

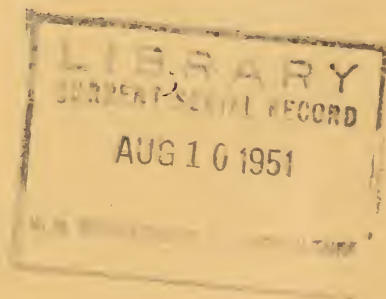
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UNITED STATES DEPARTMENT OF AGRICULTURE
BIBLIOGRAPHICAL BULLETIN NO. 15

Washington, D. C.

Issued June 1951

BIBLIOGRAPHY ON THE MARKETING OF LIVESTOCK,
MEAT, AND MEAT PRODUCTS

Compiled by
Donald W. Gooch
Division of Bibliography, Library



United States
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MARKETING OF LIVESTOCK, MEAT, AND MEAT PRODUCTS

PREFACE

This bibliography contains selected references, with annotations, to literature in English for the period January 1, 1932 to July 1, 1950, on the marketing of beef cattle, sheep, and hogs for meat and for stock and feeding, on the marketing of meat and meat products, and on frozen-food lockers. Dairy cattle, purebred animals for breeding, and inedible livestock products are omitted. Although the primary emphasis is on the United States and Canada, material is included likewise on the United Kingdom, Eire, Sweden, Norway, Denmark, Germany, France, the Netherlands, Belgium, Australia, and New Zealand.

Phases of marketing contained herein include advertising, consumer preferences, consumption, cooperatives, marketing costs, grading and standardization, inspection and sanitation, marketing methods, packaging and packaging materials, price control, price differentials and relationships, processing, rationing, storage, transportation, and wholesaling and retailing. Technical aspects of processing, refrigeration, storage, and transportation are excluded.

The bibliography is arranged according to a subject classification, and, where feasible, in the order of the movement of livestock from the producer through the marketing process to the ultimate consumer. Entries giving a broad coverage to more than one subject have been classified in one of the "General" categories. Within each subject classification entries are grouped alphabetically by author, or by title where no author is given. The bibliography is provided with separate author and subject indexes. Because the preponderance of material deals with the United States, the name of this country has been omitted in the subject index in the interest of space conservation. Hence the absence of a geographical designation following a subject entry is to be interpreted in most instances as meaning that the entry refers to the United States. Call numbers are those of the U. S. Department of Agriculture Library.

This bibliography was initiated in the Bureau of Agricultural Economics and compiled in the Library of the Department of Agriculture. It was financed jointly by the Bureau of Agricultural Economics (with funds supplied under the Research and Marketing Act of 1946) and the Library. The compiler wishes to express his gratitude to Reed A. Phillips, formerly of the Bureau of Agricultural Economics and now of the Livestock Branch, Production and Marketing Administration, and to V. John Brensike and Gerald Engelman of the Bureau of Agricultural Economics, for their assistance and cooperation.

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CONTENTS

	Page
PREFACE.....	iii
SOURCES CONSULTED.....	vi
GENERAL.....	1
LIVESTOCK MARKETS, AGENCIES, AND CHANNELS	
General.....	16
Local Dealers, Concentration Yards, and Local Livestock Assembly.....	20
Auctions.....	21
Cooperatives.....	25
Public Markets and Commission Companies.....	32
Direct Marketing.....	36
TRANSPORTATION.....	38
SHRINKAGE AND LIVESTOCK LOSSES.....	40
MEAT PACKING AND PROCESSING.....	43
WHOLESALE AND RETAILING	
General.....	46
Packaging, Prepackaging, and Self-Service.....	49
Educational and Advertising Programs.....	54
STANDARDIZATION AND GRADING	
General.....	56
Marketing Livestock by Grade.....	65
Merchandising Meat by Grade and Consumer Attitudes.....	71
GOVERNMENT REGULATION	
Regulation of Markets.....	73
Inspection and Sanitation.....	74
Production and Marketing Control Programs.....	84
Price Control and Rationing.....	91
MARKETING COSTS AND MARGINS.....	99
PRODUCTION, CONSUMPTION, AND PRICE RELATIONSHIPS	
General.....	101
Cattle, Calves, Beef, and Veal.....	111
Hogs, Pork, and Lard.....	112
Lambs, Sheep, Lamb, and Mutton.....	117
MARKET NEWS AND MARKET STATISTICS.....	119
STORAGE.....	120
INTERNATIONAL TRADE.....	121
FROZEN-FOOD LOCKERS	
General.....	123
Organization and Operation	
General.....	138
Educational and Advertising Programs.....	141

MARKETING OF LIVESTOCK, MEAT, AND MEAT PRODUCTS

Organization and Operation--Continued.	Page
As a Side Line.....	141
Cooperatives.....	143
Slaughtering and Processing.....	148
Storage.....	154
Packaging.....	156
Operating Costs, Service Charges, and Prices.....	158
Regulation, Inspection, and Sanitation.....	159
Effect on Distribution and Consumption.....	161
Effect of Home Freezers.....	162
AUTHOR INDEX.....	164
SUBJECT INDEX.....	176

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2. AABERG, H. C. Strengthen livestock marketing; plan regional headquarters in West. Nation's Agr. 23(6):10,19. June 1948. 280.82 B89

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Thesis (Ph.D.) - Ohio State University.

4. AMERICAN MEAT INSTITUTE. COMMITTEE ON RECORDING. Beef, veal and lamb operations. 4th rev. ed. Chicago, U. of Chicago, Inst. Meat Packing, 1945. 424 p. U. Chicago Libr.

Chapter headings include Beef production and marketing, Cattle slaughtering, Grading beef carcasses, Beef chilling, Carcass beef shipping, Beef cutting and boning, Calf slaughtering and dressing, Sheep and lamb slaughtering and dressing, Variety meats and beef extract, Cured, smoked and dried meats, and Edible beef fats and oils.

5. ARTHUR, I. W. Trends in the hog and pork trade in the United States. Iowa Agr. Expt. Sta. B. 346:239-278. May 1936. 100 Io9

Information on the differences in the weights of hogs marketed in different parts of the United States, certain trends which have developed in the location of the corn, hog and packing enterprises, the shipment of slaughter hogs from central markets, and the variation in pork requirements in different areas.

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the problem of better quality animals being sold direct, the effects of freight rate discriminations, packers' attitudes toward markets, the effects of decentralized selling on important groups of packers, and disorganized livestock selling vs. organized livestock buying.

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12. ASHBY, R. C. Save in buying feeder cattle. Ill. Farm Econ. 113:162-165. Oct.1944. 275.28 IL5

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14. ATKINSON, L. J. The effect of marketing weight upon marginal feed costs of pork and lard production. 1944. 124 p. Ref. Iowa State Col. Libr.

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of lard yield and to figure the feed costs of changes in these proportions.

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Results of two years of study of grades of feeder cattle completed by the Animal Husbandry Department at Purdue University.

16. BEIER, F. W., JR. The Intermountain market is West. West. Livestock J. 27(38):44,96. June 1949. 6 F2278

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17. BERNSTEIN, I. Meat conservation in the distribution to consumers, 1917-1918. U. S. Bur. Labor Statis. Hist. Studies Wartime Prob. 35,31 p. Ref. Mar.1942. 158.6 H62

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18. BJORKA, K., HARLAN, C. L., and THOMSEN, F. L. Livestock transportation and processing problems in 1942-43 and 1943-44. Washington, U. S. Bur. Agr. Econ.,1942. 30 p. 1.941 M2L75

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20. BJORKA, K. Stocker and feeder cattle and sheep received in several Corn Belt States. Washington, U. S. Bur. Agr. Econ.,1939. 9 p. 1.941 M4St6

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21. BLACK, A. G. Livestock marketing aspects of the U. S. Department of Agriculture. Washington, U. S. D. A.,1939. 9 p. 1.9162 A2B56

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23. BRIGGS, H. M. Marketing lambs and sheep. In Sheep and wool from breeding to market, p. 49-50. Kansas City, Mo., Distributed by Midwest Wool Marketing Cooperative,1945. 45 Sh32 1945a

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H. Firor, G. C. Mayer, R. A. Peters, and C. A. Thommen, joint authors.

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25. BUCHANAN, M. T. Western regional research project programs, western section of the American Society of Animal Production. Amer. Dairy Sci. Assoc. West. Div. Proc. 30:29-37. 1949. 44.9 Am342

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28. CLAWSON, M. The Western range livestock industry. New York, McGraw-Hill, 1950. 401 p. 40 C57

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29. COLVARD, D. W. The future of the livestock industry in the Southeastern States. 1950. 280 p. Ref. Purdue U. Libr.

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30. CONVERSE, P. D. Essentials of distribution. New York, Prentice-Hall, 1936. 588 p. 280.3 C76Es

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31. CORNS, J. B. The Army meat program. Md. Stockmen's Assoc. Rpt., 15th, 1944. In Md. Agr. Soc. Md. Farm Bur. Rpt. 28: 176-180. 1943, pub. 1944. 4 M366

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43. ETTESVOLD, W. E. The war presents problems in livestock marketing. N. Dak. Agr. Expt. Sta. Bimon. B. 4(5):21-22. May 1942. 100 N813B

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60. HURTT, L. C. Earlier marketing of range cows—is this a desirable range management practice? U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Res. Note 26,6 p. 1942. 1.9622 N3R31

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Among the advantages of early marketing are the aid in relieving the wartime meat shortage, and the avoidance of market congestion at later dates.

61. INSTITUTE OF AMERICAN MEAT PACKERS. COMMITTEE ON RECORDING. Sausage and ready-to-serve meats. Chicago,U. Chicago,Inst. Meat Packing,1938. 361 p. 50 Am33S

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62. JESNESS, O. B. Essentials of a sound approach to a solution of the livestock marketing problem. Amer. Coop. 13:351-360. 1937. 280.29 Am3A

Subjects include terminal market growth, truck transportation, direct marketing, auctions, distances to market, prices, competition, and cooperative action.

63. JOHNSON, R. G., JR., and others. Livestock production and marketing. Oreg. Agr. Expt. Sta. Oreg. Agr. 7,16 p. July 1947. 100 Or30

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65. KANSAS. STATE BOARD OF AGRICULTURE. Beef cattle in Kansas. Kans. State Bd. Agr. Rpt. 52,i.e.,53(211B),289 p. Sept.1934. Topeka,1935. 2 K13Re

Ch. 12 deals with marketing.

66. KNICKERBOCKER, M. E. Problems of policy-making in the movement of livestock. *Oreg. Dept. Agr. Agr. B.* 162:24-25. June 1949. 2 Or3

Subjects include regional uniformity, Oregon problems, protection needed by producers, equal restrictions in both Idaho and Oregon in case of the spread of disease, and county control.

67. LINDGREN, H. A., OLIVER, A. W., and POTTER, E. L. Types of hogs marketed and consumer demand in Oregon. *Oreg. Agr. Expt. Sta. B.* 297,14 p. May 1932. 100 Or3

Results of investigations at the Portland, Salem and Albany livestock markets where a check was made of the different classes of hogs received for slaughter and the prices paid by classifications.

68. THE LIVESTOCK industry. *Index* 12:65-69. Apr.1932. 280.8 N48

Includes an account of the development of the modern distribution system, the value of livestock and livestock products and farm income from livestock, trends in meat consumption, and the work of livestock producers and various agencies in marketing livestock products more efficiently.

69. LYLES, J. L. Present trends in livestock marketing in the Southeast. *Assoc. South. Agr. Workers. Proc.* 41:169-170. 1940. 4 C82

Notes trends characteristic of the industry, and makes recommendations for reckoning with livestock marketing problems.

70. MALOTT, D. W., and MARTIN, B. F. The agricultural industries. New York, McGraw-Hill, 1939. 483 p. 281.12 M29

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71. MANN, J. L., and TIMMONS, D. E. Some beef cattle management and marketing practices with 91 north and west Florida herds for the year 1931. *Fla. Col. Agr. Fla. Agr. Ext. Econ.* 2(6),5 p. June 1932. 275.29 F664

Marketing of beef, p. 3-4.

72. MANN, L. B. Analyse livestock marketing; U. S. authority points to new post-war trends; farmer action, grading, freezing and processing. *Rur. Co-op.* 8(8):1-2,4. Apr.18,1944. 280.28 R88

Lists probable developments, postwar gains, and requisites for the type of cooperative service program which will best enable livestock producers to capitalize on postwar opportunities.

73. MANN, L. B. Grading and marketing livestock. Washington? U. S. Farm Credit Admin., 1940. 8 p. 1.955 C2M31

Address delivered before the American Society of Animal Production, Nov. 29, 1940, Chicago.

74. MANN, L. B. New developments and current problems in livestock and meat marketing fields. *Amer. Coop.* 14:577-588. 1938. 280.29 Am3A

Discusses truck transportation, decentralized selling and centralized buying, volume concentration with four packers, high distribution costs, meat marketing improvements, and opportunities for cooperatives to improve the system.

75. MANN, L. B. Trends in livestock marketing. *Successful Farming* 43(3):24-25,96-99. Mar.1945. 6 Su12

A look at the postwar picture, with a discussion of decentralized marketing and cooperatives.

76. MATHER, E. The marketing of Wyoming beef cattle. (Abs.) Assoc. Amer. Geog. Ann. 39:57. Mar.1949. 500 As73

Notes factors responsible for large shipments in the fall, the significance of brand and health inspections, and the trend toward West Coast market expansion.

77. MATHER, E. The production and marketing of Wyoming beef cattle. Econ. Geog. 26:81-93. Apr.1950. 278.8 Ec7

Deals in part with problems of cattle ranching related to marketing, source of market data, and market channels.

78. MEAT FROM the record files. Oreg. Dept. Agr. Agr. B. 140:25-26. Dec.1943. 2 Or3

Summarizes trends in slaughtering and marketing in Oregon in 1940-42, and the first nine months of 1943.

79. MILEY, D. G. Commercial agricultural production and marketing methods and facilities in Mississippi. Miss. Agr. Expt. Sta. B. 394,94 p. Oct.1943. 100 M69

The marketing of cattle, hogs, lambs and sheep.

80. MITCHELL, M. P. The Government and our livestock markets. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers, Aug.15,1949:5-7. 275.29 In2Em

Deals with the inspection of livestock by the U. S. Bureau of Animal Industry, the work of the U. S. Market News Service, and the administration of the U. S. Packers and Stockyards Act. Suggestions are included for needed improvements.

81. MITCHELL, M. P. Some do's and don't's to be observed in marketing livestock. Purdue Agr. Ext. L. 218,8 p. May 1940. 275.29 In2L

Offers suggestions on factors which directly affect the returns from the marketing of livestock.

82. MOORE, C. H. Future trends in the marketing of livestock and the distribution of meats. 1948. 183 p. Ref. Purdue U. Libr.

Typewritten.

Thesis (Ph.D.) - Purdue University.

An analysis of probable, future technological and institutional changes in livestock marketing from producer to processor, in the meat packing industry, and in meat distribution.

83. NODLAND, T. R. A study of management factors affecting variations in returns from livestock in southeastern Minnesota. 1942. 145 p. Ref. U. Minn. Dept. Agr. Libr.

Typewritten.

Thesis (Ph.D.) - University of Minnesota.

The marketing of hogs, p. 106-109, includes prices received for, and average weight of, hogs sold; the marketing of sheep, p. 127-129, analyzes the average value received per lamb sold, and the time of sale of lambs.

84. PARKE, H. H. Livestock marketing as it looks to us. Amer. Coop. 16:596-602. 1940. 280.29 Am3A

Subjects include the need for greater use of volume, for a more aggressive educational program, for more cooperative marketing research, and for more equitable inter-district rates on livestock.

85. PEAKE, O. B. The Colorado range cattle industry. Glendale, Calif., Clark, 1937. 357 p. Ref. 43 P31

Marketing Colorado range cattle, p. 251-281.

86. PEARSON, J. H. Live stock: educational procedures in marketing; a series of study outlines. Chicago, Natl. Live Stock Prod., 1937. 101 p. Ref. 280.340 P31

Analyses of the job of marketing livestock with decisions to be made, factors to be considered, and information needed to apply the factors.

87. PHILLIPS, C. D. Research and educational programs in the marketing of livestock. *J. Farm Econ.* 28:158-169. Feb.1946. 280.8 J822

Paper presented at the annual meeting of the American Farm Economic Assoc., Dec. 27, 1945.

Discusses conditions requisite to the efficient handling of livestock.

88. POOLE, J. E. Lamb prices and market distribution. *Natl. Wool Grower* 22(10):27-28. Oct.1932. 45.8 N21N

On the failure of present statistics to record the feeding lamb movements, and the reasons for current changes in the marketward movement of lambs.

89. PRITCHETT, W. M. The sheep and wool industry in Texas. 1948. 444 p. Ref. U. Va. Libr.

Typewritten.

Thesis (Ph.D.) - University of Virginia

Ch. 4, Sheep and lamb marketing in Texas, includes trends in the number of sheep and lambs marketed at the Fort Worth Stockyards, the El Paso Union Stockyards, the Port City Stockyards, Houston, and the Union Stock Yards, San Antonio; an analysis of seasonal variation in market receipts of sheep and lambs; transportation of sheep and lambs to market; marketing agencies for slaughter sheep and lambs, including local buyers, packing houses, small-town auctions, and commission companies; sheep and lamb grading; shipment of sheep and lambs out of and into Texas; and marketing feeder sheep and lambs. Ch. 5, Analysis of sheep and lamb prices; Ch. 6, Sheep and lamb slaughter in Texas. Ch. 7, Conditions affecting the production of lamb and mutton in Texas, analyzes lamb and mutton consumption in the United States, and foreign trade in lamb, mutton and sheep.

90. PURCELL, M. H. Cattle and calves. Washington, Assoc. Amer. Railroads, 1946. 98 p. 289.2 As725Ca

Chapter headings include Foreign trade, Slaughter and consumption, Marketing, and Transportation.

91. RANDELL, C. G. Contract feeding and pasturing of lambs and cattle. *U. S. Farm Credit Admin. B.* 15,113 p. Apr.1937. 166.2 B87

A study made in 1935-36 in which it is pointed out that many growers who prefer contract feeding as a method of finishing livestock for market are willing to take a chance on deriving extra income from the feeding enterprise rather than to sell their feeder stock on a low market.

92. REHNBERG, R. D. The future of the livestock industry in the North Central States. 1950. 203 p. Ref. Purdue U. Libr.

Typewritten.

Thesis (Ph. D.) - Purdue University.

Changes in marketing methods, p. 170-175; Domestic demand, p. 179-183.

93. REIMERS, D. H. America's meat market. *Banking* 30(10): 27. Apr.1938. 284.8 Am3

Points out the magnitude of the livestock and meat packing industry, and discusses changes in financing, consumption and prices in 1937, and bankers' cooperation in the campaign of the Institute of American Meat Packers to encourage consumption of livestock products.

94. REVZAN, D. A. Livestock production and marketing; a series of readings. Chicago, Inst. Meat Packing, 1935. 218 p. 280.340 R32

Market grades, prices and agencies, and direct marketing of livestock.

95. RINEHART, E. F., HICKMAN, C. W., and JOHNSON, R. F. Fattening range lambs in Idaho. *Idaho. Agr. Expt. Sta. B.* 194,48 p. Dec.1932. 100 Id1

Shipping and marketing, p. 44-47.

96. RINEHART, E. F. Problem of bigger marketings. Amer. Cattle Prod. 24(4):30-31. Sept.1942. 49 P94

Livestock marketing in Idaho.

97. ROBERTSON, L., and BONHAM, E. R. Variation in local marketing procedure for grain, hay, livestock and feed in north-western Indiana. Ind. Agr. Expt. Sta. B. 364,20 p. Sept.1932. 100 In2P

Based on information secured from various local agencies, this bulletin shows the principal causes of the variation and the way in which these factors are associated with marketing procedure, and points out some of the problems needing study in connection with marketing the staple farm products from different parts of the region.

98. ROCHFORD, L. H., and FLUHARTY, L. W. Trends in the livestock industry. Berkeley,U. Calif.,1937. 37 p. 275.2 C12T

Cattle and hogs shipped into California, sheep and lambs shipped into and out of California, California livestock slaughter and market receipts, livestock prices in California markets, and per capita consumption of meats in the United States.

99. SAUNDERSON, M. H. Adjustments in Western beef cattle production and marketing during the war and post-war periods. West. Farm Econ. Assoc. Proc. 17:151-155. 1944. 280.9 W527P

Trends and changes for the period 1920-43.

100. SAUNDERSON, M. H. A study of the trends of Montana livestock numbers, prices, and profits. Mont. Agr. Expt. Sta. B. 329, 20 p. Nov.1936. 100 M76

Presents an economic interpretation of the past and recent trends of Montana livestock population, prices, and values, with a background of national supply and demand conditions.

101. SCHULTZ, T. W. Research in hog marketing. n.p.,1938. 16 p. 280.346 Sch8

A study whose aim is to examine what research has been done in this field, and what research problem and approaches merit special attention.

102. SHEALY, A. L. Beef production in Florida. Fla. Agr. Expt. Sta. B. 260,54 p. June 1933. 100 F66S

A section on marketing, p. 44-49, discusses time of marketing, market grades, preparing cattle for shipment, the number to load per car, shrinkage of livestock in shipment, and truck movements of cattle.

103. SHEPHERD, G., and SHEPHERD, E. M. Marketing Corn Belt products. Ames,Iowa,1935. 275 p. 280.3 Sh4

Subjects include the demand for meat, the structure of the livestock marketing system, the meat-packing industry, and livestock-marketing problems such as the time of sale of hogs and beef cattle, market selection, direct packer buying, the effect of direct packer buying on hog prices, cooperative livestock marketing, and Government marketing services for livestock.

104. SHEPHERD, G. S. Marketing farm products. 2d ed.,rev. Ames,Iowa State Col. Press,1947. 461 p. 280.3 Sh4M

Livestock and meat marketing are included.

105. STARR, G. W. Measures of business conditions in Indiana. Ind. U. Sch. Business Admin. Bur. Business Res. Ind. Studies in Business 2(2),69 p. 1934. 280.9 In27

Hog and cattle sales are studied.

106. TRACEY, M. B. The marketing of frozen food products. 1948. 436 p. Ref. Ohio State U. Libr.

Typewritten.

Thesis (Ph.D.) - Ohio State University.

Among the subjects studied are distribution, consumption, standardization, storage, transportation, promotion and price policies, and prices. Meats are included.

107. U. S. AGRICULTURAL ADJUSTMENT ADMIN. The share of the domestic market supplied by the American farmer. Washington, 1941. 11 p. 1.94 Ad45Sd

The marketing of beef and pork.

108. U. S. AGRICULTURAL RESEARCH ADMIN. Report of activities under the Research and Marketing Act, 1949. Washington, 1949. 42 p. 1.90 R3R2932

References to livestock.

109. U. S. BUR. OF AGRICULTURAL ECONOMICS. An exploration of factors motivating hog farmers in their production and marketing. Washington, 1947. 143 p. 1.941 A2Sp1

Results of a survey made between Apr. 1 and May 28, 1946, in which 378 farmers in Ohio, Indiana, Illinois, Iowa, Wisconsin, Minnesota, Missouri and Nebraska were interviewed.

110. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Livestock marketing. Hearing...72d Cong., 1st sess., March 10 and 11, 1932. Washington, 1932. 83 p. 280.340 Un32

Testimony of livestock interests and organizations.

111. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Marketing farm commodities. Hearing before the 77th Congress, 1st session, on H. R. 1382, a bill to provide for the development of marketing and marketing services for farm commodities, March 11-19, 1941. Washington, 1941. 155 p. 280.3 Un33Mf

Statements of members of Congress and officials of State Governments and agricultural organizations dealing in part with the grading, pricing and distribution of livestock..

