implement & Tractor 71(7):70-71. Apr. 7, 1956. 58.8 W41
Increased application of electricity for greater automation.
666. SCARLETT, W. J. Possibilities of new devices for automation. Nat. Dairy Eng. Conf. Proc. 4:72-76. 1956. 44.9 D1482
Especially in measuring and controlling processing variables.
667. SCHAENZER, J. P. Beating the clock with electromechanization. Rural Lines 5(5):3-8. Oct. 1958. A335.8 R88
668. SCHAENZER, J. P. Electromotion: key to production on the farm of the future. Rural Lines 9(1):8-9. June 1962. A335.8 R88
Chiefly dairy industry.
669. SCHROEDER, P., BERG, R. W., and MOYER, D. D. What about automation for the future? Turkey World 38(8):14-15, 26-28, 32, 34. Aug. 1963. 47.38 T84
For growing as well as breeding operations.
670. SCOTT, N. J. Nursery mechanization for greater profits. Amer. Nurseryman 108(6):56, 58-61. Sept. 15, 1958. 80 Am371
Only when mechanization is adequate in extent.
671. SEFEROVICH, G. H. Push button choring. Implement & Tractor 70(26):46-47. Dec. 17, 1955. 58.8 W41
Automation not needed everywhere.
672. SHARON, J. E. Your farmstead bottleneck; "total engineering" can help you break mechanization jams. Doane's 2(3):5-8. Mar. 1962. 281.8 D652
673. SKROMME, A. B. Accelerated testing of farm machinery. Agr. Eng. 41(3):154-157. Mar. 1960. 58.8 Ag83

674. SMITH, A. B. Electrical mechanization of the farm. Utah. Agr. Exp. Sta. Farm Elec. Leaflet. 10, 4 p. Summer 1957. 335.9 Utl
Especially for moving farm products.
675. STEWART, P. Mechanization in the future. Tex. Agr. Workers Ass. Proc. 31:114-125. 1958. 4 T314
To be competitive, laborers would need to hire out at 5 cents a day. Within 20 yrs 55.7 man-hours will need only 1.4 man-hours with mechanization.
676. TAYLOR, L. V. Systems approach to automation, used by poultry industry, may help meat packers. Nat. Provisioner 149(14):145. Oct. 5, 1963. 286.85 N21
677. WECKEL, K. G. Developments in the past two decades in sanitation technology in agriculture. J. Milk & Food Technol. 20(9):272-275. Sept. 1957. 44.8 J824
Some mention of electrical machinery.
678. WENDELL, P. F. Farm materials handling: the engineering principles and product applications. Implement & Tractor 71(18):26-29, 36, 38, 40. Sept. 7, 1957. 58.8 W41
Organization of materials flow with loading equipment in an assembly line manner.
679. WIANT, D. E. Electronics for the farm. County Agent & Vo-Ag Teacher 11(8):47. Aug. 1955. 275.28 N213
680. WIEGMANN, F. H. The family farm can use the dealer's help. Southern Farm Equip. 128(9):24-26. Sept. 1959. 58.8 So8
For complete farm mechanization.
- Research
681. ADVANCES in electric engineering. Rural Lines 8(12):16-17. May 1962. A335.8 R88
682. AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. Agricultural Engineers Yearbook. Ed. 7. St. Joseph, Mich., 1960. 400 p. 58.9 Am3A
Includes officers, members, constitution, by-laws and rules, ASAE-approved standards, recommendations, codes, and data, directory of suppliers to agricultural engineers, and agricultural engineering subject-matter classification. Especially good for classification of agricultural engineering subject matter.
683. BALL, C. E. Imagineering-the next 50 years. Agr. Eng. 38(10):736-739. Oct. 1957. 58.8 Ag83
Advances in electricity as well.
With minor revisions-also in Farm Elec. 12(3):2-4, 9. May/June, 1958. 335.8 F224
684. DUCKHAM, A. N. Agriculture in the early atomic age. Agr. Rev. 3(5):37-42. Oct. 1957. 30.08 Ag8
Farming methods 1930-1990. Greater uses of electricity-applicable to USA as well as Britain.
685. FARRALL, W. W., and ALBRECHT, C. F. Agricultural engineering; a dictionary and handbook. Danville, Ill., Interstate Printers & Publ., 1965. 434 p. 290 F24
686. GILES, G. W. Goals for agricultural engineering research. Agr. Eng. 42(4):179, 193-195. Apr. 1961. 58.8 Ag83
687. HALL, N. S. The impact of the nuclear age on agriculture. Prof. Agr. Workers Conf. Proc., 19th Conf.:71-75. 1961. 281.9 P942
688. HIENTON, T. E. Applying electricity through research. Rural Elec. Mag. 12(18):30-31, 58, 60. May 1954. 335.8 N21
689. HIENTON, T. E., WIANT, D. E., and BROWN, O. A. Electricity in agricultural engineering. New York, Wiley, 1958. 393 p. (The Ferguson Foundation Agricultural Engineering Series). 335 H532
Textbook on rural electrification.
690. HIENTON, T. E. Finding new ways to help the farmer. Elec. World 142(24):135-6. Dec. 13, 1954. 335.8 EL2
691. HILLIER, J. Farming in the electronic age. Co-op Grain Quart. 17(3):60-62. Aug. 1959. 280.28 C7898
Remote control closed circuit TV solar and atomic energy.
692. HUMPHREY, H. Why America needs a farm electrification laboratory. Rural Elec. Mag. 19(7):16, 39. Apr. 1961. 335.8 N21
Farm labor is still 74 percent handwork-need for even greater electrification.
693. MCCOLLY, H. F., and MARTIN, J. W. Introduction to Agricultural Engineering. New York,

McGraw-Hill, 1955. 553 p. 291 M13

Part V on Rural Electrification and other topics on mechanized agriculture.

694. MCCONNELL, L. W. Electric "bubble barns" may provide future farm housing needs. *Farm Elec.* 12(2):4-5. Mar./Apr. 1958. 335.8 F224

695. MCCONNELL, L. W. Vegetable growers research farm. *Farm Elec.* 10(2):10, 16. Mar./Apr. 1956. 335.8 F224

Large role for electrification as well.

696. MCVEY, F. E. Electric service unlimited to farms of tomorrow. Washington, U. S. Rural Elec. Admin., 1956. 16 p. A335.9 M25

Remarks delivered at the A. I. E. E. Conference at Memphis, Tennessee, October 29, 30 & 31, 1956.

Condensation in Farm Power 14(1):8-9. Jan. 1957. 335.8 F227

697. MOORE, H. R. Farms of the future. *Rural Real-
tor* 10(10):1-3, 5. Oct. 1958. 282.8 R88

Management aspects. Substantial savings in man-
power requirements of electrified farms.

698. NEFF, G. C. Looking ahead in farm electrifica-
tion. *Edison Elec. Inst. Bull.* 28(8):288-292, 300.
Sept. 1960. 335.8 Ed4

The future of electricity in agriculture.

699. NUTT, G. B. The development of agricultural
engineering. In West Virginia. University. College of
Agriculture. The development of the land-grant
colleges and universities and their influence on the
economic and social life of the people, p. 83-94.
1963. 275.1 W52

Electrification, one of the basic courses.

700. PANEL discussion: cotton mechanization research
needs. *Cotton Gin & Oil Mill Press* 57(18):56-60.
Sept. 8, 1956. 304.8 C822

Leader: R. R. Poynor.

701. RICHEY, C. B., JACOBSON, P., and HALL,
C. W., eds. *Agricultural engineers' handbook*. New
York, McGraw-Hill, 1961. 880 p., maps. Ref.
290 R393

702. SAMMIS, W. H. Progress in farm electrification
through research. *Edison Elec. Inst. Bull.* 21(12):443-
447. Dec. 1953. 335.8 Ed4

703. SHAW, B. T. The next 50 years in agricultural
progress. *J. Agr. & Food Chem.* 2:724-728. July 7,
1954. 381 J8223

High speed operations, reduced "chore" time-some
of future goals.

704. SLEBISKA, E. R. Farm electrification research.
Amer. Coop. 1961:553-556. 280.29 Am3A

705. STONE, A. A. Opportunities in agricultural
engineering. *New York Vocational Guidance Manuals*,
1962. 128 p. 275.1 St72

Chapter on rural electrification.

706. TEXAS FARM ELECTRIFICATION COMMITTEE.
Summary of progress report presented at the annual
meeting, College Station, Texas, May 11, 1961.
College Station, Dept. Agr. Engin., A & M College
System of Texas, 1961. 44 p., map. 335.9 T312

Annual report with research on equipment &
education.

707. U. S. RURAL ELECTRIFICATION ADMIN. A
challenging career in engineering for you. U. S. D.
A. Misc. Publ. 736, 10 p. 1956. 1 Ag84M

Recruiting electrical engineers for REA.

708. U. S. RURAL ELECTRIFICATION ADMIN.
Electrical engineers: make your professional training
count with the Rural Electrification Administration.
U. S. D. A. Misc. Publ. 736, 12 p. Feb. 1960.
1 Ag84M

709. U. S. RURAL ELECTRIFICATION ADMIN. Pro-
gram for technical conference for REA field engineers
(electric). Jan. 17-21, 1955. Morrison Hotel, Chicago,
Ill., 15 pamphlets bound together. A335.9 T22

A program developed for electric engineer training.

Education

710. AIEE conference on farm electrification-meeting
report. *Elec. World* 143(15):32. Apr. 11, 1955.
335.8 EL2

An annual illustrating greater use of electricity,
larger motors and teaching safety precautions.

711. BECKER, A. E. The job training and safety phase
of taking the rural electric story to the people. *Amer.
Coop.* 1959:531-534. 280.29 Am3A

712. BROWN, R. H. Classroom instruction in farm
electrification for vocational agriculture teachers.

- (Abstr.) Ass. Southern Agr. Workers. Proc. 51:23-24. 1954. 4 C82
Two day training course.
713. BROWN, R. H. Farm electrification. New York, McGraw-Hill, 1956. 367 p. (McGraw-Hill Publications in Agricultural Engineering) 336 B816
714. CALIFORNIA coop serves boys learning to be men. Rural Lines 7(1):12-14. June 1960. A335.8 R88
715. FILM sells power faster, cheaper. Elec. Light & Power 34(10):49, 57. May 1, 1956. 335.8 EL243
For farm improvement.
716. FIRST NEW York inter-industry conference spurs training school, power use calendar. Farm Power 13 (3):9. Mar. 1956. 335.8 F227
717. GRAY, A. H. My company's work with inservice training for vocational agriculture teachers in farm electrification. (Abstr) Ass. Southern Agr. Workers. Proc. 51:25-26. 1954. 4 C82
718. GROSS, W. E. Sell youth on electrical farming. Elec. World 144(25):32. Dec. 19, 1955. 335.8 EL2
Helps make farming more attractive.
719. GROSS, W. E. Training the farmers of tomorrow. Farm Elec. 10(5):1-2. Sept./Oct. 1956. 335.8 F224
For greater farm production and profit with electricity.
720. HAMILTON, J. R. Teach electric farming. County Agent Vo-Ag Teacher 16(4):64-66. Apr. 1960. 275.28 N213
721. HAMILTON, J. R. Using electricity on the farm. Englewood Cliffs, N. J., Prentice-Hall, 1959. 397 p. (Prentice-Hall Vocational Agriculture Series). 335 H185
Simplified reference and how to do it guide for Ag students, farm people and others.
722. HOOPER, C. S. How we work with youth through scholarship programs. Amer. Coop. 1958:609-611. 280.29 Am3A
For stronger electric cooperatives tomorrow.
723. KITTS, H. W., and NABBEN, M. Farm electricity. Albany, N. Y. Delmar, 1960. 201 p. 335 K65
724. LIONBERGER, H. F. Television viewing in rural Boone County; with special reference to agricultural shows. Mo. Agr. Exp. Sta. Bull. 702, 15 p. Apr. 1958. 100 M693
University extension as well as farm and home shows.
725. LOCKWOOD, P. Telling the rural electric story to tomorrow's citizens. Rural Elec. Mag. 19(7):24-25. Apr. 1961. 335.8 N21
726. LOVELESS, W. G. Some educational problems of cooperatives on which extension, particularly county workers, can assist: rural electric cooperatives. Amer. Coop. 26:532-537. 1954. 280.29 Am3A
In many instances only 10 percent of rural electric load is used in operation.
727. OLVER, E. F. Evaluation of farm educational programs of electric power suppliers in the United States. Diss. Abstr. 18(3):725-726. Mar. 1958. 241.8 M58
Thesis(Ph. D.)-Iowa State College. 139 p.
Large suppliers have better and more effective programs for farms.
728. PETERSON, B. Farm tours for education in power use. Rural Elec. Mag. 12(7):31. Apr. 1954. 335.8 N21
729. SCHAENZER, J. P. Rural electrification. Ed. 5, rev. Milwaukee, Bruce, 1955. 378 p. 335 Schl
Textbook for high school (vo-ag) and some colleges.
730. SHIH, S. H. K. A basis for course content in rural electrification for the preparation of vocational agricultural teachers in Michigan. Diss. Abstr. 23(5):1617-1618. Nov. 1962. 241.8 M58
Thesis (Ph. D.)-Michigan State University. 222 p.
731. SOUTH DAKOTA RURAL ELECTRIC ASSOCIATION. Electricity in the farm and in the home.- a textbook. 1956. 172 p. 335 So85
Published in 1961 under title: Electricity for farming and homemaking; a textbook for vocational agriculture and home economics classes. 259 p. Not in Nat. Agr. Libr.
732. STUDENTS today, coop leaders tomorrow. Rural Lines 9(12):3-6. May 1963. A335.8 R88
733. SWINK, E. T. Opportunities with youth from our point of view. Amer. Coop. 1958:612-615. 280.29 Am3A
Rural electric cooperatives. Need for electric professionals.

734. TINDALL, C. Am I careless with electricity? Mo. Rural 96(5):6, 12-13. Mar. 12, 1955. 6 R8891
Safety on the farm.

735. WANSLEY, L. T. Shop clinics held in connection with classroom instruction for vocational agriculture teachers in farm electrification. (Abstr.) Ass. Southern Agr. Workers. Proc. 51:24-25. 1954. 4 C82

736. WILSON, E. B. Electricity for the 4-H scientist: safety, uses, economy. Idaho. Agr. Coll. Ext. Bull. 396, 61 p. June 1962. 100 Id14

737. WORLAN, C. E. They want help in teaching farm electrification. Farm Elec. 9(2):5-6. Mar./Apr. 1955. 335.8 F224
Vo-ag teachers.

Rates and Consumption

738. ARNETT, W. W. What rates for the coops? Elec. World 153(10):75-78. Mar. 7, 1960. 335.8 EL2

739. AUSLOSS, K. M. Models sell utility story. Elec. Light & Power 34(5):104. Mar. 15, 1956. 335.8 EL243

Electrified farm model to sell more power and decrease power costs.

740. AVERAGE montly KWH consumption per farm consumer by calendar years 1948-1955. Statistical Services Section. Admin. & Loan Accounting Div. REA. April 5, 1956. Farm Power 13(12):10. Dec. 1956. 335.8 F227

741. BLALOCK, H. W. Lower rates bring greater returns. Rural Elec. Mag. 16(5):56, 58, 72. Feb. 1958. 335.8 N21

742. BRYNGELSON, L. Coop adopts fair share rate plan. Elec. World 144(12):121-122. Sept. 19, 1955. 335.8 EL2

743. CLEAVELAND, V. M. One cent power for the "promised land." Rural Elec. Mag. 17(11):24, 58. Aug. 1959. 335.8 N21

744. CO-OP TEAMS with power company. Wallace's Farmer 79(2):40-41. Jan. 16, 1954. 6 W15
Eastern Iowa farmers get electricity at low cost.

745. COST OF energy purchased by REA borrowers

from private power companies and publicly owned suppliers, by States, fiscal year, 1959. Rural Elec. Minuteman 105:3. Aug. 26, 1960. 335.8 R8895

Compiled from R. E. A., 21st annual report of energy purchased by REA borrowers, fiscal year ending June 30, 1959.

746. CRISP, W. T. Payment in proportion to use. Carolina Farmer 9:10-11, 18. Jan. 1954. 6 C223

Electricity cooperatives. How electric bills are determined.

747. DRESSEN, P. A. Power use program-with rapid results. Rural Elec. Mag. 15(10):22, 51. July 1957. 335.8 N21

Increased power sales.

748. EDISON ELECTRIC INSTITUTE. Electric utility industry in the United States; statistical bulletin for the year. Edison Elec. Inst. Statist. Bull. 21, 64 p. May 1954. 335.9 Ed4

Includes farm data. An annual, published every May.

749. ELLIS, C. T. Congress is urged to investigate big power company overcharges. Rural Elec. Minuteman 207:1-3. Feb. 22, 1963. 335.8 R8895

750. ELLIS, C. T. Why are commercial power company rates to us going up? Rural Elec. Mag. 12(17):3-4. Apr. 1954. 335.8 N21

751. FARRIS, M. T. Theoretical price implications of the preference clause in public water policy. West. Farm Econ. Ass. Proc. 31:121-126. 1958. 280.9 W527P

Hydroelectric power.

752. "GOLDEN AGE" seen by increased rural demand for electric energy. Farm Power 13(12):8. Dec. 1956. 335.8 F227

753. HERRIOTT, V. H. A South Dakota rate study. Rural Elec. Mag. 15(1):17-18, 62. 15(2):32-33. Nov./Dec. 1956. 335.8 N21

Long range planning needed for future growth in South Dakota and elsewhere.