112. U. S. EXTENSION SERV. Report of Livestock Production and Marketing Conference, Jackson's Mill, W. Va., June 21-24, 1949. Washington, 1949. 35 p. 1.913 C3L752

The "Report of the Committee on Regional Livestock Marketing Education under RMA," p. 21-24, includes recommendations for regional educational projects under the U. S. Research and Marketing Act.

113. U. S. FEDERAL TRADE COMMISSION. Report...on agricultural income inquiry. Washington, 1938. 3 v. 173 F32Ag

Pt. 1, Principal farm products, deals with livestock marketing cooperatives, livestock prices and margins, and the control of livestock and meat products.

114. U. S. FOREST SERV. Early marketing of range cattle pays! U. S. D. A. AIS 66,9 p. Sept. 1947. 1 Ag84Ai

Includes recommendations for normal years and periods of drought, and gives seasonal cattle gains on the Northern Great Plains, the Southern Great Plains, in the Southwest, the Intermountain Region, the Pacific Northwest, and California.

115. U. S. OFF. OF ADMINISTRATOR OF RESEARCH AND MARKETING ACT. LIVESTOCK ADVISORY COMMITTEE. Report of Livestock Advisory Committee, and research and marketing proposals for the livestock industry, Research and Marketing Act of 1946. Washington, 1947. 5 p. 1.90 R3R295

Principles governing research, and recommendations of projects for the 1948 fiscal year.

116. WAUGH, F. V. Proposed studies of livestock marketing. Agr. Situation 24(4):22-23. Apr. 1940. 1 Ec7Ag

A brief historical background, followed by a statement of research needs.

117. WILSON, P. O. Statement presented to the special subcommittee of the Committee on Agriculture of the House of

Representatives, Washington, D. C., May 2, 1949. Chicago, Natl. Live Stock Prod. Assoc., 1949. 6 p. 284.340 N21

Urges minimizing the activities of the Government in the fields of price control, guarantees and regulation.

118. WILSON, R. The eastern packer market for Indiana slaughter hogs. 1950. 91 p. Ref. Purdue U. Libr.

Typewritten.

Thesis (Ph.D.) - Purdue University.

A study undertaken to evaluate the specialized pork trade of eastern packers, to appraise the problems encountered, and to determine the finish, type and weight of hogs bought and desired by them.

Canada

119. ARCHIBALD, E. S. A national cattle policy. Sci. Agr. 15: 133-157. Nov. 1934. 7 Sci2

Paper presented at the meeting of the Canadian Society of Animal Production, Eastern Section, Macdonald College, P. Q., June 26, 1934. Marketing of beef cattle, Canada.

120. ARNASON, B. N. Some changes in live stock marketing. Canad. Soc. Agr. Econ. Proc. 7:53-69. 1935. 281.9 C16

On the development of livestock marketing, recent changes in Canada, cooperative marketing, grading livestock, and the effect of restricted markets.

121. BELL, J. R., WATKINS, G., and WOOD, G. W. The live stock industry of Manitoba. Winnipeg, Manitoba Econ. Survey Bd., 1939. 136 p. 281.340 B41

Subjects include the importance of export markets, trucking vs. rail transportation, direct vs. stockyard selling methods, quality, carcass grading, and the consumption of meat products.

122. MANNING, E. S. The meat packing industry. Canad. Food Indus. 20(5):47,49,51,53,55,57-59. May 1949. 286.83 C166

Canadian exports of livestock and meats, inspected slaughterings, livestock prices, per capita civilian consumption of meats, and comparative data on various bacon agreements.

123. MAYBEE, H. J. The marketing of sheep and lambs. Agr. Inst. Rev. 3:115-121. Mar. 1948. 7 Ag8

Includes methods of marketing, carcass grading of lambs, sale according to carcass weight, lamb carcass yields, and revised regulations, 1947, respecting the grading of lamb carcasses.

124. TODD, S. E. Marketing livestock. Agr. Inst. Rev. 5(2):25-27,29-30. Mar. 1950. 7 Ag8

An account of the background of marketing and marketing methods in Canada is followed by a description of modern methods.

125. TODD, S. E. Processing and distribution of meat. Agr. Inst. Rev. 3:129-132. Mar. 1948. 7 Ag8

126. VROOMAN, C. W., CHATTAWAY, G. D., and STEWART, A. Cattle ranching in western Canada. Canada. Dept. Agr. Tech. B. 55, 80 p. Sept. 1946. 7 C16T

Market outlets, p. 14-15; cattle marketing and prices, p. 23-24.

Australia

127. MCAULIFFE, W. S. Marketing of pigs. So. Austral. Dept. Agr. J. 44:262-263. Dec. 1940. 23 So84

Recommendations for improvements.

128. QUEENSLAND. MEAT INDUSTRY BOARD. Year book, 1949. Brisbane, 1949. 32 p. 286.3509 Q3

Topics include livestock slaughter, meat exports, and a research

program aiming at the improvement of frozen beef as a consumer's commodity.

129. SHELTON, E. J. Marketing of pigs. Queensland Agr. J. 58: 302. May 1944. 23 Q33

Recommendations with reference to sanitation, grading by groups, and transportation.

France

130. MEASURES to improve French meat market. Scot. J. Agr. 18:373-374. Oct.1935. 10 Sco82So

Decrees of the French Government aiming to improve the position of the producers and ensure that they get a larger profit than had recently been the case, and to protect consumers by taking meat of bad quality off the market and bringing about a fall of retail prices.

Germany

131. BÖKER, H. Development of the production, importation and consumption of meat in Germany. Internatl. Rev. Agr. 27:135E-156E. May 1936. 241 In82A

Subjects: the livestock trade, measures of commercial policy taken to protect national production and regulation of the home meat market, the development of the importation of livestock and meat, and the development of meat consumption according to the different kinds of meat.

Ireland

132. IRISH FREE STATE. PIG INDUSTRIES TRIBUNAL. Report on pig production in Saorstát Eireann and the industries and trades dealing with live pigs, pig meat, whether fresh or cured, and other pig products. Dublin, Stationery Office, 1934. 166 p. 281.346 Ir4

The marketing of bacon and hogs is included.

New Zealand

133. MOKE, I. A. New Zealand; marketing a pastoral surplus. Econ. Geog. 23:248-255. Oct.1947. 278.8 Ec7

Discusses Government marketing of meat under the Marketing Act passed in 1936, the importance of the British market to the New Zealand meat industry, and the need for broader trade horizons.

134. SHANNON, A. T. Farming in New Zealand; store and breeding stock. New Zeal. J. Agr. 71:119-125. Aug.1945. 23 N48J

Marketing methods and centers of distribution of stock.

135. STEPHENS, F. B., and BARNICOAT, C. R. Marketing of meat. In Belshaw, H., and others. Agricultural organization in New Zealand; a survey of land utilization, farm organization, finance and marketing, p. 623-647. Melbourne, Melbourne U. Press, 1936. 281.1993 B41

Topics include the markets for meat, marketing service in New Zealand, organization of the export trade, and the New Zealand chilled beef trade. The third section discusses, in part, distribution among ports in the United Kingdom, and retail sale in England.

United Kingdom

136. CONACHER, H. M. Report on the marketing of live stock in Scotland. Edinburgh, Dept. Agr. Scot., 1933. 129 p. 280.340 Sco3

On the Scottish and English demand for fat and store stock of Scottish production, Scottish demand for Irish and Canadian store cattle, the export of meat to English markets, quantitative statements of the demand and supplies of livestock of various classes, the movements of livestock, sales organization, fat stock slaughter, and price movements.

137. DAVIDSON, H. R. The production and marketing of pigs. London, Longmans, Green, 1948. 535 p. 46 D282

Ch. 4 deals with marketing in Great Britain.

138. DAVIES, J. L. The marketing of sheep in Wales. In Welsh National Conference on the Breeding and Marketing of Sheep. Welsh national conference convened by the Welsh Department of the Ministry of Agriculture and Fisheries on the breeding and marketing of sheep, held at Aberystwyth on Nov. 4th and 5th, 1931, p. 53-65. Birkenhead, H.M. Stationery Off., 1932. 45.9 W462

Describes the intricacies and difficulties of the marketing system, and gives recommendations for improvements.

139. FRASER, A. H. H. Some economic aspects of the Scottish sheep industry. Scot. J. Agr. 16:152-160. Apr. 1933. 10 Sco82So

Recommends mutton marketing improvements through better sales organization, national grading and marking, and clever advertising.

140. GERRARD, F., ed. The book of the meat trade. London, Caxton, 1949. 2 v. Ref. 50 G323B

Partial contents: Meat inspection and hygiene, the cutting and preparation of beef and veal, shop fitting and equipment, transportation, and meat distribution.

141. GORNALL, W. B. Bacon market in the United Kingdom. Canada. Dept. Trade & Com. Com. Intel. J. 74:1-13. Jan. 5, 1946. 286.8 C16

Topics include marketing during World War II; the development of bacon marketing; import trends, 1909-39; consumption per capita; bacon prices; wartime storage and rationing; and the postwar market.

142. GT. BRIT. LIVESTOCK COMMISSION. First report for the period 1st August, 1937, to 31st March, 1938. London, H. M. Stationery Off., 1938. 280.3409 G79

Marketing.

143. JONES, A. Some aspects of meat distribution and consumption. Agr. Econ. Soc. J. Proc. 2(1):43-59. Mar. 1932. 281.9 Ag8

Discussion, p. 59-61.

Analyzes the results of a survey wherein butchers, meat salesmen and householders in Loughborough, County of Leicester, England, were interviewed during 1930.

144. MACAULEY, C. P. Pig marketing in Northern Ireland. Scot. Farmer 54:534-535. Mar. 30, 1946. 10 Sco8

The grading of live pigs, shrinkage losses, and the success of the Northern Ireland Pigs Marketing Scheme.

145. MACGREGOR, J. J. Livestock movements in the Southwest. Gt. Brit. Min. Agr. J. 40:405-413. Aug. 1933. 10 G79J

Traffic in cattle, calves, sheep and pigs in this part of England.

146. MILLER, H. G. The sheep trade position. Scot. J. Agr. 16: 304-313. July 1933. 10 Sco82So

On the relationship between the sheep population of Great Britain and sheep prices, the varying quantities of imports, and competition of other classes of meat.

147. MURRAY, K. A. H., and SCOTT WATSON, J. A. The development of the market for beef in Great Britain. Empire J. Expt. Agr. 3:160-173. Apr. 1935. 10 Em7

Also in Oxford U. Agr. Econ. Res. Inst. Misc. Papers in Agr. Econ. (1935/38)8. Various paging. 14 p. 1938. 281.9 Ox2

Notes the four main factors in the growth of the market for meat, and analyzes beef consumption and price trends.

148. NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The marketing of Northern Ireland agricultural produce. A report on some enquiries into the conditions of marketing certain classes of agricultural produce in Northern Ireland. Belfast, H. M. Stationery Off., 1932. 159 p. 280.340 N81

Ch. 2-4 deal with the marketing of cattle, pigs, and fat and store lambs.

149. NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Report of investigators appointed by the Minister of Agriculture to enquire into the administrative and financial arrangements of the Pigs Marketing Board (Northern Ireland) under minute of appointment dated 17th September, 1938. Belfast, H. M. Stationery Off., 1939. 66 p. 280.3469 N812

Gt. Brit. Parliament. Papers by Command. Cmd. 205.

150. NORTHERN IRELAND. PIGS MARKETING BOARD. Report on the general administration, organisation and financial arrangements of the Pigs Marketing Scheme to the Minister of Agriculture by the members of the Pigs Marketing Board appointed on the 28th February, 1939. Belfast, H. M. Stationery Off., 1939. 33 p. 280.346 N81

Gt. Brit. Parliament. Papers by Command. Cmd. 208.

151. SCOTTISH NATIONAL DEVELOPMENT COUNCIL. SHEEP SUBCOMMITTEE. Report of Committee on the Sheep Farming Industry in Scotland. Scot. Natl. Devlpmt. Council. Econ. Ser. 6, 60 p. Glasgow, 1933. 281.9 Sco82

Deals in part with methods of marketing sheep and lambs in Scotland, and with the relationship between transportation charges and sheep prices.

LIVESTOCK MARKETS, AGENCIES, AND CHANNELS

General

United States

152. ABRAHAMSEN, M. A. Livestock marketing agencies in West Virginia. W. Va. Agr. Expt. Sta. B. 312, 81 p. Dec. 1943. 100 W52

A study undertaken to obtain information as to the operating setup and business practices of local slaughterhouse operators, local dealers, cooperative marketing associations, and auctions, to describe the nature and extent of business activity, to determine methods of operation, and to obtain information looking toward improvements in certain operating practices.

153. ASHBY, R. C. Channels used by Illinois farmers in marketing livestock. Ill. Agr. Col. Ext. AE2236, 18 p. Aug. 1944. 275.29 IL62P

Using the first Corn-Belt Regional Cooperative Livestock Marketing Research Project as a basis, this report analyzes the Illinois data contained therein on an area basis, points out some of the variations concealed in the averages, and indicates differences in marketing practice in different parts of the State.

154. ASHBY, R. C. Channels used by Illinois farmers in selling livestock. Ill. Farm Econ. 85:303-304. June 1942. 275.28 IL5

An analysis based on reports furnished by 3,227 farmers and stockmen.

155. ASHBY, R. C. Types of livestock markets and the price

structure. J. Farm Econ. 21:195-218. Feb.1939. 280.8 J822

Discussion by I. W. Arthur, p. 214-218.

Classifies markets into one group in which prices are readily and promptly available, and another for which prices are largely unavailable, and considers the question of price relationships between the central markets from the standpoint of buyers and sellers of livestock, and sellers of meats.

156. BJORKA, K., DOWELL, A. A., and ENGELMAN, G. Feeder cattle and sheep shipped into Minnesota. Minn. Agr. Expt. Sta. B. 359, 24 p. May 1942. 100 M66

A report based on data from records of the Minnesota Live Stock Sanitary Board and covering for the most part the period 1936-40.

157. BROWN, A. J., and PHILLIPS, C. D. Market movement of livestock in Kentucky. Ky. Agr. Expt. Sta. B. 446,43 p. June 1943. 100 K41

A study of the flow of livestock through the marketing system, the types of markets used by Kentucky farmers, the reasons why farmers choose particular markets, receipts at different types of markets, speculative sales, and the destination of Kentucky livestock.

158. CORN BELT LIVESTOCK MARKETING RESEARCH COMMITTEE. Marketing livestock in the Corn Belt region. S. Dak. Agr. Expt. Sta. B. 365,198 p. Nov.1942. 100 So82

"Prepared by Knute Bjorka in collaboration with the other members of the committee."

A study the purpose of which was to determine the number, type, and location of marketing agencies and processors, how and where farmers sell and buy livestock, and the marketing methods and practices followed by farmers, by the middlemen who handle livestock, and by processors.

159. COTTON, W. P. Livestock marketing practices in South Dakota. S. Dak. Agr. Expt. Sta. B. 362,79 p. June 1942. 100 So82

An inquiry dealing with the volume of cattle, hogs and sheep bought and sold by farmers and ranchers in this State in 1940; with the use made of various types of marketing agencies in moving animals from the farm to the feed lot and pasture or to the processor; and with the organization, customs and practices of these existing marketing agencies.

160. CURTISS, W. M., and MATZEN, E. H. Marketing New York livestock. N. Y. (Cornell) Agr. Expt. Sta. B. 744,36 p. Dec.1940. 100 N48C

Marketing at terminal markets and community livestock auctions, and direct to livestock dealers and butchers is discussed.

161. CURTISS, W. M. New York livestock goes to market. Farm Res. [N. Y. State Sta.] 12(2):15,17. Apr.1,1946. 100 N48A

Available marketing facilities, meat consumption in New York, and suggestions for improvements in the marketing system.

162. DOWELL, A. A., and ENGELMAN, G. Livestock marketing channels used by Minnesota farmers. Minn. U. Agr. Ext. Farm Business Notes 233:1-2. May 1942. 275.29 M663

Information furnished by 2,347 farmers on schedules covering the year 1940.

163. ECKERT, P. S., and SLAGSVOLD, P. L. Montana cattle shipments; sources, destinations, and character of Montana's cattle shipments. Mont. Agr. Expt. Sta. B. 358,44 p. May 1938. 100 M76

On the relationship between the number of beef cattle on farms and the number of cattle exported, the sources and destinations of exports, the influence of transportation facilities on market destinations, the seasonal movement of cattle exports, and the importance of cattle shipments in the receipts at central markets.

164. ETTESVOLD, W. L. Livestock marketing in North Dakota. N. Dak. Agr. Expt. Sta. B. 314,37 p. June 1942. 100 N813

A study made to appraise the market practices and to trace the movement of feeder and slaughter livestock from farms to feeders and processors.

165. GAYLORD, C. G. Livestock marketing in Faribault County, Minnesota. Minn. U. Agr. Ext. Pam. 135,14 p. Apr.1944. 275.29 M66P

Similar title in Minn. U. Agr. Ext. Farm Business Notes 266:1-2. Feb.23,1945. 275.29 M663

Determines market outlets used by farmers, and methods employed in transporting livestock to market for the period 1941-42.

166. HENNING, G. F. Types of outlets used by Ohio farmers in marketing and purchasing their livestock. Ohio Agr. Expt. Sta. Bimon. B. 27(214):53-55. Jan./Feb.1942. 100 Oh3S

From this survey, made in the summer and autumn of 1941, the conclusion is drawn that Ohio farmers, when ready to market their livestock, depend principally upon auctions, concentration yards, and livestock dealers, and that less than 20 percent of the slaughter livestock is marketed to terminal markets.

167. HENRY, D. L., and WILEY, J. R. Marketing slaughter livestock in Indiana. Ind. Agr. Expt. Sta. B. 522,23 p. July 1947. 100 In2P

On the classification and description of markets, the number and location of markets, the movement of livestock through types of markets, the size and number of markets used by farmers, reshipment of Indiana hogs for slaughter, and comparisons of competition and practices among types of markets.

168. HENRY, D. L. The movement of Indiana livestock from the farm to the processor. 1942. 120 p. Ref. Purdue U. Libr.

Typewritten.

Thesis (Ph.D.) - Purdue University.

A study to locate and describe the markets and marketing facilities available to farmers, and to analyze the marketing processes from the time livestock leaves the farm to the time of processing. Headings include The classification and location of markets, Sales and purchases of livestock, Practices followed in marketing livestock, Farmers changing markets and marketing agencies, and Livestock auctions.

169. HOTCHKISS, O. D. Marketing some principal crops: livestock. Oreg. Dept. Agr. B. 164:28. Dec.1949. 2 Or3

Refers to three main methods of marketing Oregon livestock, and discusses the importance of the livestock industry in Oregon.

170. HULBERT, H. H. Practices in livestock marketing—an appraisal. Amer. Coop. 16:614-624. 1940. 280.29 Am3A

Subjects include decentralization in marketing and processing, the increase of local markets and livestock auctions, weighing practices, and recommendations for a livestock cooperative program.

171. JACOB, A. W. Trends of livestock marketing in the South. Okla. Agr. Expt. Sta. Cur. Farm Econ. 20:15-22. Feb.1947. 100 Ok4
Paper presented at the Southern Agricultural Workers Meeting, Biloxi, Miss., Jan. 16, 1947.

Public markets, terminal marketing organizations, cooperative credit and selling, transportation changes, and the graded lamb project are among the subjects discussed.

172. JONES, J. M. Selling and filling practices at the lamb markets. Natl. Wool Grower 31(11):12-13. Nov.1941. 45.8 N21N

Replies to questions asked of various markets concerning lamb marketing problems.

173. KRAUSE, O. E., and CAPAROON, C. D. Wisconsin hog production and marketing. Wis. Dept. Agr. B. 295,44 p. May/June 1949. 2 W752Bu

The disposition of Wisconsin hogs in 1947, the market supply of hogs in Wisconsin, marketing methods and markets, and Wisconsin feeder pig operations.

174. LARSON, A. L. Sale of livestock by Oklahoma farmers. Okla. Agr. Expt. Sta. Cur. Farm Econ. 17:20-24. Feb.1944. 100 Ok4
Data based on information obtained by interviews and questionnaires from over 1,000 farmers concerning marketing methods which they used in 1940.

175. LIVESTOCK marketing channels used by Wisconsin farmers. Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers 13(10):1-4. Oct. 1942. 275.29 W75Ec

Principal findings of a study of records received from 1,652 farmers.

176. LOCAL livestock marketing. Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers 13(11):1-4. Nov.1942. 275.29 W75Ec

Marketing volume and operating practices of local livestock co-operatives and dealers, based on information from 10 Wisconsin counties.

177. MATZEN, E. H. Livestock marketing in New York State. 1939. 355 p. Cornell U. Libr.

Typewritten.

Thesis (Ph.D.) - Cornell University.

Based on a survey of 350 farms located in four areas of the State, on a State-wide mail questionnaire returned by 5,362 farmers, and on a schedule filled out by 2,461 high school agricultural students, this study assembles information relative to the amount of livestock marketed, the marketing practices followed by New York farmers, and the agencies involved, including dealers, local livestock butchers, community livestock auctions, and terminal livestock markets.

178. PHILLIPS, C. D. Livestock marketing program applicable to Southern areas. Amer. Coop. 17:369-379. 1942. 280.29 Am3A

On the development of the marketing system in the South, including cooperatives, the avoidance of Federal supervision by the newer markets, and the requisites to the successful operation of cooperatives.

179. SHEPHERD, G., and STRAND, N. How Iowa farmers sell their hogs. Iowa Farm Econ. 5(1):15-16. Jan.1939. 275.28 Io92

Based on data contained in the AAA hog compliance forms for 1933 showing variations in marketing practices.

180. THOMPSON, S. H. Choosing market outlets for livestock. Iowa Farm Econ. 2(2):9-11. Apr.1936. 275.28 Io92

Help to the farmer in enabling him to analyze the results of specific sales.

181. THOMPSON, S. H. County livestock marketing analysis, Guthrie county. Iowa Agr. Col. Ext. Serv. M567,28 p. Aug.1940. 275.2 Io92Cou

Types of markets used, important problems in livestock marketing, suggestions for increasing returns from livestock by more effective marketing, and the extent to which cooperatives can increase net returns in livestock marketing.

182. THOMPSON, S. H. County livestock marketing analysis, Wright county. Iowa Agr. Col. Ext. Serv. M531,21 p. Jan.1940. 275.2 Io92Cou

Deals with the types of markets used, important livestock marketing problems, suggestions for increasing returns from livestock by more effective marketing, and the extent to which cooperatives can increase net returns in livestock marketing.

183. THOMPSON, S. H. County livestock marketing survey, Worth county. Iowa Agr. Col. Ext. Serv. M524,28 p. Jan.1940. 275.2 Io92Cou

On the types of markets used, important problems of livestock marketing, suggestions for increasing returns from livestock by more effective marketing, and the extent to which cooperatives can increase net returns in livestock marketing.

184. THOMPSON, S. H. Economic trends in livestock marketing. St. Louis,Swift,1940. 174 p. Ref. 280.340 T37

Subjects include recent changes in livestock marketing, the increase of livestock income by effective marketing, and developing effective organization for cooperative livestock marketing.

185. THOMPSON, S. H. Economic trends in the marketing of Iowa livestock. 1937. 459 p. Ref. U. Minn. Dept. Agr. Libr.

Typewritten.

Thesis (Ph.D.) - University of Minnesota.

Published with slight changes under title Economic trends in livestock marketing, St. Louis, Swift, 1940. 174 p. Ref. 280.340 T37

Ch. 2, Recent changes in livestock marketing, deals in part with freight rates, direct trading and interior slaughter, grading and standardization, Government regulation, community livestock auctions in Iowa and other States, and organization of farmers for marketing; Ch. 3, How the individual farmer may increase his net livestock income by more effective marketing; Ch. 4, Developing effective organization for cooperative livestock marketing.

186. THOMSEN, F. L., and SMITH, E. B. How Missouri hogs are marketed. Mo. Agr. Expt. Sta. B. 352,18 p. Aug.1935. 100 M693

Covers the analysis of sales recorded on AAA form C. H.-54 by some 13,672 Corn-Hog Contract signers in 49 counties.

187. WILLS, W. J. Choosing a market for Illinois hogs. Ill. Farm Econ. 174/175:927-930. Nov./Dec.1949. 275.28 IL5

Notes important factors to be considered by farmers before marketing their hogs.

188. WILLS, W. J. How Illinois farmers buy and sell sheep and lambs. Ill. Farm Econ. 162/163:758-760. Nov./Dec.1948. 275.28 IL5

Subjects include points of origin, location and time of slaughter, and how slaughter sheep are purchased.

189. WILSON, P. O. Essentials of a sound approach to a solution of the livestock marketing problem. Amer. Coop. 13:361-362. 1937. 280.29 Am3A

Favors the development of a national program with efficient, well-favored sales agencies located at points where demand and volume are adequate for most economical units, with proper correlation between agencies to obtain for the producer a price fully reflecting the demand.

Local Dealers, Concentration Yards, and Local Livestock Assembly

United States

190. ASHBY, R. C. Local livestock markets in relation to Corn-Belt hog marketing. Ill. Agr. Expt. Sta. B. 408:433-624. Dec.1934. 100 IL6S

Abstract in Ill. Agr. Expt. Sta. Abs. B. 408,20 p. Dec.1934. 100 IL6S

Claims to make the following new approaches: a broader conception of what is involved in livestock marketing costs; the significance of inequalities in the price of hogs to packers; the harmful effects of

inequitable freight rates; the grouping of packers according to the method and the place of livestock purchasing and of their function in the industry; the effects of local-market operation upon terminal markets; and the possible effects of the concentration of large-volume purchases upon wholesale meat prices.

191. CROUCH, H. E. Regional livestock markets. Natl. Assoc. Mktg. Off. Proc. 20:26-30. 1938. 280.39 N213P

Results of a study made in New York State and in certain States of the Central West to serve as a basis for setting up a State-wide marketing program in New York. Subjects include the rapid growth of livestock auctions, differences of opinion concerning them, definition and general powers of a market authority, the principal features of a regional market, and financing and working of the plan.

192. ENGELMAN, G., and DOWELL, A. A. Licensed livestock buyers in Minnesota. Farm Business Notes 219:3. Mar.1941. 275.29 M663

Notes that the distribution of licensed livestock buyers is influenced both by the distribution of livestock on farms and by methods employed in marketing slaughter livestock, and that buyers appear to be more numerous in direct marketing areas than in areas where a higher proportion of the animals are consigned for sale at public markets. Fig. 1 shows the distribution of licensed livestock buyers in Minnesota as of Jan. 1, 1941.

193. HENNING, G. F. Some factors to be considered in the location of Ohio's livestock markets. Ohio State U. Dept. Rur. Econ. Mimeog. B. 175,61 p. Apr.1944. 281.9 Oh32

Analyzes the present situation and shows some of the trends affecting production and marketing, points out some of the yardsticks that can be used in market location, and applies the results of the foregoing analysis to the job of properly locating markets in this State.

194. SHEPHERD, G., and STRAND, N. V. Local hog marketing practices in Iowa. Iowa Agr. Expt. Sta. Res. B. 262:149-184. Aug.1939. 100 Io9

Shows the farmer's end of the marketing machinery in selling hogs for the year 1933.

Auctions

United States

195. ASHBY, R. C. Auctions as a method of marketing livestock. Assoc. South. Agr. Workers. Proc. 39:116-117. 1938. 4 C82

A consideration of the important problems and other factors in auction operations.

196. ASHBY, R. C. The place of livestock auction markets. Coop. J. 12:84. May/June 1938. 280.28 C7824

Analyzes the results of a study made in Illinois in the fall of 1936, and information obtained through revisiting 14 auctions in the fall of 1937.

197. BAKER, J. M. Louisiana livestock auctions. La. Agr. Expt. Sta. Mimeog. C. 10,30 p. July 1940. 100 L935

Including all auctions operating in Louisiana as of June 30, 1939, and reports from 207 livestock producers located in all parts of the State, this report has as its main purposes the determination of the economic causes for the development of auctions in Louisiana, the nature of the business, the method of operation, the economic relationship of auctions to livestock producers, and the evaluation of auctions as a method of marketing Louisiana livestock.

198. BARLOW, E. S. Urges uniform regulations for livestock

auctions. Ohio Farmer 205(4):22-23. Feb.18,1950. 6 Oh3

In favor of laws which would prevent discrimination, and cover sanitation of the markets and disease control methods in the transportation of livestock.

199. BROWN, A. J., and PHILLIPS, C. D. Livestock movement at Kentucky auction markets. Ky. Agr. Expt. Sta. B. 432,32 p. June 1942. 100 K41

Subjects include the growth and size of the Kentucky livestock auction markets, species and type of livestock sold, buyers of slaughter and other-than-slaughter livestock, and dependence upon eastern packers and upon adequate transportation.

200. BROWN, A. J., and PHILLIPS, C. D. Prices and market data on lambs, hogs, and veal calves at four central Kentucky livestock auction markets, 1926-43. Ky. Agr. Expt. Sta. B. 459,15 p. Apr.1944. 100 K41

Markets located in Lexington, Paris, Danville and Winchester.

201. CURTISS, W. M., and MATZEN, E. H. Community livestock auctions in New York State, 1938. N. Y. Agr. Col. (Cornell) A. E. 265,28 p. Apr.1939. 281.9 C81

Based on data obtained by personal interviews with the managers of 35 auctions, this study deals in part with the organization and operation of these auctions.

202. CURTISS, W. M. Livestock auctions in New York State, 1943. N. Y. Agr. Col. (Cornell) A. E. 425,5 p. Mar.1943. 281.9 C81

A report based on replies made by livestock auction managers in a mail survey, December 1942.

203. DOWELL, A. A., and ENGELMAN, G. Community livestock auction markets in Minnesota. Minn. U. Agr. Ext. Farm Business Notes 213:1-2. Sept.1940. 275.29 M663

Data on the total number, average number and percentage distribution of the different species of livestock handled at 22 Minnesota auctions during 1938.

204. DOWELL, A. A., and ENGELMAN, G. Livestock auctions in Minnesota. Minn. Agr. Expt. Sta. B. 352,39 p. June 1941. 100 M66

Studies the volume of livestock sold, and the organization, operation and public regulation of auction markets, and gives an appraisal of these auctions.

205. ECKERT, P. S., and HENNING, G. F. The livestock auction in Ohio. Ohio Agr. Expt. Sta. B. 557,27 p. Oct.1935. 100 Oh3S

Discusses the development of livestock auctions, and the handling and selling of livestock through these auctions.

206. FILLEY, H. C. Livestock auctions in Nebraska. Nebr. Agr. Expt. Sta. B. 369,16 p. Aug.1944. 100 N27

Subjects include ownership, commodities sold and their value, species and classes of livestock handled and sources of stock, transportation, area of auction markets, market policies, competition, sanitary measures, commission charges, and financial responsibility of auction companies.

207. FULLILOVE, W. T. A survey of Georgia's livestock auctions. Assoc. South. Agr. Workers. Proc. 39:117-118. 1938. 4 C82
Abstract of a paper.

208. GRAHAM, H. A. Community auction "sales day" in Oklahoma where buyers and sellers meet. Stillwater, Okla. A. & M. Col., Ext. Serv.,1932? 16 p. 275.2 Ok4C

Livestock auctions.

209. HENNEY, H. J., and NEWTON, J. T. Preliminary report on the methods of marketing Kansas livestock. Manhattan, Kans. State Col., Dept. Agr. Econ.,1934. 11 p. 280.340 K13

Community auction sales, p. 2-6.

210. HENNING, G. F. Country point auctions. Natl. Assoc. Mktg. Off. Proc. 20:21-25. 1938. 280.39 N213P

The expansion of livestock auction selling, the educational value and the weaknesses of these auctions, and operating expenses and charges.

211. HENNING, G. F., and ECKERT, P. S. Farmers' attitudes toward livestock auctions. Ohio Agr. Expt. Sta. Bimon. B. 21(182): 118-121. Sept./Oct.1936. 100 Oh3S

Lists numerous advantages and disadvantages of the livestock auction in comparison with other methods of marketing livestock by Ohio livestock producers, 1935.

212. HENNING, G. F., and ECKERT, P. S. The livestock auction in Ohio from the farmers' point of view in 1934 and 1935. Ohio State U. Dept. Rur. Econ. Mimeog. B. 89,13 p. Apr.1936. 281.9 Oh32

A summary of replies received from 283 farmers.

213. HENNING, G. F., and POLING, E. B. The livestock auction in Ohio, with a supplement on livestock dealer registrations. Ohio State U. Dept. Rur. Econ. Mimeog. B. 110,19 p. Aug.1938. 281.9 Oh32

Includes the importance of the auction as a method of marketing livestock, the advantages and disadvantages of auction marketing as reported by 207 farmers, the percentage of livestock sold through auctions, and a comparison of prices received at auctions.

214. HOLLANDS, H. F., and CLARK, A. R. Livestock auction markets in Montana, 1946. Mont. Agr. Expt. Sta. B. 451,24 p. July 1948. 100 M76

An investigation whose purpose was to determine the number and location of livestock auction markets in this State and the kinds and numbers of livestock sold through them, and to study the development, organization, physical plants, and operational methods of Montana livestock auctions, and thereby to determine favorable and unfavorable influences on the marketing of Montana livestock.

215. LIVESTOCK auction markets in New Jersey. N. J. Dept. Agr. C. 340,22 p. July 1943. 2 N46C

Traces the development of the livestock auction movement, and describes the types of auctions in New Jersey, the methods of operation, and individual auction markets.

216. MANN, L. B. Marketing livestock through auctions. News Farmer Coop. 6(11):10-11,27-28. Feb.1940. 166.2 N47

The increase in importance of the auction method of livestock sale, auction selling costs, and suggested improvements.

217. OSGOOD, O. T., and WHITE, J. W. Livestock auctions in Arkansas. Ark. Expt. Sta. B. 439,37 p. June 1943. 100 Ar42

A study the purpose of which was to determine the development, organization and operation methods, and to make a preliminary appraisal of the functions and services of local livestock auctions. Includes an analysis of the transportation of livestock to and from auctions.

218. PARVIN, D. W. Auction markets, handling over one-third of State livestock, most important outlet. Miss. Farm Res. 7(10):1,8. Oct.1944. 100 M69Mi

Material obtained from schedules secured from 929 farmers to determine the relative importance of the different livestock marketing agencies in the marketing of livestock by Mississippi producers.

219. PARVIN, D. W. An economic analysis of Mississippi auction markets. 1944. 172 p. Ref. U. Va. Libr.

Typewritten.

Thesis (Ph.D.) - University of Virginia.

Among the subjects studied are the development of livestock

auctions in this State, facilities and plant organization, operating methods, financial dealings and problems of auction companies, prices, farmer attitudes toward auctions, and regulation of livestock auctions in other States.

220. PARVIN, D. W. Livestock auctions in Mississippi. Miss. Agr. Expt. Sta. B. 400,87 p. May 1944. 100 M69

A study based on information obtained through personal visits to all 37 auctions in operation in this State as of Nov. 1, 1943, and intended to help in the further development of a sound livestock marketing system.

221. RANDELL, C. G., and MANN, L. B. Livestock auction sales in the United States. U. S. Farm Credit Admin. Coop. Div. B. 35, 116 p. Ref. May 1939. 166.2 B87

Subjects include development, plant equipment, operating methods, financial responsibility, governing statutes and regulations, and viewpoints of producers and others toward these auctions.

222. SPRUNGER, S. C. Livestock auction from operator's standpoint. U. S. Livestock Sanit. Assoc. Proc. 53:237-242. 1949, pub. 1950. 49.9 Un3R

An historical sketch of these markets in Ohio, followed by a discussion of sanitation and the responsibilities of ownership, and recommendations with respect to the enforcement of uniform regulations and the certificate of inspection for livestock auctions in general.

223. THOMPSON, S. H., and BJORKA, K. Community livestock auctions in Iowa. Iowa Agr. Expt. Sta. B. 376:273-343. Sept. 1938. 100 I09

Results of a study on the development, organization, operation and public regulation and supervision of livestock auctions in the State.

224. TREWHITT, L. C. Livestock auctions in California. Amer. Coop. 14:592-593. 1938. 280.29 Am3A

On the operation of the California Farm Bureau Marketing Association.

225. TUCKER, R. Community auctions. U. S. Livestock Sanit. Assoc. Proc. 52:12-13. 1948, pub. 1949. 49.9 Un3R

Points out the advantages of the livestock auction market, and includes references to livestock terminal markets.

226. U. S. LIVESTOCK SANITARY ASSOCIATION. SPECIAL COMMITTEE ON OPERATION OF LIVESTOCK AUCTION MARKETS. Report. U. S. Livestock Sanit. Assoc. Proc. 47:28-30. 1943, pub. 1944. 49.9 Un3R

States that the major weakness of this marketing system is the general disregard of livestock sanitary precautions, and includes sanitation inspection in its recommendations.

227. WARRINGTON, S. T., DVORACEK, D. C., and JOHNSON, E. C. Community livestock auctions. Minn. U. Agr. Ext. Farm Business Notes 166:1-3. Oct. 20, 1936. 275.29 M663

Results of a survey made in Minnesota in the spring of 1936. Organization and ownership, facilities, operation, and functions are discussed.

228. WEBB, J. What the livestock auction markets have done for Nebraska. U. S. Livestock Sanit. Assoc. Proc. 47:25-27. 1943, pub. 1944. 49.9 Un3R

On their essential nature, the regulations governing them, and the future of these markets.

229. WEIGHING livestock at auction markets. Va. Dept. Agr. B. 477:11. Mar. 1949. 2 V81B

On the efforts of the Division of Markets of the Virginia Department of Agriculture to ensure the accuracy of scales used at these markets, and the advantages of the type registering or recording

weighbeam over the conventional type weighbeam.

Cooperatives

United States

230. AABERG, H. C. Eastern cornbelt forges ahead in livestock marketing. Nation's Agr. 21(7):6-7,17. July/Aug.1946. 280.82 B89

On the operations of the Producers Livestock Cooperative Association of Columbus, Ohio.

231. AABERG, H. C. Teamwork in livestock marketing. Nation's Agr. 23(5):12,20-21. May 1948. 280.82 B89

On a plan for developing a more efficient system of cooperative livestock marketing in the western region.

232. ALLRED, C. E., BUTTERFIELD, J. P., and NESKAUG, S. R. Marketing livestock cooperatively in Tennessee. Tenn. Agr. Expt. Sta. Rur. Res. Monog. 49,37 p. Ref. June 5,1937. 173.2 W89Co

Summarizes attempts made by farmers of this State to market their hogs, sheep, beef cattle and veal calves cooperatively, and includes some factors contributing to their success or failure.

233. ARMENTROUT, W. W. Efficiency of cooperative livestock shipping associations in West Virginia. W. Va. Agr. Expt. Sta. B. 249, 92 p. Ref. May 1932. 100 W52

Examines the accomplishments of these associations, and locates factors of inefficiency, the elimination of which would make such associations more effective agencies for marketing livestock.

234. BEAMER, E. A. Adapting our livestock marketing program. Amer. Coop. 14:609-613. 1938. 280.29 Am3A

Discusses in part the benefits of cooperatives to producers, and the alertness of cooperatives in meeting changing conditions.

235. BENSON, E. T. Cooperative marketing of livestock in Idaho. Amer. Coop. 14:594-599. 1938. 280.29 Am3A

Notes that the greatest need of livestock producers in this State is an efficient marketing agency capable of meeting on equal ground with organized livestock buying to secure a true market value for their livestock.

236. BLUCK, W. L., and HAMMANS, C. W. On the road to better markets. Wilmington, Ohio,1937. 32 p. 280.245 C61

Work of the Clinton County [Ohio] Lamb and Fleece Improvement Association in connection with the cooperative marketing of lambs.

237. BOWLES, C. E. 4,500 ranchmen do their own marketing. Prog. Farmer, Tex. Ed. 65(2):140-141. Feb.1950. 6 T311

The Texas Livestock Marketing Association.

238. BROOKER, M. A., and HAMILTON, H. G. Farmers' cooperative associations in Florida. II. Organization and management. Fla. Agr. Expt. Sta. B. 263,100 p. June 1933. 100 F66S

Cooperative marketing of livestock and livestock products, p. 90-96.

239. BRUNGTON, G. Problems and opportunities in cooperative stocker and feeder marketing and purchasing. Amer. Coop. 13:301-306. 1937. 280.29 Am3A

On the direct movement of feeder cattle and lambs, particularly as it relates to the activity and experience of the Iowa Live Stock Marketing Corporation.

240. CLAFLIN, C. F. Building a livestock cooperative by means of local trucking associations. Amer. Coop. 17:351-355. 1942. 280.29 Am3A

Organization and operation of the Equity Cooperative Livestock Sales Association, Milwaukee.

241. CLAFLIN, C. F. Modernizing livestock cooperative

services. Amer. Coop. 15:453-458. 1939. 280.29 Am3A

Largely on the Equity Cooperative Livestock Sales Association, Milwaukee.

242. CONYERS, L. N. Buckeyes speed livestock to market. U. S. Farm Credit Admin. News for Farmer Coop. 16(3):5-6,14. June 1949. 166.2 N47

The Producers Livestock Cooperative Association of Columbus, Ohio.

243. COOPERATIVE marketing of livestock in West Virginia. U. S. D. A. Ext. Serv. Rev. 4:73. Sept.1933. 1 Ex892Ex

A brief historical summary, followed by an account of the nature of the program, and the benefits to producers.

244. DAVIS, I. The Schuyler County, N. Y., lamb marketing program. Amer. Agr. 146:506,519. Oct.1,1949. 6 Am3

On the work of the Producers' Marketing Co-op of Ohio, the Schuyler County Farm Bureau Livestock Committee, and the Empire Livestock Marketing Co-op., Inc.

245. DENMAN, C. B. Cooperation is great need of livestock producers. U. S. Fed. Farm Bd. Press Serv. 3-21,8 p. 1932. 166 P92

Address, Producers Cooperative Commission Assoc., Cincinnati, Feb. 18, 1932.

Subjects include the development of the centralized system of livestock marketing, the spread of livestock marketing cooperatives, and the assistance given to cooperative associations by the Federal Farm Board.

246. DENMAN, C. B. Cooperative purchasing of feeder cattle and lambs. Amer. Coop. 12:332-333. 1936. 280.29 Am3A

An investigation into the reasons why cooperative livestock marketing agencies have not made greater progress in the handling of feeders.

247. DOWELL, A. A., and WARRINGTON, S. T. Livestock shipping associations. Minn. Agr. Expt. Sta. B. 339,24 p. Nov.1938. 100 M66

Analyzes the organization and operation of the local cooperative livestock associations in Minnesota during 1936, as well as the various factors responsible for the changes that have taken place in the number of associations and members, and in the volume of business handled; indicates some of the more important problems confronting individual producers in marketing their livestock; and discusses possible methods of assisting producers in solving their problems.

248. DOWELL, A. A. Local cooperative livestock shipping associations in Minnesota. Minn. U. Agr. Ext. Farm Business Notes 187:3. July 1938. 275.29 M663

On the development of the cooperative livestock shipping association movement, the increase of market outlets, and the necessity for marketing organization.

249. DURANT, A. L. Co-operative marketing of hogs in South Carolina. Assoc. South. Agr. Workers Proc. 39:119-120. 1938. 4 C82

Abstract of a paper.

250. ELSWORTH, R. H. Statistics of farmers' cooperative business organizations, 1920-1935. U. S. Farm Credit Admin. Coop. Div. B. 6,129 p. May 1936. 166.2 B87

Livestock marketing associations, p. 64-72.

251. FAIRCLOTH, D. D. Cooperative marketing of livestock at local points. Amer. Coop. 17:380-383. 1942. 280.29 Am3A

On the requisites to the successful operation of livestock marketing cooperatives in general, and on the experience of the Gulf

Co-operative Marketing Association, Inc., Trenton, Fla., in particular.

252. FARM CREDIT ADMIN. OF COLUMBIA. DIV. OF RESEARCH. Sale of hogs through Orangeburg Live Stock Association, 1938-1942. Columbia, S. C., 1943? 9 p. 280.246 F22

On the type of market, grade and price, and the sale of hogs by months.

253. FETROW, W. W. Cooperative marketing of agricultural products. U. S. Farm Credit Admin. Coop. Div. B. 3,106 p. Ref. Feb.1936. 166.2 B87

Farmers' livestock-marketing organizations, p. 57-68.

254. FIFE, T. W. Cooperative livestock marketing. II. The western Corn Belt. Amer. Coop. 18:819-820. 1946. 280.29 Am3A

Reasons for the rapid growth of the practice of direct buying and selling, with a statement of the function, obligations, opportunities, and limitations of cooperative livestock marketing agencies.

255. GARDNER, C. Beginnings of cooperative livestock marketing. Washington, U.S. Bur. Agr. Econ., 1947. 11 p. 1.9 Ec723BL 1947

The importation of livestock, driving livestock to market, selling livestock cooperatively, livestock marketing by granges, unsatisfactory marketing conditions, and the rapid growth of livestock shipping.

256. GARDNER, W. D. Our producers wanted truck service! U. S. Farm Credit Admin. News Farmer Coop. 7(5):19-20. Aug. 1940. 166.2 N47

The Central Cooperative Association, a farmer-owned livestock sales agency with headquarters on the South St. Paul market and serving producers of Minnesota, Wisconsin, North and South Dakota, and Montana.

257. HALL, H. W. Modern marketing. Nation's Agr. 24(4):9-10. Apr.1949. 280.82 B89

Principally on cooperative livestock marketing in Indiana and Ohio.

258. HANKS, F. E. Problems and opportunities in cooperative stocker and feeder marketing and purchasing. Amer. Coop. 13:298-300. 1937. 280.29 Am3A

Cooperative marketing as the means of cutting the spread between the purchase and the final delivery price.

259. HARPER, J. D. Status of cooperative livestock marketing. Amer. Coop. 10:277-283. 1934. 280.29 Am3A

Discussion, p. 283.

Subjects include the broadening of the services of cooperative livestock marketing associations, achievements of these cooperatives, the problem of direct marketing, and the need for more aggressive selling methods.

260. HAWLEY, W. R. Cooperative marketing of livestock in Oregon. Amer. Coop. 14:600-602. 1938. 280.29 Am3A

Principally on the organization and functioning of the Baker Cooperative Shipping Association, Baker, Ore.

261. HEMMING, R. V. Operation Empire! Amer. Agr. 147:141, 143. Mar.4,1950. 6 Am3

On the Empire Livestock Marketing Cooperative and the livestock auction markets which it operates in New York State.

262. HENNING, G. F., and POLING, E. B. Attitudes of farmers toward cooperative marketing. Ohio Agr. Expt. Sta. B. 606,36 p. Sept.1939. 100 Oh3S

Livestock in Ohio.