754. LOW COST of farming better electrically. Edison Elec. Inst. Bull. 32(8):265-267. Sept. 1964. 335.8 Ed4

755. MCCracken, E. C., and Beveridge, E. Cost of electricity and liquefied petroleum gas for cooking, refrigerating, and water heating. U. S. D. A. Agr. Inform. Bull. 141, 14 p. Aug. 1955. 1 Ag84Ab
Formulas for comparison and other factors to be considered in decision-making.
756. NELSEN, A. Three years with REA. Elec. Light & Power 34(13):176, 223. June 15, 1956. 335.8 EL243
High rates caused by isolated high peak "chore times" solvable with future nuclear power.
757. NELSEN, A. What a power use program means to all of us here. In U. S. Rural Electrification Admin. A summary of REA Power Use Conference, p. 7-9. Washington, 1954. A335.9 R882
Also published separately. 2 p. 1.933 N33
758. NEW YORK FARM ELECTRIFICATION COUNCIL. 1954 progress report. n. p., 1954. various paging. 335.9 N485
Issued annually. KWH and cost trends on New York farms.
759. OLDS, L. Setting rates for electric heating. Rural Elec. Mag. 18(11):20-21. Aug. 1960. 335.8 N21
760. OVERCHARGES approach \$ 2 billion. Rural Elec. Minuteman 238:3-4. Oct. 25, 1963. 335.8 R8895
A table with a breakdown of 42 more power companies.
761. PENCE, D. A fight for low-cost power. Rural Elec. Mag. 20(6):22-24, 80. Mar. 1962. 335.8 N21
For sale of Nantahala Power and Light Company.
762. RISING use permits rates to fall. S. Dakota's rural electric coops. Elec. World 146(6):51-52. Aug. 5, 1957. 335.8 EL2
763. SPOWART, P. C. Electric rates and their uses. Rural Elec. Mag. 15(4):13, 62. Jan. 1957. 335.8 N21
764. STRUNK, F. Many people are asking: what's happened to regulation? Rural Elec. Mag. 21(7):16-18, 54. Apr. 1963. 335.8 N21
Electric rates.
765. SUMMARY of rate schedules of REA systems-load and rate trends. Preliminary issue. Washington, H. Zinder & Associates, Jan. 1958. 95 p. Not in Nat. Agr. Libr.
766. TEITELBAUM, P. D. Energy cost comparison. In United States papers prepared for the United Nations conference on the application of science and technology for the benefit of the less developed areas. p. 202-222. Geneva, Switzerland, 1963. 280.9 Un3892
767. TVA'S INFLUENCE on electric rates. Rural Elec. Mag. 12(9):26, 57. June 1954. 335.8 N21
768. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATION. Effect of Department of Interior and Rural Electrification Administration on public power preference customers. Intermediate report. June 7, 1956. Washington, 1956. 314 p. Not in Nat. Agr. Libr.
769. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Pacific Northwest power consumer preference. Hearing before the Subcommittee on Irrigation and Reclamation; Eighty-seventh Congress, second session, on S. 3153, a bill to guarantee electric consumers in the Pacific Northwest first call on electric energy generated at Federal plants in that region and to guarantee electric consumers in other regions reciprocal priority, and for other purposes. May 21, 1962. Washington, 1962. 110 p. 335 Un396Pa
Includes rural electrification.
770. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Pacific Northwest Power preference. Hearings 88th Cong., 1st sess. on H R 1007 (P. L. 88-552.) Apr. 1, 1963. Washington, 1963. 54 p. 335 Un396Pa
771. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Pacific Northwest power preference. Hearings before 88th Cong., 1st sess. on S 1007, a bill to guarantee electric consumers in the Pacific Northwest first call on electric energy generated at Federal hydroelectric plant in that region and to guarantee the electric consumer in other regions reciprocal priority and for other purposes on April 1, 1963. 54 p. Washington, 1963. Not in Nat. Agr. Libr.
772. WILLIAMSON, R. B. Electric retail rate increases and farmers' use of electricity. Diss. Abstr. 19(3):464-465. Sept. 1958. 241.8 M58
Thesis (Ph. D.)-American University. 128 p.
773. WINSBOROUGH, R. M. Fixing government power rates in the Southwest. Public Util. Fortn. 58 (7):433-440. Sept. 27, 1956. 280.8 P966

Eisenhower veto of Kerr bill (sponsored by National Farmers Union, NRECA etc) opened door for increased electricity rates.

Line Costs, Engineering, and Construction

774. BALE, A. G. Regulators on rural lines. Elec. S. 34(12):36, 38, 40, 78-79. Dec. 1954. 335.8 EL234

For improved service and greater revenue.

775. BUILD rural line extensions through "self help" programs. Elec. World 145(17):38, 41. Apr. 23, 1956. 335.8 EL2

776. CRANN, L. B., and EDMUNDS, W. M. A rural distribution voltage of 14.4/24.9 kv. Elec. Eng. 75: 331. Apr. 1956. 335.8 EL225

More economical and feasible in sparsely settled areas.

777. ESTIMATE rural transformer loading. Elec. World 152(5):49-50. Aug. 3, 1959. 335.8 EL2

To determine whether there is any overloading.

778. INTERIOR decision on Pacific intertie could give control to power companies. Rural Elec. Minuteman 266:1-3. June 12, 1964. 335.8 R8895

779. LANGLEY, M. N. Teamwork paid off; how Gila project settlers solved their power problem. Reclam. Era 40:62-63. Aug. 1954. 156.84 R24

Rural lines set up more speedily with "volunteer" help from potential electric uses.

780. MEYER, F. J. 2.4 KV system best for small rural towns. Elec. World 158(22):52-53. Nov. 26, 1962. 335.8 EL2

781. MOON LAKE line poses 64,000 KW question. Elec. World 150(2):46-47. July 14, 1958. 335.8 EL2
Utilization of excess power, the issue.

782. NEAGLE, N. M., and AUER, G. G. Capacitors improve voltage, reduce distribution losses. Rural Elec. Mag. 14(10):25, 64, 66. July 1956. 335.8 N21

783. NORWOOD, G. 1963-year of decision on interties. Rural Elec. Mag. 21(7):23, 41, map. Apr. 1963. 335.8 N21

Help keep rates down, send electricity greater distances.

784. O'BRIEN, J. E. Experience of the Rural Electrification Administration. I. Electrical distribution grid design and construction for rural areas. In United Nations Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas, Geneva, 1963. Science, technology, and development. United States papers, v.1, p. 23-38. 1962. 280.9 Un3982

785. PARTRIDGE, R. D., and RIXSE, J. H. Characteristics and technical problems of the rural distribution systems in the United States. World Power Conf. Sect. Meeting Paper 11(B4, 26), 15 p. Ref. 1957. 290.9 W89

Electricity.

Also printed separately 13 p. A335.9 R52

786. SCHLIE, R. W. Economic rural distribution system. Elec. World 141(16):122-125, 213-215. Apr. 19, 1954. 335.8 EL2

With limited voltage.

787. TEETSELL, R. J. Protective relays. Co-op Power 12(1):6-7. Jan. 1955. 335.8 C78

For efficient operation of power systems.

788. TRENDS IN distribution. Elec. World 141(20): 133-152. May 17, 1954. 335.8 E12

Towards higher primary voltages for rural areas.

789. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Bonneville (Pacific Northwest)-California Intertie. Hearings, 86th Cong., 1st sess., April 8 and 9, 1959. Washington, 1959. 231 p. 335 Un396P

Hydroelectric power.

790. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Pacific Northwest Account. Hearing, 86th Cong., 2d sess. on S. 1388, January 22, 1960. Part 1. Washington, 1960. 122 p. 335 Un396P

For irrigation and hydroelectric power.

791. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Pacific Northwest (Bonneville)-California Intertie. Hearing, 86th Cong., 2d sess., June 15, 1960. Part 2. Washington, 1960. p. 79-115. 335 Un396P

Hydroelectric power.

792. U. S. RURAL ELECTRIFICATION ADMIN. Engineering notes concerning REA-financed rural electric systems. Washington, 1956. 6 p. A335 R884En

POWER SUPPLY

General

793. BAKER, J. A. Power in partnership, a new dimension in cooperation; address at the annual meeting of the American Institute of Cooperation, Lincoln, Nebraska, August 5, 1963. Washington, U. S. D. A., Off. Sect., 1963. 17 p. A281.29 B17
Also in Amer. Coop. 1963:17-28. 280.29 Am3A and News Farmer Coop. 30(8):16-17. Nov. 1963. 166.2 N47
794. *CARMODY, J. M. Power supply seen greatest weakness since early days of REA program. Pub. Power 14(5):11-13. May 1956. Not in Nat. Agr. Libr.
795. CLAPP, N. M. REA's own power story. Power Eng. 66(6):63-65. June 1962. 290.8 P88
796. COLORADO marketing plans disclosed. Rural Elec. Minuteman 92:2-3. May 27, 1960. 335.8 R8895
Proposed transmission system for Colorado River project.
797. THE CONSERVATION yearbook, 4th, 1955-1956, edited by E. Kauffman. Washington, 1956. 304 p. 225 C766
Includes land utilization, soil conservation, forest policy, and lists hydroelectric plants on reclamation projects.
798. EMERGENCY power plant backs electrified farm living. Elec. Constr. & Maintenance 58:94-95. Feb. 1959. 335.8 EL232
799. GEBHARDT, M. H. Supervisory control over 14 stations backs up service on rural systems, Winnekota power cooperative. Elec. World 143(9):30-32. Feb. 28, 1955. 335.8 EL2
800. GILLILAND, C. B. Area redevelopment and Rural Areas Development activities. Nat. Tax Ass. Proc. 55th Annu. Conf.:438-443. 1962. pub. 1963. 284.59 N21
Projects include power plants as well.
801. HAMIL, D. A. Farmers supply own power through rural electric co-ops. News Farmer Coop. 27(1):10-12. Apr. 1960. 166.2 N47
802. HANLON, V. T. The power needs of the REA cooperatives. U. S. Mo. Basin Inter-Agency Comt. Minutes Meeting 96(Appendix H.), 10 p. Sept. 1957. 173 M69
803. LEERBURGER, F. J. Some problems in initiating power supply in less developed areas based on case histories. In United States papers prepared for the United Nations conference on the application of science and technology for the benefit of the less developed areas. p. 62-73. Geneva, Switzerland, 1963. 280.9 Un3982
804. OLDS, L. Power supply planning a must! Rural Elec. Mag. 17(10):34-36. July 1959. 335.8 N21
805. PETERSON, C. Can you afford a power failure? Successful Farming 60(1):38, 64. Jan. 1962. 6 Su12
806. POWER for tomorrow's loads. Rural Lines 8(9):3-6. Feb. 1962. A335.8 R88
807. ROBINSON, C. A. Wholesale power problems and politics. Amer. Coop. 1956:425-431. 280.29 Am3A
Electrification and goals of NRECA.
808. SEATON, F. A. Electric power for an expanding economy. Public Util. Fortn. 59(12):798-803. June 6, 1957. 280.8 P966
Made possible with increasing numbers of dams and river projects which because of sheer size can be undertaken only by Federal Government.
809. SHAUB, E. L. TVA: few projects in history ever did so much so quickly for so many people. Tenn. Conserv. 20, i. e. 19:3-8. Jan. 1954. 410 T252
Includes life in rural areas.
810. TEN REA financed generating units soon to go into operation. Rural Lines 9(10):14-15. Mar. 1963. A335.8 R88
811. THIS CO-OP builds its own power. Farm Power 16(7/8):6-7, 11. July/Aug. 1959. 335.8 F227
Necessitated by excessive charge by private utilities.
812. UDALL, S. Rural electrification needs Federal power. Rural Elec. Mag. 19(10):14-15, 50. July 1961. 335.8 N21

*Not examined.

813. U. S. PRESIDENT'S WATER RESOURCES COUNCIL. Policies, standards and procedures in the formulation, evaluation and review of plans for the use and development of water and related land resources. Prepared under the direction of the President's Water Resources Council with a statement by Senator Clinton P. Anderson of New Mexico. May 29, 1962. 13 p. 87th Cong., 2d sess. Senate Doc. 97. Washington, 1962. Not in Nat. Agr. Libr.
Supplement No. 1 Evaluation, standards for primary outdoor recreation benefits. June 4, 1964. 9 p.
814. *U. S. RURAL ELECTRIFICATION ADMIN. Operation and maintenance of electric generating plants, by W. E. Rushlow. Washington, 1955. 14 p. A335 R880
For presentation at the Technical Training Conference for REA field engineers, Chicago, Illinois, January 17-21, 1955. Not in Nat. Agr. Libr.
815. U. S. RURAL ELECTRIFICATION ADMIN. REA-financed generating plants (operating or active standby). Washington, 1954. 17 p. A335 R884
816. U. S. RURAL ELECTRIFICATION ADMIN. A review of power problems of REA-financed federated cooperatives in Southwestern Power Administration area. Washington? 1954. 11 p. A335 R88R
817. U. S. TENNESSEE VALLEY AUTHORITY. Municipal and cooperative distributors of TVA power; 1962 annual report. Knoxville, 1962. 72 p., map. 173.2 T25Mu
Includes rural electric cooperatives.
818. WILKINS, C. E. Is power supply causing co-op management insomnia? Co-op Power 12(1):8-9, 18. Jan. 1955. 335.8 C78
Availability now and in the future.
819. WOOD, R. H. Wholesale power supply. Amer. Coop. 1961:551-552. 280.29 Am3A
Electric cooperatives.
- Power Sources
820. ATOMIC age may soon include farm folk. Farm Power 14(1):14. Jan. 1957. 335.8 F227
821. BECKER, C. F., and BOYD, J. S. Availability of solar energy. Agr. Eng. 42(6):302-305. June 1961. 58.8 Ag83
822. BIXLER, O. L. Columbia Basin; Washington's million acre Federal project awaits an expanding market in developing its dairying industry. West. Dairy J. 10(5):18, 20, 70. Mar. 1, 1954. 44.8 W524
823. BRADBURN, J. E. Minnesota system proposes Atomic power plant. Rural Elec. Mag. 13(11):13, 58. Aug. 1955. 335.8 N21
824. CLAPP, G. The TVA story. Rural Elec. Mag. 16(8):15-16, 69. May 1958. 335.8 N21
825. COMAR, C. L. Agricultural uses of the atom. Polled Hereford World Mag. 13(7):204, 208, 210. July 1959. 43.8 P76
Use in electric power not as important for the near future.
826. CROSS, C. L. "Packaged power" can pay dividends. Farm Power 14(8):8-9. Aug. 1957. 335.8 F227
827. DANIELS, F., and DUFFIE, J. A. Solar energy research. Madison, Wis., Univ. of Wis. Press, 1955. 290 p. 334 D222
Agricultural utilization of solar energy also brought out.
828. EASTMAN, E. R. Develop Niagara by free enterprise. Amer. Agr. 151:116-117. Feb. 20, 1954. 6 Am3
829. FIRST atomic reactor plant to serve rural consumers operates at full power. Coop. Digest 24(8):17. Feb. 1964. 280.28 C7896
830. FORMAN, J. The need for a permanent farm policy to protect our land and its water: surplus-soil banks-scarcity-security. Land & Water 3(2):17-21. Summer 1957. 279.8 L222
Hydroelectric power and its importance
831. GANGWER, H. G. The people in the valley back a TVA self-financing plan. Rural Elec. Mag. 15(8):17-18, 52-53. May 1957. 335.8 N21
832. GOLDING, E. W. The generation of electricity by wind power. New York, Phil. Libr., 1956. 317 p. 335 G56G
Wind behavior, wind-driven machines and economics of wind power.

*Not examined.

833. GOLDMAN, J. E. Basic research in industry. Nat. Eng. Conf. Proc. 6:1-7. Feb. 25, 1957. 44.9 D1482
Especially for sources of energy- electric included.
834. HAFSTAD, L. Watching atomic power development from the rural sidelines. Rural Elec. Mag. 12 (12):15-16, 60-61. Sept. 1954. 335.8 N21
835. KABAT, R. Transforming the atom. Rural Elec. Mag. 12(8):13-15. May 1954. 335.8 N21
836. LIBBY, W. F. Atomic energy in agriculture. N. Y. (State) Agr. Exp. Sta. Bull. 780:41-48. Dec. 1957. 100 N48
837. LONG, K. F., and EWING, C. G. The ABC's of horsepower. World Farming 2(11):20-21, 27. Nov. 1960. 30.08 W89
838. LOUNSBURY, D. Stand-by electric power plants. Implement & Tractor 72(20):38-40. Oct. 5, 1957. 58.8 W41
Much is lost during a power failure.
839. LYONS, B. Tomorrow's birthright; a political and economic interpretation of our natural resources. New York, Funk & Wagnalls, 1955. 424 p. 279.12 L99
Federal development of Electric power.
840. MCKIBBEN, E. G. The potential of electromagnetic energy. Agr. Eng. 44(10):541. Oct. 1963. 58.8 Ag83
841. MANN, M. Peacetime uses of atomic energy. New York, Crowell, 1957. 175 p. (A Studio Book) 334 M312
Includes uses in agriculture. With medicine, agriculture is one of the two greatest users of atomic energy.
842. MARRITZ, R. O. Atomic power and the future. Rural Elec. Mag. 21(9):24-25, 54. June 1963. 335.8 N21
Rural electric participation.
843. MEILE, C. H. Power plants and transmissions of the future. (Abstr.) Ass. Southern Agr. Workers. Proc. 58:49-50. 1961. 4 C82
844. NAGEY, T. Atomic power in rural areas - a challenge. Rural Elec. Mag. 13(9):17, 58. June 1955. 335.8 N21
845. NEW CHEAPER method of getting atomic power. Farm Power 16(10):6. Oct. 1959. 335.8 F227
846. NEW SOURCES of electric generating power explored by researches in US and abroad. Farm Power 13(3):11. Mar. 1956. 335.8 F227
Atoms, earth etc.
847. NOT SO quiet on the Potomac. Rural Elec. Minuteman 119:2. Feb. 3, 1961. 335.8 R8895
Potomac River Basin power project threatened with plan for National Monument.
848. PITTMAN, F. K., and STAEBLER, U. M. Nuclear power technology and costs. In United States papers prepared for the United Nations conference on the application of science and technology for the benefit of the less developed areas. p. 163-172. Geneva, Switzerland, 1963. 280.9 Un3982
849. PRICE, M. Needed-rural electrics in atomic power development. Rural Elec. Mag. 12(10):32, 60. July 1954. 335.8 N21
Cooperatives.
850. *RADIN, A. Power for rural Puerto Rico. Pub. Power 17(5):6-8. May 1959. Not in Nat. Agr. Libr. Electrification.
851. REA NUCLEAR power conference. Public Util. Fortn. 60:760-762. Nov. 7, 1957. 280.8 P966
852. REEVES, D. W. Investor-owned utilities and transmission lines for Colorado River storage project. Colo. River Water Users' Ass. Proc. 18:68-76. 1961. 292.9 C712
On irrigation, reclamation, and hydroelectric power.
853. ROBINSON, C. A. Giant power on the Missouri. Rural Elec. Mag. 19(1):49-50, 52. Oct. 1960. 335.8 N21
A network for the entire Missouri Basin of cooperatives, public power districts and municipally owned electric system.
854. ROBINSON, C. A. The power of Alaska. Rural Elec. Mag. 19(12):18-19, 50, 52. Sept. 1961. 335.8 N21
Present and future power capabilities.

*Not examined.