263. HENNING, G. F. Problems confronting farmers in marketing hogs. Amer. Coop. 13:307-320. 1937. 280.29 Am3A

Results of a study made in 14 Ohio counties in which 326 farmers were interviewed. Reasons for patronizing co-ops are included.

264. HOAG, W. G. Shorter hauls—a co-op auction's contribution. U. S. Farm Credit Admin. News Farmer Coop. 9(1):19-20. Apr. 1942. 166.2 N47

Livestock auctions in California.

265. HULBERT, H. H. Cooperative marketing of livestock at Cincinnati by the Producers Cooperative Commission Association. U. S. Farm Credit Admin. Coop. Div. B. 34, 130 p. May 1939. 166.2 B87

Development and structure of the association, major trends in receipts, operating statistics on commissions, costs and savings, significance of transportation to cooperative marketing of livestock, and sales policies.

266. HULBERT, H. H. Distribution of savings by cooperative livestock associations. U. S. Farm Credit Admin. Misc. Rpt. 56, 7 p. Aug. 1942. 166.3 M68

An account of the practices followed by a number of associations, and suggested procedure.

267. HULBERT, H. H. Empire Livestock sells under hammer. U. S. Farm Credit Admin. News Farmer Coop. 16(11):9-10, 21. Feb. 1950. 166.2 N47

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268. HULBERT, H. H. Organization and operation of the Illinois Livestock Marketing Association. U. S. Farm Credit Admin. Coop. Div. B. 5, 140 p. May 1936. 166.2 B87

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269. IDAHO lamb pool sales. Natl. Wool Grower 31(11):34-36. Nov. 1941. 45.8 N21N

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270. JACOB, I. H. Direct movement of feeder livestock through cooperatives. Amer. Coop. 12:345-346. 1936. 280.29 Am3A

Discusses reasons for the rapid growth of the movement of feeder livestock direct from the range and ranch to the feed lot, and summarizes some of the disadvantages of present methods of direct handling through speculative channels.

271. JACOB, I. H. Livestock marketing problems in the Range States. Amer. Coop. 19:499-501. 1947. 280.29 Am3A

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272. JOHNSON, E. C., and MCNULTY, J. B. Livestock shipping associations in Minnesota. Minn. Agr. Expt. Sta. B. 302, 27 p. Mar. 1934. 100 M66

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273. JOHNSON, I. B. Cooperative livestock marketing study of the Central States. Great Plains Agr. Adv. Council. Program, 1947, sup., p. 6-9. 4 G79; also 282.9 G7992

On the marketing research performed by the Regional Committee.

274. KLINE, A. B. Cooperative marketing of swine from the Iowa producer's standpoint. Amer. Coop. 13:321-323. 1937. 280.29 Am3A

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sales on carcass, grade, and weight.

275. KLINEFELTER, H. E. Our partnership in cooperative live stock marketing. Mo. Farmer 35(15):3-5. Aug.1,1943. 6 M696

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276. LUCK, J. K. Cooperative auction method. Amer. Coop. 17: 195-197. 1942. 280.29 Am3A

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277. MANN, L. B. Appraisal of cooperative livestock marketing in the South. Amer. Coop. 17:333-340. 1942. 280.29 Am3A

The extent of livestock cooperatives, and weakness in the system.

278. MANN, L. B. Cooperative marketing of range livestock. U. S. Farm Credit Admin. Coop. Div. B. 7,134 p. Aug.1936. 166.2 B87

Based on a study of the problems involved in the marketing and financing of cattle and sheep produced in the western range States, this bulletin deals principally with the growth and development of co-operative livestock marketing associations in this territory.

279. MANN, L. B. Development of co-operative livestock marketing in the eastern States. Natl. Assoc. Mktg. Off. Proc. 14:27-28. 1932. 280.39 N213P

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280. MANN, L. B. Post-war possibilities for livestock co-ops. U. S. Farm Credit Admin. News Farmer Coop. 11(1):4,19-21. Apr. 1944. 166.2 N47

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281. MANN, L. B. Using your livestock co-op. U. S. Farm Credit Admin. C. E. 7,13 p. 1939. 166.2 C4926

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282. MANN, L. B. Western cattle and sheep areas described for the use of cooperative marketing and credit associations. U. S. Farm Credit Admin. Coop. Div. C. 103,101 p. Sept.1936. 166.2 C4923

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283. MANN, L. B. What's ahead in co-op livestock marketing. News Farmer Coop. 5(12):3-4,12-14. Mar.1939. 166.2 N47

This statement of the major changes and problems confronting co-operative livestock marketing discusses in part the growth of direct marketing, decreased volume to public markets and to shipping associations, and decentralized marketing and processing, and suggests ways by which improvements might be effected in the present marketing system through cooperative action.

284. MEIKS, S. Wartime problems in handling sheep and lambs. Amer. Coop. 1942-45:249-252. 280.29 Am3A

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285. MILLER, P. L., and SHEPHERD, G. Cooperation in agriculture; livestock marketing. Iowa. Agr. Expt. Sta. B. 306:73-95. Aug.1933. 100 I09

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286. MITCHELL, J. W. Cooperative purchasing and financing of feeder cattle and lambs. Amer. Coop. 16:611-613. 1940.

280.29 Am3A

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287. PARKE, H. H. Cooperative livestock marketing at a terminal agency. Ill. Agr. Col. Ext. AE551:38-41. Jan.1937. 275.29 IL62P

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288. POTTER, A. F. Organization of producers for marketing hogs. Amer. Coop. 13:342-350. 1937. 280.29 Am3A

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289. PRODUCERS LIVE STOCK COMMISSION ASSOCIATION. The development of cooperative live stock marketing. St. Louis,1947? 32 p. 280.240 P94

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290. PRODUCERS LIVESTOCK COOPERATIVE ASSOCIATION. Report of the cooperative efforts of 61,180 livestock farmers who own and direct the Producers Livestock Cooperative Association and its subsidiaries the Eastern Order Buying Company, and the Producers Livestock Credit Association. Columbus,1944? 24 p. 280.2409 P942

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291. RANDELL, C. G. Co-operative livestock marketing plan needed in the Southern States. Assoc. South. Agr. Workers. Proc. 39:118-119. 1938. 4 C82

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292. RANDELL, C. G. Livestock co-ops meet changing conditions. U. S. Farm Credit Admin. News Farmer Coop. 16(10):15-16. Jan.1950. 166.2 N47

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293. RANDELL, C. G. Livestock leaders challenge themselves. U. S. Farm Credit Admin. News Farmer Coop. 16(12):12-14. Mar. 1950. 166.2 N47

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294. RANDELL, C. G. Needs and possibilities of marketing livestock cooperatively. Washington? U. S. Farm Credit Admin.,1949. 9 p. 1.955 A2R15 Dec.12,1949

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295. RANDELL, C. G. Selling livestock direct to packers through concentration points. Amer. Coop. 10:302-311. 1934. 280.29 Am3A

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296. RUSSELL, S. F. Cooperative livestock marketing. III. The Illinois plan. Amer. Coop. 18:821-824. 1946. 280.29 Am3A

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coordinated livestock marketing agency.

297. SALISBURY, G. They've found a good way to market calves. *Successful Farming* 48(5):90,92-93. May 1950. 6 Su12

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298. SAMPIER, J. National Producers now markets live stock for 450,000 stockmen. *Natl. Live Stock Prod.* 28(6):6,19,24. Mar.1950. 280.38 N21

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299. SHEPHERD, G., and NELSON, K. Farm business association members hit the hog market. *Iowa Farm Econ.* 6(8):15. Aug. 1940. 275.28 Io92

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300. SHUMAN, C. B. Cooperative marketing of livestock thru a local shipping association. *Ill. Agr. Col. Ext. AE551:33-37.* Jan. 1937. 275.29 IL62P

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301. STUBBS, C. When Central sells your hogs. *Cent. Co-op. Shipper* 30(5):4-6. May 1950. 280.38 C78

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302. SWANSON, D. L. Effective selling methods on a large central market. *Amer. Coop.* 15:459-468. 1939. 280.29 Am3A

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303. SWANSON, D. L. How can a terminal livestock cooperative serve local associations selling direct to packers? *Amer. Coop.* 10:293-301. 1934. 280.29 Am3A

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304. THOMPSON, S. H. Farm cooperatives in Iowa. II. Livestock cooperatives. *Iowa Farm Econ.* 5(4):9-12. Oct.1939. 275.28 Io92

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305. THOMPSON, S. H., and MILLER, P. L. A method of analyzing the effectiveness of local livestock cooperatives in selling hogs. *Iowa Agr. Expt. Sta. Res. B.* 193:33-70. Jan.1936. 100 Io9

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306. THOMPSON, S. H. Organization of producers for marketing hogs. *Amer. Coop.* 13:324-341. 1937. 280.29 Am3A

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307. WARD, G. H. Livestock marketing experiences in Virginia. *Amer. Coop.* 9:244-254. 1933. 280.29 Am3A

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308. WENTWORTH, E. N. Cooperation; the evolving meat industry. *Natl. Live Stock Mktg. Assoc. Proc.* 2,various paging. 8 p.

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309. WHITE, E. D. Marketing livestock through cooperative shipments. Ark. Agr. Col. Ext. C. 320,15 p. June 1933. 275.29 Ar4

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310. WILSON, P. O. Cooperative livestock marketing in the Middle West today. Amer. Coop. 16:587-588. 1940. 280.29 Am3A

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311. WILSON, P. O. Farmer-owned live stock marketing cooperatives—their place in the competitive market. Colo. Wool Grower & Marketer 12(7):3-4,11-12. Sept.1946. 280.38 C71

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313. WILSON, P. O. Livestock. Amer. Coop. 21:165-168. 1949. 280.29 Am3A

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314. COOPERATIVE activities. J. Agr. & Hort. [Quebec] 39:46. Nov.1935. 7 J82J

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316. CURTIS, N. The co-operative method of livestock marketing. Co-op News 17(11):9-10. Nov.1943. 280.28 C7899

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318. FLOWER, H. Co-operative marketing of wool and livestock. Queensland Co-op. 4(8,i.e.,9):10-12. May 26,1949. 280.28 Q3

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Public Markets and Commission Companies

United States

319. ADAMS, P. G. Objectives and functions of the national and local live stock exchanges. Amer. Soc. Anim. Prod. Proc. 29:212-217. 1936. 389.9 Am3R

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transactions, and of the efforts of the exchanges with respect to the health of livestock and the maintenance of price levels favorable to producers and feeders.

320. ASHBY, R. C. Illinois stockmen patronize central markets. *Ill. Farm Econ.* 59:337-338. Apr.1940. 275.28 IL5

An analysis of hog sales for 1939 as reported by farmers in 10 counties in connection with county livestock marketing meetings.

321. BAKER, A. Z. Your central markets. *Natl. Wool Grower* 39(5):14-15,27-29. May 1949. 45.8 N21N

Lambs and sheep. Topics include home and competitive sales, competitive sales with agency representation, prices, facilities and services of large central markets, and Government regulation and supervision.

322. BAKER, J. M. Baton Rouge city abattoir: relation to the retail meat supply, production and marketing problems of farmers. *La. Agr. Expt. Sta. B.* 351,20 p. June 1942. 100 L93

A study whose purpose is to ascertain the extent to which the Baton Rouge Abattoir has achieved the objectives for which it was established; to show its relation to the retail meat supply and to the local livestock industry; to furnish information of help in determining whether the plant should be continued in operation; and to show the advantage of uniting the operation of the abattoir with other marketing units needed by the farmers.

323. BAKER, J. M. Survey of the New Orleans livestock market since 1925. *La. Agr. Expt. Sta. B.* 300,36 p. Sept.1938. 100 L93

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324. BJORKA, K. Estimating livestock receipts at public markets. *Washington, U. S. Bur. Agr. Econ.*, 1940. 37 p. 1.941 M1Es8

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325. COOK, M. J. Handling of yardage and commission rates. *Amer. Cattle Prod.* 31(5):13,29-31. Oct.1949. 49 P94

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326. COOPER, M. O. Yardage and commission charges at public markets. *Natl. Wool Grower* 26(3):19-21,31-32. Mar.1936. 45.8 N21N

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327. CREW, W. C. Marketing in pace with the times. *Rec. Stockman, Annu. Ed.* 60(52):53-54. 1950., pub. Dec.29,1949. 49 D43

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328. DANNER, M. J., LUEBKE, B. H., and RASKOPF, B. D. Development and present importance of Nashville livestock market. *Tenn. Agr. Expt. Sta. Rur. Res. Monog.* 205,47 p. July 1946.

173.2 W89Co

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329. DANNER, M. J., LUEBKE, B. H., and RASKOPF, B. D. Facilities and agencies at Nashville livestock market. Tenn. Agr. Expt. Sta. Rur. Res. Monog. 206,29 p. Aug.1946. 173.2 W89Co

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330. DANNER, M. J., LUEBKE, B. H., and RASKOPF, B. D. Transportation and market news service at Nashville livestock market. Tenn. Agr. Expt. Sta. Rur. Res. Monog. 210,37 p. Oct.1946. 173.2 W89Co

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331. DUDDY, E. A., and REVZAN, D. R. The changing relative importance of the central livestock market. J. Business U. Chicago 11(3,pt.2),165 p. July 1938. 280.8 J825

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332. DUDDY, E. A., and REVZAN, D. A. The distribution of livestock from the Chicago market, 1924-29. J. Business U. Chicago 5(4,pt.2),102 p. Oct.1932. 280.8 J825

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333. GETTINGER, D. O. Centralized marketing of livestock. Amer. Coop. 12:329-331. 1936. 280.29 Am3A

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334. GORMAN, T. C. The central livestock market. Oreg. Dept. Agr. Agr. B. 149:7-8. Mar.1946. 2 Or3

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335. GREENSHIELDS, E. Source of cattle and calf receipts at the Oklahoma City market. Okla. Agr. Expt. Sta. Cur. Farm Econ. 5:36-37. June 1932. 100 Ok4

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336. HEINEMANN, C. B. American live stock markets and marketing. Chicago,1938. 241 p. 280.340 H36

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337. LAMBRECHT, G. H., and GAREY, L. F. Cost of marketing hogs shipped to the Omaha market. Nebr. Agr. Expt. Sta. B. 340, 16 p. Apr.1942. 100 N27

Based on data obtained from two of the important livestock commission agencies operating at the Union Stock Yards, Omaha, on 235,547 hogs consigned from various points in Nebraska, this study covers transactions occurring on Tuesday, Wednesday and Thursday of each week, 1930-35, inclusive.

338. MATZEN, E. H., and CURTISS, W. M. Marketing New York veal at terminal markets. Cornell U. Dept. Agr. Econ. & Farm Mangt. Farm Econ. 117:2888-2891. Feb.1940. 280.8 C812

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339. MATZEN, E. H. Selling New York livestock through terminal markets. N. Y. Agr. Col. (Cornell) AE289,47 p. Dec.1939. 281.9 C81

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340. MOLLIN, F. E. Stock-yard charges at Omaha. Producer 13(9):10-12. Feb.1932. 49 P94

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341. NATIONAL Association of Marketing Officials reviews producer-distributor problems at Cleveland. State & Fed. Mktg. Activ. 18:163-172. Nov.16,1938. 1.9 M34Sm

Brief summaries of papers presented at the 20th annual convention of the Association. Cleveland, Nov. 10, 11 and 12, 1938.

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342. NORTON, L. J., and ASHBY, R. C. Price differences between four hog markets used by Illinois stockmen: Chicago, East St. Louis, Indianapolis, and Cincinnati. Ill. Agr. Expt. Sta. B. 380:121-154. July 1932. 100 IL6S

Subjects studied include factors influencing farmers in the choice of markets in competitive territory, the nature of the markets under consideration, comparability of quotations at different markets, comparability of markets, the influence of faster train schedules on intermarket price differences, and suggestions for reducing intermarket variations.

343. OSGOOD, O. T., and HEDGES, T. R. Marketing livestock at the West Fort Smith stockyards. Ark. Agr. Expt. Sta. B. 441,61 p. June 1943. 100 Ar42

On the origin, development, organization and market area, the volume, distribution and transportation of livestock, April 1940-March 1941, and factors affecting prices of calves, cows, steers, heifers, bulls, hogs, and sheep and lambs.

344. REED, H. E. The livestock exchange in post-war marketing. Natl. Live Stock Exch. Proc. 59:19-25. 1947. 49.9 N215P

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345. ROWAN, W. S., and LUEBKE, B. H. Facilities and agencies at Knoxville livestock market. Tenn. Agr. Expt. Sta. Rur. Res. Monog. 148,25 p. Apr.1,1943. 173.2 W89Co

Gives an over-all view of this market, and discusses the problems connected with the marketing of livestock.

346. ROWAN, W. S., LUEBKE, B. H., and RASKOPF, B. D. Volume, transportation and use by local farmers [of] Knoxville livestock market. Tenn. Agr. Expt. Sta. Rur. Res. Monog. 203,38 p. June 1946. 173.2 W89Co

Based on a study made in 1940, this monograph contains data obtained from Knoxville packers, the management of the Union Stock Yard, farmers, and traders.

347. TUCKER, H. Marketing cattle and calves through the Spokane stockyards. Wash. Agr. Expt. Sta. Pop. B. 196:1-23. Jan.1950. 100 W27E

Furnishes data on the source of livestock, the seasonality of marketings, the most efficient marketing weights, and prices paid for fat and feeder livestock.

348. WILSON, A. F. Central markets. Amer. Cattle Prod. 21(12): 8-10. May 1940. 49 P94

Their development and essential nature, the advantages which they offer, and the rates charged.

United Kingdom

349. MACGREGOR, J. J. Stock markets in North Devon and North Cornwall. Farm Econ. 1:55-57. July 1933. 281.8 F223

This study of the area having the greatest density of livestock markets in England discusses in part the advantages and disadvantages of the prevalence of small markets here.

350. SKILBECK, D. A farmers' live stock market. (Midland Marts Limited, Banbury, Oxon.) Roy. Agr. Soc. Eng. J. 93:111-130. 1932. 10 R81

The development of livestock marketing in Great Britain in general, and the evolution of this market in particular.

Direct Marketing

United States

351. ASHBY, R. C., and RUSK, H. P. Decentralizing of markets may affect stock returns. Ill. Agr. Expt. Sta. Annu. Rpt. 46:101-105. 1933. 100 IL6S

Studies made for the purpose of aiding Illinois stockmen in appraising more accurately the relative advantages and disadvantages of the increasing number of market outlets.

352. ASHBY, R. C. Selling at home versus selling at central markets. Natl. Wool Grower 31(2):40-42. Feb.1941. 45.8 N21N

Address, 76th annual convention, National Wool Growers Assoc., Spokane, Jan. 22, 1941.

Discusses in part the importance of buying competition, the influence of marketing methods on prices, the sale of lambs on the basis of grade and actual quality, the selection of the best market, transit or reconignment privileges, freight rate discrimination, and important groups of packers.

353. BJORKA, K. Direct buying of livestock. Agr. Situation 23(4):12-14. Apr.1939. 1 Ec7Ag

Data on calves, cattle, hogs, sheep and lambs, 1923-38.

354. BJORKA, K. Direct buying of slaughter livestock by regions, 1923-37. Washington, U. S. Bur. Agr. Econ., 1939. 28 p. 1.9 Ec713Di

Cattle, calves, hogs, sheep and lambs. Includes a comparison of direct buying by national packers with buying by other packers, and factors contributing to the increase in direct marketing.

355. BJORKA, K. Direct marketing of stockers and feeders. Agr. Situation 23(9):17-18. Sept.1939. 1 Ec7Ag

Cattle and sheep, 1920-38.

356. CADY, E. L. The development of direct marketing of hogs in Iowa. n.p., 1933. 301 p. Ref. 280.346 C11

Thesis (Ph.D.) - Iowa State College.

Presents a long time picture of this development, and examines the accuracy of the belief that direct marketing is an innovation which has sprung up during the last decade.

357. CUDAHY PACKING COMPANY. Proposed code of fair competition for stockyards operators; docket No. 153. Chicago, 1934. 8 p. 280.340 C89

Presents certain features respecting direct selling.

358. DIRECT marketing. Purdue Agr. 31:12. Oct. 1936. 6 P97

The origin and growth of this type of livestock marketing in the United States.

359. DIRECT marketing in the West. Producer 15(12):11-14. May 1934. 49 P94

On proposed legislation which would control direct buying by packers.

360. HENDERSON, G. Short cuts to the hog market. Colo. Agr. Col. Ext. B. 336-A, 19 p. Oct. 1934. 275.29 C71E

Direct marketing, United States.

361. MCNAIR, M. P., and HANSEN, H. L. Problems in marketing. New York, McGraw-Hill, 1949. 718 p. 280.3 M232Pr

A case study in the direct marketing of hogs, p. 323-330.

362. RICHARDS, P. Livestock marketing methods and livestock prices. J. Farm Econ. 21:219-227. Feb. 1939. 280.8 J822

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363. ROBERTS, J. F. Changing conditions in the distribution of livestock and meat products in the eastern States. Amer. Coop. 16: 633-636. 1940. 280.29 Am3A

Notes reasons why market decentralization to eliminate farm selling power or price-making is economically unsound.

364. SMITH, R. Q. Centralized selling of livestock. Amer. Coop. 17:341-350. 1942. 280.29 Am3A

On the alleged fallacy of decentralization, and the advantages of regulated, terminal central markets.

365. U. S. BUR. OF AGRICULTURAL ECONOMICS. The direct marketing of hogs. U. S. D. A. Misc. P. 222, 230 p. Ref. Mar. 1935. 1 Ag84M

A study undertaken because of the troublesome questions and problems which arose from the marked expansion in the direct marketing of hogs in the previous decade, and which came to assume added importance in connection with programs considered under the U. S. Agricultural Adjustment Act.

Canada

366. CHOWN, W. F., HUDSON, S. C., and LEWIS, J. N. The direct marketing of live stock. Canada. Dept. Agr. Farmer's B. 107, 30 p. Nov. 1941. 7 C16F

An historical summary, followed by an account of recent changes and the present situation, a comparison of the cost to packers of livestock purchased direct and through stockyards, and a comparison of returns to farmers for livestock marketed direct and through stockyards.

United Kingdom

367. RAYMOND, J. Direct marketing in Great Britain. Producer 15(4):18. Sept. 1933. 49 P94

Describes the development and the extent of this method, and refutes

the allegation that legislation exists in England to prevent slaughter stock from being sold on any other than recognized markets.

TRANSPORTATION

United States

368. BJORKA, K. Railroad facilities for handling livestock at shipping points in the Corn Belt region. Washington, U. S. Bur. Agr. Econ., 1943. 39 p. 1.941 M2R13

A statement of the problem, followed by a study of the availability of stockyards, the number of pens and the capacity of stockyards, and loading, weighing and water facilities.

369. BUCHEL, F. A. Livestock shipments in Texas; monthly shipments and receipts from and to Texas classified by points of origin and destination on a district basis. Austin, U. Texas, 1933-40. 2 pts. 280.340 B86

Pt. 1 also 280.9 T312 no. 10

Pt. 1, Cattle and calves, 1925-32; pt. 2, Hogs and sheep, 1925-39.

370. COCKERILL, P. W. Freight rates on New Mexico livestock and feed. N. Mex. Agr. Expt. Sta. B. 346, 14 p. Dec. 1948. 100 N465

Claims that these rates are inequitable when compared with rates in other nearby producing areas, describes these inequities, and suggests courses of action open to producers desirous of improving the situation.

371. CORN BELT LIVESTOCK MARKETING RESEARCH COMMITTEE. Preliminary report on increasing livestock transportation efficiency. Columbia, Mo. Mo. Agr. Expt. Sta., 1944. 5 p. 280.340 C81

Based on the findings of a project begun in the spring of 1942 because of the war emergency.

372. CORN BELT LIVESTOCK MARKETING RESEARCH COMMITTEE. Trucking livestock in the Corn Belt region. Mo. Agr. Expt. Sta. B. 479, 56 p. June 1944. 100 M693

A study comprising the following phases: transportation arrangements in selected local communities to determine the facilities available, the volume of inbound and outbound traffic, the origins and destinations of shipments, and the type of carriers; livestock assembly in the country; the extent to which trucks delivering livestock to markets were loaded to capacity; the nature and extent of return loads; and existing railroad facilities for handling livestock at shipping points in the country.

373. DOWELL, A. A., and CLELAND, S. B. Reducing mileage in farm transportation. Minn. Agr. Expt. Sta. B. 373, 28 p. Dec. 1943. 100 M66

Dealing in part with livestock, this study was made in Martin County, Minn., where data were furnished by farmers who filled out a schedule during the period Aug. 2-8, 1942.

374. DOWELL, A. A. A study of livestock trucks at Minnesota markets. Minn. Agr. Expt. Sta. Misc. Rpt. 2, 16 p. June 1943. 100 M66

The main objectives of this study were to determine the age, condition, size, and ownership of a representative sample of trucks unloading at various types of both public and private markets, and to determine the operating efficiency of these trucks according to type of truck ownership, type of market, and distance from market.

375. ROSS, H. M., and others. Transportation of livestock by motor truck to the Kansas City market. Kans. Agr. Expt. Sta. B. 324, 59 p. Jan. 1945. 100 K13S

F. L. Parsons, C. P. Williams, and J. H. McCoy, joint authors.

Results of surveys made in May 1942 and December 1943.

376. HAAG, H. M. Transportation of livestock in the Boone County [Mo.] area, with estimates of possible savings. Columbia? Missouri U. Col. Agr., Dept. Agr. Econ., 1943. 27 p. 289.4 M69

Analyzes information obtained by personal interview and from truckers' records on each load of livestock hauled to the St. Louis and Kansas City markets during the week ended Dec. 3, 1942.

377. HENNING, G. F., and POLING, E. B. Motor transportation of livestock. Ohio Agr. Expt. Sta. B. 625, 49 p. Dec. 1941. 100 Oh3S

Analyzes the increased movement of livestock by truck in the United States, discusses rates, costs and methods of marketing in Ohio, and points out some of the important characteristics of livestock marketed by motor truck at Cleveland, Columbus, and Cincinnati.

378. HENNING, G. F. Motor transportation of livestock in Ohio. Ohio Agr. Expt. Sta. B. 531, 38 p. Dec. 1933. 100 Oh3S

In part an analysis of livestock truck operating costs and livestock trucking rates. The Preble, Logan, Crawford and New London areas were selected for study.

379. HENNING, G. F. Some notes on marketing livestock by truck. Ohio Agr. Expt. Sta. Bimon. B. 19(168):122-131. May/June 1934. 100 Oh3S

Includes preference in marketing livestock by truck.

380. JOHNSON, E. C. A comparison of prices of hogs arriving by truck and by rail at South St. Paul. J. Farm Econ. 14:156-157. Jan. 1932. 280.8 J822

Results of a study in which three livestock commission firms cooperated by supplying account sales information on prices of all lots of 10 or more hogs sold by them from trucking territory south and west of this city, September-December 1930, and during one week each of January-April 1931.

381. LILES, J. L., JR. Livestock marketing as influenced by motor truck transportation. Assoc. South. Agr. Workers. Proc. 42: 179-180. 1941. 4 C82

Deals principally with terminal, direct and auction marketing, and with country buying on the part of itinerant buyers, Southern States.

382. MOTTS, G. N. Motor truck marketing of Michigan livestock. Mich. Agr. Expt. Sta. Spec. B. 235, 28 p. May 1933. 100 M58S

A study whose data were secured between June 1932 and March 1933. A comparison is included of the costs of marketing cattle, calves, hogs and sheep by truck and by rail.

383. OREGON. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Ways to avoid huge waste in marketing of all livestock. Oreg. Dept. Agr. B. 137:14. May 1943. 2 Or3

Regulations for transportation by rail and motor vehicle as prepared and ordered by the State of South Dakota.

384. PETTEE, J. C. Relationship between the rail rates on livestock and on meats. Washington, U. S. Bur. Agr. Econ., 1943. 73 p. 1.941 M2R272

Summary by R. L. Dewey, Washington, U. S. Bur. Agr. Econ., 1943. 12 p. 1.941 M2R27

A report designed to bring out the nature of these relationships, and to deal with some of the issues arising from the effects that they have on other aspects of the meat-producing and transportation industries.

385. PHILLIPS, C. D. Marketing Kentucky livestock by motor truck. Ky. Agr. Expt. Sta. B. 344:189-231. July 1933. 100 K41

Subjects include trucking areas of terminal markets in Kentucky, advantages and disadvantages of truck transportation, risk of loss by

death or crippling, trucking rates and marketing, marketing charges, regulation of motor truck transportation, and some economic aspects of shipping livestock by motor truck.

386. SALE-IN-TRANSIT hearings. Producer 14(10):23-24. Mar. 1933. 49 P94

Denver hearings, Jan. 23-Feb. 9, 1933, in which arguments were presented for and against the retention of the change-of-ownership privilege at the Denver, Ogden and Salt Lake City markets, and the extension of this privilege to the Missouri River markets from which it had been withdrawn.

387. THOMSEN, F. L., and FANKHANEL, W. R. Cost of marketing livestock by truck and rail. Mo. Agr. Expt. Sta. Res. B. 165,32 p. Mar.1932. 100 M693

Based on data on truck rates for hogs, cattle and sheep from the records of cooperative commission firms on the St. Louis, Kansas City, and St. Joseph markets, and on rail rates obtained from the Missouri State Public Service Commission.

388. THOMSEN, F. L., and FANKHANEL, W. R. Livestock trucking in Missouri. Mo. Agr. Expt. Sta. B. 317,20 p. Sept.1932. 100 M693

Subjects include regional differences in trucking, reasons for the increase in trucking and problems resulting from this increase, and the cost of marketing by truck and rail.

389. WENDT, B. S., and HEDGES, H. Truck and rail transportation of Nebraska livestock to the Omaha market. Nebr. Agr. Expt. Sta. B. 275,31 p. Oct.1932. 100 N27

Phases of the problem considered include the growth of livestock trucking, the origin of truck and railroad receipts, livestock truckage rates to Omaha, factors influencing the choice of the means of transportation, and a comparison of truck and rail transportation costs.

SHRINKAGE AND LIVESTOCK LOSSES

390. KENNEY, C. H. Chuting the bull. Canada. Food Indus. 20(9): 22-25. Sept.1949. 286.83 C166

Corrective measures applied in the United States and Canada to livestock handling during shipment.

United States

391. ANDERSON, A. L. Losses in the marketing of hogs. Swine World 28(7):8. Aug.1941. 46.8 Sw62

Notes an annual loss of \$14,000,000 in slaughter livestock from bruising, crippling, death, and hidden damage; gives percentage of hog receipts dead and crippled on arrival by rail and truck; and suggests means of reducing hog losses.

392. ASHBY, R. C. Shrinkage of hogs from farm to market by truck and rail. Ill. Agr. Expt. Sta. B. 388:557-576. Jan.1933. 100 IL6S

Results of a project wherein certain stockmen in 13 Illinois counties undertook, when marketing livestock, to weigh it out of the farm feed lot and later to forward to the Animal Husbandry Department, University of Illinois, a report giving both the farm and the market weights.

393. BJORKA, K. Shrinkage and dressing yields of hogs. U. S. D. A. Tech. B. 621,21 p. June 1938. 1 Ag84Te

A study of shrinkage rates of hogs of different weights while in transit by rail for different lengths of time. The proportions of total shrinkage accounted for by excretions and by loss in tissue weight, the dressing yields of hogs of different weights that have been in

transit for different periods of time, and the shrinkage in transit as related to dressing yields of hogs purchased direct and at public markets are considered.

394. DOWELL, A. A., and EGGERT, R. J. Death and crippling in livestock marketing. Minn. Agr. Expt. Sta. B. 342,40 p. May 1939. 100 M66

Determines the extent of such losses up to the time of unloading by type of transportation, by distance zone, for Minnesota shipments and by States for other shipments.

395. HANDLE with care. Farm Q. 4(3):58-61,95-96,98,100. Autumn 1949. 6 F22995

Includes recommendations aimed at reducing livestock shipping losses.

396. LOSSES resulting from the shipping of livestock. Poland China World 35(4):17-18. May 1948. 46.8 Sw62

Recommends means of loss prevention.

397. NATIONAL LIVE STOCK LOSS PREVENTION BOARD. The costly waste in marketing live stock; 1949 report. n.p.,1950? 36 p. 280.3409 N21

Suggested precautions for the prevention of waste, p. 2.

398. NATIONAL LIVE STOCK LOSS PREVENTION BOARD. Losses in marketing live stock; 1948 report. n.p.,1948. 42 p. 280.3409 N21

Meat wasted and monetary loss on deads and cripples by rail and by truck, p. 18-19.

399. NATIONAL LIVE STOCK LOSS PREVENTION BOARD. Preventable losses in marketing live stock. n.p.,1937. 24 p. Ref. 280.340 N21

The extent and causes of losses, with recommendations for safe shipment.

400. NATIONAL LIVE STOCK LOSS PREVENTION BOARD. Reducing waste of meat in marketing live stock; 1946 report. n.p.,1946. 57 p. 280.3409 N21

Losses in transit and from bruising, rail vs. truck losses, and results of a market survey, begun Jan. 1, 1946, on the methods of handling livestock at a number of markets.

401. REED, E. G. Sanitary science in the practical shipping of livestock. U. S. Livestock Sanit. Assoc. Proc. 46:112-113. 1942,pub. 1943. 49.9 Un3R

Address by the General Livestock Agent, Union Pacific Railroad, Omaha, at the annual meeting, U. S. Livestock Sanitary Assoc., Chicago, Dec. 3, 1942.

The importance of improved methods as a means of reducing marketing losses.

402. SELLAR, R. F. Livestock loss prevention. 2d ed. Albany, N. Y., Amer. Humane Assoc.,1935? 25 p. 40 Se4 Ed.2

Bad feeding and watering practices, trucking limitations, loading chutes and prods, bedding, cleanliness of livestock cars, partitions, precautions with reference to the weather, miscellaneous causes of losses, and loss prevention through cooperative effort.

403. SHEALY, A. L. Stock losses due to handling. Fla. Grower 57(9):11,13. Sept.1949. 80 F6622

Recommendations for reducing transportation losses as a means to increased profits.

404. SMITH, H. R. Live stock shipping losses by rail or truck can be prevented. Natl. Live Stock Loss Prev. Bd. Rpt. 1948:3-4. 280.3409 N21

Subjects include precautions needed on the farm, the prevention of overcrowding in rail and truck shipment, the insurance penalty as a

means of reducing loss, and the trucking safety program sponsored by the Board in 1947.

405. WILEY, J. R. Factors affecting shrinkage in shipping hogs by rail. *Ind. Agr. Expt. Sta. B.* 358, 30 p. Feb. 1932. 100 In2P

Based on data from the Producers' Commission Association agencies at Indianapolis and Chicago markets, this study deals with two random samples of (1) 553,279 hogs shipped from 1925-29 in straight, mixed and double-deck carloads, and (2) 4884 straight carloads of hogs and 1323 mixed loads of hogs with other livestock, all single-deck cars, shipped 1927-28.

406. WILEY, J. R. Studies in hog shipping show causes of losses. *Purdue Agr.* 27:38,48. Jan. 1933. 6 P97

Discusses truck and rail transportation, and includes recommendations for reducing losses.

407. WILSON expands bruise tests in '49; reports smaller loss. *Natl. Provisioner* 122(10):18,29. Mar. 11, 1950. 286.85 N21

Results of the second year of a series of bruise-loss tests conducted on cattle and hogs at Wilson & Co. plants.

Australia

408. SPAFFORD, W. J., COOK, L. J., and JOHNSTON, W. C. Carcass losses in marketing export fat-lambs. *So. Austral. Dept. Agr. J.* 43:775-778. June 1940. 23 So84

Results of experiments undertaken at Kybolite Experiment Station in the 1939 fat-lamb season with the object of discovering the loss of carcass weight of fat-lambs raised on the farm and transported to two killing works.

New Zealand

409. LAING, A. D. M. G. Causes of carcass rejection in freezing works. *Massey Agr. Col. Sheepfarming Annu.* 2:47-57. Sept. 1949. 45.9 M38S

Discussion, p. 58.

The even standard of meat inspection throughout New Zealand; cattle and sheep diseases, and injuries and poor handling on the farm in this dominion; and injuries to animals on the way to slaughter.

410. ROSS, W. D. Causes of carcass rejection in freezing works. *Massey Agr. Col. Sheepfarming Annu.* 2:36-39,41-46. Sept. 1949. 45.9 M38S

Discussion, p. 45-46.

Dealing with New Zealand, this paper discusses beef cattle and sheep losses on the farm from disease vs. losses in the freezing works from condemnations or rejections; the small proportion of diseased beef cattle; bruising from horned cattle in transit; rejections of sheep and lambs from disease, and losses therefrom; and suggestions for improvement.

411. ROSS, W. D. Rejected and condemned pigs; veterinarian describes reasons and causes. *New Zeal. J. Agr.* 58:23,25-27. Jan. 1939. 23 N48J

Written with a view to reducing the heavy losses through condemnation and rejections caused by mismanagement on the part of New Zealand pig farmers.

United Kingdom

412. DAVIDSON, H. R. Snags in selling pigs by live weight. *Farmer & Stock-Breeder* 54:1039. May 7, 1940. 10 F228

An account of British experience dealing with loss in live weight through fasting, traveling and cooling.

413. GT. BRIT. BACON DEVELOPMENT BOARD. Transit shrinkage of fasting pigs; report on an experiment to ascertain the effect of transit on the paying weights and grades of fasted pigs and on the quality of the resultant bacon. *Gt. Brit. Bacon Devlpmt. Bd. B. 3*, 36 p. 1938. 50.9 G79

The plan of this experiment was to submit similar groups of about 50 pigs each to one of five journeys of different duration, and to measure the effect that these five different journeys had on the live and dead weights and on the carcass and bacon quality of the pigs constituting each similar group.

MEAT PACKING AND PROCESSING

United States

414. ABRAHAMSON, A. E. The pumped meat fraud. *Assoc. Food & Drug Off. U. S. Q. B. 14:16-22*. Ref. Jan.1950. 389.9 As7Q
Address, annual meeting, Central Atlantic States Assoc., New York, June 8-10, 1949.

A discussion of the problems of curing meat.

415. AMERICAN MEAT INSTITUTE. COMMITTEE ON RECORDING. *Pork operations*. 5th rev. ed. Chicago, U. Chicago, Inst. Meat Packing, 1944. 412 p. 50 In74P

Topics include handling and shipping live hogs, slaughtering and dressing, sanitation requirements in the packing of bacon, the packing of lard, and loading and shipping pork products.

416. BJORKA, K. *Livestock slaughter by four national packers*. *Agr. Situation 22(8):21-23*. Aug.1938. 1 Ec7Ag

Includes data on cattle, calves, hogs, sheep, and lambs for the period 1920-37.

417. BJORKA, K. *Trends in livestock slaughter*. Washington, U. S. Bur. Agr. Econ., 1939. 29 p. 1.941 M1L75

An analysis of changes in slaughter, particularly regional changes, that have taken place in this country. Consideration is given also to changes in the relative importance of slaughter of different types—Federally inspected wholesale, other wholesale, retail, and farm slaughter.

418. BLAKESLEE, L. H. *Changes in beef resulting from aging and freezing*. 1947. 116 p. Ref. Cornell U. Libr.

Typewritten.

Thesis (Ph.D.) - Cornell University.

Results of tests performed for the purpose of studying grades of beef which had been aged for specified periods of time, and of making similar studies of comparable samples after they had been held in frozen storage.

419. BULL, S. *The effect of method of freezing upon quality of pork*. *Quick Frozen Foods 6(2):40,46*. Sept.1943. 389.8 Q4

Summarizes the results of experiments conducted by the University of Illinois.

420. CHILDRESS, G. L. *We found many ways to cut expenses*. *Amer. Business 7(12):17-18,59*. Dec.1937. 280.8 Am35

Success of the Houston Packing Co. in its efforts to increase operating efficiency.

421. COLLINS, C. E. *Packers' marketing agreement*. *Producer 15(5):13-14*. Oct.1933. 49 P94

On its main features, and anticipated advantages.

422. FRAZER, A. W. *Productivity in slaughtering and meat-*

packing industry, 1919-41. U. S. Bur. Labor Statis. Mon. Labor Rev. 54:1092-1099. May 1942. 158.6 B87M

Characteristics of the industry, changes in productivity and other indexes, factors affecting productivity, and the outlook for the industry.

423. GREER, H. C. Customer turnover experience of meat packing companies. J. Business U. Chicago 6(2,pt.2),34 p. Apr.1933. 280.8 J825

Results of a study covering customer experience of three packing house distributive outlets in the Chicago area from 1926-30, inclusive.

424. HOADLEY, W. E., JR., BAUGHMAN, E., and MORS, W. P. A financial and economic survey of the meat packing industry. Chicago, Fed. Reserve Bank of Chicago, 1946. Ref. 50.9 F31

An analysis planned for bank credit men and others interested in industrial-financial information for use in the effective appraisal of trends in the industry and individual firms or groups of firms therein. Among the important reasons for variations among companies warranting particular attention in credit extension are mentioned arrangements for acquiring livestock (direct buying or through public stockyards), type of products and product specialization, extent of market area, class of customers and distribution methods, and price policies.

425. MCCARTY, H. H., and THOMPSON, C. W. Meat packing in Iowa. Iowa. U. Bur. Business Res. Iowa Studies in Business 12, 138 p. Ref. June 1933. 280.9 Io92

Ch. 5, Present-day meat packing operations, Iowa, deals with Iowa as a source of meat animals, methods of purchasing livestock, the stockyards market, direct buying, methods of shipment, preparation for slaughter, plant operations, and marketing.

425a. MANN, L. B. History of cooperative and farmer owned meat packing enterprises in the United States. U. S. Farm Credit Admin. Misc. Rpt. 72, 20 p. Ref. May 1944. 166.3 M68

426. NATIONAL PROVISIONER, INC. Annual meat packers guide, 1949-1950. Chicago, 1949. 225 An77

Also earlier issues.

Includes an analysis of the regulations of the Meat Inspection Division, U. S. Bureau of Animal Industry; a list of principal Government agencies dealing with packers; a list of trade associations and related groups of interest to the meat packing and allied industries; meat and lard production and consumption data; a study of bacon slicing and packing methods employed by different meat packing plants; standards for processing, labeling and handling "new" smoked meats based on recommendations by the American Meat Institute; a classified directory of manufacturers and suppliers of machinery, equipment, and other items; and a list of publications of interest to the meat-packing industry.

427. NICHOLLS, W. H. Imperfect competition in agricultural processing and distributing industries. Canad. J. Econ. & Polit. Sci. 10(2):150-164. May 1944. 280.8 C162

Includes the meat-packing industry.

428. NICHOLLS, W. H. Labor productivity functions in meat packing. Chicago, U. Chicago Press, 1948. 256 p. 283 N512

A study of the production functions and the statistical relations between labor inputs and physical volume of output in the fresh pork operations of meat packing plants.

429. NICHOLLS, W. H. Market-sharing in the packing industry. J. Farm Econ. 22:225-240. Feb.1940. 280.8 J822

His "Correction" appears in J. Farm Econ. 22:497. May 1940. 280.8 J822

Includes a detailed examination of livestock purchase on the Omaha

market for the period 1931-37, and summarizes his analysis of the theory of market sharing.

430. NICHOLLS, W. H. A theoretical analysis of imperfect competition with special application to the agricultural industries. Ames, Iowa State Col. Press, 1941. 384 p. Ref. 281 N514

Among the subjects studied are cattle and calves, hogs, sheep, and the meat-packing industry.

431. RUSSELL, G. A packer's views of lamb marketing problems. Natl. Wool Grower 40(3):16-17. Mar. 1950. 45.8 N21N

Subjects include the difficulties encountered in orderly marketing, the instability of supply and price, the handling of byproducts, and competition and Government control.

432. SKINNING, fleshing, derinding; where can mechanization effect savings? Natl. Provisioner 114(8):13,21; 115(2):11,29; (4):12,23; (16):10,20. Feb. 23, July 13, 27, Oct. 19, 1946. 286.85 N21

A series of articles dealing with the major and minor pork cuts and based on interviews with various packers and a study of the different types of operations in a number of plants.

433. U. S. EMPLOYMENT SERV. DIV. OF STANDARDS AND RESEARCH. Slaughtering and meat packing industry. St. Louis? 1938. 2 v. U. S. Employment Serv. Occup. Ref. Unit.

V. 1, Hog slaughtering and pork processing; v. 2., Cattle slaughtering and beef processing.

Job descriptions compiled from a number of observations, and describing the occupations in a generalized, composite form.

Typical procedure in a modern meat packing establishment, v. 1, p. XI-XXXVI.

434. U. S. EMPLOYMENT SERV. DIV. OF STANDARDS AND RESEARCH. Vocational information for the slaughtering and meat packing industry in the St. Louis industrial area. St. Louis? 1939. 101 p. Ref. U. S. Employment Serv. Occup. Ref. Unit.

Subjects include an historical sketch of the industry in this country, economic characteristics, kinds of work done in slaughtering and meat packing plants, present and future employment opportunities, job requirements for beginners, opportunities for advancement, working conditions, and hourly and weekly wages and annual earnings.

435. U. S. NAVY DEPT. BUR. OF SUPPLIES AND ACCOUNTS. Meat handbook of the United States Navy. Washington, 1946. 158 p. 153.88 M46

Instructions, accompanied with illustrations, for cutting and boning beef, pork, lamb, and veal. Rules for sanitation are given on p. 156.

436. U. S. WAR DEPT. Central meat-cutting plants. TM10-409. Washington, 1947. 147 p. Army Libr.

Discusses meat processing operations, meat packing and sanitation.

Denmark

436a. DENMARK and the bacon quota. New Statesman & Nation (n.s.):6:838-839. Dec. 23, 1933. 280.8 N2132

An inquiry into the problems encountered in the cooperative marketing of bacon to England and other countries.

436b. HOWE, F. C. Denmark, the cooperative way. New York, Coward-McCann, 1936. 277 p. 280.2 H83D

Cooperative meat packing is included.

WHOLESALE AND RETAILING

General

United States

437. CHANGED directions of lamb movements. Natl. Wool Grower 22(11):34-35. Nov.1932. 45.8 N21N

Discusses new sources of direct supply, and likens the marketing system to a vicious circle, with depressed prices at Chicago demoralizing the dressed trade.

438. COREY, L. Meat and man: a study of monopoly, unionism, and food policy. New York, Viking, 1950. 377 p. 50 C81

Ch. 8, Selling meats: the revolution in retail trade, deals in part with changes in meat outlets, and chain stores and independents.

439. DISTRIBUTING lamb at the eastern markets. Natl. Wool Grower 23(5):19-20. May 1933. 45.8 N21N

Discusses in part the distribution methods of Swift & Co., chain store retailing in New York and Boston, and the effect on the market of price, periods of excessive heat or storm, religious holidays, and competition from other meats.