855. RURAL electricians look into the atomic age. Rural Lines 3(2): 3-5. July 1956. A335.8 R88
856. SEYMOUR, W. Typical problems in the development of modern power supply in less developed areas. In United Nations Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas, Geneva, 1963. Science, technology, and development. United States papers, v.1, p. 83-95. 1962. 280.9 Un3982
Electrification in the TVA area.
857. SILOW, R. A. The potential contribution of atomic energy to development in agriculture and related industries. Int. J. Appl. Radiat. & Isotop. 3(4): 257-280. Ref. Aug. 1958. 334.8 In84
A section on (electric) power applications.
858. STAEBLER, U. M. Nuclear energy for agriculture. Chemurg. Digest 15(6):7-9,15. June 1956. 381 N213Na
Eventually more abundant and cheaper electricity.
859. SUNDBORG, G. The "biggest dam" on the mighty Yukon. Rural Elec. Mag. 17(10):15,16. July 1959. 335.8 N21
860. THOMAS, P. H. Economics of wind power for rural electricians. Rural Elec. Mag. 12(11):30, 50 Aug. 1954. 335.8 N21
861. THOMAS, P. H. Lower power costs through windpower. Rural Elec. Mag. 13(3):17,43. Dec. 1954. 335.8 N21
862. THOMAS, P. H. Wind power for rural electricians. Rural Elec. Mag. 12(7):23, 54. Apr. 1954. 335.8 N21
863. U. S. CONGRESS. HOUSE. COMMITTEE ON GOVERNMENT OPERATIONS. Sale and transmission of power (Bureau of Reclamation, Central Valley Project, California). Hearings, 86th Cong., 2d sess., March 25 and 26, 1960. Washington, 1960. 338 p. map. Not in Nat. Agr. Libr.
Electric power.
864. U.S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Colorado River Storage Project. Hearings 83rd Cong., 2d sess. on H.R. 4449, 4443, 44463. Jan. 18-28, 1954. Washington, 1954. 909 p.
865. *U.S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Colorado River Storage Project. Hearings, 84th Cong. 1st sess. on H.R. 4488. Part 1 Mar. 9,10; Apr. 18, 20, 22, Part 2 Mar 11,14, 16-19,28, 1955. Washington, 1955. 1148 p. Not in Nat. Agr. Libr.
866. U.S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Fryingpan Arkansas Project, Colorado. Hearing before the Subcommittee on Irrigation and Reclamation, before the 87th Cong., 1st sess. on H.R. 2206, 2207, 2208, 2209 bills to authorize the construction, operation and maintenance by the Secretary of Interior of the Fryingpan Arkansas Project. Washington, 1961. 163 p. 292 Un373Fa
867. U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Marketing area of Bonneville Power Administration. Hearings, 88th Cong., 1st sess., on S. 1007, H.R. 994, H.R. 1160, H.R. 4071, and H.R. 4485, May 14, 15, 29, and 31, June 3 and 4, 1963. Washington, 1963. 307 p. 292.4 Un392M
To guarantee electric consumers in the Pacific Northwest first call on electric energy generated.
868. U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Pacific Northwest Account. Hearings, 86th Cong., 2d sess. on H.R. 3683, H.R. 3487, H.R. 3510, H.R. 3668, H.R. 4900, and H.R. 5131, January 25 and 26, 1960. Washington, 1960. 139 p. Not in Nat. Agr. Libr.
For irrigation and hydroelectric power.
869. U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC WORKS. Niagara power development. Hearings, 84th Cong., 1st sess. on H.R. 142, H.R. 420, H.R. 5377, H.R. 5706, and H.R. 5878, bills to authorize the construction of certain works of improvement in the Niagara River for power and other purposes, June 8, 9, and 10, 1955. Washington, 1955. 326 p. 292.4 Un342Np
870. U.S. CONGRESS. JOINT COMMITTEE ON ATOMIC ENERGY. Authorization bill, section III - Hanford (Washington) electric power generator. Hearings before the Joint Committee on Atomic Energy. 87th Cong., 2d sess., July 10, 11, 1962. Washington, 1962. 143 p. Not in Nat. Agr. Libr.
Bound with this are Hearings on Sept. 27, 1962. 44 p. Not in Nat. Agr. Libr.
*Not examined.

871. U. S. CONGRESS. SENATE. COMMITTEE ON FOREIGN RELATIONS. Hearings before the Committee of the 86th Cong., 2d sess. on H.R. 12263 - an act to authorize the conclusion of an agreement for the joint construction by the United States and Mexico of a major international storage Dam on the Rio Grande in accordance with the provisions of the treaty of Feb. 3, 1944 with Mexico on June 21, 22, 1960. Washington, 1960. 40 p. Not in Nat. Agr. Libr.
The Amistad Dam and Reservoir.

872. U.S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Colorado River storage project. Hearings before 83rd Cong., 2d sess. on S. 1555, a bill to authorize the Secretary of Interior to construct, operate and maintain the Colorado River storage project, June 28-30, July 1-3, 1954. Washington, 1954. 694 p. 290 Un3992.

873. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Fryngpan Arkansas, Colorado, project. Hearings in 87th Cong., 2d sess. on S. 284, June 28, 1962. Washington, 1962. 251 p. 292 Un373 Fa

874. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. The Lower Colorado River Basin Project, report together with individual minority views to accompany S. 1658. Hearings before the 88th Cong., 2d sess. Senate Rep. 1330. Washington, 1964. 35 p. 292 Un354L

875. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Upper Columbia River Development. Hearings, 85th Cong., 2d sess., April 21, 22, 23, May 5, 6, and 7, 1958. Washington, 1959. 442 p. Not in Nat. Agr. Libr.
Includes flood control and hydroelectric power.

876. U. S. CONGRESS. SENATE. COMMITTEE ON PUBLIC WORKS. Priest Rapids and Cougar Hydroelectric Project. Hearings before the subcommittee of 83rd Cong., 2d sess. on S. 1793. a bill to provide for the development of the Priest Rapids site on the Columbia River, Washington and S. 2920, a bill to provide for the construction, and maintenance of the Cougar Dam. May 20, 1954. Washington, 1954. 96 p. 292.4 Un38

877. U. S. FEDERAL POWER COMMISSION. Hydroelectric power resources of the United States developed and undeveloped, 1960. Rev. ed. Washington, 1961. 209 p. 173 F34H

878. U. S. RURAL ELECTRIFICATION ADMIN. Background information on atomic energy developments. Washington, 1956. 8 p. A335 R88B

879. VAN ZARNDT, J. E. The Hanford issue in retrospect. Public Util. Fortn. 69(3): 145-152. Feb. 1, 1962. 280.8 P966
Government to build nuclear plant in Hanford, Wash.

880. WEBER, E. W. Economic principles and procedures governing development of river basin projects. Mo. Basin Inter-Agency Comt. Minutes meeting. 88(app.A), 11 p. 1956. 173 M69
Flood control and hydroelectric power.

881. YEAGER, L. B. Low cost financing of Hydroelectric projects. Public Util. Fortn. 58(11): 809-814. Nov. 22, 1956. 280.8 P966
Paid for by a levy on all people for benefit of a few. Subsidies favored consumers at the expense of the country at large.

Generation and Transmission Loans

882. BIG COOP forms in Pacific Northwest. Elec. West. 119(1): 138. July, 1957. 335.8 J82
Also in Elec. World 148(1): 42. July 1, 1957. 335.8 EL2

883. BLALOCK, H. W. A "get tough" policy in the Southwest. Rural Elec. Mag. 12(8):23, 42, 44. May 1954. 335.8 N21
Towards elimination of Rural Electric cooperative generation & transmission loans from REA.

884. CHASE, M. A. Look at rural generation and transmission. Rural Lines 5(4):7-10; 5(5):17-18. Aug. Sept., 1958. A 335.8R88

885. CLAPP, N. M. G-T systems must have 'equalizers' to reach REA goal of 'rate parity'. Rural Elec. Minuteman 220:1, 2. May 24, 1963. 335.8 R8895.

Address at the 14th annual REA generating conference in Hot Springs, Ark., May 1963.

886. CLAPP, N. M. Pay dirt in Interties. Rural Elec. Minuteman. 197:1, 2. Nov. 23, 1962. 335.8 R8895.
Address at meeting of National Association of Railroad and Utility Commissioners in New Orleans, Nov. 1962.
887. CO-OP GROUP plans 400 m.w. thermal capacity in Midwest Elec. World. 155(21):62-63. May 22, 1961. 335.8 EL2
888. G & T LOANS in 1955. Rural Lines 2(5):15-16, Oct. 1955. A335.8 R88
889. G & T OUTLOOK. Co-op Power 12(10)8, 9, 16. Oct. 1955. 335.8 C78.
Rural Electrification Administration's view by A.L. Freeman and a Cooperative's view by R.G. Zook.
890. G & Ts ARE good medicine for power companies, too. Rural Elec. Minuteman 215:4. Apr. 19, 1963. 335.8 R8895.
891. GENERATION & transmission loans (Minuteman background feature) Rural Elec. Minuteman 75:3. Jan. 29, 1960. 335.8 R8895
892. HOOSIER energy's G & T loan transferred to statewide Rural Electric Cooperative. Rural Elec. Minuteman 174:2 May 4, 1962. 335.8 R8895
893. HOW TO SAVE \$10 million in 10 years. Rural Elec. Minuteman 217:4. May 3, 1963. 335.8 R8895
By combining with other co-ops for their own G & T plants.
894. LYNCH, W. W. "Not by chance..." Public Util. Fortn. 71(12): 67-72. June 6, 1963. 280.8 P966.
Generation and transmission loans through publicly financed taxpaying investment.
895. NELSEN, A. Generation and transmission most difficult phase of REA. Elec. Farmer 10(1): 7. Jan. 1956. 335.8 N27
896. NELSEN, A. Loans for generation and transmission. Rural Lines 1(3): 3-8. Aug. 1954. A335.8 R88
897. NEW G & T co-ops formed in Pacific Northwest. Elec. world, 148(1): 42. July 1, 1957. 335.8 EL2
898. NORMAN CLAPP signs long awaited \$60-million Hoosier energy loan. Rural Elec. Minuteman 138:1, 2. June 16, 1961. 335.8 R8895
899. \$1 BILLION outlay heavying up; G T expansion will play biggest part in future building. Rural Lines 2(12): 21-3. May 1956. A 335.8 R88
900. REA APPROVES \$36.6 million loan for Basin G & T co-op. Rural Elec. Minuteman 175:1. May 11, 1962. 335.8 R8895
901. REA'S NEW policy standard for G & Ts. Rural Elec. Minuteman 130:1-2. Apr. 21, 1961. 335.8 R8895
Excerpts from an address by N.M. Clapp at annual meeting of Western Farmers Electric co-op (G & T) at Anadarko, Okla. on April 14, 1961.
902. REVOLUTIONARY electric power generation system. Farm Power 16(11):5. Nov. 1959. 335.8 F227
Magneto hydrodynamics (MHD)
903. \$60 MILLION Hoosier loan is REA's largest to date. Rural Elec. Mag. 19(10): 16, 50. July 1961. 335.8 N21
Southern Indiana power plant.
904. SPECIAL G & T issue. Rural Elec. Minuteman 201:1-6. Jan. 11, 1963. 335.8 R8895
905. A THREAT to the power companies? Rural Elec. Minuteman 228:4. July 19, 1963. 335.8 R8895.
The electric cooperatives with their G & Ts.
906. WOOD, R. H. Why REA made the Basin G & T (Minuteman background feature). Rural Elec. Minuteman 176:3. May 18, 1962. 335.8 R8895.
907. YES, REA is definitely committed to keep the electricity coming. Coop. Digest 22 (3):14, 15. Sept. 1961. 280.28 C7896.
Excerpts of remarks by N.M. Clapp during the dedication of new generating station for Corn Belt cooperative in Spence, Iowa, on July 12, 1961.

EFFECTS

General

908. ALTMAN, L.B. Electric water pumps on the farm. Farm Elec. 13(1):12-13, 16. Jan./Feb. 1959.

- Advantages and methods of installation.
Also in U.S.D.A. Leaflet No. 436, 4 p. 1 Ag84L
909. ARA CELEBRATES first birthday. Rural Elec. Minuteman 175:4. May 11, 1962. 335.8 R8895
910. AREA DEVELOPMENT programs of electric companies. Edison Elec. Inst. Bull. 25(7):231-232. July 1957. 335.8 Ed4
Includes farming and rural improvement.
911. BEHM, H.J., and FULLER, R.G. Electricity and agriculture. Battelle Tech. Rev. 6(10):3-8. Oct. 1957. 470 B32
Also condensed in Rural Lines 4(10):6-10. Mar. 1958. A335.8 R88
912. BRANNEN, S.J. The Rural Areas Development Program. Conf. Area Develop. Pap. 1962:177-184. 1963. 280.9 C7632
913. CAHILL, J.C. Performance standards; what they mean in farm electrification. Farm Elec. 9(4):1-2, 15-16. July/Aug. 1955. 335.8 F224
914. CHRISTENSEN, R.P. Adjustment of problems created by changes in the competitive position of Southern agriculture. (Abstr.) Ass. Southern Agr. Workers Proc. 56:22, 23. 1959. 4 C82
Mechanization has resulted in growth of nonfarm occupations.
915. CONFERENCE ON RURAL DEVELOPMENT PROGRAM, MEMPHIS, 1958. Proceedings. Washington, Com. Rural Develop. Program, 1958. 163 p. A281.9 C762
Discussion group IX includes electric power, p. 131-134.
916. CORTY, F.L. Discussion: incentive aspects of rural resource development. Ass. Southern Agr. Workers. Agr. Econ. & Rural Sociol. Sect. Proc., 60th Annu. Conv., 2:277-281. 1963. 4 As73Pa
917. CRAIGIE, C.F. Remember future needs when considering electric water system. Farmers Federation News 34(9):6, 18. May 1954. 280.28 F225
918. DEACON, R.E. The economic progress since marriage of Ohio families farming full-time in 1958. Ohio Agr. Exp. Sta. Res. Bull. 902, 45 p. Mar. 1962. 100 Oh3S
Larger electrified farms.
919. DOWDY, G.T. Historical development of agribusiness with implications for implementation. Prof. Agr. Workers Conf. Proc. 19th Conf.:79-92. 1961. 281.9 P942.
920. ELECTRIFICATION left its brand. Rural Lines 6(4):12-14. Sept. 1959. A335.8 R88
921. ELLSWORTH, R.H. Country's radar defense. Co-op Power 11(5):12, 16. May 1954. 335.8 C78
Rural electrification makes it possible.
922. FREEMAN, O.L. Conservation for world peace. No. Amer. Wildlife & Nat. Resources Conf. Trans. 28:49-57. 1963. 412.9 N814.
Recreational use of land.
923. FREEMAN, O.L. Rural areas development in the U.S. FATIS Rev. 10(4):103-108. 1963. 275.249 F26
924. FREEMAN, O.L. Rural resources in the 1960's. 16 p. In National Conference on Land and People, Washington, 1962. [Papers.] 1962. A282.9 N21
Among other factors, technology has helped make maximum use of land resources.
925. GEORGE, J.M. It takes planning to conserve our water resources. Rural Elec. Mag. 16(9): 15, 66. June 1958. 335.8 N21
And develop power sites.
926. HENDERSON, G.E. How farm water systems work. Elec. Farm 27(5):12-18. May 1954. 335.8 EL27
927. HERTZ, C.F. Effect of improving technology on land values in the Corn Belt. Amer. Soc. Farm Managers & Rural Appraisers J. 20:48-51. Apr. 1956. 281.8 Am32
Lead to specialized farms with large volume production.
928. HEWES, L. I. Recreation and rural people. U.S.D.A. Yearbook Agr. 1963:305-308. 1 Ag84Y
Through the Rural Areas Development.
929. HIENTON, T.E., and SCHAEZNER, J.P. Farmers use electricity. U.S.D.A. Yearbook Agr. 1960:75-86. 1 Ag 84Y
930. HIENTON, T.E. Trends in rural electrification. Agr. Eng. 38(6):453-459. June 1957. 58.8 Ag83

- Future needs and advances.
Also in Farm Elec. 11(6):1-6, 16. Nov./Dec. 1957.
335.8 F224
931. HORTON, J. K. The all-electric future. Edison Elec. Inst. Bull. 29(6):211-216. June 1961. 335.8 Ed4
Includes electricity on the farm.
932. HOSFORD, J. Peak demand governs correct water system. Farm Power 14(5): 12, 19. May 1957. 335.8 F227
933. HOUT, F. Untapped obsolescence market. Farm Power 16(5): 8, 9. May 1959. 335.8 F227
Farms' water systems 12 years or older.
934. HOW YOU'RE going to keep them on the farm after they've seen P.Q. & E.? Elec. World, 141(15):15-17. Apr. 12, 1954. 335.8 EL2
935. HOWE, E.D. Demineralized water for domestic and agricultural uses. Amer. Soc. Anim. Prod. West. Sect. Proc. 10:19-28. 1959. 389.9 Am31
936. HUNTER, F.M. A farm electric water supply. Miss. State Coll. Ext. Publ. 211, rev., 17 p. June 1958. 275.29 M68Ext.
937. HURST, R.L. Some implications of agribusiness to the farmer. Prof. Agr. Workers Conf. Proc. 19th Conf.:93-98. 1961. 281.9 P942.
938. INTERNATIONAL LABOR OFF. Health and safety aspects of automation and technological change; a collection of abstracts, 1956 to 1962. Washington, U. S. Dept. Labor, Manpower, Admin. Off. Manpower, Automation and Training, 1964. 181 p. 241.2 In82
Includes economic poisons and agricultural machinery.
939. JOCHIMSEN, L. N. DEPA needs rural electric participation. Rural Elec. Mag. 21(2):24. Oct. 1962. 335.8 N21
Defense Electric Power Administration, an agency of the Department of the Interior-preparedness in times of national emergency.
940. KENTUCKY, RAD pioneer. Rural Lines. 9(10): 3-7. Mar. 1962. A 335.8 R88
941. KNIGHT, W.H. Cents for kilowatts return dollars to the farm. Idaho. Agr. Col. Ext. Farm Elec. Leaflet. 31, 4 p. Oct. 1955. 275.29 Id13Fa
- Uses of electricity on the farm.
942. KUHL, R.G. Electric heat can't be beat! Rural Elec. Mag. 17(10):17, 49. July 1959. 335.8 N21
943. LASSEN, W.L. We promote water systems. Co-op Power 11(11): 6, 14. Nov. 1954. 335.8 C78
For increased power use.
944. MANGUS, A.R., and MITCHELL, J.B. What has technology done to farm families? Better Farming Methods 34(10):14-17. Oct. 1962. 58.8 B46
Economic and social conditions.
945. MANNY, E.S. Health improvement through the Rural Development Program; third progress report. U.S.D.A. Program Aid 415, 9 p. 1960. 1 Ag84Pro
946. MAYALL, B.H. How rural electricians can help our air defense. Rural Elec. Mag. 12(6):22-23, 50. Mar. 1954. 335.8 N21
947. MEENEN, H.J. The impact of technology and governmental programs upon land values. Amer. Soc. Farm Managers & Rural Appraisers J. 21(1):76-81. Apr. 1957. 281.8 Am32
Increased production and reduction in costs.
948. MUNGER, G.D. TVA's water systems program. Co-op Power 12(5):6, 7, 22. May 1955. 335.8 C78.
Less than 25 percent before TVA.
949. MURRAY, W.E. Local development companies offer RAD hope. Rural Elec. Mag. 20(8):16-17. May 1962. 335.8 N21
950. MURRAY, W.E. Progress report on ARA-RAD programs. (Minuteman background feature). Rural Elec. Minuteman 180:3. June 15, 1962. 335.8 R8895.
951. NELSON, L. The Minnesota community; country and town in transition. Minneapolis, U. Minn. Press, 1960. 175 p., maps. Ref. 280.12 N332
Effect of farm electrification on family living also discussed.
952. NEWBERRY, T.W. The all-electric school. Rural Elec. Mag. 18(3): 23, 50, 52. Dec. 1959. 335.8 N21
953. OKLAHOMA. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. AGRICULTURAL

- EXTENSION SERV. Better lighting. Okla. State Univ. Agr. Ext. Circ. E-439, 16 p. June 1958. 275.29 Ok41C
954. OVERBY, K. Electricity in rural redevelopment. U.S.D.A. Yearbook Agr. 1963:222-227. 1 Ag84Y
955. PENNY, N.M. Economic and social implications of the agricultural-industrial adjustments in the South. Assoc. Southern Agr. Workers. Agr. Econ. & Rural Sociol. Sect. Proc. 1960(1):7-20. 4 As73Pa
Discussion, by R. J. Saville, p. 21-26.
956. PHAGAN, C.V. Electric water systems for the farm home. Okla. Agr. Coll. Ext. Circ. 473, 31 p. 1955. 275.29 Ok41C
957. PORTER, W.F. Non-economic goals of farming and rural life. Amer. Country Life Ass. Proc. 35: 59-71. 1956. 281.2 N213
Rural Development program.
958. PUGH, C. R. Implementation of rural development J. Farm Econ. 39(5):1685-1688. Dec. 1957. 280.8 J822
959. RAD ON the move. Rural Elec. Mag. 20(9): 32. June 1962. 335.8 N21
In Trout Creek, Montana.
960. REED, P.D. Electricity and the business of farming. In Ethyl Corporation. Food for America's future, p. 123-135. New York, McGraw-Hill, 1960. 281.12 Et3
961. RESORT areas bring income to Colorado. Rural Lines 9(12):15-16. May 1963. A335.8 R88
962. ROADMAP to a better future; total area development. Rural Lines 9(1):14-17. June 1962. A335.8 R88
963. ROBINSON, C.A. New water resources standards (Minuteman background feature). Rural Elec. Minuteman 182:3. June 29, 1962. 335.8 R8895
964. ROCKEY, J.W. The water problem in rural areas. Agr. Eng. 44(1):26. Jan. 1963. 58.8 Ag83
965. ROWLANDS, W. A. A citizens' development plan for every county. Wis. Agr. Coll. Ext. Circ. 617, 25 p., map. May 1963. 275.29 W75C
966. RURAL Arkansas gets first ARA funds. Rural Elec. Minuteman 144:3. July 28, 1961. 335.8 R8895.
967. RURAL development story; Big Mac helps the Upper Peninsula. Rural Lines 7(6):3-6. Nov. 1960. A335.8 R88
968. RURAL Electrification in US (Review). Edison Elec. Bull. 28(1):17. Jan. 1960. 335.8 ED4
969. RURAL redevelopment under way. Elec. World 156(6):24-25. Aug. 7, 1961. 335.8 EL2
970. SATELLITE tracking station powered by REA borrower. Rural Lines 9(6):9-13. Nov. 1962. A335.8 R88
971. SHEPPARD, F.W. Rural development, a means of development resources as an aid to agricultural adjustments. Tex. Agr. Workers Ass. Proc. 33: 87-89. 1959. 4 T314
972. SOUTHERN, J.H. Rural area development policies. Farm Policy Rev. Conf. Pap. 2d Conf.: 110-113, map. 1961. 281.9 F2222
973. A TRAIN of benefits. Rural Elec. Minuteman 137:4. June 9, 1961. 335.8 R8895
Representative Santangelo of New York City spoke on agriculture in general and rural electrification in particular.
974. UDALL, S.L. The conservation challenge of the sixties. Calif. U. Sch. Forest. H.M. Albright Conserv. Lect. 3, 22 p. Apr. 19, 1963. 279.9 C126
975. USDA BUILDS strong RAD organization. Rural Lines 8(3):3-5. Aug. 1961. A335.8 R88
976. USDA THROWS full power into the rural areas development program. Rural Elec. Minuteman 139:1-3. June 23, 1961 335.8 R8892
977. WALTERS, A. Tennessee rural electricians asked to serve in military defense of America. Tenn. Rural Elec. Bull. 5(5):3, 7. May 1954. 335.8 T25
As aircraft spotters.

978. WARING, J.A. The biggest two per cent. Public Util. Fortn. 56(13):1022-1025. Dec. 22, 1955. 280.8 P966

Electricity's role in the total power picture including agriculture.

979. WYOMING. UNIVERSITY. DIV. OF ECONOMIC ANALYSIS. Powder River Basin; a study of its resources, people, and economy, by F. K. Harmston. Laramie, 1954? 145 p. Ref. 280.099 W992P

Power generation by water power.

980. WYOMING. UNIVERSITY. DIV. OF ECONOMIC ANALYSIS. A study of the resources, people, and economy of the Big Horn Basin, Wyoming; prepared for the Wyoming Industrial Research Council, by F. K. Harmston. Laramie, 1954? 162 p. 280.099 W992S

Power generation by water power.

981. WYOMING. UNIVERSITY. DIV. OF ECONOMIC ANALYSIS. Wind River Basin; a study of its resources, people, and economy, by F.K. Harmston. Laramie, 1954? 116 p. 280.099 W992W

Power generation by water power.

982. YOUR RAD tools -- how to use them. (Minute-man background feature). Rural Elec. Minuteman 193:3. Sept. 28, 1962. 335.8 R8895

Farm Production

Farm Electrification

983. BATTIN, R. Hire an electric farmhand. Farm Quart. 10(3):44-47, 99-100, 102-103. Autumn 1955. 6 F22995

Mechanization is efficient and economical only on large farms.

Also in Farm Elec. 9(6):10-13, 16. Nov./Dec. 1955. 335.8 F224

984. BOWEN, R. Electrifying farms is my job. Hoard's Dairyman 103(15):796, 797. Aug. 10, 1958. 44.8H65

Farmers reduce hand labor and live better.

985. CAMPBELL, L.E. and PUCKETT, H.B. The uses of electricity. U.S.D.A. Yearbook Agr. 1962:402-410. 1 Ag84Y

On the farm.

986. CHUNGLO, C.F. Champion weight lifters; relief sought for farmers by putting load on machinery. Farm Elec. 9(3):6-7. May/June 1955. 335.8 F224

Electricity's proven easier way to do mean, tiresome jobs.

987. *DAVIS, J.F. Electricity and the farmer. Washington, U.S. Agr. Res. Serv., Prod. Econ. Res. Br., 1955. 5 p. Not in Nat. Agr. Libr.

Talk at a meeting of the American Institute of Electrical Engineers, Chicago, Ill., March 8, 1955.

988. DAVIS, J.F. Electricity on farms in New York and New England. U.S.D.A. Agr. Inform. Bull. 124, 42 p. July 8, 1954. 1 Ag84Ab

Cost and use of electricity and future prospects.

989. DAVIS, J.F., and STANFORTH, S.D. Electricity on farms in the Eastern Dairy Area of Wisconsin. U.S.D.A. Agr. Inform. Bull. 143, 31 p. Oct. 1955. 1 Ag84Ab

Wisconsin Agricultural Experiment Station, co-operating. Cost and use of electricity--future prospects.

990. DAVIS, J.F. Use of electricity on farms; a summary report of ten area studies. U.S.D.A. Agr. Inform. Bull. 161, 38 p. Nov. 1956. 1 Ag84Ab

991. DISSLIN, H.G. Effect of improving technology on land values. Amer. Soc. Farm Managers & Rural Appraisers J. 20(1):38-42. Apr. 1956. 281.8 Am32

Land values are raised only in topography adapted to mechanization.

992. EEI REPORTS 97 per cent of U.S. farms electrified. Farm Power 15(5):10. June 1958. 335.8 F227

993. ELECTRIC power and the family farm. Rural Elec. Minuteman 222:4. June 7, 1963. 335.8 R8895

994. ELECTRICITY on the farm. Rural Lines 1(12):3-5. May 1955. A335.8 R88

995. ELLIS, C.T. The atom and the all-electric farm. Tenn. Rural Elec. Bull. 5(9):3. Sept. 1954. 335.8 T25

*Not examined.

Making possible lower cost electric power and all-electric farms a universal reality.

996. *FARM exhibitions promote total-electric concept. *Elec. World* 162:91-92. Apr. 24, 1964. 335.8 EL2

997. FORD, K.E. Agribusiness in Georgia. *Ga. Agr. Exp. Sta. Mimeogr. Ser. (n.s.)*199, 25 p., map. July 1964. 100 G293M

998. GIBBS, H. Development in farm electrification. *Tex. Agr. Workers Ass. Proc.* 33:79-83. 1959. 4 T314

999. GILDEHAUS, E.J. The new sign of modern farming; "Reddy Kilowatt Farm," new award for all-electric farms. *Farm Elec.* 9(3):12-13. May/June 1955. 335.8 F224

1000. GUSSETT, N.B. To those who carry on. *Farm Elec.* 8(2):15-16. Mar./Apr. 1954. 335.8 F224

Finding new and more profitable uses of electricity on the farm.

1001. HALL, F. After 20 years of rural electrification. *Kans. Elec. Farmer* 5(2):6-7. Feb. 1956. 335.8 K132

Progress, especially in Kansas.

1002. IOWA FARMERS, co-op officials see electric farming at its best on Nebraska irrigation tour. *Rural Lines* 3(5):18-20. Oct. 1956. A335.8 R88

1003. KING, J.W. and WANSLEY, L.T. Electricity creates new farm industries. *Public Util. Fortn.* 63(3):155-164. Jan. 29, 1959. 280.8 P966

1004. LYNN, R.W., and O'BRIEN, J.E. Electric and telephone systems. *U.S.D.A. Yearbook Agr.* 1960:455-462. 1 Ag84Y

1005. MCFATE, K. Longer lines mean shorter hours. *Quonset Farmstead News* 2(6):8-10. Feb./Mar. 1955. 296.8 Q5

Electricity and water supply on the farm are two of the cheapest farm tools.

1006. MCMAHEN, D.H. Effect of improving technology on land values in the Mountain States. *Amer. Soc. Farm Managers & Rural Appraisers J.* 20:52-56. Apr. 1956. 281.8 Am32.

*Not examined.

The more productive and more level lands have increased in value more rapidly due to larger and better machines.

1007. MUCKLOW, B. Electric farming better than ever. *Elec. Farmer Dec.* 1955:8-9. 335.8 N27

1008. NAME IT and electricity does it on Nation's most highly electrified farm. *Elec. World* 142(13):42-43. Sept. 27, 1954. 335.8 EL2

1009. NEFF, G.C. Farm electrification in the United States of America. *World Power Conf. Sect. Meeting Pap.* 11(B4.3), 11 p. 1957. 290.9 W89.

History and advantages for farmer.

1010. OPERATION big switch; the Stamys; how they live and farm. *Farm J.* 78(9):65-67. Sept. 1954. 6 F2212

1011. RIXSE, J. H. Electricity comes to farms. *U.S.D.A. Yearbook Agr.* 1960:69-75. 1 Ag84Y

1012. RUNKLE, K.H. What is electrification doing for agriculture? *Gen. Elec. Rev.* 58(5):28-32. Sept. 1955. 335.8 G28

1013. SCHAENZER, J. P. Farming better electrically in the United States. *World Power Conf. Canad. Sect. Meeting Pap.* H(9), 15 p. Ref. 1958. 290.9 W89

Fourfold growth in 20 years.

1014. SCOVILLE, O. J., NELSON, L. B., and GREENSHIELDS, E. L. Land and advances in technology. *U.S.D.A. Yearbook Agr.* 1958:480-492. 1 Ag84Y

Increased production, reduced costs through electrification.

1015. SCOVILLE, O. J. Machines and farm organization. *U.S.D.A. Yearbook Agr.* 1960:389-395. 1 Ag84Y

1016. SEFEROVICH, G. H. Electricity -- down on the farm. *Farm Elec.* 13(1):3-5. Jan./Feb. 1959. 335.8 F224

1017. SHAFF, P. H., and MOSHER, D. We use electric power. *Power Supplier Conf. 4-H Farm & Home Elec. Program. Talks* 5:17-22. Nov. 30, 1955. 335.9 P87

Convenience and comfort as well as economy.

1018. *U.S. RURAL ELECTRIFICATION ADMIN.
Developing a better electric farming program. U. S.
Rural Elec. Admin. REA Bull. 140-9, 31 p. Sept. 1956.
1.933 R2293

1019. VAST potential farm market seen by industry
at power conference. Edison Elec. Inst. Bull. 29(9):
331-332, 352. Oct. 1961. 335.8 Ed4
For increased load and increased electrification.

1020. WEBB, L. We converted for efficiency. Elec.
Farm 31(2):8,9. Feb. 1958. 335.8 EL27

1021. WHITLOW, S. Are you farming the modern
way? Farmer-Stockman 57(8):12-13, 52. Aug.
1954. 6 Ok45
With electricity for greater comfort and efficiency.

Economic Value to Farmers

1022. ANDERSON, C. A. Economic status differen-
tials within southern agriculture. Rural Sociol.
19(14):50-67. Mar. 1954. 281.28 R88

1023. BELLERBY, J.R. The relative incidence on
agriculturists and on other groups of the benefits
resulting from technical change in agriculture.
Int. Conf. Agr. Econ. Proc. 9:134-156. 1955,
pub. 1956. 281.9 In82

Increased labor force and expanded agricultural
output but need for improved level of income.

1024. BENFORD, H. Power revolution the big
story in southern agriculture. Progr. Farmer,
Tex. Ed. 71(4):46, 86. Apr. 1956. 6 T311
Highest increase in electrification and level of
living in the South.

1025. BERTSCH, H. Policies to improve earning
opportunities for low income farmers. Agr. Policy
Rev. 3(2):8-9. Apr./June 1963. 281.28 Ag82
Industrialization and farm improvement.

1026. BISHOP, C.E. Economic obstacles to be
overcome in the Rural Development Program. South-
west. Social Sci. Ass. Agr. Econ. Sect. Proc.
1962:65-75. 281.9 So89

1027. BISHOP, C.E. The Rural Development Pro-
gram and underemployment in agriculture. J.
Farm Econ. 42(5):1196-1209. Ref. Dec. 1960.
*Not examined.

280.8 J822

Includes discussion by E. J. Nesius.

1028. CROUSE, E.F. Effect of improving tech-
nology on land values with special emphasis for
the South. Amer. Soc. Farm Managers & Rural
Appraisers J. 20(1):43-47. Apr. 1956. 281.8 Am32

1029. DERRY, R. K. Ohio utilities help the
farmer. Farm Elec. 8(4):10-14. July/Aug. 1954.
335.8 F224

Electricity programs to improve production,
income and living standards.

1030. DEWHURST, J.F. Technology: primary
resource. In his America's needs and resources,
p. 834-891. New York, Twentieth Century Fund,
1955. 280.12 D512

Includes technological gains in agriculture with
electricity.

1031. ELECTRICITY ups income Ag. engineers
told. Farm Power 13(9):12. Sept. 1956. 335.8 F227

1032. FREEMAN, O. L. Address before the Amer-
ican Farm Bureau Federation convention, Chicago,
Illinois, December 12, 1961. Washington, U.S.D.A.
Off. Sec., 1961. 23 p. A31.3 F87

Impact of technological advance.

1033. FREEMAN, O.L. Agriculture, today and
tomorrow. In U. S. Dept. of Agriculture. Grad-
uate School. Growth through agricultural pro-
gress; lecture series in honor of the United States
Department of Agriculture centennial year,
p. 63-74. Washington, 1961. A31.3 Ag82G

Impact of technological advance.

Also published separately. 15 p. 1961.
A31.3 F87

1034. FREEMAN, O.L. Sustaining the values of
the family farm; address at the annual banquet
of the Farmers Union Central Exchange, St. Paul,
Minnesota, March 13, 1962. Washington,
U.S.D.A. Off. Sec., 1962. 17 p. A31.3 F87

Can be the foundation of our economy only if
mechanized.

1035. FREEMAN, O.L. Testimony on the Food
and Agriculture Act of 1962, H.R. 10010 before
the House Committee on Agriculture, Wednesday,
February 7, 1962. Washington, U.S.D.A. Off.
Sec., 1962. 11 p. A31.3 F87

With technological revolution, productivity has doubled within 5 year period.

1036. GARVER, W.B. Technical change and the problem of manpower adjustment. *J. Farm Econ.* 40(5):1441-1454. Dec. 1958. 280.8 J822

Includes discussion by G.V. Haythorne.

1037. HAMMOND, L.H., and PRAEGER, H.A. Mechanized chore saves labor. *Elec. Farm* 29(3):10,11. Mar. 1956. 335.8 EL27

1038. HANSEN, R. The Farmer's servant-electricity. *Elec. Farmer* 12(2):9,26. Feb. 1960. 335.8 N27

1039. HARDIN, L.S. With farm income down, can we make our machinery and buildings earn more? *Farmers Guide* 11(16):6. Aug. 15, 1955. 6 In2
Fewer farms with electricity but more food.

1040. HEADY, E.O., and KRENZ, R.D. How big will our farms get? Report No. 2. *Iowa Farm Sci.* 16(5):3-5. Nov. 1961. 275.28 Io94

Costs and returns of mechanization.

1041. HOBBS, P.G. All-electric farms. Co-op. *Power* 11(10):10-11,18. Oct. 1954. 335.8 C78

Many advantages proven.