440. DISTRIBUTION—the sore spot in our marketing system. Producer 13(12):11-12. May 1932. 49 P94

Urges increased efficiency in retailing meat as a means of maintaining greater per capita consumption at prices which would allow the producer a fair profit and still keep meat on the consumer's table. Includes price tables.

441. EDINGER, A. T. Determination of mark-ups and retail meat prices (comparison of two methods). Washington, U.S. Prod. and Mktg. Admin., 1948. 5 p. 1.956 M342D48

Method 1 is a percentage basis; method 2, a cents-per-pound basis.

442. EDINGER, A. T. Hog cutting tests and meat prices. Washington, U.S. Prod. and Mktg. Admin., 1949. 10 p. 1.956 A2Ed May 24, 1949

Speech, eighth annual convention, National Independent Meat Packers' Association, Chicago, May 24, 1949.

Includes the determination of costs.

443. EDINGER, A. T. Meat cutting and pricing methods. Washington, U. S. Agr. Mktg. Admin., 1942. 40 p. 1.942 M4M46 1942

Subjects discussed include percentages of retail and wholesale cuts in beef steer, lamb, and veal carcasses; percentage of wholesale cuts and products to live-weight of hog; percentage of wholesale cuts in pork carcass; retail meat-pricing tables for beef, lamb and veal carcasses; wholesale pork-pricing tables for pork carcasses and products; and equivalent mark-up percentages when computed on either cost price or selling price.

444. EDINGER, A. T. Sane pricing of retail meats. Washington, U. S. Bur. Agr. Econ., 1938. 4 p. 1.9 Ec713San

Address, Retail Meat Dealers Short Course, Cornell University, Ithaca, June 7 and 8, 1938.

445. FOSTER, M. T. Report on survey of lard production, distribution, and packaging, 1938-1939. Washington, U. S. Agr. Mktg. Serv., 1941. 31 p. 1.942 L22R29

Summarizes information obtained direct from packers by use of a schedule or questionnaire.

446. FROZEN meat home delivery inaugurated by Brooklyn packer. Refrig. Engin. 52:544. Dec.1946. 295.9 Am32J

Organized principally to perform a missionary advertising and merchandising role and to increase the volume of the wholesale division and retail stores, a "Home Service" division, to be inaugurated

shortly by Adolf Gobel, Inc., Brooklyn, N. Y., is to market meats direct from packing plant to home by means of a fleet of refrigerated route trucks.

447. GIBSON, E. T. Commercial freezing and merchandising of meats. Amer. Coop. 15:509-519. 1939. 280.29 Am3A

Merchandising advantages presented by quick-frozen meats.

448. GIBSON, E. T. Freezing and merchandising meat. Quick Frozen Foods 2(1):18-19,39. Aug.1939. 389.8 Q4

Discusses packaging frozen meats, advantages of quick-frozen meats to the retailer, the effect of frozen meats on distribution, consumer reaction to frozen meats, present-day problems, and predictions as to the future.

449. GREYHER, E. T. Trends in the wholesale meat business of San Francisco. J. Business U. Chicago 7(2,pt.1):124-132. Apr.1934. 280.8 J825

Encompasses the marketing activities of packers, brokers, wholesale butchers, jobbers, hotel supply companies, ham and bacon plants, and sausage and specialty manufacturers.

450. HILL, C. V., and COMPANY, INC. Modern food merchandising. 4th ed. 1936. 188 p. Libr. Cong.

Ch. 7, How to sell meat by the power of display.

451. LATTIN, T. E., and CARSON, J. B. Profitable meat cutting. 4th ed. Toledo, Natl. School of Meat Cutting, 1934. 367 p. 50 L35Ed.4

On various aspects of meat retailing. Some chapter headings include Lard, Retail meat market management, Advertising, and Sanitation.

452. LEWIS, G. M. Trends in the marketing distribution of meats. Amer. Coop. 13:279-297. 1937. 280.29 Am3A

From Colonial times to the present.

453. MCNAIR, M. P., LEARNED, E. P., and TEELE, S. F. Problems in merchandise distribution. New York, McGraw-Hill, 1942. 726 p. 280.3 M232P

Tilson Company: sale of meats in a grocery chain, p. 94-104.

454. NATIONAL LIVE STOCK AND MEAT BOARD. DEPT. OF MEAT MERCHANDISING. Cashing in on beef; a modern merchandising manual. Chicago, 1937. 62 p. 50 N2122B

Beef-cutting methods developed after long study and experimentation with a view to making the most economical use of the entire carcass.

455. NATIONAL LIVE STOCK AND MEAT BOARD. DEPT. OF MEAT MERCHANDISING. Cashing in on lamb; a modern merchandising manual. Chicago, 1937. 47 p. 50 N2122L

Recommendations on the cutting and pricing of this meat, for the aid of the retail meat merchant.

456. NATIONAL LIVE STOCK AND MEAT BOARD. DEPT. OF MEAT MERCHANDISING. Cashing in on pork; a modern merchandising manual. Chicago, 1937. 78 p. 50 N2122P

A graphic description of the modern methods of pork merchandising prepared for the purpose of helping the retail meat dealer to utilize pork cuts to the full extent of their sales possibilities.

457. NATIONAL LIVE STOCK AND MEAT BOARD. DEPT. OF MEAT MERCHANDISING. Pricing retail meat cuts. Chicago, 1937. 28 p. U. Ill. Libr.

Operating expenses, margins, meat sales, tonnage, mark-up per pound, specials, mark-up with allowance for specials, shrinkage, meat-cutting tests, figuring and using percentages, and pricing meat cuts.

458. RODENWOLD, B. W., OLIVER, A. W., and POTTER, E. L. The marketing of country-dressed meat in Portland. Oreg. Agr. Expt. Sta. B. 339, 22 p. June 1935. 100 Or3

A study undertaken to determine the extent to which country-

dressed carcasses enter into the meat trade of this city, the quality of these carcasses as compared with meat from other sources, the trade practices of the dealers and agencies handling country-dressed meats, the relative prices received by producers for animals slaughtered on the farm, and the economic importance of this trade in farm-slaughtered livestock to producers.

459. SLOTKIN, H. The rational merchandising of meat specialties. *Canner* 89(23):16,18,28. Nov.11,1939. 286.83 C16

Advocates a thorough job of research in display lighting, improvement in the appearance and layout of butcher shops, and, to the fullest extent possible, the merchandising of meat in bulk in its natural state and of sausages in their natural casings.

460. SMITH, C. E. Handling meat in combination food stores. *Natl. Provisioner* 99(19):75-77. Nov.5,1938. 286.85 N21

Retail meat selling, sales and merchandising suggestions, surplus sales drives and their results, consumer acceptance and demand, packer sales to consumers, and meat advertising.

461. SUPER MARKET MERCHANDISING. A basic course in meat merchandising. New York, Super Mkt. Merchandising, 1948? 138 p. 50 Su7

Beef, pork, veal, lamb, and variety, prepackaged, and canned meats are included.

462. U. S. FEDERAL TRADE COMMISSION. Report...on distribution methods and costs. Washington, 1944-46. 9 pts., pt. 1, Important food products. 173 F32Dm

Ch. 11, Wholesale meat-packing industry, includes methods of distribution, and meat packers' costs of distribution.

463. VROOMAN, C. W. Economic and marketing functions in the livestock and meat trade at Portland, Oregon. 1949. 96 p. Oreg. State Col. Libr.

Typewritten.

Thesis (Ph.D.) - Oregon State College.

A study the scope of which is to bring together certain data relating to the general structure of the wholesale market and to describe some phases of the functional process of concentration and dispersion in terms of physical quantities. Reviews Government regulations as an influence on the trade structure, and considers some of the problems of price.

464. WILLIAMS, E. E. Merchandising frozen meats. *Natl. Provisioner* 113(19):177-180. Nov.10,1945. 286.85 N21

The place of the wholesaler, distribution, packaging, and fresh-cut vs. frozen meats.

465. WITTE, J. W. Power meat cutting for profit. Rev. ed. St. Louis, Meat Merchandising Mag., 1945. 104 p. Libr. Cong.

A method of electric cutting of meat, including beef, pork, lamb and veal, based on the principles of equalization of bone, increased value and sales appeal of less demanded cuts, cross-grained cutting, and better looking cuts. Gives statistics on yields, costs and prices covering meats bought by the carcass and cut in the prescribed manner, and instructions on figuring profits.

United Kingdom

466. GOVERNMENT agricultural policy. *Gt. Brit. Min. Agr. J.* 44: 525-533. Sept.1937. 10 G79J

Statement of the Minister of Agriculture with respect to the British Government's interest in the reorganization of the bacon factories to promote economy in the industry, p. 532-533.

467. WALWORTH, G. Controlling food supplies. *Co-op. Rev.* 15(9):272-274. Sept.1941. 280.28 C7823

Includes a discussion of the Wholesale Meat Supply Associations in Great Britain.

Packaging, Prepackaging, and Self-Service

United States

468. ANDERSON, N. Problems of consumer acceptance. *Butchers' Advocate* 118(21):11-12. Nov. 21, 1945. 286.85 B97

Retailing prepackaged fresh and frozen meat.

469. BAKER, J. Packaging problems and solutions. *Natl. Provisioner* 120(23):120,123-124,126,128,130,132,136,138-142. June 4, 1949. 286.85 N21

Also in *Meat* 31(1):150-156. June 1949. 286.85 M464

The use of packaging as a sales tool for meat, good meat package design, the merchandising of meat packages, and the problem of self-service meats.

470. BONINI, J. How to sell more of a better product and profit more through better packaging. *Natl. Provisioner* 119(14):144-146. Oct. 2, 1948. 286.85 N21

Sausage, frankfurters, and sliced dried beef.

471. BRADY, D. E. Good packaging prolongs fresh life of frozen meats. *Res. & Farming [N. C. Sta.] Prog. Rpt.* 7(1):8-9. July 1948. 100 N81R

Gives requisites of ideal packaging materials.

472. BROOKBANK, E. B. Correct packaging of frozen meat eliminates dehydration. *Quick Frozen Foods* 11(7):89,91; (8):191-192, 198. Feb.-Mar. 1949. 389.8 Q4

Basic scientific principles, the effect of fat on flavor, color changes, packaging requirements, water vapor transmission rate, air pockets, grease resistance, oxygen transmission, sanitary mechanical handling properties, and economic considerations.

473. CHAIN store age—1949: meat manual section. *Chain Store Age, Grocery Exec. Ed.* 25(11):99-162. Nov. 1949. 286.28 C34

Self-service meat selling.

474. CRUESS, W. V. Experiments on frozen meat packs. *Good Packaging* 8(8):29-31,46-47. Ref. Aug. 1947. 280.38 G59

Includes a comparison of various wrapping materials.

475. CRUESS, W. V. Pretreatment and wrapping of frozen pack meats studied for effects on storage qualities. *Calif. Agr. [Calif. Sta.]* 1(7):2. June 1947. 100 C12Cag

Qualifications of satisfactory wrapping materials, and results of experiments with aluminum foil and other pliable materials, and tin cans and glass jars.

476. CUMMINGS, F. D. Progress in packaging meat products. *Food Indus.* 10:126-128,188-190. Mar.-Apr. 1938. 389.8 F737

Discusses ways in which a reduction in the cost of packaging materials and supplies has been accomplished without sacrificing protection to the product.

477. DIPMAN, C., and LUCAS, J. D. The pros and cons of self-service meat operations. *Prog. Grocer* 28(4):80-85,232,234. Apr. 1949. 286.83 P942

Including the development of these meat departments, discussing both partial and complete self-service, and presenting the customer's viewpoint, this article is intended to help retailers evaluate self-service meats and the possible application of this type of service to their business.

478. EDINGER, A. T. Prepackaged meat sells itself. *Food Mart News* 14(5):6. Mar. 1, 1950. 286.28 F732

Results of a survey made by the U. S. Production and Marketing Administration of 97 stores in 27 States and the District of Columbia.

479. EDINGER, A. T., and others. Retailing prepackaged meats. Washington, U. S. Prod. & Mktg. Admin., Mktg. Res. Br., 1949. 27 p. Obtainable from Inform. Br., Prod. & Mktg. Admin., Room 2608, South Bldg.

B. H. Mewis, H. D. Mumford, J. E. Bryan, and D. R. Stokes, joint authors.

Based on information obtained from 65 chain stores and 32 independent stores located in 80 cities in 27 States and the District of Columbia, this study includes description of meat departments, labor production and costs, packaging materials, packaging and display equipment, shelf life of prepackaged meats, consumer acceptance and sales, merchandising practices, and problems and need for research.

480. EDWARDS, J. D., and STROHM, D. B. Aluminum foil. Pittsburgh, Aluminum Co. Amer., 1947. 18 p.

Meat packaging, p. 16-17.

481. FENN COLLEGE, CLEVELAND. BUR. OF BUSINESS RESEARCH. Consumer acceptance of self-service packaged meat in the Cleveland area. Fenn Col. Res. B. 1, 15 p. Ref. Mar. 1950. 280.32 F36

Summarizes the results of a survey in which interviews were made among 800 shoppers.

482. GILCHRIST, F. W. An analysis of prepackaging and self-service as a means of lowering costs of retailing meat and delicatessen products, with special reference to Southern California. Los Angeles, U. South. Calif., 1948. 179 p. Ref. U. South. Calif. Libr.

Thesis (Ph.D.) - University of Southern California.

Concerned primarily with consumer reaction to prepackaging and self-service, and with the differences in variable costs between prepackaging and self-service and conventional methods of retailing meat and delicatessen products.

483. GILCHRIST, F. W. Self-service retailing of meat. J. Mktg. 13:295-304. Jan. 1949. 280.38 J82

Subjects include the practicability of self-service meat operations, and the dependability of store owners' reports made in studies in this field.

484. GOWLAND, J. S., and BRATZLER, L. J. Technical and operational problems of self-service meat merchandising. (Abs.) J. Anim. Sci. 8:612-613. Nov. 1949. 49 J82

Results of investigations involving the use of cellophane and aluminum foil wrappings.

485. HANDLEY, R. D. Some suggestions on how to package frozen meats. West. Canner & Packer 39(2):69. Feb. 1947. 286.83 W522

Deals in part with irregularly shaped cuts, and mentions one suggestion for molding some popular meat products into rectangular shapes for greater packaging convenience and economy. Cellophane, paper board cards, and paper board boats with an overwrap are referred to.

486. HIGHTOWER, G. Quick wrap for bacon. Food Indus. 17: 1466-1467. Dec. 1945. 389.8 F737

Made of waxed sulphite stock, with a permanently adhering heavier waxed stiffening strip through the middle, this new package is designed to permit easy packing without loss of sales appeal, to cut packing-line time for sliced bacon and link sausage, and, with its opacity, to protect the product against light.

487. HILBY, M. The place of packaged meats, fresh and frozen. Butchers' Advocate 118(20):11-12. Nov. 14, 1945. 286.85 B97

An analysis of past experience and of current trends in this phase of meat retailing, with recommendations for success.

488. HILBY, M. Whither packaged meats? *Canad. Food Packer* 17(2):27,29,31. Feb.1946. 286.83 C166

Paper presented before the American Meat Institute, October 1945. Gives reasons for the failure of the industry in its past experience in marketing quick-frozen meat in consumer size packages, and a look into the future.

489. HOCKMAN, R. O. Problems in packaging meat products. *Natl. Provisioner* 114(16):76-76D. Apr.20,1946. 286.85 N21

Address, National Independent Meat Packers' Convention, Chicago, Apr.12,1946.

On the requisites of packaging materials, meat color range, caring for drip loss, luncheon meat problems, tests on frozen beef, and the choice of the package.

490. HOW TO use today's wraps most effectively. 8. *Cry O Vac. Locker Mangt.* 2(7):30-31. July 1948. 389.8 L79

On the use of the new, postwar version of this bag for packaging meat. The steps involved are bagging, vacuumizing, sealing, and shrinking.

491. HUSSMANN REFRIGERATION, INC. Self service. St. Louis, 1945. 80 p. 286.2 H96

Discusses wrapping materials and techniques and labeling with reference to fresh and lunch meats, wieners, and other products. Merchandising display ideas are included.

492. KRAFT, A. A., and WANDERSTOCK, J. J. Meat-color problem is closer to solution. *Food Indus.* 22:65-69. Ref. Jan.1950. 389.8 F737

Prepackaging research with wrappers and antioxidants for checking discoloration.

493. LAVERS, C. G. Discoloration of packaged red meat. *Mod. Packaging* 21(5):125-127. Ref. Jan.1948. 309.8 M72

On the cause of, and means of retarding, this discoloration.

494. LET THE housewife see. *Canner* 101(24):18,20. Dec.1,1945. 286.83 C16

Packaging materials and techniques for frozen meats, p. 20.

495. MCCOY, D. C. How wrappers influence quality of frozen meats. *Food Indus.* 19:1497-1498,1613-1615. Nov.1947. 389.8 F737

Maintaining quality, wrapping boned meats, sanitation and convenience, the importance of water-vapor, water-vapor pressure and refrigerator room insulation, freezing unpackaged meats, poor and good wrappers poorly applied, and a good wrapper properly applied.

496. MANION, J. Keeping up with prepackaged meats. *Natl. Provisioner* 122(16):81-82,84,86. Apr.22,1950. 286.85 N21

Packaging materials and machines.

497. MASTERMAN, N. K., and WINSOR, K. The moisture losses in stored frozen meats vary with packaging material, wrapping method. *Food Freezing* 1:140-143. Feb.1946. 389.8 F7362

Results of an experiment using cellophane, locker paper and butcher paper. Paper costs are included.

498. MEAT MERCHANDISING. Your self-service store. St. Louis, Von Hoffmann, 1947. 224 p. 286.2 M46

Self-service meats, p. 118-153.

499. MEAT PLAN test. *Business Week* 874:69. June 1,1946. 280.8 Sy8

Results of the first three months' operation by the American Steak Co., Kansas City, of a test unit which handles frozen, prepackaged roasts, chops, and other cuts of beef, pork and lamb, each cut being wrapped in cellophane and packaged in a chipboard box with an over-wrap of butcher paper.

500. METCALF, D., VAN ESELTINE, W. P., and HUCKER, G. J. Food packaging studies. 4. Significance of WVTR in protecting frozen meat. *Mod. Packaging* 20(1):147-149. Sept.1946. 309.8 M72

A study the object of which was to determine the maximum water-vapor rate which will protect stored meat against significant moisture losses when stored at 34° F., 80° F., -8° F., and -40° F.

501. NEWELL, H. M. Prepackaging meats. *Natl. Assoc. Mktg. Off. Proc.* 27:17-20. 1946. N. Y. State Col. Agr. Libr.

A consideration of certain main factors expected to govern the extent of the development of prepackaging in the field of meat and meat products.

502. NICHOLAS, J. E. Proper preparation of foods speeds freezing and lightens load on unit. *Sci. Farmer [Pa. Sta.]* 1945:2-3. 100 P381

Sup. 2 to Pa. Agr. Expt. Sta. B. 464.

Deals in part with differences in the results of freezing heavily and lightly wrapped meats, and with wrapping materials.

503. NICKERSON, J. Fresh meat in packages. *N. Y. Times Mag.* Aug.15,1948,p.32-33. *Libr. Cong.*

Among the phases of self-service meats discussed are wrapping, labeling (including statement of grade), discoloration, shrinkage, and customer reaction.

504. PHIPPENY, R. L. Blueprint for self-service meat. *Chain Store Age, Grocery Exec. Ed.* 26(5):78,130,132. May 1950. 286.28 C34

Plan of the Meat Division of Von's Grocery Co., Los Angeles.

505. RUECKERT, D. E. Reuse of containers. *Packing & Shipping* 71(1):8-9. Apr.1944. 289.8 P12

Experience of Swift & Co. with containers for meat and meat products.

506. SHAFER, W. S. Prepackaged self-service meats. Chicago, Armour,1948. 36 p. 50.9 Ar5S

Similar title in *Natl. Provisioner* 118(22):14-15,17-18; (23):20-22, 38; 119(14):130-132,134,136,138,140,142. May 29, June 5, Oct. 2,1948. 286.85 N21, and in *Super Mkt. Merchandising* 13(6):98-99,101,104, 106-110. June 1948. 389.8 Su7

The growth of the fresh meat phase of this movement, owners' views on the service, the effect of the change on costs, advantages and disadvantages of the service, and recommendations for success in this field.

507. SHAFER, W. S. Self-service meats to date. *Super Mkt. Merchandising* 13(10):77,80. Oct.1948. 389.8 Su7

Deals with the general location and nature of 100 percent self-service meat stores, and with conversion plans for the future.

508. SOME TYPICAL meat packages. *Quick Frozen Foods* 12(11):86-87. June 1950. 389.8 Q4

Packaging materials and methods in use for frozen steaks, cutlets and other meat items.

509. SPECHT, F. W. Are prepackaged frozen meats ready for the retailer? *Food Indus.* 18:1192-1193,1336. Aug.1946. 389.8 F737

Deals with various cuts and grades, and the effect of prepackaging on packers and retailers.

510. SPECHT, F. W. A packer looks at pre-packaged meats. *Natl. Provisioner* 115(19):18-19,39. Nov.9,1946. 286.85 N21

Similar title in *Pa. Meat Dealer* 20(10):8,14. Oct.1946. 286.85 P38

Discusses packer activity with reference to the prepackaging of cured and smoked meat products, the disadvantages of the prepackaging of fresh red meats by meat packers, and the effect of

prepackaging quick frozen, self-service meats on the packer, the retailer, and the consumer.

511 TEITELMAN, S. Meat retailing in 1950. Chicago, Armour, 1950. 31 p. 50.9 Ar5S

Principally on the growth of, and technical developments in, self-service meat operation.

512. TEITELMAN, S. Pre-packaged self-service meats; 1949 report. Chicago, Armour, 1949. 31 p. 50.9 Ar5S

On the expansion of this service; its advantages and disadvantages; owner and customer reaction; findings on sales, costs and gross profit; dollar sales per foot of display case; discoloration and turnover; and practical tips for self-service operators.

513. URBAIN, W. M., and RAMSBOTTOM, J. M. Controlling quality changes in cured meats by packaging. Food Res. 13:432-439. Sept./Oct.1948. 389.8 F7322

Experimental studies with different wrapping materials on sliced bacon, sliced dried beef, and on fading prevention in meats, particularly sliced boiled ham, displayed in self-service cases.

514. URTON, D. Cellophane wrapper used by frozen chip steak firm. West. Canner & Packer 41(1):51-53. Jan.1949. 286.83 W522

Traces the development of National Frozen Foods from one unit to 32 plants, and describes the automatic process used in packaging these steaks.

515. VALZ, A. M. Meat goes self-service. Du Pont Mag. 42(5): 26-27. Sept./Oct.1948. 309.8 D92

Developments in cellophane prepackaging.

516. WATT, D. B., and MACKINTOSH, D. L. The influence of wrapping material on the keeping quality of fresh frozen pork sausage. Kans. Acad. Sci. Trans. 53:75-80. Ref. Mar.1950. 500 K13T
Results of a study using nine wrapping materials during a 12-month period.

517. WHITMORE, R. A., and others. Packaging dehydrated meat. Food Res. 13:19-28. Jan./Feb.1948. 389.8 F7322

D. Seligson, H. R. Kraybill, and B. H. Webb, joint authors.

Undertaken because of the shortage of tin during World War II, this project had as one of its purposes the development of containers for dehydrated meat which would require no tin, or substantially less tin than the usual tin can.