1042. IOWA members go all electric. *Rural Lines* 2(3):3-4. Aug. 1955. A335.8 R88

1043. JEERINGS, C.E. Serving a farm that's all-electric. *Farm Power* 14(10):8,9. Oct. 1957. 335.8 F227

1044. JOHNSON, B.D. Dividends through mechanization. *Elec. Farm* 31(4):4,5. Apr. 1958. 335.8 EL27

Saving of time and eliminating of hand labor.

1045. JOHNSON, B.D. What price mechanization? *Farm Elec.* 12(1):2,3,15. Jan.-Feb. 1958. 335.8 F224

1046. KENNEDY, B. Electricity does it better and cheaper. *Farm & Ranch Southern Agr. Southwest. Ed.* 84(10):16. Oct. 1954. 6 F22125

On the farm and in the dairy.

1047. KOFFSKY, N.M. A look at the farm market.

In U.S. Rural Electrification Admin. A summary of REA Power Use Conference, p.14-22. Washington, 1954. A335.9 R882

Financial situations of farmers.

Also published separately by Agr. Marketing Serv. 12 p. 1.941 A2K82

1048. MADDEX, R.L. Replace muscle power with electric power. *Hoard's Dairyman* 99:1083, 1098. Dec. 25, 1954. 44.8 H65

One year's electricity equal to 10 days' pay for hired hand.

1049. MASSACHUSETTS UNIVERSITY. DEPT. OF AGRICULTURAL ENGINEERING. Handling farm materials with conveyors. *Mass. Univ. Ext. Serv. Spec. Circ.* 250. 12 p. Oct. 1954. 275.29 M381Sc.

Saving time and labor through mechanization.

1050. OLIVER, J.H. Dollars and cents in farm electrification. *Farm Elec.* 10(2):4-6,15. Mar./Apr. 1956. 335.8 F224

Fastest way to large farm profits.

1051. O'ROURKE, B. Planning + electricity - diversification. *Colo. Rancher & Farmer* 8(13):8, 22. July 10, 1954. 6 C714

In Washington and Yuma Counties.

Increased income results for farmer.

1052. *PERKINS, B.G. The economic implications of farm mechanization. *Amer. Soc. Farm Managers and Rural Appraisers. J.* 24(1):27-32. Apr. 1960. Not in Nat. Agr. Libr.

Costs and returns.

1053. SCHWANZ, H.L. Let automatic controls do your chores. *Country Gentleman* 124(8):28, 40, 41. Aug. 1954. 6 C833

Low-cost, dependable electric slaves.

1054. STANFORTH, S.D. The role of electricity on dairy farms in the eastern dairy area of Wisconsin. *Wis. Univ. Coll. Agr. Dep. Agr. Econ. A. E.* 13, 12 p. Oct. 1954. 281.9 W75

Benefits standard of living and brings reduced costs.

1055. WORKS, D.W. Power-wise mechanize to reduce labor expense. *Farm Power* 14(6):19. June 1957. 335.8 F227

*Not examined.

Dairy Industry

1056. AUNE, H. J., and DAY, L.M. Determining the effect of size of herd and equipment on dairy chore labor. *J. Farm Econ.* 41(3):569-583. Aug. 1959. 280.8 J822
1057. AUNE, H. An economic analysis of labor inputs in dairying as affected by size of herd and types of equipment. *Diss. Abstr.* 19(4):611. Oct. 1958. 241.8 M58
For use in farm management.
Thesis (Ph.D.) - University of Minnesota, 1958. 189 p.
1058. BOWERS, J.D. Guideposts for automation: product quality aspects. *J. Dairy Sci.* 46(12):1440-1442. Dec. 1963. 44.8 J822
Not always efficiently applied in small quantities.
1059. CARSON, R.J. Custom milking; Iowa innovation provides centralized feeding, milking for individually owned herds. *Milk Dealer* 48(4):42,132. Jan. 1959. 44.8 M595
1060. CLAYTON, J.T., KLEIS, R.W., and GAUNT, S.N. Farmstead engineering for dairy farms. *Mass. Univ. Agr. Ext. Publ.* 351, 28 p. Feb. 1960. 275.29 M331L
Labor efficiency in materials handling.
1061. CUNNINGHAM, J.S. Modern day miracles - methods and machines. *Southern Dairy Prod. J.* 63(1):102-106. Jan. 1958. 44.8 So83
1062. ERB, J.H. Engineering needs of the modern dairy industry. *Dairy Eng. Conf. Proc.* 2:60-62. 1954. 44.9 D1482
1063. FENZAUI, C.J. Economics in farm dairy buildings. *U.S.D.A. Bull.* 153, 59 p. 1957. 1 Ag84 Ab
Mechanization as well as electrification.
1064. FORSLEW, J.H. Engineering the dairy plant of the future. *Dairy Eng. Conf. Proc.* 2:47-51. 1954. 44.9 D1482
1065. FRENCH, C.E. Will you be dairying in 1970? *Ind. State Dairy Ass. Annu. Rep.* 67:12-19. 1957. 44.9 In22
Greater milk consumption, fewer dairies, greater milk production, radically different electric equipment.
1066. HALL, C.W. Automation for the dairy plant. *Nat. Dairy Eng. Conf. Proc.* 10:8-16. Ref. 1962. 44.9 D1482
1067. HALL, C.W. Getting the most out of dairy equipment. *J. Milk & Food Technol.* 17:190-193. June 1954. 44.8 J824
Improved work methods and decreased time requirements.
1068. HAMILTON, L.C. Southern goal: double the milk-per-man. *Hoard's Dairyman* 107(11):637, 657. June 10, 1962. 44.8 H65
Mechanization in dairying.
1069. HAMMOND, L.H. How water requirements on dairy farms. *Farm Elec.* 11(2):4-5. Mar./Apr. 1957. 335.8 F224
1070. HAMMOND, L.H. Situation wanted: "steady dairy hand seeks work" - electricity. *Farm Elec.* 12(5):10-12. Sept./Oct. 1958. 335.8 F224
1071. HOLLAND, R.F., and WHITE, J.C. Automation for the small plant. *Amer. Milk Rev.* 22(3):118-120. Mar. 1960. 44.8 Am38
1072. HOPSON, G.H. How milking machine drove drudgery from dairy. *Fla. Grower & Rancher* 62(4):13, 32. Apr. 1954. 80 F6622
History of milking machines.
1073. HUNT, H.L. The emancipation of the dairyman. *Guernsey Breeders' J.* [Peterborough] 91:1026-1029, 1055. Aug. 1, 1954. 43.8 G93
Mechanizing of milking which constitutes 70 percent of chores and lowering of costs with inexpensive open housing.
1074. JUHREND, E. Objective evaluation of current trends in pneumatic operation of equipment. *Nat. Dairy Eng. Conf. Proc.* 11th Annu. Conf.:37-45. 1963. 44.9 D1482
1075. LUDINGTON, D.C., and TURNER, C.N. Milking parlor heating systems. *N. Y. Farm Elec. Counc. Progr. Rep.* 1962:30-35. 1963. 335.9 N485
1076. MCLAUGHLIN, T.E. Innovations in dairy

- industry engineering. Nat. Dairy Eng. Conf. Proc. 3: 50-52. 1955. 44.9 D1482
Better jobs for people including laborsaving.
1077. MADDEX, R.L. Electricity cuts dairy labor costs. Elec. World 144(6):80-82. Aug. 8, 1955. 335.8 EL2
One year's farm power bill equals one farmhand's monthly salary.
1078. MARCH, R.P. A camera's view of some automated plants. N.Y. State Ass. Milk Sanit. Annu. Rep. 35:81-87. 1961. 44.9 N4833
Great future for laborsaving and efficient automated plants.
1079. MERLIN, D. Automation for the present and the future in the dairy industry. Ice Cream Rev. 39(8):54, 55, 57, 70-72; 39(9):58, 59, 92, 94, 130, 132. Mar./Apr. 1956. 389.8 Ic22
Also in Milk Prod. J. 47(3):16, 17, 21, 22, 24, 47(4):8-11, 23, 24. Mar./Apr. 1956. 286.85 B98Bu
1080. MITTEN, H.L. The challenge ahead in dairy engineering. Nat. Dairy Eng. Conf. Proc. 5:93-96. 1957. 44.9 D1482
1081. MITTEN, H.L. Developments in dairy processing equipment. Milk Prod. J. 48(6):80-82. June 1957. 286.85 B98Bu
For laborsaving and more efficient methods.
1082. MOORE, D. How automation applies to your dairy. Nat. Dairy Eng. Conf. Proc. 6:26-30. 1958. 44.9 D1482
Automation of office procedures as well as processing.
1083. MORTON, G. Automation comes to the dairy. Calif. Dairyman 38(17):12-13, 22. Sept. 13, 1958. 44.8 C12
1084. *SCHAENZER, J.P. Newly engineered systems for handling materials on dairy farms. Washington, U.S. Rural Elec. Admin. 1958. 7 p. Not in Nat. Agr. Libr.
Talk presented at New England Rural Electrification Institute, University of Massachusetts, Amherst, Massachusetts, January 23, 1958.
Labor and costs with various methods and types of equipment.
1085. SCHWARZKOPF, V. Engineering a modern receiving room. Dairy Eng. Conf. Proc. 2:34-41. 1954. 44.9 D1482
1086. SEIBERLING, D.A. Automatization of dairy processing operations. J. Dairy Sci. 37:1019-1021. Aug. 1954. 44.8 J822
Complete automatic control possible.
1087. STEPHEN, D.M. Computers make more milk. Farm Quart. 18(3):44, 101-104. Fall 1963. 6 F22995
For less money.
1088. SULLIVAN, J.F. Dairyland - a shining example in a "goldfish bowl." Rural Elec. Mag. 13(5): 22-23, 60, 62. Feb. 1955. 335.8 N21
Electrification.
1089. TRACY, P. H. Automation in milk plants. Milk Indus. Found. Conv. Proc. 52(plant sect.): 26-35. 1959. 44.9 In8
A paper presented at the annual convention of the Milk Industry Foundation at Miami Beach, Fla., Oct. 9, 1959.
Portions of paper also in Milk Dealer 49(3): 140, 142-146. Dec. 1959. 44.8 M595
Also in South Dairy Prod. J. 66(5):120, 122-126, 128. Nov. 1959. 44.8 So83
1090. TRACY, P. H. Automation in the food industry necessary for survival. Nat. Dairy Eng. Conf. Proc. 10:1-7 1962. 44.9 D1482
Dairy industry.
1091. TRACY, P.H. Layouts and operating criteria for automation of dairy plants processing milk and half-and-half. U.S.D.A. Marketing Res. Rep. 568, 43 p. Mar. 1963. 1 Ag84Mr
1092. TRACY, P. H. Layouts and operating criteria for automation of dairy plants processing milk, half-and-half, cream, chocolate drink, and buttermilk. U.S.D.A. Marketing Res. Rep. 591, 47 p. Sept. 1963. 1 Ag84Mr
1093. TRACY, P. H. Principles and trends in automation. Nat. Dairy Eng. Conf. Proc. 9:2-6. 1961. 44.9 D1482
1094. TURNER, C. N. Electric heat for milking parlors. N. Y. Farm Elec. Counc. Progr. Rep. 1960:27-30. 1961. 335.9 N485

*Not examined.

1095. TURNER, C. N., and LUDINGTON, D. C. Electric--refrigerant water heater. N. Y. Farm Elec. Counc. Progr. Rep. 1962:22-29. 1963. 335.9 N485

1096. TURNER, C. N., and LUDINGTON, D. C. Heating milking parlors electrically. N. Y. Farm Elec. Counc. Progr. Rep. 1961:22-27. 1962. 335.9 N485

1097. WALKER, P. Electrical controls regulate milk production. Elec. S. 43(3):46-47,135. Mar. 1963. 335.8 EL234

Poultry Industry

1098. BARNES, K.K. "Space age" engineering in agriculture. Implement & Tractor 75(11):35. May 28, 1960. 58.8 W41

New machines in the poultry industry.

1099. BOSS of 50,000 chickens; power's the least of my worries. Rural Lines 7(8):12-14. Jan. 1961. A335.8 R88

1100. BRESSLER, G.O. Electricity with automation, a poultryman's helping hand. Egg Prod., East. Ed. 92(10):12-13. Oct. 1961. 47.8 Am32

1101. BRESSLER, G.O. Mechanization pays its way and then some, with poultry. Farm Power 17(10):10,11. Oct. 1960. 335.8 F227

1102. DITCHMAN, J.P. Power and light; extra hired hands in modern laying house. Poultry Tribune 66(3):16,56,58. Mar. 1960. 47.8 P8642

1103. GINN, O.W. Electricity vs. L.P. gas for commercial broiler production. Farm Elec. 10(6):1,2. Nov./Dec. 1956. 335.8 F224

Electric equipment proved satisfactory from all standpoints.

1104. HIENTON, T.E., and AHRENS, M.C. Electrical operation, and means of automation used, in large poultry farms for the maintenance of egg-laying poultry and the raising of "broilers." UN Econ. Soc. Counc. Econ. Comm. Europe. Comm. Elec. Power Rural Elec. E/ECE/EP/178:117-133. 1963. 335 UN3952

1105. JASPER, A.W. Pushbutton poultry houses. Nat. Agr. 36(3):16-17. Mar. 1961. 280.82 B89

1106. JENKINS, W.R. Labor saving devices for poultry houses. (Abstr.) Poultry Sci. 38(5):1216-1217. Sept. 1959. 47.8 Am33P

1107. LERT, P.J. Good lighting pays off. Poultry Tribune 64(10):18,48. Oct. 1958. 47.8 P8642
Hints on economy and greater efficiency.

1108. MUIR, J. Automation of caged layers. Farm Quart. 14(4):87,132-138. Winter 1960. 6F22995
Almost entirely through electrification.

1109. REED, M.S. Automatic poultry houses. Farm Quart. 9(3):70-73. Autumn 1954. 6F22995
Completely electrified poultry houses saving time and money.

1110. RICKEY, L.F. Equipment for bulk handling and mechanical feeding and other products. Hatchery & Feed 31(5):35,38,41. May 1957. 47.8 H28
Receiving increasing importance.

1111. SCHAEENZER, J.P. Revolutionizing farm production through electromation. Rural Lines 9(2):12-14. July 1962. A335.8 R88
Chiefly poultry.

1112. SNODGRASS, O.D. Automation: is it for you? Broiler Indus. 27(6):60. June 1964. 47.8 N45

Criteria to consider.

1113. STEMBERGER, A.P. Ideas for cutting labor. Poultry Tribune 69(6):26,28. June 1963. 47.8 P8642

Equipment and management on egg farms.

1114. TURNER, C.N. Environmental control for laying hens. N. Y. Farm Elec. Counc. Progr. Rep. 1962:17-21. 1963. 335.9 N85
Electrical ventilating.

1115. VAN ARSDALL, R.N. Economic analysis of the use of labor and equipment in egg production on Illinois farms. Diss. Abstr. 17(6):1172-1173. June 1957. 241.8 M58
Thesis (Ph.D.) - University of Illinois, 1957. 253 p.

1116. WALTERS, R.E., CHILDS, R.E., and WHITE, H.D. An experimental dual track conveyor system for processing poultry. U.S.D.A. Marketing Res. Rep. 651, 24 p. May 1964. 1 Ag84Mr
Georgia Agricultural Experiment Stations, co-operating.

Other Agricultural Products

1117. ASHBROOK, F.G. Butchering, processing and preservation of meat. New York, Van Nostrand, 1955. 318 p. 50 As3

1118. BARMINGTON, R.D. A progress report on mountain meadow hay harvesting. Colo. Agr. Exp. Sta. Gen. Ser. 776, 12 p. Mar. 1962. 100 C71G
Includes drying.

1119. BRUHN, H.D. We ought to have more hay driers. Hoard's Dairyman 105(7):383, 394. Apr. 10, 1960. 44.8 H65

1120. CHANGING patterns: automation is coming, maybe slow or fast. Nat. Provisioner 139(15):104-107. Oct. 11, 1958. 286.85 N21

Panel discussion on the meat industry; members include R. Batcher, H. Gillman, and R. Ransom.

1121. COATES, E.S. Artificial hay drying does pay. Carolina Farmer 9(4):8-9, 25. Apr. 1954. 6 C223

1122.

1122. COLWELL, E. How should you make hay? Org. Gard. & Farming 1(3):60, 62-65. Mar. 1954. 57.8 Or32

1123. DOBIE, J.B., and PARKS, R.R. Barn mow haydrying for better quality hay. Calif. Agr. Exp. Sta. Circ. 454, 19 p. May 1956. 100 C12S

1124. DOTY, D.M. Meat preservation--past, present, and future. Amer. Meat Inst. Found. Circ. 13, 11 p. Jan. 1955. 50.9 Am322C

1125. ENSMINGER, M.E. Automation and integration in the livestock industry. Amer. Grassland Counc. Grassland Proc. 1959:85-96. 60.19 J66

1126. ENSMINGER, M.E. Is automation your key for more profits? Livestock Breeder J. 7(7):132, 134-136. July 1964. 49 L758
Chiefly in livestock industry.

1127. GEORGIA. ENGINEERING EXPERIMENT STATION. Annual progress report, project No. 147; efficient picking, transporting, handling, storing, and shelling of farmers' stock peanuts, by T.O. Elliott and B. W. Carmichael. Atlanta, 1955. 40 p. 77.9 G29

Georgia Agricultural Experiment Station, co-operating.

1128. HILGELAND, P.H. Developments in meat processing plant. Food Trade Rev. 32(10):38-40. Oct. 1962. 389.8 F7334

1129. IASKA, R.C. The sweet potato goes electric. (Abstr.) Ass. Southern Agr. Workers Proc. 51:27. 1954. 4 C82
Electrical equipment on the sweet potato farm.

1130. KJELGAARD, W.L. Hay drying with selected infrared sources. Amer. Soc. Agr. Eng. Trans. ASAE 6(4):324, 327. 1963. 290.9 Am32T

1131. KNOOP, F. 5 automated livestock farms. Farm Quart. 14(1):80-85. Spring 1959. 6 F22995
Advantages - many and varied.

1132. MACDOUGALL, J. Automation. Nat. Provisioner 137(14):84-91. Oct. 5, 1957. 286.85 N21

1133. MCKENZIE, B. Farmstead mechanization: breaking the bottleneck to efficient livestock production. Implement & Tractor 74(20):22-25. Oct. 3, 1959. 58.8 W41

1134. MATHIA, G.A., KING, R.A., and MANN, M.G. Planning data for the sweet potato industry. 3. Selection of the optimum number, size and location of processing plants in eastern North Carolina. N. C. State Coll. Agr. & Eng. Dept. Agr. Econ. A.E. Inform. Ser. 97, 75 p., maps. Dec. 1962. 281.9 N816
Mechanization.

1135. MATHIA, G.A., and KING, R.A. Planning data for the sweet potato industry. 4. Costs and returns from curing, storing, grading and packing sweet potatoes. N. C. State Coll. Agr. & Eng. Dept. Agr. Econ. A.E. Inform. Ser. 108, 33 p. Dec. 1963. 281.9 N816
Mechanization.

1136. MATHIA, G.A. Selection of the optimum

number, size and location of processing plants: an application to the sweet potato industry of eastern North Carolina. Diss. Abstr. 23(10):3659-3660. Apr. 1963. 241.8 M58

Thesis (Ph.D.) - North Carolina State College, 1962. 135 p.

1137. NEW WAYS to make good hay. Farm Quart. 10:36-39,138-143. Spring 1955. 6 F22995

All-purpose driers, advantageous and less expensive if with electric power.

1138. POYNOR, R.R. Automation in the livestock industry. Wash. State Univ. Dept. Anim. Sci. Stockmen's Handbook 1961:130-132. 49.9 W27

1139. PUCKETT, H.B. Machines to help with chores. U.S.D.A. Yearbook Agr. 1960:242-250. 1 Ag84Y

Livestock.

1140. RALL, E. Electricity and cattle feeding. Elec. Farmer 8(2):10-11,26. Feb. 1954. 335.8 N27

1141. RAMSER, J. H., ANDREW, F.W., and KLEIS, R.W. Better hay by forced-air drying. Ill. Univ. Agr. Ext. Circ. 757,12 p. Apr. 1956. 275.29 IL62C

1142. ROE, J.C. New peanut shelling plant attracts much attention. Peanut J & Nut World. 35(5): 21,52. Mar. 7, 1956. 77.8 P313

1143. SAMUEL, O.C. Automated boning. Food Process. 25(3):90-91,94,96,101. Mar. 1964. 389.8 F7325

Laborsaving and economical for sausage manufacture.

1144. SCHOLL, J.M. Can we afford to mechanize haymaking? Hoard's Dairyman 100:551,555. June 10, 1955. 44.8 H65

Costs.

1145. SCOTT, G.L. Changing patterns: their effect on operations in the meat processing plant. Nat. Provisioner 139(15):95-98. Oct. 11, 1958. 286.85 N21

1146. SELONKE, P. Mechanization cuts costs for Arizona feeders. Rec. Stockman, Annu. Ed. 64(53):164-165. Dec. 31, 1953. 49 D43

1147. SHELDON, W. H., and others. Mechanical hay driers. Mich. State Univ. Ext. Bull. 376, 23 p. Oct. 1961. 275.29 M58B

D.E. Wiant, D. Hillman, and S.T. Dexter, joint authors.

1148. SINGLEY, M.E. Haydrying overnight. What's New in Crops and Soils? 8(7):16-18. Apr./May 1956. 6 W55

Costs and certainty of success measured.

1149. TETER, N.C. Peanut curing as related to mechanization. Agr. Eng. 35:568-569,573. Aug. 1954. 58.8 Ag83

1150. VAN ARSDALL, R. Automation in the cattle feedlot. Ill. Res. 2(3):8-9. Summer 1960. 100 IL64

1151. YAW, W. "We're going to feed 75,000 cattle per year!" Farm Quart. 18(1):64-67,167. Spring 1963. 6 F22995

Mechanization in the Corn Belt area.

1152. ZIEMBA, J.V. Their new-style processing improves old-style quality. Food Eng. 26(9):87-88,91. Sept. 1954. 389.8 F737

Mostly for sausages but includes other meats.

Rural Life

1153. BAKER, J.A. The disadvantaged: what of the future; talk before the annual conference of the American Country Life Association, Raleigh, North Carolina, July 10, 1963. Washington, U.S.D.A., 1963. 16 p. A281.29 B17

Programs to eliminate rural poverty.

1154. BAKER, J.A. Rural community development - basic problems, new solutions; talk before the 90th Annual Forum of the National Conference on Social Welfare. Cleveland, Ohio, May 23, 1963. Washington, U.S.D.A., 1963. 13 p. A281.29 B17

Rural Areas Development Program.

1155. BAKER, J.A. The United States' experience. Agr. Inst. Rev. 18(4):10-14,26. July/Aug. 1963. 7 Ag8

Rural Areas Development Program with job and economic opportunities through technology and electricity.

1156. BAKER, J.A. When people meet, discuss, and act. U.S.D.A. Yearbook Agr. 1963:573-578. 1 Ag84Y
Rural development with involvement of REA.
1157. BERTRAND, A.L. Impact of industrial development on rural levels of living. Ass. Southern Agr. Workers Proc. 55:29, 31. Feb. 3, 4, 5, 1955. 4 C82
Rural electrification's role substantial.
Includes discussion by W.B. Back.
1158. BERTRAND, A.L., and OSBORNE, H.W. The impact of industrialization on a rural community. J. Farm Econ. 41(5):1127-1134. Dec. 1959. 280.8 J822
Impact on agriculture as well.
1159. BLUEPRINT for rural development (Minuteman background feature). Rural Elec. Minuteman 140:3. June 30, 1961. 335.8 R8895
1160. BOOTH, E.J.R. Economic development in eastern Oklahoma until 1950: the impact of a rigid settlement pattern, meager industrialization and agricultural adjustment in a low-income rural area. Diss. Abstr. 22(4):1039. Oct. 1961. 241.8 M58
Thesis (Ph.D.) - Vanderbilt University 1961. 319 p.
1161. CHASTAIN, E.D. Incentives for rural resource development. Ass. Southern Agr. Workers Agr. Econ. & Rural Sociol. Sect. Proc., 60th Annu. Conv., v.2:263-276. 1963. 4 As73Pa
1162. COLON-TORRES, R. The sociological and cultural problems associated with technical change in agriculture. Int. Conf. Agr. Econ. Proc. 9:107-123. 1955, pub. 1956. 281.9 In82
Includes discussion.
Transfer of people out of agriculture a natural consequence.
1163. FANNING, J.W. The socio-political-economic framework of agriculture in the rural-urban fringe. J. Farm Econ. 44(5):1707-1717. Dec. 1962. 280.8 J822
Includes discussion by E.L. Sauer.
1164. GLASGOW, R.B., and BAUM, E.L. Considerations for planning economic development of rural areas. J. Farm Econ. 45(5):1083-1091. Dec. 1963. 280.8 J822
Includes discussion by W.W. McPherson.
1165. HEXHUIS, D.J., and others. Rural electrification and rural development. In United States papers prepared for the United Nations Conference on the application of science and technology for the benefit of the less developed areas p.74-82. Geneva, Switzerland, 1963. 280.9 Un3982
T.U. Paine, F.L. Turner, G. Street, E.G. Alderfer, joint authors.
1166. HIGH interest shown in rural area development; conference sponsored by NRECA. Washington, May 14-15. Elec. World 155(22):48-49. May 29, 1961. 335.8 EL2
1167. HILL, H.L. Public rural renewal in communities. U.S.D.A. Yearbook Agr. 1963:419-422. 1 Ag84Y
Land use and development.
1168. JOHNSON, S.E. The meaning of technical change in the context of the agricultural economy of different environments. (f). North America. Int. Conf. Agr. Econ. Proc. 9:66-86. 1955, pub. 1956. 281.9 In82
Mechanization means reduction in chore jobs and increased output, more cultural opportunities, better schools and greater urban contacts.
1169. KELLEY, G.A. The role of the family on the cooperative frontier. Amer. Coop. 1961:116-118. 280.29 Am3A
1170. LARSON, O.F. Social changes in a farmer's community. N. Y. State Ass. Milk Sanit. Annu. Rep. 34:143-150. 1960. 44.9 N4833
Two rural non-farm residents for each farm resident.
1171. METZLER, W.H. Socioeconomic aspects of manpower adjustments; low-income rural areas. Rural Sociol. 24(3):226-235. Sept. 1959. 281.28 R88
A continuous flow from agriculture into large urban centers.
1172. MILLER, P.A. The impact of technological advances in agriculture. In West Virginia. University. College of Agriculture. The development of the land-grant colleges and universities and their influence on the economic and social life of the people p.17-28. Morgantown, W. Va. 1963.

275.1 W52

Electrification has influenced all aspects of rural life.

1173. MORE JOBS for rural areas. Rural Elec. Minuteman 131:4. Apr. 28, 1961. 335.8 R8895

1174. NELSON, L. Rural life in a mass society. Rural Sociol. 22(1):20-30. Mar. 1957. 281.8 R88

1175. NEW FRONTIER for cooperative action; rural areas development program. Rural Lines 8(1):3-5. June 1961. A335.8 R88

1176. NEW LIFE in Alabama's hill country. Rural Lines 4(8):14-17. Feb. 1958. A335.8 R88
With Rural Areas Development.

1177. NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. Planning a development program for your county. N. C. State Agr. Coll. Ext. Circ. 441, 19 p. Aug. 1963. 275.29 N811
Availability of electric power an important asset to consider.

1178. PENN, R.J. Education and technical assistance for rural development. J. Farm Econ. 45(5):1051-1060. Dec. 1963. 280.8 J822
Includes discussion by B.T. Lanham.

1179. RAD PROJECTS moving on many rural fronts. Rural Lines 9(8):3-17. Jan. 1963. A335.8 R88

1180. RECREATION is a growing business. Rural Lines 9(1):10-11. June 1962. A335.8 R88

1181. SHEPPARD, H.L. The potential contribution of the Rural Areas Development Program to economic growth in rural areas. Southwest. Social Sci. Ass. Agr. Econ. Sect. Proc. 1962: 43-53. 281.9 So89
Includes discussion by J.S. Plaxico.

1182. SMITH, M.G., and MITCHELL, J.B. What kind of rural America will tomorrow find? Social and economic changes are occurring that will bring about completely different rural communities. Better Farming Methods 34(6):8-9, 20-21. June 1962. 58.8 B46

1183. SPORE, R.G. Power districts contribute to rural education. Elec. Farmer 9(10):9, 19. Oct.

1955. 335.8 N27

1184. STERN, J.K. Cooperatives never did anything for me! Rural Elec. Mag. 22(6):24-25. Mar. 1964. 335.8 N21

Electric cooperatives and their effect on the farms.

1185. STRUNK, F.C. Depressed area. Rural Elec. Mag. 19(8):34, 35. May 1961. 335.8 N21
Need for area redevelopment.

1186. TAYLOR, G.W. An analysis of certain factors differentiating successful from unsuccessful farm families in two counties in Alabama. Diss. Abstr. 19(2):382-383. Aug. 1958. 241.8 M58
Social and psychological characteristics.
Thesis (Ph.D.) - University of Wisconsin, 1958. 282 p.

1187. WADDLE, F. Government moves to help low-income rural areas. Better Farming Methods 33(7):16-17, 29. July 1961. 58.8 B46
Public Law 87-27 (the depressed areas bill) and the expanded Rural Areas Development Program. REA one of 11 board members.

1188. WHAT A growth area looks like. Rural Lines 9(1):18-19. June 1962. A335.8 R88

1189. WILEDEN, A.F. A new look at our changing rural society. Nat. Conf. Rural Health [Proc.] 13:4-9. 1958. 449.9 N214
Electricity - included in the rise of technology.

Commercial and Industrial Development

1190. ANDREWS, W.H., BAUDER, W.W., and ROGERS, E.M. Benchmarks for rural industrialization: a study of rural development in Monroe County, Ohio. Ohio Agr. Exp. Sta. Res. Bull. 870, 34 p., map. Nov. 1960. 100 Oh3S
U.S. Department of Agriculture, cooperating.

1191. BREDO, W. Rural industrialization for agricultural development. J. Farm Econ. 41(5):1332-1344. Dec. 1959. 280.8 J822

1192. CO-OP helps local industries. Rural Lines 8(10):14-15. Mar. 1962. A335.8 R88

1193. HARLAN, R.K., and NEWBERG, R.R. Analysis of costs and problems involved in a program for

stimulating movement of land and human resources from agriculture in Gallia County, Ohio. Ohio State Univ. Dept. Agr. Econ. & Rural Sociol. A. E. 332, 36 p., map. Sept. 1962. 281.9 Oh32

Stimulation of land and labor retirement from agriculture, including economic and social characteristics of the population, standard of living, and land use.

1194. JONES, J.H. Some effects of industrialization in rural areas. (Abstr.) Ass. Southern Agr. Workers Proc. 56:27,28. 1959. 4 C82
Rural areas development.

1195. *LACHLAN, I.D. Rural electrification builds jobs. Off. Exec. 36(3):34-35. Mar. 1961. Not in Nat. Agr. Libr.

1196. MURRAY, W.E. New jobs for Bedford. Rural Elec. Mag. 2(7):24-25. Apr. 1963. 335.8 N21
Electric cooperative.

1197. NATURAL resources, local products, unique ideas spark Kentucky industries. Rural Lines 8(11):10-14. Apr. 1962. A335.8 R88

1198. NODAK promotes home grown industries. Rural Lines 8(3):9-13. Aug. 1961. A335.8 R88
North Dakota Electric Cooperative.

1199. OSWALD, H. Pay as you go industrial development. Rural Elec. Mag. 19(5):16,17. Feb. 1961. 335.8 N21
Rural development.

1200. OWENS, G.P. Income potential from outdoor recreation enterprises in rural areas in Ohio. Ohio Agr. Exp. Sta. Res. Bull. 964, 51 p. map. Feb. 1964. 100 Oh3S
U.S. Dept. of Agriculture, cooperating.
Of value in the Rural Areas Development Program.

1201. POWER payrolls and progress; northern Mississippi's 43,000 new jobs. Rural Lines 8(1):6-11. June 1961. A335.8 R88

1202. RODGERS, T.V. Co-ops help bring new industries to rural areas in Oklahoma. Rural Elec. Mag. 22(12):36-40. Sept. 1964. 335.8 N21

1203. SMITH, R.C. REMC in Indiana takes the lead in helping its community make jobs. Rural
*Not examined.

Elec. Mag. 19(8):18,19. May 1961. 335.8 N21
New rural industries.

1204. STEWARD, D.D. Employment, income, and resources of rural families of southeastern Ohio. Ohio Agr. Exp. Sta. Res. Bull. 886, 63 p., map. June 1961. 100 Oh3S

U.S. Department of Agriculture, cooperating.
Suitable for industrialization because of high electrification.

1205. TAYLOR, G. Your co-op's stake in Federal power development. Rural Elec. Mag. 16(2):18, 19, 54, 56. Nov. 1957. 335.8 N21

1206. WALLACE, L.T. Factors affecting industrial location in southern Indiana, 1955-1958. Ind. Agr. Exp. Sta. Res. Bull. 724, 24 p., map. Ref. Aug. 1961. 100 In2P

With reference to solving the surplus agricultural labor problem and providing information for the Rural Areas Development Program. In a survey, electricity was considered the most important utility.

1207. WANTED: more rural employment; factory in the farmyard. Rural Lines 8(1):12-18. June 1961. A335.8 R88

PERIODICAL PUBLICATIONS OF STATEWIDE ASSOCIATIONS OF COOPERATIVES

Alabama Rural Electric News
John W. Ford, Editor
P. O. Box 2568
Montgomery, Alabama 36105

Rural Arkansas
Ed H. Thomas, Editor
P. O. Box 510
Little Rock, Arkansas 72203

Colorado Rural Electric News
Conrad Blomberg, Editor
617 Majestic Building
Denver, Colorado 80202

Florida Rural Electric News
Ben Pitts, Editor
Suite 525
Florida National Bank Building
Jacksonville, Florida 32202

Rural Georgia
Walter Harrison, Editor
Box 929
Millen, Georgia 30442

Illinois Rural Electric News
John F. Temple, Editor
Box 1180
Springfield, Illinois 62705

Indiana Rural News
Jerry Davis, Managing Editor
29 West 9th Street
Indianapolis, Indiana 46204

Iowa Rural Electric News
Weston R. Ritchie, Editor
323 University Avenue
Des Moines, Iowa 50314

Kansas Electric Farmer
Betty Jean Stanford, Editor
420 West 9th Street
Topeka, Kansas 66612

Rural Kentuckian
Dick Littrell, Editor
4515 Bishop Lane
Louisville, Kentucky 40218

Rural Louisiana
Mark H. Bonner, Jr., Editor
Box 749
Opelousas, Louisiana 70570

Rural Minnesota News
Donald J. Kelly, Managing Editor
Box 250
Alexandria, Minnesota 56308

Mississippi EPA News
Howard Langfitt, Editor
319-323 Farm Bureau Building
Box 1963
Jackson, Mississippi 39205

Rural Electric Missourian
Marion McGee, Editor
430 Madison Street
Jefferson City, Missouri 65101

Montana Rural Electric News
Virgil Cory, Editor
410 Metropolitan Building
227 16th Street
Denver, Colorado 80202

Nebraska Electric Farmer
Lucille A. Clema, Editor
216 No. 11th Street
Box 2031
Lincoln, Nebraska 68501

New Mexico Electric News
James B. Colegrove, Editor
208 Petroleum Building
Santa Fe, New Mexico 87501

The Carolina Farmer
Richard A. Pence, Editor
914 First Citizens Bank Building
Box 1699
Raleigh, North Carolina 27601

North Dakota Rural Electric Magazine
Leland G. Ulmer, Editor
Box 1077
Bismarck, North Dakota 58501

Country Living
Howard Cummins, Editor
4302 Indianola Avenue
Columbus, Ohio 43214

Oklahoma Rural News
Charles D. Rhoades, Editor
2726 North Oklahoma Street
Oklahoma City, Oklahoma 73105

Northwest Ruralite
Henry Alderman, Editor
P. O. Box 1731
Portland, Oregon 97207

Living in South Carolina
Coy Bayne, Editor
808 Knox Abbott Drive
Cayce, South Carolina 29033

South Dakota High-Liner
Tom Fennell, Editor
Box 157
Huron, South Dakota 57350

The Tennessee Magazine
John E. Stanford, Editor
710 Spence Lane
Nashville, Tennessee 37210

Texas Co-op Power
Bill Lewis, Editor
8140 Burnet Road
P. O. Box 9248 (Allandale Sta.)
Austin, Texas 78756

Rural Virginia
Fletcher Cox, Editor
205 W. Franklin Street
Richmond, Virginia 23220

Wisconsin REC News
Les Nelson, Editor
Box 686
Madison, Wisconsin 53701

Wyoming Rural Electric News
Virgil Cory, Editor
410 Metropolitan Building
227 16th Street
Denver, Colorado 80202