518. WINANS, W. E. Package situation serious threat to future operations. Natl. Provisioner 109(16):79-84. Oct.16,1943. 286.85 N21

Similar title in Meat 19(4,i.e.,5):44,46. Oct.1943. 286.85 M464

Enumerates and discusses 14 ways in which meat packers can help solve wartime container problems.

519. WINTER, J. D. What are the better wraps? What do they cost? Locker Mangt. 2(9):20-21,62. Sept.1948. 389.8 L79

Recommendations for meat-wrapping materials.

520. WOODROOF, J. G., ATKINSON, I., and SHELOR, E. Wrapping materials for frozen meats and chickens. Food Freezing 2:274-277,308. Ref. Mar.1947. 389.8 F7362

Requisites of satisfactory wrapping materials, and results of tests with various wrappers.

521. ZIEMBA, J. V. Prepackaging of fresh meats—by retailer or meat packer? Food Indus. 19:1638-1640,1753-1755. Dec.1947. 389.8 F737

Discusses reasons why meat packers cannot prepackage, ways in which packers can assist retailers with their prepackaging and handling problems, the advantages of prepackaging, knowledge which retailers must have concerning this function, and prepackaging

procedure.

522. ZIEMBA, J. V. Proper packaging protects frozen meats. Food Indus. 18:1710-1712. Nov.1946. 389.8 F737

On the importance of flexibility in packaging materials, sealing properties, transparency, hygroscopicity, and greaseproofness.

Germany

523. WADE, W. Cellophane and sausage casings made at Kalle & Co., Wiesbaden. U. S. Off. Pub. Bd. Rpt. 32547, 12 p. 1946. 157.8 R29
Office of Military Government for Germany (U. S.). Field Information Agency Technical Final Report 553.

Gives a detailed analysis of the processes and apparatus used in the manufacture of cellophane and sausage casings from viscose.

United Kingdom

524. NEW LATEX wrapping. Cold Storage 493:87-88. Apr.20, 1939. 295.8 C672

London tests conducted in connection with the use of "Cryo-Vac" wrappings for protecting chilled and frozen meat and poultry in transit.

Educational and Advertising Programs

United States

525. AMERICAN MEAT INSTITUTE. Meat on the march; the first four months of selling more meat to America. Chicago, 1940. 30 p. 389.1 Am36

Plans for a long-range advertising campaign.

526. AMERICAN MEAT INSTITUTE. Meat retail ad-maker. 7th ed. Chicago, Amer. Meat Inst. n.d. 42 p.

Ideas, illustrations and copy suggestions published as part of the Meat Educational Program of the American Meat Institute and dealing with beef, pork, sausage and cold cuts, veal, lamb, and canned meats.

527. CADY, E. L. Merchandising meat. Iowa Farm Econ. 2(1): 15-16. Jan.1936. 275.28 Io92

In favor of a cooperative program of consumer education and merchandising of meat to flatten out the ups and downs of the livestock industry.

528. COLBY, L. B. What sound, cooperative advertising has done for America's meat industry. Sales Mangt. 50(1):18-21. Jan.1,1942. Fed. Trade Comn. Libr.

Meat promotion campaigns of the American Meat Institute and the Institute of American Meat Packers.

529. DAVIS, R. B. Beef campaign of National Live Stock and Meat Board. Producer 14(10):11-13. Mar.1933. 49 P94

Promotion through demonstrations, radio talks, the circulation of literature, and advertising.

530. DAVIS, R. B. Beef promotion gathers momentum. Producer 14(7):14-16. Dec.1932. 49 P94

Meat-cutting demonstrations, meat-cookery research, cooperative investigations into factors that influence quality and palatability, and advertising.

531. DAVIS, R. B. Beef-promotion program of National Live Stock and Meat Board. Amer. Cattle Prod. 16(8):3-7. Jan.1935. 49 P94

Lectures, demonstrations and advertising.

532. DAVIS, R. B. What the Meat Board is doing for beef. Producer 15(4):9-10. Sept.1933. 49 P94

Activities of the National Livestock and Meat Board with respect to beef-merchandising demonstrations, lectures, meat-cookery school programs, radio talks, and the circulation of literature.

533. HARDENBERGH, W., and others. The meat team. Meat 31(5):191-192. Oct.1949. 286.85 M464

T. Anderson, R. A. Rath, P. D'Agostino, G. M. Foster, and J. Milton, joint authors.

Advertising through the Meat Educational Program of the American Meat Institute.

534. JONES, J. M. Consumer education on lamb in Kansas City. Natl. Wool Grower 31(1):18-20,39. Jan.1941. 45.8 N21N

Store demonstrations and radio talks in the lamb program, July-October, 1940.

535. LAMB PROGRAM in the U. S. Army. Natl. Wool Grower 31(6):11-12. June 1941. 45.8 N21N

An account of demonstrations conducted by the National Live Stock and Meat Board at 13 Army posts in nine States. Experiences in overcoming objections to the use of lamb are included.

536. MCINTYRE, E. R. Progress in American meat-advertising. Amer. Cattle Prod. 16(1):3-7; (2):3-5. June, July 1934. 49 P94

From colonial times to the present.

537. MONINGER, J. The Meat Institute's program of consumer education on meat. In Conference of representatives of the United States Department of Agriculture, the American Meat Institute, the National Live Stock and Meat Board, and live stock producers, Washington, D. C., Mar. 4, 1941. Consumer education on meat, p. 24-37. Washington?1941? 389 C764

Describes the promotion campaign of the American Meat Institute and the National Live Stock and Meat Board utilizing newspapers, magazines, recipe books distributed to women through retail meat stores, banners and posters for meat stores, and a staff of men engaged solely in assisting the retailer to do a better job of serving the housewife.

538. NATIONAL ASSOCIATION OF FOOD CHAINS, WASHINGTON, D. C. National economy pork sale; a producer-consumer campaign. Washington,1940. 32 p. 50 N213

Advertising and other merchandising activities in a move to bring about improvement in the economy of the Corn Belt.

539. NATIONAL LIVE STOCK AND MEAT BOARD. 26th annual report, 1948/49. Chicago,1949. 88 p. 50.9 N21

A review of accomplishments with reference to meat promotion through meat cooking schools, radio and television programs, the publication and distribution of literature, consumer acceptance surveys, and motion pictures.

540. RATH, R. A. War and the future of the meat industry; an interim report on the meat educational program. Chicago?Amer. Meat Inst.,1942. 11 p. 238.2 Am3W

Promotion of meat consumption through advertising media.

541. WING, W. P. An effective way to advertise lamb. Natl. Wool Grower 22(3):17-18. Mar.1932. 45.8 N21N

On an "Eat-More-Lamb" demonstration held before 2,000 housewives of the San Joaquin Valley in the fall of 1931.

STANDARDIZATION AND GRADING

General

542. GILL, A. J. Quality in bacon. Victoria Dept. Agr. J. 31:341-345. July 1933. 23 V66J

Denmark's example in setting high bacon quality standards, consumer preferences in England, hog grading in Canada, and the need for bacon grading and standardization in Victoria.

543. HAMILTON, L. H. Lamb carcass grading. Macdonald Col. J. 5(2):10. Oct.1944. 101 M144

The United States, Canada, Great Britain, Australia and New Zealand.

544. JUDGING pork and bacon carcasses. Queensland Agr. J. 48:152-158. Aug.1937. 23 Q33

British and Australian standards, the scale of points, and the method of procedure.

545. LONGWILL, A. Trial of new baconer grading system. New Zeal. J. Agr. 78:405,407-408. Apr.1949. 23 N48J

Principally on the grading of pig carcasses in New Zealand. The Canadian and Danish systems are also described.

546. MCMEEKAN, C. P. Carcass-quality in bacon pigs. New Zeal. J. Agr. 54:147-158,223-231. Ref. Mar.-Apr.1937. 23 N48J

Pt. 1, New Zealand bacon pigs in relation to United Kingdom market requirements; Pt. 2, The influence of supplementary concentrates on carcass-quality.

547. MCMEEKAN, C. P. Nature and variability of the carcass characters of Danish and English bacon pigs. J. Agr. Sci. 29:131-141. Jan.1939. 10 J822

Results of measurements of the nature and variability of the carcass quality characters of pigs representative of the highest grades supplied to the British Wiltshire bacon trade.

548. WILLIAMS, J. R., and COLEMAN, G. C. Grading of meat. N. S. Wales. State Mktg. Bur. Mon. Mktg. Rev. 11:92-97. May 1944. 286.8 N47M

The United States, New Zealand, and Australia.

United States

549. BEARD, F. J. Grading lamb and mutton. Natl. Wool Grower 35(4):17-19,40. Apr.1945. 45.8 N21N

Address, annual meeting, National Wool Growers Assoc., Fort Worth, Jan. 29-31, 1945.

The necessity for the specification of carcass classes and grades, and the application of Federal grade standards.

550. BRANDT, A. E. A statistical study of the relation of sex, breed and live measurements to carcass weights in swine. 1932. 83 p. Ref. Iowa State Col. Libr.

Typewritten.

Thesis (Ph.D.) - Iowa State College.

Based on data from 533 swine butchered by students at the Iowa State College Animal Husbandry Meat Laboratory, September 1924-March 1930, this study was undertaken to determine the relations existing between the selected body measurements and slaughter efficiency, and to determine from these relations the most efficient slaughter type as a guide to market swine producers and to packer buyers.

551. BURK, L. B., GIBBONS, C. E., and FOSTER, M. T. Market classes and grades of lambs and sheep. U. S. D. A. C. 383,rev., 35 p. July 1940. 1 Ag84C

Definitions and descriptions of market groups, the need for standardization, grade factors, schedules, and factors affecting value are discussed.

552. BURK, L. B., and WHALIN, C. V. Market classes and grades of livestock. U. S. D. A. B. 1360, slightly rev., 30 p. Dec. 1948. 1 Ag84B

Includes slaughter cattle, calves, slaughter veal calves, slaughter calves, feeder and stocker cattle and calves, slaughter hogs and pigs, feeder and stocker swine, slaughter sheep and lambs, feeder and shearer sheep and lambs, and breeder ewes.

553. DAVIS, W. C. Beef grading and stamping service. U. S. D. A. L. 67, rev., 8 p. 1936. 1 Ag84L

An account of grading and stamping procedure, of classes and grades, and of the benefits of the service to stockmen, slaughterers, wholesalers and brokers, retailers, clubs, hotels, restaurants, dining cars and other public eating places, public institutions, and to housekeepers.

554. DAVIS, W. C., and WHALIN, C. V. Market classes and grades of dressed beef. U. S. D. A. B. 1246, rev., 51 p. Nov. 1936. 1 Ag84B

Includes definitions, purposes, requisites, difficulties, basis of grading, standard grades of beef and beef cuts, and complete classification of carcass beef and wholesale cuts.

555. DAVIS, W. C., and BURGESS, J. A. Market classes and grades of dressed lamb and mutton. U. S. D. A. B. 1470, rev., 48 p. Aug. 1942. 1 Ag84B

Definitions, the basis for grading lamb and mutton, grades of lamb and mutton carcasses, and standard grades of wholesale lamb and mutton cuts.

556. DAVIS, W. C., and HARRIS, C. M. Market classes and grades of dressed veal and calf carcasses. U. S. D. A. C. 103, rev., 32 p. Aug. 1942. 1 Ag84C

Subjects include classifying and grading, definitions of class and grade, veal and calf carcass differentiation, the basis for grading carcasses, carcass schedules, and wholesale cuts of carcasses.

557. DAVIS, W. C., MCCARTHY, B. F., and BURGESS, J. A. Market classes and grades of pork carcasses and fresh pork cuts. U. S. D. A. C. 288, 36 p. Oct. 1933. 1 Ag84C

Defines and describes classes and grades, and discusses briefly the use-selection of pork cuts.

558. DAVIS, W. C. Market classes and grades of yearling beef. U. S. D. A. C. 208, rev., 27 p. Dec. 1936. 1 Ag84C

Definitions and descriptions.

559. DAVISON, H. R. Compulsory beef grading from the packers' viewpoint. Natl. Assoc. Mktg. Off. Proc. 18:16-22. 1936. 280.39 N213P

Arguments in favor of voluntary grading and branding of beef.

560. DEATHERAGE, F. E., and REIMAN, W. Measurement of beef tenderness and tenderization of beef by Tenderay process. Food Res. 11:525-534. Ref. Nov. 1946. 389.8 F7322

Describes a method for the organoleptic evaluation of tenderness in meat, and the tenderizing effect of the Tenderay process as determined on 82 test animals coming to slaughter through regular channels, 43 of them graded U. S. Good and 39 U. S. Commercial.

561. FEDERAL beef grades. Amer. Cattle Prod. 32(1):7,32. June 1950. 49 P94

On the proposed revamping of these grades.

562. FOSTER, M. T. Correlation of body measurements of lamb carcasses with weight and grade of carcass. Washington, U. S. Agr. Mktg. Serv., 1939. 18 p. 1.942 M32C81

Report to the Conference on Cooperative Meat Investigations, Chicago, Nov. 3, 4 and 5, 1939.

563. FRASER, W. O., and SLATER, D. J. Market classes and grades of feeder and stocker cattle. U. S. D. A. C. 505, rev., 19 p. Aug. 1942. 1 Ag84C

Includes definitions of terms and classifications, and standards for grades.

564. GIBBONS, C. E. Advantages of standards for livestock and meats. U. S. D. A. Misc. P. 33, rev., 8 p. Dec. 1937. 1 Ag84M

Includes the need for standards in marketing livestock and meats; the basis of standards; and standards and the livestock producer, the livestock markets, the market reporter, the packer, the retail meat dealer, and the meat consumer.

565. HANKINS, O. G., and HOWE, P. E. The approximate composition of cuts from lamb carcasses of different degrees of fatness. Washington, U. S. Bur. Anim. Indus., 1942. 2 p. 1.972 A2Ap62

The carcass composition of 74 lambs studied at the U. S. Animal Husbandry Experiment Station, National Agricultural Research Center, Beltsville, Md.

566. HANKINS, O. G., and FOSTER, M. T. Approximate physical composition of primary cuts from lamb carcasses of different market grades. Washington, U. S. Bur. Anim. Indus., 1940. 3 p. 1.972 A2Ap61

A total of 51 lambs was studied at the U. S. Animal Husbandry Experiment Station, Beltsville Research Center, Beltsville, Md.

567. HANKINS, O. G., and FOSTER, M. T. Approximate physical composition of the primary cuts from steer carcasses of different market grades. Washington, U. S. Bur. Anim. Indus. and U. S. Agr. Mktg. Serv., 1940. 3 p. 1.972 A2Ap6

Based on data on 71 cattle studied at the U. S. Animal Husbandry Experiment Station, Beltsville Research Center, Beltsville, Md.

568. HANKINS, O. G., and ELLIS, N. R. Composition and nutritive value of pork as related to weights of animals and cuts. U. S. D. A. C. 731, 22 p. Ref. July 1945. 1 Ag84C

Research the chief objectives of which were to bring out more clearly the relationships between the weights of cuts and live weight of the animals and between the physical and chemical composition, as well as energy value, and the weights of animals, carcasses and cuts.

569. HANKINS, O. G., and HOWE, P. E. Estimation of the composition of beef carcasses and cuts. U. S. D. A. Tech. B. 926, 20 p. Ref. Oct. 1946. 1 Ag84Te

Results of studies involving the carcasses of 197 cattle.

570. HANKINS, O. G. Estimation of the composition of lamb carcasses and cuts. U. S. D. A. Tech. B. 944, 16 p. Nov. 1947. 1 Ag84Te

The objectives of this study were to determine the relationships between the proportions of separable fat, muscle and bone in the different primary cuts of lamb and those in the dressed carcass as a whole; between the different cuts themselves with respect to these composition factors; and between the major chemical components of the edible portion of the rib, leg, and shoulder cuts and the corresponding components of the dressed carcass.

571. HANKINS, O. G. Evaluation of beef carcass quality. Washington? U. S. Bur. Anim. Indus., 1949. 6 p. 1.972 A2H19 July 7, 1949

Address, conference of technical committees for RMA projects on beef cattle breeding research at Miles City, Mont., July 7, 1949.

572. HANKINS, O. G., BEARD, F. J., and HINER, R. L. Measures of carcass grade in meat animals. Natl. Provisioner 112(7):18-19, 32-33. Feb. 17, 1945. 286.85 N21

Beef and lamb.

573. HANKINS, O. G., and BURK, L. B. Relationships among production and grade factors of beef. U. S. D. A. Tech. B. 665,39 p. Nov.1938. 1 Ag84Te

A study in which 2,073 cattle were used, varying greatly in age, breeding, grade, rations fed, grains, and other factors.

574. HENNING, G. F., and STOUT, W. B. Factors influencing the dressing percentage of hogs. Ohio. Agr. Expt. Sta. B. 505,32 p. Aug.1932. 100 Oh3S

Based on data from tattooed hogs from seven cooperative associations, on records from 437 carloads of hogs shipped by the National Order Buying Co. to one slaughterer, and on material on Federally inspected slaughter for 1923-30, this study analyzes market operations from day to day, as they occur in hundreds of places where hogs are marketed.

575. HETZER, H. O., and others. Relationship between certain body measurements and carcass characteristics in swine.

J. Anim. Sci. 9:37-47. Ref. Feb.1950. 49 J82

O. G. Hankins, J. X. King, and J. H. Zeller, joint authors.

Data from 141 hogs fed in record of performance trials at the U. S. Agricultural Research Center, Beltsville, Md., in the fall of 1947 were used to determine the relative value of certain body measurements for predicting the combined yield of ham, loin, bacon, picnic shoulder, and shoulder butt, and the yield of lean meat in the hams.

576. KNAPP, B., JR. Determination of slaughter-steer grades from weights and measurements. U. S. D. A. C. 524,8 p. Ref. May 1939. 1 Ag84C

Development of a method for use by experiment station workers and extension men, or cattle feeders who may be faced with the problem of grading a group of steers on feed but who cannot obtain the services of technically trained cattle graders.

577. MCCARTHY, B. F. Beef grading and stamping. Amer. Cattle Prod. 17(9):5-6. Feb.1936. 49 P94

Excerpts from an address, annual convention, American National Livestock Assoc., Phoenix, Jan. 9, 1936.

Sketches the history of Government meat grading, answers criticism against it, and explains the value of the service to the industry.

578. MCCARTHY, B. F. Federal grading as it affects beef. Washington, U. S. Bur. Agr. Econ., 1937. 4 p. 1.9 Ec713Fed

Prepared for the Amer. Hereford J. 28(8):24-25. Aug.15,1937. 43.8 Am32

Gives the background of the circumstances which led to the inauguration in 1927 of the national beef grading service, followed by an account of the subsequent development of this service and of the benefits derived therefrom, and a discussion of the various beef grades.

579. MCCARTHY, B. F. Relationship of cattle grades to beef grades according to Federal standards. Washington, U. S. Bur. Agr. Econ., 1937. 7 p. 1.9 Ec71Rcg

Address, annual Cattle Feeders' Day program, Ft. Collins, Colo., May 21, 1937.

580. MCCARTHY, B. F. Why not a single set of standards for beef grades? Washington, U. S. Bur. Agr. Econ., 1935. 4 p. 1.9 Ec713Wn

Arguments in favor of, and progress toward, the adoption of a single or unvarying set of standards which would aid distributors and consumers in the positive determination and identification of the qualities in meat.

581. MOLLIN, F. E. The proposed compulsory beef-grading bill. Natl. Assoc. Mktg. Off. Proc. 18:12-16. 1936. 280.39 N213P

Reviews briefly the steps which led to the introduction of

H. R. 13022 by the then Congressman Marvin Jones in the summer of 1936, and some of the objections raised to it, and more generally to a compulsory grading system.

582. MORSE, J. B. Factors applied in the grading of dressed beef and poultry carcasses. Amer. Vet. Med. Assoc. J. 94:627-633. June 1939. 41.8 Am3

On the principles of grading, grading technique, and descriptive terms for dressed steer beef.

583. OFFICIAL meat grading in Virginia. Va. Dept. Agr. B. 424: 11-12. Apr. 1944. 2 V81B

A brief summary of the advantages of meat grading, followed by a statistical account of grading services in Virginia since their official beginning July 1, 1942.

584. PHILLIPS, R. W., and DAWSON, W. M. Study of methods for obtaining measurements of swine. Amer. Soc. Anim. Prod. Proc. 29: 93-99. Ref. 1936. 389.9 Am3R

An investigation of body type in swine undertaken at the National Agricultural Research Center, Beltsville, Md., for the purpose of establishing indices of type for use in classifying animals to be used in investigations in which the problem of body type is being considered.

585. PIERCE, J. C. New beef grade proposed. U. S. Prod. & Mktg. Admin. Mktg. Activ. 12(11):14-15. Nov. 1949. 1.942 A8M34

On a grade tentatively designated as "Regular."

586. POTTER, A. F. The grading of sheep and lambs. Natl. Assoc. Mktg. Off. Proc. 20:18-19. 1938. 280.39 N213P

Describes efforts at grade standardization.

587. POTTER, E. L. The grading of carcasses. Oreg. Dept. Agr. Agr. B. 154:20-22. June 1947. 2 Or3

Discusses Federal meat grades, the progress made in their acceptance, and the benefits derived therefrom.

588. RAMSBOTTOM, J. M., and STRANDINE, E. J. Comparative tenderness and identification of muscles in wholesale beef cuts. Food Res. 13:315-330. Ref. July/Aug. 1948. 389.8 F7322

Experiments with beef consisting of three heifer carcasses which averaged 500 pounds dressed weight and graded commercially U. S. Good.

589. REED, H. E. Standard grades for livestock and meats. Washington, U. S. Agr. Mktg. Serv., 1939. 7 p. 1.942 L32St2

Address, American Farm Bureau Federation, Chicago, Dec. 4, 1939.

590. SHEPPERD, J. H., and SEVERSON, A. Wiltshire sides; factors which influence production and quality. N. Dak. Agr. Expt. Sta. B. 263,42 p. Jan. 1933. 100 N813

A study the object of which was to ascertain the practicability of feeding northern grown feeds to hogs of various types and to determine the suitability of these carcasses for the European trade in the form of Wiltshire sides. Marketing data are included.

591. SLATER, D. J., and FOSTER, M. T. Market classes and grades of calves and vealers. U. S. D. A. C. 28, rev., 23 p. 1942. 1 Ag84C

Definitions of terms, grade descriptions, classes, weight selections, and market uses.

592. SLATER, D. J. Market classes and grades of swine. U. S. D. A. C. 569,36 p. Sept. 1940. 1 Ag84C

On the development of market classes and grades, classifying and grading, definitions of terms and classifications for swine, slaughter hogs and pigs, and feeder and stocker swine.

593. SMITH, F. E. Meat grading. J. Home Econ. 28:562. Oct. 1936. 321.8 J82

Abstract of a paper presented at the 29th annual meeting of the American Home Economics Association.

On the change in marketing methods brought about by refrigeration and transportation developments, the competition between cattle

dealers of the West and traders in the East, the evolution of, and opposition to, the present meat-grading system, and the advantages of this system.

594. SMITH, P. C. The packer's interest in meat grading. Amer. Coop. 15:477-482. 1939. 280.29 Am3A

Discusses the background against which present methods of beef grading have been developed.

595. SNAPP, R. R. The influence of pregnancy and sex upon some of the factors which affect the feeding and killing qualities of yearling cattle. Urbana, Ill., 1935. 12 p. Libr. Cong.

Abstract of thesis (Ph.D.) - University of Illinois.