AUTHOR INDEX

- Aandahl F 17
 Abrams E R 309
 Ahrens M C 1104
 Aiken C R 124, 594
 Aiken G D 19, 224, 363
 Albrecht C F 618, 685
 Alderfer E G 1165
 Allwarden J C 554
 Altman L B 386-390,
 595-596, 908
 Ambrosius C C 391
 American Farm Bureau
 Federation 95
 American Institute of Electrical
 Engineers 710
 American Society of Agri-
 cultural Engineers 208, 682
 Anderson C A 1022
 Anderson E D 208
 Anderson F F 392
 Anderson J L 226
 Andrew F W 577, 619-620,
 646, 1141
 Andrews W H 621, 1190
 Angerer C L 664
 Ardery P P 1
 Arnett W W 393, 738
 Arnold D 394
 Ashbrook F G 1117
 Ashby W 628
 Askegaard D H 2
 Auer G G 782
 Aune H J 1056-1057
 Ausloss K M 739
 Awbrey B 255

 Back W B 1157
 Baker J A 20, 209-210,
 793, 1153-1156
 Bale A G 774
 Ball C E 683
 Barmington R D 1118
 Barnes K K 1098
 Barton H F 555
 Batcher R 1120
 Batdorf R O 624
 Battin R 983
 Bauder W W 1190

 Bauer J 256
 Baum E L 1164
 Beaty H H 597
 Becker A E 711
 Becker C F 821
 Becker R J 489
 Beery V R 598
 Behm H J 911
 Beller I 342
 Bellerby J R 1023
 Benanchiatti O E 490
 Benford H 1024
 Bennett G K 491
 Bennion H S 3
 Benson E T 21, 339, 625
 Benz R C 561
 Berg R W 669
 Bertrand A L 626, 1157-1158
 Bertsch H 1025
 Beveridge E 755
 Bidlack S F 556
 Binkley W C 227
 Bishop C E 1026-1027
 Bishop F E 662
 Bishop N E 85
 Biven W C 627
 Bixler O L 822
 Black W R 557
 Blalock H W 178, 257,
 310, 741, 883
 Bliss J A 311
 Blomberg C 86
 Booth E J R 1160
 Bowen R 558-559, 984
 Bowers J D 1058
 Boyd J S 821
 Bradburn J E 823
 Brannen S J 912
 Bredahl A C 560
 Bredo W 1191
 Bressler G O 492, 1100-1101
 Brodell A P 493-494
 Brown D 228
 Brown J C 87
 Brown O A 495
 Brown R H 496, 712, 723
 Bruhn H D 1119

 Bryant D E 88, 599
 Bryngelson L 742
 Buckingham F 643
 Butz E L 396

 Cahill J C 913
 Calderwood D L 397
 Campbell J Comptroller
 General of the United States
 288, 298, 364-365, 376
 Campbell L E 497, 985
 Carleton W M 628, 653
 Carmichael B W 1127
 Carmody J M 794
 Carolina Power and Light Co
 398
 Carson R J 1059
 Castalde P A 258
 Cavert W L 629
 Chambliss R L 498
 Charity L F 386, 390, 595-596
 Charlton J L 626
 Chase M A 400, 884
 Chastain E D 1161
 Chesness J L 561
 Chessher A H 128
 Childs R E 1116
 Christensen R P 914
 Chudoff Repr Earl 350
 Chunglo C F 986
 Clapp G 824
 Clapp N M 22-26, 89-90, 97,
 129-130, 201, 212-214, 259, 401,
 795, 885-886, 898, 907
 Clayton J T 630, 1060
 Cleaveland V M 743
 Coates E S 1121
 Cobb J R 402
 Cochran C L 229, 341-342
 Colon-Torres R 1162
 Colwell E 1122
 Comar C L 825
 Conference on Rural Development
 Program, Memphis, Tenn 915
 Cook W N 562
 Cooley O W 91
 Cooper D H 45

Numbers refer to items in list.

Cooper M R 494
 Corty F L 916
 Craigie C F 917
 Crann L B 776
 Crisp W T 231, 405, 746
 Cronin R E 181-183
 Cross C L 826
 Crouse E F 1028
 Cunningham J S 1061

 Daniels F 827
 Davis H R 563
 Davis J 132
 Davis J F 987-990
 Day L M 1056
 Deacon R E 918
 Dean G W 631
 Deforest S S 632
 Dell R A 406
 Derry R K 1029
 Dewhurst J F 1030
 Dexter S T 1147
 Diesslin H G 260, 991
 Dineen M P 94
 Ditchman J P 1102
 Dobie J B 1123
 Doherty J C 27, 135
 Doty D M 1124
 Dougherty C J 185
 Dowdy G T 919
 Dressen P A 747
 Duckham A N 684
 Duffie J A 827
 Duncan C S 500

 Eastman E R 828
 Edison Electric Institute 748
 Edmunds W M 776
 Elliott T O 1127
 Ellis C T 6-7, 28, 136-
 139, 187, 204, 221, 261, 323, 407,
 749-750, 995
 Ellis S W 603
 Ellsworth R H 921
 Endahl L 232, 503
 Ensminger M E 1125-1126
 Erb J H 1062
 Ewing C G 837

 Fain C J 263
 Fanning J W 1163
 Farmer Research Dept
 505-506

 Farrall W W 685
 Farris M T 751
 Fenzau C J 1063
 Fischer J L 82, 98
 Fitton H N 507
 Flikke A M 508
 Florence E H 30
 Ford K E 997
 Forman J 830
 Forslew J H 1064
 Forsyth S L 604
 Foss E W 509
 Fossum D 566
 Foster C 31
 Fox K 510
 Freeman A L 889
 Freeman O L 32, 141-142,
 215, 633, 922-924, 1032-1035
 French C E 511, 1065
 French E W 616
 Frick G E 512
 Fuller R G 911

 Galvin T F 428
 Gangwer H G 831
 Garver W B 1036
 Garwood J D 33-35, 190,
 267-268
 Gates T V 269
 Gaunt S N 1060
 Gebhardt M H 799
 Geddings M T 567
 George E O 568
 George J M 925
 Georgia Agricultural
 Experiment Station 1127
 Georgia Engineering Experiment
 Station 1127
 Gibbs H 998
 Gildehaus E J 999
 Giles G W 686
 Gilliland C B 800
 Gillman H 1120
 Gilmore K O 36
 Ginn O W 1103
 Glasgow R B 1164
 Golding E W 832
 Goldman J E 833
 Gorrin L 367
 Goudy M P 412
 Gray A H 717
 Greenshields E L 1014
 Gregory R W 664

 Gross W E 718-719
 Grube H S 569
 Gruening E 233
 Guest R W 616
 Gunlogson G B 635
 Gunn T 37, 191-192
 Gussett N B 1000
 Gutsch N V 636

 Hafstad L 834
 Hamil D A 38, 100, 143-144, 234,
 313, 378, 413-415, 801
 Hall C W 637, 701, 1066-1067
 Hall F 1001
 Hall N S 687
 Halterman A E 570
 Hamilton C 39
 Hamilton C L 513-514
 Hamilton L C 1068
 Hamilton J R 720-721
 Hammond L H 1037, 1069-1070
 Hanlon V T 802
 Hansen H J 638
 Hansen R 1038
 Hardin L S 1039
 Harlan R K 1193
 Harmston F K 979-981
 Harrison W 145
 Hartung T E 417
 Harvey R G 571-572
 Hassett J J 40
 Hausler R M 146, 515
 Haythorne G V 1036
 Heady E O 639, 1040
 Helm J 41
 Hemker W D 516-517
 Henderson G E 926
 Hendrix R S 8
 Herriott V H 418-419, 753
 Hertz C F 927
 Hewes L I 928
 Hexhuis D J 1165
 Hickman E 640
 Hienton T E 421, 688-690, 929-
 930, 1104
 Hildebrand T F 606
 Hilgeland P H 1128
 Hill H L 1167
 Hillier J 691
 Hillman C H 422
 Hillman D 1147
 Hinrichs H S 9
 Hobbs P G 1041

- Hodges C E 573
Hodgson E 235
Holland R F 1071
Hollister S C 314
Holstein L F 423
Hooper C S 722
Hopson G H 1072
Horton J K 931
Hosford J 932
Hougan M C 641
Hout F 933
Howe E D 935
Humphrey H H 352, 358, 340, 692
Hunt D 642
Hunt H L 1073
Hunter F M 936
Hurst R L 937
Hyre F M 101
- Implement and tractor, a periodical 643
Innes F R 519
Inter-industry Farm Electrification Council 475, 520
International Labor Office 938
Isaacs G W 521-522
Ishida J T 148
- Jacobson P 701
Jaska R C 1129
Jasper A W 1105
Jay R 523
Jebe E H 387-389
Jeerings C E 1043
Jeffers J 524, 574
Jenkins W R 1106
Jenness J 42-43, 236
Jewett L J 644
Jochimsen L N 939
Johnson B D 575, 1044-1045
Johnson S E 645, 1168
Johnston J L 576
Jones E W 576
Jones F 272
Jones J H 1194
Juhrend E 1074
Junnila W A 508, 525-526
- Kabat R 237, 835
Kansas Farm Bureau 95
Kansas Farmers Union 95
Kauffman E 797
- Kay H 316
Kearl C D 527
Kelley G A 1169
Kelley H W 150
Kennedy B 1046
King J 102
King J W 1003
King R A 1134-1135
Kitts H W 723
Kjelgaard W L 1130
Kleis R W 577, 619, 646, 1060, 1141
Kline A 317
Knight W H 941
Knoop F 1131
Koch K A 561
Koffsky N M 1047
Krenz R D 1040
Krewatch A V 528
Kuhl R G 942
Kummer F A 647
Kysilko J A 344
- Lachlan I D 1195
Land W B 427
Langley M N 779
Lanham B T 1178
Larson L W 648
Larson O F 1170
Larzelere H E 294
Lassen W L 103, 943
Leerburger F J 803
Lees D 151
Lert P J 1107
Leveload N 428
Libby W F 836
Lionberger H F 724
Lockwood P 725
Long K F 837
Lounsbury D 529, 838
Loveless W G 726
Lucking W T 44, 429-430
Ludington D C 431-432, 1075, 1096-1097
Lukens A F 530
Luse R P 104, 607
Lynch W W 894
Lynn R W 1004
Lyons B 839
- McBride V 580
McCallum J 649-650
McColly H F 693
- McConnell L W 694-695
McCracken E C 755
McCurdy J A 581-582
McCurley J B 45
McDougall J 1132
McFate K L 193, 397, 651-652, 1005
McKenzie B 1133
McKibben E G 653, 840
McLaughlin T E 654, 1076
McMahen D H 1006
McMillan K A 434
McPherson W W 1164
McVey F E 531, 608-609, 696
- Mabrey O E 433, 579
Maddex R L 1048, 1077
Madgett J P 435
Malone J R 655
Mangus A R 944
Mann M 841
Mann M G 1134
Manny E S 945
March R P 1078
Margeson G M 238
Marritz R O 194, 288, 842
Martin D 195
Martin J W 693
Martin R C 10
Martz G 105
Marvin V 436
Massachusetts University. Department of Agricultural Engineering 1049
Mathia G A 1134-1136
Mathis P C 47
Matson W E 174
Mayall B H 946
Mayer A G 532
Meenen H J 947
Meij J L 639
Meile C H 843
Merlin D 1079
Merrill K E 152
Methvin E 36
Metzler W H 1171
Meyer F J 780
Midwest Electric Consumers Association 362
Miller A L 438
Miller P A 1172
Miller R W 48
Mitchel R H 345

Mitchell D H 318
 Mitchell J B 944, 1182
 Mitten H L 1080-1081
 Moore D 1082
 Moore H R 697
 Morgan E P 49
 Morgan H 319
 Morris A 583
 Morris C K 584
 Morton G 1083
 Moses J L 664
 Mosher D 1017
 Moyer D D 669
 Mucklow B 1007
 Muir J 1108
 Munger G D 216, 948
 Murray W E 949-950,
 1196

Nabben M 723
 Nagey T F 844
 National Farm
 Electrification Conference 475
 National Inter-industry
 Farm Electric Power Con -
 ference 186
 National Rural Electric
 Cooperative Association 50,
 153-154, 239, 273-275,
 320, 323, 369-372, 375
 Neagle N M 782
 Neff G C 698, 1009
 Nelsen A 51-53, 107-108,
 321, 439, 756-757, 895-896
 Nelson G S 610
 Nelson L 54, 656, 951, 1174
 Nelson L B 1014
 Nelson P 196, 276, 373-374,
 533
 Nelson T - 240
 Nesius E J 1027
 Nevaldine P 534
 New York Farm Electrification
 Council 758
 Newberg R R 1193
 Newberry T W 952
 Nichols B 278
 Nicholson R L 657
 Nicol E 240
 North Carolina Rural Electri-
 fication Authority 155
 North Carolina University State
 College of Agriculture and
 Engineering. Extension Service 1177

Northeast Area Interim Field
 Conference 55
 Norwood G 783
 Nutt G B 699

O'Brien J B 324
 O'Brien J E 784, 1004
 O'Brien M 658
 O'Hara W 156
 Oklahoma State University
 of Agriculture and Applied
 Science, Agricultural Extension
 Service 953
 Olds L 440, 759, 804
 Olejar P D 441
 Oliver J H 1050
 Olson R E 442
 Olver E F 586, 727
 O'Rourke B 1051
 Osborne H W 1158
 Osborne L M 659
 Oswald H 1199
 Overby K 954
 Owens G P 1200

Paine T U 1165
 Parker F E 11
 Parks R R 1123
 Parr W H 279, 307
 Parsons J 157
 Partridge R 346
 Partridge R D 785
 Pate H 241
 Pence D 198, 761
 Pendersen H A 626
 Penn R J 1178
 Penny N M 955
 Perkins B G 1052
 Perry B 280
 Person R T 158
 Peterson B 728
 Peterson C 805
 Phagan C V 956
 Philson M K 445
 Pickens O 242
 Pinches H E 660
 Pittman F K 848
 Plaxico J S 1181
 Poole W R 446
 Porter W F 957
 Portwine S 109-110
 Potamkin L 111-113, 199

Potts M T 282
 Poynor R R 661, 700, 1138
 Praeger H A 1037
 Price M 340, 352, 358, 849
 Price R C 449
 Pringle H S 450
 Promersberger W J 662
 Puckett H B 536, 663, 985,
 1139
 Pugh C R 958

Radin A 850
 Rall E 1140
 Ramser J H 1141
 Ransom R 1120
 Reed M S 1109
 Reed P D 960
 Reeves D W 852
 Rich S M 611
 Richardson L K 164, 177
 Richey C B 701
 Richter H P 588
 Rickey L F 1110
 Ridout W J 519
 Rixse J H 785, 1011
 Roberts J 174
 Roberts R W 664
 Roberts W S 244
 Robinson C A 218, 288, 807,
 853-854, 963
 Rockey J W 964
 Rodes L S 428
 Rodgers T V 1202
 Roe J C 1142
 Roeder D 665
 Rogers E M 1190
 Ross J 289
 Ross R 229
 Rowell G 589
 Rowlands W A 965
 Rudolph F R 612
 Runkle K H 1012
 Rupp R G 590
 Rushlow W E 458, 814

Samenow C U 120
 Sammis W H 702
 Samuel O C 1143
 Santangelo A E 973
 Sarikas R H 391
 Satterfield J C 329
 Sauer E L 1163

- Savage J K 165
 Saville R J 955
 Scanlan M W 166
 Scarlett W J 666
 Schaenzer J P 12, 667-668,
 729, 786, 929, 1019, 1084, 1111
 Scholl J M 1144
 Scholnik E H 167
 Schroeder P 669
 Schwanz H L 1053
 Schwarzkopf V 1085
 Scott G L 1145
 Scott N J 670
 Scoville O J 1014-1015
 Seaton F A 808
 Seferovich G H 643, 671, 1016
 Seiberling D A 1086
 Selden W 168
 Selonke P 1146
 Severson H 169
 Seymour C 428
 Seymour W 856
 Shaff P H 1017
 Sharon J E 672
 Shaub E L 809
 Shaw B T 703
 Sheldon W H 1147
 Sheppard F W 971
 Sheppard H L 1181
 Sherwood J 245
 Shih S H K 730
 Shirley T 537
 Shuman C B 121
 Silow R A 857
 Singley M E 1148
 Skrabanek R L 626
 Skromme A B 673
 Slebiska E R 704
 Smith A B 538, 674
 Smith B L 122, 330
 Smith C W 246
 Smith E D 227
 Smith E G 459
 Smith E L 539
 Smith H P 540
 Smith H S 541
 Smith J K 460-461
 Smith J S 542
 Smith M G 1182
 Smith R C. 1203
 Smith R S 170
 Snodgrass O D 1112
 South Dakota Rural Electric
 Association 731
- South Dakota State
 College Agricultural
 Experiment Station Economics
 Department 543
 Southeast Area Electric
 Interim Field Conference 64
 Southern J H 972
 Spore R G 1183
 Sporn P 462
 Spowart P C 763
 Staebler U M 848, 858
 Staniforth S D 989, 1054
 Stapleton H N 463
 Stemberger A P 1113
 Stephen D M 1087
 Stern J K 1184
 Steward D D 1204
 Stewart A O 464
 Stewart M C 220
 Stewart P 675
 Stone A A 705
 Stover H E 613
 Street G 1165
 Stringham G E 465
 Strong F H 466
 Strunk F C 172, 347, 764,
 1185
 Sullivan J F 1088
 Sun H S 294
 Sundborg G 859
 Sutton L V 65, 202
 Swanson D H 467
 Swanson H B 591
 Swink E T 733
- Tarver J D 626
 Taylor G 1205
 Taylor G W 1186
 Taylor L V 676
 Teetsell R J 787
 Teitelbaum P D 766
 Tennessee Agricultural
 Experiment Station 545
 Teter N C 1149
 Texas Farm Electrification
 Committee 706
 Thayer C B 546
 Thomas G W 468
 Thomas P H 860-862
 Tichenor P J 469
 Tidwell P 247
 Tindall C 734
 Tolley G S 348
- Tracy P H 1089-1093
 Trenary O J 417
 Trombley K E 67
 Tunis R W 547
 Turner C N 470-472, 548,
 1075, 1094-1096, 1114
 Turner F L 1165
 Tuthill W C 33
- Udall S L 812, 974
 Ulrich J R 476
 U S Agricultural Marketing
 Service 478
 U S Bureau of Census Industry
 Division 549
 U S Congress House Committee
 on Agriculture 295, 339, 379-
 380
 U S Congress House Committee
 on Appropriations 349
 U S Congress House Committee
 on Government Operations
 332, 350-353, 768, 863
 U S Congress House Committee
 on Interior and Insular Affairs
 864-868
 U S Congress House Committee
 on Public Works 869
 U S Congress Joint Committee
 on Atomic Energy 870
 U S Congress Senate 70
 U S Congress Senate Committee
 on Agriculture and Forestry
 71, 72, 296, 354, 381
 U S Congress Senate Committee
 on Commerce 355-357
 U S Congress Senate Committee
 on Foreign Relations 871
 U S Congress Senate Committee
 on Government Operations 358
 U S Congress Senate Committee
 on Interior and Insular Affairs
 769-771, 789-791, 872-875
 U S Congress Senate Committee
 on Public works 876
 U S Department of Agriculture
 13, 73, 382, 477, 975-976
 U S Department of Agriculture
 Office of the General Counsel
 359, 383
 U S Federal Power Commission
 877
 U S General Accounting Office
 297-298

U S President's Water Resources
 Council 813
 U S Rural Electrification
 Administration 58, 74-75, 77-80,
 222-223, 250, 299-304, 479-481,
 707-709, 745, 814-816, 878
 U S Tennessee Valley Authority
 817
 University of Georgia 251

 Van Arsdall R 1150
 Van Arsdall R N 1115
 Van Zandt J E 879
 Venables T 81, 334,
 486
 Vennard E 14, 184,
 204, 448, 483-485
 Vogel O S 205

 Waddle F 1187
 Waggoner J G 305, 307
 Walker P 1097
 Wall A P 306
 Wallace L T 1206
 Walters A 206, 977
 Walters R E 1116
 Wansley L T 735,
 1003
 Waring J A 978
 Washington Farm
 Electrification
 Committee 174
 Waterman W B 335
 Watkins E H 252
 Webb E W 880
 Webb L 1020
 Weckel K G 677
 Weitzell E C 82
 Welch F X 336
 Wendell P F 678
 Wessenauer G O 487
 Western Area Interim Field
 Conference 79
 Whisenant W C 615
 White H D 1116
 White J C 1071
 Whitlow S 1021
 Wiant D E 584, 592, 679,
 689, 1147
 Wiegmann F H 680
 Wilder J E 307
 Wileden A F 1189
 Wilkins C E 175, 308, 818

 Williamson R B 772
 Wilson E B 736
 Wilson E F 253
 Wilt H 551
 Wind River Basin 981
 Winsborough R M
 15, 773
 Wisconsin Agricultural
 Experiment Station 177,
 989
 Wise R R 83
 Wise W C 362
 Witz R L 616
 Wood J 552
 Wood R H 819, 906
 Works D W 1055
 Worlan C E 737
 Wright C E 338
 Wyoming University
 Division of Economic
 Analysis 979-981

 Yaw W 1151
 Yeager L B 881
 Young J E 614
 Young M R 16

 Zank E O 84
 Ziemba J V 1152
 Zook R G 889

SUBJECT INDEX

- Agribusiness 919, 937, 997
- Air conditioning 595, 636
- Amargosa Valley Cooperative, Lathrop Wells, Nevada 203, 206
- American Farm Bureau Federation 50
- American Institute of Cooperation 120
- Anoka, Minn., Rural Cooperative 125
- Appliances and equipment 489, 499, 503, 515, 531, 533
 sales 505, 506, 569
- Area coverage 488
- Area Redevelopment Administration 909
 SEE ALSO Rural Areas Development
- Atomic energy 687, 823, 825, 835, 836, 841, 848, 851, 855, 858, 878
- Atomic power 820, 829, 834, 842, 844, 879
- Automation 54, 228, 442, 508, 619, 623, 624, 627, 630, 635-638, 643, 644, 646, 649, 651, 652, 654, 655, 663, 666, 668, 669, 671, 676, 938, 1053, 1058, 1066, 1071, 1078, 1079, 1082, 1087, 1089-1093, 1104, 1108, 1109, 1110, 1111, 1112, 1120, 1125, 1126, 1131, 1132, 1138, 1145, 1150
- Big Horn Basin, Wyoming 980
- Carmody J A 81
- Clapp N M 72, 901
- Colorado River project 872, 874, 875
- Community betterment 910, 1156
- Cooke M L 67
- Cooperatives 56, 85, 86, 90-94, 96, 98, 103, 104, 109, 134, 144, 216, 220, 226, 313, 419, 761, 765, 792, 1169, 1184, 1192
 accounting 258, 277, 299
 administration 74, 77, 120, 231, 237, 238, 241, 246, 249-253
 Alaska 133, 136, 137, 139, 160
 Arizona 131, 779
 Arkansas 60
 capital credits 280, 305, 307, 383
 Colorado 158
 credit 263-265
 Delaware 395
 distribution 817
 financial management 118, 225, 243, 258, 266, 269, 272, 274, 279, 281, 287, 289-291, 294, 308, 368, 746
 Georgia 172, 338
 history 6, 11, 12, 99, 140, 153
 Indiana 148, 195, 1203
 Iowa 170
- Cooperatives-----Cont.
 Kansas 152
 Kentucky 152a, 227
 legal aspects 188, 312, 319, 347, 361, 362
 legislation 201, 323, 329, 343, 346, 350, 355-357, 360
 Louisiana 126
 member relations 241, 726
 Michigan 294, 967
 Minnesota 125, 168
 Missouri 141, 173
 Montana 157
 Nevada 206
 New Jersey 197
 North Carolina 155, 198
 North Dakota 209, 1198
 Ohio 140, 161
 Oklahoma 176
 Oregon 151
 organization 116, 224, 227, 228, 236, 240
 power 443, 779, 793, 795, 801, 806, 811, 815, 816, 819, 849, 853, 882, 885, 887, 893, 897, 900, 901, 905
 Indiana 903
 Iowa 907
 Minnesota 799
 North Dakota 799
 Utah 781
 power company relations 6, 7, 43, 178-183, 185-187, 189, 190, 193, 200, 202, 204, 205, 207, 750
 Indiana 195
 Iowa 744
 Nevada 203, 206
 New Jersey 197
 North Carolina 198, 761
 programs 210, 211
 public relations 87, 88, 230, 235, 242, 244, 247, 248, 711
 situation and outlook 100, 101, 106, 117, 119, 121, 143, 153, 171, 212, 217, 219, 221, 234, 413, 802
 South Carolina 150, 159
 South Dakota 47, 762
 taxation 122, 311, 328, 331
 Tennessee 162, 247, 977
 Texas 128
 Washington 174
 Wisconsin 84, 164, 177
- Coos-Curry Electric Cooperative, Agness, Oregon 151
- Corn Belt Power Cooperative, Spence, Iowa 907

- Dairy industry 431, 442, 470, 471, 529, 668, 677, 1058, 1060-1093, 1097
 equipment 1056, 1057, 1067, 1070, 1075, 1094-1096
 Iowa 1059
- Defense 921, 939, 946, 977
- Distribution 390, 774, 776, 780-782, 784-786, 788, 790, 796, 868
- Eastern Iowa Light and Power Cooperative 170
- Economic value to farmers 542, 739, 937, 1006, 1022-1055, 1158, 1191
- Economic value to rural communities 1157, 1171
- Education of farmers SEE Farm electrification-education
- Electricity in agriculture 532, 653, 689, 693, 699, 731, 1172
- Electricity on the farm 683, 684, 973, 992, 1003
 extent 475, 478
 New England 988
 New York 988
 Wisconsin 989
 SEE ALSO Farm electrification
- Electrification 2, 16, 19, 89, 97, 102, 155, 214, 407, 423, 430, 462, 466, 856, 915, 952, 1183, 1189, 1196, 1204
 Alaska 133, 136, 139
 Louisiana 166
 Minnesota 127, 169
 Ohio 161
 policies and programs 14, 968
 uses 970
- Ellis C T 105
- Energy consumption 174, 479, 543, 745
- Engineering 653, 665, 672, 678, 681, 682, 685, 686, 689, 693, 699, 701, 705, 707-709, 792, 1060, 1062, 1064, 1076, 1085, 1098
- Equipment, electric 388, 491-496, 501, 502, 513, 514, 516, 517, 519-522, 524-529, 536, 537, 539-541, 544, 547, 548, 552, 554, 634, 658, 665, 677, 701, 706, 710, 780
 costs and returns 511, 512, 538, 543, 546, 550, 551, 641, 1084
 design and specifications 507
 laborsaving 498, 510, 550
- Farm electrification 13, 54, 193, 334, 516, 517, 523, 618, 650, 691, 694-696, 698, 702, 703, 798, 911, 920, 927, 930, 931, 934, 960, 983-1021, 1041, 1043, 1063, 1184
 Colorado 1051
 cost and standard of living 754
 costs and returns 941, 1031, 1039, 1046, 1050, 1054
 development 208
- Farm electrification-----Cont.
 education 398, 469, 480, 482, 521, 522, 583, 690, 710-737
 extent 123, 410, 411, 436, 477, 494, 665, 748, 929, 1013
 Georgia 427
 history 12, 208
 Iowa 397, 1042
 Kansas 9, 1001
 laborsaving 92, 502, 508, 509, 619, 697, 1038, 1139
 Minnesota 553, 951
 Nebraska 1002
 New York 758
 Ohio 918
 Pennsylvania 1010
 South 450
 Tennessee 8
 Texas 706
 textbooks 658, 662, 664, 713, 715, 721, 723, 729, 731
 usage 386, 387, 399, 408, 409, 418, 421, 429, 437, 441, 453, 459, 463, 468, 475, 478, 485, 504, 636, 688, 692, 704, 772, 985
 SEE ALSO Electricity on the farm
- Farmers
 economic and social status SEE Economic value to farmers
- Financing
 alternate sources 82, 254, 260, 273, 275
- First Electric Cooperative Corporation, Jacksonville, Arkansas 60
- Folkerth O 140
- Fryingpan Arkansas project 873
- Generation and transmission 778, 810
 SEE ALSO Loans-generation and transmission
- Generators 497, 500, 518, 523, 528, 530, 534, 535, 554, 805, 810, 814, 815
- Government in the electric industry 54, 205, 310, 313, 335, 336, 344, 438, 808
- Guadalupe Valley Electric Cooperative, San Antonio, Texas 128
- Hamil D A 71
- Haydrying 1118, 1119, 1121-1123, 1130, 1137, 1141, 1144, 1147, 1148
- Heating 594, 608, 609, 615, 617, 759, 942,
 houses 594-617
- Homes, electric 385, 605, 614
- Hoover Commission 314, 315, 321, 341
- Humphrey-Price Bill 340, 352, 358
- Industrialization 1158, 1191, 1192, 1194-1196, 1207
 Mississippi 1201
 North Dakota 1198

Industrialization-----Cont.

- Ohio 1190, 1193, 1204
- Oklahoma 1160, 1202
- Interties 778, 783, 789, 791, 886
- Inter-Industry Farm Electric Utilization Council 468
- Labor and mechanization 490, 627, 1037, 1055, 1059, 1113
- Lighting 3, 567, 568, 584, 953, 1102, 1107
- Lines, electric 774, 775, 783, 787
- Livestock 1125, 1126, 1131, 1146, 1151
- Load building 393, 395, 420, 468, 483, 515, 519, 806, 986, 1019
- Loans 211, 278, 301
 - generation and transmission 882-907
 - Section 5 268
- Meat industry 1117, 1120, 1124, 1128, 1132, 1143, 1145, 1152
- Mechanization 489, 493, 495, 510, 549, 620, 622, 625, 626, 628, 631, 633-635, 637, 640, 642, 643, 645, 647, 648, 656, 657, 659-661, 672-674, 677-680, 700, 991, 1034, 1035, 1110, 1133, 1151
 - Alabama 1186
 - costs and returns 551, 641, 670, 1040, 1045, 1052, 1101
 - extent 639
 - history 4, 618
 - laborsaving 490, 629, 632, 638, 667, 675, 1021, 1037, 1044, 1049, 1055, 1068, 1168
 - North Carolina 1134-1136, 1140
 - Ohio 422, 621
- Member relations SEE Cooperatives-member relations
- Member services SEE U. S. Rural Electrification Administration-Five Star program
- Meriwether-Lewis Electric Cooperative, Centerville, Tenn., 162
- Minuteman 116, 152, 220, 226
- National Rural Electric Cooperative Association 6, 46, 83, 105, 107, 108, 138, 143, 149, 187, 202, 236, 344, 807
 - regional and national meetings 153, 163, 167, 175, 213, 214, 221
- Niagara power project 869
- Norris G 19
- North Dakota Electric Cooperative 1198
- North Dakota Farmers Union, Fargo, N. D. 209
- Pacific Northwest power project 771, 790, 868
- Peanuts 1127, 1142, 1149
- Poultry 470, 472, 640, 641, 669, 1098-1116
- Powder River Basin project 979
- Power 95, 320, 394, 400, 417, 432, 807, 838, 978, 1048
- Power adequacy 212, 285, 306, 338, 417, 440, 449, 453, 454, 463, 467, 486, 794, 802, 808, 818, 1205
- Power companies 1, 15, 95, 111-115, 229, 233, 314, 336, 344, 761, 804, 852, 853, 910
 - Kentucky 5
 - North Carolina 761
 - Ohio 457
 - overcharges 749, 760
 - statistics 155, 748
 - subsidies 310, 318, 333
 - taxation 325
- Power projects 158, 256, 309, 317, 324, 330, 800, 811, 812, 819, 839, 856
 - Alaska 854, 859
 - Amistad (Rio Grande) Texas 871
 - Bonneville 867
 - California 863
 - Colorado River 796, 852, 864, 865, 872, 874
 - Columbia River 822, 875
 - Cougar Dam 876
 - financing 881
 - Fryingpan, Arkansas 866, 873
 - Hanford, Washington 870, 879
 - Minnesota 823
 - Missouri River 802
 - Niagara 828, 869
 - Pacific Northwest 769, 770, 790, 869
 - Potomac River 847
 - Priest Rapids 876
- Power sources 257, 826, 828, 833, 837, 840, 846, 902
 - atomic energy 435, 829, 845, 851, 857
 - Diesel 544
 - hydro electric 256, 751, 797, 830, 877
 - solar 821, 827
 - wind 832, 860-862
- Power supply 306, 401, 418, 444, 449, 803, 843, 850
- Power use 386, 389-392, 394, 396, 399, 402, 403, 405, 406, 408, 409, 412, 414, 420, 421, 424, 426, 428-431, 435, 437, 438, 441, 443, 444, 451, 452, 457, 458, 460, 462, 470-473, 481, 483, 487, 504, 520, 532, 595, 598, 611, 716, 726, 728, 757, 772, 777, 783, 1207
 - Delaware 395
 - Iowa 387, 388, 445
 - Kansas 425
 - Minnesota 125
 - Oklahoma 499
 - promotion 393, 416, 419, 433, 446-448, 455, 456, 461, 464, 476, 484, 747
 - statistics 404, 411, 415, 477, 740
 - Utah 781
 - Washington 434

- Preference rights 322, 324, 338, 751, 768-771, 867
- Public relations SEE Cooperatives-public relations
- Rad SEE Rural Areas Development
- Rates
 energy 7, 257, 424, 738, 739, 741-746, 750, 753, 755, 756, 758-760, 762-767, 772, 773
 loans 255, 262, 276, 282, 293, 373-375, 377, 378
- Recreation 380, 928, 961, 967, 1180
- Resources 813, 924, 979-981
 conservation 922, 974
 water 925, 963, 964
- Rural Areas Development 20, 23, 25, 27, 59, 97, 130, 135, 142, 145, 146, 165, 800, 909, 912, 916, 923, 928, 945, 949, 950, 954, 957, 958, 962, 969, 971, 972, 975, 976, 982, 1026, 1027, 1153-1156, 1159, 1161, 1164-1167, 1173, 1175, 1178-1181, 1185, 1187, 1188, 1194, 1199
 Alabama 1176
 Arkansas 966
 Colorado 961
 Indiana 132, 1203, 1206
 Kentucky 940, 1197
 Michigan 967
 Minnesota 168
 Montana 959
 North Carolina 1177
 Ohio 1200
 Oklahoma 1202
 Pennsylvania 147
 Tennessee 162
 Wisconsin 965
- Rural life
 Southern states 1157
- Safety program 465, 557, 592, 710, 711, 734, 736, 938
- Satellites 970
- Social conditions 914, 938, 944, 951, 955, 1162, 1163, 1170, 1172, 1174, 1182-1184, 1186, 1189
- Southwest Power Administration 190
- Statewide electric cooperative associations 88, 124, 129, 156, 405
- Statistics 302, 410, 455, 740, 748
 loan 154, 211, 300, 301, 372, 477
 operation 154, 171, 404, 411
- Sulphur Springs Valley Electric Cooperative,
 Willcox, Arizona 131
- Sweet potatoes 1129, 1134-1136
- Taxation 330
- Territorial integrity 188, 191, 192, 194, 196, 199, 327, 334, 337, 359
- Transmission 778, 781, 783, 843, 852, 863, 866
- U. S. Department of Interior 350, 353, 768, 778
- U. S. Federal Power Commission 317, 319, 343, 347, 355-357, 361
- U. S. Rural Electrification Administration 17, 28, 55, 62, 64, 76, 90, 110, 795
 administration 52, 71, 72, 107, 108
 appropriations 349
 enabling legislation 271, 320, 321, 326, 339, 340, 342, 343, 345, 346, 348, 351-354, 358, 360, 362, 363, 365, 376, 377, 379, 384, 768
 Five Star program 30, 216, 252, 253
 history 11, 24, 37, 38, 41, 46, 49, 57, 61, 63, 67-70, 73, 78, 80, 81, 83, 84, 144
 history and criticism 26, 29, 33-36, 42-44, 50, 65, 75, 82, 239, 316, 341
 loans 259-261, 267, 268, 270, 271, 283, 284, 286, 288, 295-298, 300, 303, 304, 308, 363, 364, 366-372, 377, 378, 380-382, 384, 900
 objectives 18, 21, 32, 48, 66, 120, 149, 204, 430
 policies 22, 51, 56, 120, 184, 215, 309, 313, 756
 power company relations 39, 202, 335
 program 20, 31, 40, 45, 53, 209, 212, 213, 218, 219, 222, 223, 225, 406, 1018
- U. S. Tennessee Valley Authority 10, 487, 767, 809, 824, 831, 948
- Valley Rural Electric Cooperative, Huntington, Pa. 147, 380
- Water systems 830, 908, 917, 926, 932, 933, 935, 936, 943, 948, 956, 1005
- Wiring 553, 555-556, 569-578, 580-583, 585-593, 1102
- Women in cooperatives 140
- Youth in cooperatives 714, 722, 725, 732, 733