Using 6 yearling steers and 12 yearling heifers purchased from a ranch in southern Oklahoma in October 1930, this study gives information in part on general appearance or grade of the fattened animal and of the carcass, dressing percentage, relative weight of wholesale cuts, and physical composition of the carcass.

596. STRONG, C. L. Proposed pork standards feature meat-type hogs. U. S. Prod. & Mktg. Admin. Mktg. Activ. 12(10):7-9. Oct. 1949. 1.942 A8M34

On the proposed standards released by the Livestock Branch of the U. S. Production and Marketing Administration in August 1949.

597. THOMPSON, S. H. Most customers want lighter cuts. Iowa State Col. Agr. Ext. Iowa Farm Sci. 2(11):8-10. May 1948. 275.28 Io94

Discusses the reasons for price differences between light and heavy hogs.

598. U. S. AGRICULTURAL MARKETING SERV. Federal beef grading. U. S. D. A. Misc. P. 391, 15 p. Aug. 1940. 1 Ag84M

Discusses the evolution of Federal grading, grades of beef, grading and stamping procedure, qualifications of graders, and benefits of beef grading.

599. U. S. AGRICULTURAL MARKETING SERV. U. S. graded and stamped meat. U. S. D. A. L. 122, rev., 7 p. July 1941. 1 Ag84L

Beef, lamb and mutton, and veal and calf grading. Lamb and beef charts show wholesale and retail cuts.

600. U. S. BUR. OF AGRICULTURAL ECONOMICS. List of publications on livestock, meats and wool grade standardization. Washington, 1937. 1 p. 1.9 Ec713Lis

Includes bulletins, circulars, leaflets, pamphlets, and service and regulatory announcements.

601. U. S. PRODUCTION AND MARKETING ADMIN. Official United States standards for grades of carcass beef. U. S. Prod. & Mktg. Admin. S. R. A. 99, 7 p. Dec. 1947. 1 M34S

The development and application of standards, specifications for official United States standards for grades of carcass beef (steer, heifer and cow), and grades of bull beef and stag beef carcasses.

602. U. S. PRODUCTION AND MARKETING ADMIN. LIVESTOCK BR. Proposed standards for grades of slaughter barrows and gilts. Washington, U. S. Prod. and Mktg. Admin., 1950. 6 p. 1.956 L75P94

Defines the grades Choice No. 1, Choice No. 2, Choice No. 3, Medium and Cull in terms of the range in average back fat thickness at different carcass weight.

603. VAUGHAN, H. W. Types and market classes of live stock. 4th rev., 22d ed. Columbus, Ohio, College Book Co., 1942. 608 p. 40 V46 Ed.22

Pt. 1 is Cattle; Pt. 2, Sheep; Pt. 3, Swine.

604. WALLACE, J. K., and ANDERSON, I. M. C. Market classes and grades of cattle. Mont. State Col. Ext. B. 136:39-40. May 1933. 275.29 M76C

Includes a brief statement on the change in consumer meat preferences.

605. WANDERSTOCK, J. J., and MILLER, J. I. Quality and palatability of beef as affected by method of feeding and carcass grade. Food Res. 13:291-303. Ref. July/Aug.1948. 389.8 F7322

Studies undertaken on beef produced by yearling steers fed and managed according to methods ranging from entire dry-lot feeding to fattening solely on pasture.

606. WHALIN, C. V., and DAVIS, W. C. Beef-grading and stamping service and grade standards for cattle. Producer 13(8):23-26,28. Jan.1932. 49 P94

On the chaotic conditions which led to the inauguration of the standardization program, the growth of this Federal service, and the benefits derived from the purchase, sale and use of United States graded and stamped beef.

607. WHALIN, C. V. Standard market grades for cattle. Amer. Cattle Prod. 17(7):5-11. Dec.1935. 49 P94

On the need for a uniform standard of appraisal, the availability of Government standards, and stocker and feeder grades.

608. WILSON, P. O. Government meat grading proposals and their probable effect upon producers. Kans. Stockman 35(7):3,30. May 1950. 49 K134

Recommendations resulting from the proposal of the U. S. Department of Agriculture that the beef grading system be adjusted by splitting the grade Commercial in two.

609. WILSON AND COMPANY, CHICAGO. Yields from different grades and weights of steer carcasses; wholesale (primal) cuts, usable meat, lean, fat and bone. Chicago,1943. 20 p. 50 W692Y

Similar title in Natl. Provisioner 108(20):14-15,30,41; (21):12-13, 24. May 15, 22,1943. 286.85 N21

Results of a test involving a comparative study of the carcasses from various weights and grades of yearling and two-year-old steers.

Canada

610. CANADA. PARLIAMENT. HOUSE OF COMMONS. SELECT STANDING COMMITTEE ON AGRICULTURE AND COLONIZATION. Minutes of proceedings and report...March 13, 1934- June 5, 1934. No. 1-10. Ottawa, Patenaude, 1934. 281.9 C168

No. 1 and 2 are on hog grading.

611. CANADIAN bacon-grading regulations. Gt. Brit. Min. Agr. J. 41:288. June 1934. 10 G79J

On Grades A, B, and C, as prescribed by the Minister of Agriculture of Canada.

612. CRAMPTON, E. W. The analysis and interpretation of hog carcass data. Sci. Agr. 19:155-161. Nov.1938. 7 Sci2

Address, ninth annual general meeting, Canadian Society of Animal Production, Eastern Section, at the Central Experimental Farm, Ottawa, Ont., June 29, 1938.

A paper the object of which is to attempt to describe in nontechnical terms two statistical procedures found useful in the study of typical hog carcass data. An actual set of data, taken from a cooperative feeding trial conducted in Canada during 1937, is used.

613. LEFEBVRE, J. G. Comparison of carcasses of male and female pigs scored for advanced registry. Canad. Swine 6(4):17. Dec.1944. 46.8 C16

A study whose purpose was to determine the difference between carcasses of male and female pigs, and the reasons for differences in carcass grading of the two sexes.

614. STOTHART, J. G. A study of factors influencing swine carcass measurements. *Sci. Agr.* 19:162-172. Ref. Nov.1938. 7 Sci2

Paper delivered before the ninth annual general meeting of the Canadian Society of Animal Production, Eastern Section, at the Central Experimental Farm, Ottawa, Ontario, June 29, 1938.

Analyzes some of the data collected on pigs tested at the Testing Stations in 1937, and deals with the factors affecting some of the carcass characteristics and the relationships which exist between the measurements.

615. WOODCOCK, A. H. Colour of meat. IV. Measurement of the colour of bacon. *Canad. J. Res. Sect. D* 21:90-97. Ref. Apr.1943. 470 C16D

A study of the reflection spectrum of pork and bacon in detail through the use of spectrophotometric measurements.

Australia

616. WILLIAMS, J. R. Marketing baconer pigs. N. S. Wales. *Dept. Agr. Div. Mktg. & Agr. Econ. Rev. Mktg. & Agr. Econ.* 14(1):21-22. Jan.1946. 286.8 N47M

Pig weight recommendations made with a view to assuring the post-war stability of the pig raising industry in Australia.

617. APPRAISAL and judging of pig carcasses. Victoria Dept. *Agr. J.* 36:261-269. June 1938. 23 V66J

This account of a demonstration by Dr. John Hammond held at the Braybrook Works of Messrs. Western and Murray Bacon and Meat Packing Co. Ltd., Apr. 8, 1938, describes the three stages in judging, and the scale of points.

618. CULLITY, M. The pig industry; carcass quality. West. *Austral. Dept. Agr. J. (ser.2)*20:28-34. Mar.1943. 23 W52J

Commercial requirements with respect to carcass characteristics, Australia.

619. DOWNEY, L. A. Pig carcass appraisal. Victoria Dept. *Agr. J.* 45:354-359. Aug.1947. 23 V66J

On a new service provided to the pig industry of Victoria by the Department of Agriculture of Victoria, and the owners and managers of bacon factories and meat works.

620. GRADING of export beef. *Past. Rev.* 47:892-893. Aug.16, 1937. 23 Au75

Contains observations of Ross Grant, Commonwealth Veterinary Officer for Victoria, in a report on the grading of export beef made to and adopted by the Australian Meat Board.

621. HOLLAMBY, E. R. Carcass quality of bacon pigs. Queensland *Agr. J.* 47:260-265. Mar.1937. 23 Q33

Various points which go to make up good carcass quality.

622. MCAULIFFE, W. S. Baconer carcass appraisals; a summary of the baconer carcass appraisals carried out in South Australia during the year 1948. *So. Austral. Dept. Agr. J.* 52:279-280. Jan. 1949. 23 So84

Results of the appraisal of 284 carcasses.

623. MCAULIFFE, W. S. South Australian baconer carcass competition. *So. Austral. Dept. Agr. J.* 52:231-235. Dec.1948. 23 So84

Carcass grading of entries in a competition conducted by the Australian Meat Board, November 1948.

624. MCAULIFFE, W. S. Yahl baconer carcass appraisal. *So. Austral. Dept. Agr. J.* 51:279-281. Jan.1948. 23 So84

Results of a competition held Oct. 24, 1947, at the Yahl Bacon Factory, wherein 21 carcasses were submitted for appraisal under the Hammond system.

625. SEDDON, H. R. The case against "C" class sheep. Agr. Gaz. N. S. Wales 47:65-67. Feb.1936. 23 N472

Analyzes records kept of several thousand sheep, and compares classes "A" and "C."

New Zealand

626. DAVIDSON, H. R., and others. A method for judging pork and bacon carcasses. Pig Breeders' Annu. 16:49-64. 1936/37, pub.1936. 46.9 N21P

J. Hammond, J. B. Swain, and N. L. Wright, joint authors.

Similar title in N. Zeal. J. Agr. 54:203-215. Apr.1937. 23 N48J

Abs. under title "Judging frozen pig carcasses for the British market" in So. Austral. Dept. Agr. J. 41:634-640. Feb.1938. 23 So84, and in So. Austral. Dept. Agr. B. 332,7 p. 1938. 23 So84B

A scheme developed primarily for frozen carcasses, but considered applicable to fresh carcasses, with modifications as to marks for softness of fat and quality and texture of flesh.

627. LONGWILL, A. Carcass quality evaluation scheme for baconers. New Zeal. J. Agr. 77:559,561-562. Dec.1948. 23 N48J

Describes the operation of this scheme, instituted in New Zealand in 1938, and tells how farmers can cooperate to ensure its success.

628. MCMEEKAN, C. P., and others. New Zealand bacon pig judging standards. New Zeal. J. Sci. & Technol. Sect. A, Agr. 26:157-170. Dec.1944. 514 N48A

H. M. Peirson, H. E. Johnson, H. Kneebone, F. Merrit, and J. D. Anderson, joint authors.

Presents the details of a system of evaluating the New Zealand bacon pig carcass.

629. NEW ZEALAND. DEPT. OF AGRICULTURE. New bacon-judging standards; report of Technical Committee set up by the Department of Agriculture. New Zeal. J. Agr. 70:61-65,67-69. Jan. 1945. 23 N48J

Standards tried out at competitions involving the judging of 2,000 hog carcasses, New Zealand.

630. PEIRSON, H. M. Baconer competitions; new standards for judging. New Zeal. J. Agr. 69:209-212. Sept.1944. 23 N48J

Details of a new system for judging New Zealand bacon pig carcasses which allots a maximum of 100 points to each pig, 65 points for characters evaluated by direct measurement, and 35 points for characters measured by eye judgment.

631. WALKER, D. E., and MCMEEKAN, C. P. Canterbury lamb. New Zeal. J. Sci. & Technol., Sect. A, Agr. 26:51-73. Ref. Aug.1944. 514 N48A

Pt. 1, Carcass measurements as indices of quality; Pt. 2, Comparative measurements of Canterbury lamb.

United Kingdom

632. FROZEN bacon carcasses in demand on the United Kingdom market. Agr. Gaz. N. S. Wales 49:83-89. Feb.1938. 23 N472

Defines quality standards.

633. GERRARD, F. Carcass quality in the pork pig. Pig Breeders' Gaz. 59:21,23. Sept.1949. 46.8 N21

Particular emphasis in the evaluation of carcasses is placed on conformation, fatness, and muscle.

634. GT. BRIT. SECOND INTER-DEPARTMENTAL COMMITTEE ON THE GRADING AND MARKING OF BEEF. Report. London, H. M. Stationery Off.,1932. 68 p. 50 G79Ab

Gt. Brit. Parliament. Papers by Command. Cmd. 4047.

The aims, progress, and future conduct of the National Mark Beef Scheme, the grading and marking policy, the reorganization of slaughtering, advertising National Mark beef, and costs of grading and marking.

635. HAMMOND, J., and MURRAY, G. N. The body proportions of different breeds of bacon pigs. *J. Agr. Sci.* 27:394-431. Ref. July 1937. 10 J822

Based on an examination of cured and smoked sides of bacon exhibited at the London Dairy Show, 1922-31, this report deals with shrinkage from live weight to carcass and bacon weights, market requirements with respect to optimum proportions, changes in the proportions of the side with increase in weight, changes in proportions with increase in length, and the effect of sex on body proportions.

636. HAMMOND, J., and MURRAY, G. N. Grading meat: the prices given for carcasses of different weights and qualities. *J. Agr. Sci.* 24:233-249. Ref. Apr.1934. 10 J822

A paper the object of which is to define exactly the variations in the price of meat carcasses due to variations in weight and quality as shown by differences in the conformation according to breed and other factors, to serve as a basis for a scientific system of grading meat carcasses. Prices realized at the auction sales of carcasses at the Smithfield Show in London, 1922-31, are analyzed.

Marketing Livestock by Grade

637. FERRIN, E. F. Selling hogs by carcass weight and grade. *Swine World* 27(11):10-11. Dec.1940. 46.8 Sw62

Similar title in *Amer. Hampshire Herdsman* 21(6):104,185-187. June 1946. 46.8 Am33

Points out the advantages of, and objections to, this method from experience in Canada, England and Denmark, and compares it with the method of sale on the basis of 100 lbs. live weight in effect in the United States.

638. SHEPHERD, G. Hog selling methods abroad. *Iowa Farm Econ.* 3(1):7-9. Jan.1937. 275.28 Io92

Describing briefly sale by the head, by the hundred pounds live weight, and by carcass weight and grade, this article deals with Danish, British, and, mainly, Canadian experience.

639. SHEPHERD, G. Livestock marketing methods in Denmark, Great Britain and Canada. *Iowa Agr. Expt. Sta. B.* 353:113-160. Jan.1937. 100 Io9

Embodies the results of investigations made by the author during a visit to these countries in 1935-36.

640. SHEPHERD, G., and BEARD, F. J. Selling hogs on carcass grades. *Iowa Farm Econ.* 5(4):12-14. Oct.1939. 275.28 Io92

Reports results of an experiment involving 100 Good to Choice 220-230 lb. butcher hogs of the same breed from the Iowa State College feeding test lots, discusses carcass grading problems, and gives an account of Canadian practice.

641. SHEPHERD, G., and BEARD, F. J. Selling hogs on carcass grades; are farmers paid strictly according to the value of the hogs they sell? *Swine World* 26(12):15,43. Jan.1940. 46.8 Sw62

Deals with the United States and Canada. Concludes that carcass buying would be more accurate than live-weight buying.

United States

642. ANDERSON, H. G., and BENTON, A. H. Cattle marketed in

North Dakota, 1929-30-31, and some factors underlying their production. N. Dak. Agr. Expt. Sta. B. 275,51 p. Nov.1933. 100 N813

Data by counties on the classes and grades of cattle marketed.

643. ANDERSON, H. G., and BENTON, A. H. Classes and grades of cattle and calves marketed from North Dakota, 1929. N. Dak. Agr. Expt. Sta. B. 254,46 p. Feb.1932. 100 N813

A study the purpose of which is to determine the relative quality of cattle and calves as far as possible by the determination of these classes, sub-classes and grades.

644. ARE YOUR hogs sold on quality? Successful Farming 47(5): 44,122-124. May 1949. 6 Su12

Arguments in favor of selling hogs by grades. The possibility of the carcass method of sale is suggested.

645. ARTHUR, I. W. Variations in market preferences for hogs. J. Farm Econ. 15:171-174. Jan.1933. 280.8 J822

An analysis of the consolidated reports from 111 packing plants involving 38 million hogs slaughtered in different sections of the United States under Federal inspection in 1928.

646. BULL, S., and others. Value of present-day swine types in meeting changed consumer demand. Ill. Agr. Expt. Sta. B. 415:257-295. July 1935. 100 IL6S

F. C. Olson, G. E. Hunt, and W. E. Carroll, joint authors.

Illinois experiments with two groups of hogs slaughtered at individual weights of approximately 170 lbs. and 200 lbs., respectively.

647. BUTZ, V. Oskvig sells meat, not cattle. Successful Farming 46(12):126,128-130. Dec.1948. 6 Su12

Selling cattle on the basis of the dressing percentage and the carcass grade as determined by a Federal grader. Discusses the mechanics of handling "Grade-and-Yield" marketings in the packing plant.

648. BUTZ, V. Why some hogs are worth more. Successful Farming 46(3):28,60-61. Mar.1948. 6 Su12

On the carcass demonstration at the National Barrow Show, October 1947, at Austin, Minn. Cites carcass characteristics which explain differences in value.

649. DOWELL, A. A., and others. Marketing slaughter cattle by carcass weight and grade. Minn. Agr. Expt. Sta. Tech. B. 181,64 p. Feb.1949. 100 M66

G. Engelman, E. F. Ferrin, and P. A. Anderson, joint authors.

Similar title in Minn. U. Agr. Ext. Farm Business Notes 309:1-2. Oct.25,1948. 275.29 M663, and in Minn. Farm & Home Sci. [Minn. Sta.] 6(3):12-13. May 1949. 100 M668

Based on data obtained at the Geo. A. Hormel & Co. meat packing plant, Austin, Minn.

650. DOWELL, A. A., and ENGELMAN, G. Research into the problems involved in marketing slaughter livestock by carcass weight and grade. J. Farm Econ. 31(1,pt.2):343-361. Feb.1949. 280.8 J822

Discussion by G. M. Lewis, p. 361-364; by D. G. Patterson, p. 364-367; and by M. A. Schaars, p. 367-369.

Reviews the results of studies of slaughter cattle and hogs at the Minnesota Agricultural Experiment Station.

651. ENGELMAN, G. Carcass grade and weight studies in marketing livestock. J. Farm Econ. 29:1424-1428. Nov.1947. 280.8 J822

A statement of the questions concerned, and a discussion of the approach for cattle, calves, lambs and hogs.

652. ENGELMAN, G., and others. Marketing hogs by weight and grade of carcass. Minn. Farm & Home Sci. [Minn. Sta.] 6(1):1-2. Nov.1948. 100 M668

A. A. Dowell, E. F. Ferrin, and P. A. Anderson, joint authors.

Similar title by G. Engelman and A. A. Dowell in Minn. U. Agr. Ext. Farm Business Notes 309:2-3. Oct.25,1948. 275.29 M663

Results of an investigation conducted at the University of Minnesota to determine whether it is possible to grade hog carcasses according to their cut-out value.

653. ENGELMAN, G., and others. Marketing slaughter hogs by carcass weight and grade. Minn. Agr. Expt. Sta. Tech. B. 187,87 p. Apr.1950. 100 M66

A. A. Dowell, E. F. Ferrin, and P. A. Anderson, joint authors.

A study which centered on a search for possible functional relationships between the recorded carcass measures and the relative proportions of the various wholesale cuts.

654. ENGELMAN, G. Some economic and physical problems in the marketing of slaughter hogs on the basis of carcass weights and grades in the United States. 1948. 237 p. Ref. U. Minn. Libr.

Typewritten.

Thesis (Ph.D.) - University of Minnesota.

A study concerned primarily with developing carcass grade standards and what their use in a carcass grade and weight system of marketing hogs could contribute to the accuracy of hog price determination. A section entitled "The basis of sale in certain other countries," p. 8-16, deals with Denmark, Sweden, Great Britain, and Canada, and notes that nearly all of the slaughter hogs produced in these countries are now sold on the basis of carcass weight and grade.

655. FOX, R. L. Shen-Valley pays for meat instead of hogs. U. S. Farm Credit Admin. News Farmer Coop. 17(1):10,21. Apr.1950. 166.2 N47

Payment by Shen-Valley Meat Packers, Inc., Timberville, Va., on the carcass grade and weight basis.

656. FRASER, W. O. Pros and cons of marketing hogs on a grade basis. Washington, U. S. Agr. Mktg. Serv., 1942. 9 p. 1.942 L32P94

Address, Livestock Marketing Conference, Indiana Farm and Home Week Program, Purdue University, LaFayette, Ind., Jan. 16, 1942.

On the benefits to the swine industry of the classifying and grading of swine before they are sold, and the three methods of selling hogs on the basis of grade.

657. GARRITY, E. J. Buying hogs on carcass yield. Breeder's Gaz. 106(3):8,17,20. Mar.1941. 49 B74

On the method inaugurated by Geo. A. Hormel & Company's plant at Austin, Minn., in 1933.

658. HALLMER, F. The grade of cattle. Natl. Assoc. Mktg. Off. Proc. 20:16-17. 1938. 280.39 N213P

Experience on the Cleveland market.

659. HOGS CAN have more lean meat cuts. Wallace's Farmer & Iowa Homestead 71:148. Feb.16,1946. 6 W15

Discusses breeding hogs for more high-value lean meat and less low-value lard. Markets should pay for hogs on the basis of quality rather than on averages. Mentions the need for official grading.

660. IT'S TIME hogs sell for what they're worth. Successful Farming 46(3):27. Mar.1948. 6 Su12

An editorial arguing for an improved system of marketing hogs, and for new carcass grade standards to enable more accurate payment according to value.

661. JACKSON, W. Relating live-hog values to cut-out performance. Chester White World 31(2):14-19. Feb.15,1950. 46.8 C42

Address, Wilson & Co. Livestock Conferences for County Extension Agents, Albert Lea, Minn., Jan. 10, and Cedar Rapids, Iowa, Jan. 11, 1950.

Discusses preliminary results of research performed by Wilson & Co. on this subject.

662. JACKSON, W. C. Live hog values and cut-out performance. *Poland China World* 37(4):15-16. May 1950. 46.8 Sw62

Conclusions based on an extensive series of cut-out tests undertaken by Wilson & Co., Chicago.

663. JOHNSON, L. E. The relationship of feeder grade, initial weight, total gain, finished grade, and carcass grade of lambs. *J. Anim. Sci.* 3:224-232. Ref. Aug. 1944. 49 J82

A study dealing with lambs fed cooperatively by the Experiment Station of the South Dakota State College, the U. S. Bureau of Animal Industry, and the U. S. Bureau of Plant Industry at the U. S. Belle Fourche Field Station, Newell, S. Dak.

664. KETNER, F. G. The grading of hogs. *Natl. Assoc. Mktg. Off. Proc.* 20:19-21. 1938. 280.39 N213P

Includes the diminishing demand for lard hogs, and changes in marketing methods.

665. LAMB grading program for Kansas. U. S. D. A. Ext. Serv. *Rev.* 4:54. July 1933. 1 Ex892Ex

Outlines the various steps in this program, and reports the results of three years of lamb grading operations in Marion County.

666. PERRY, R. W. The increasing competition with lard. *Ill. Agr. Col. Ext.* AE1373:1-13. Mar. 1940. 275.29 IL62P

Contrasts the two general views regarding future hog types, points out consumer preference for leaner pork, considers the problem of packers' paying a premium for leaner hogs, and discusses advantages which might result if packers should buy hogs on the basis of carcass yield and grade.

667. PLAGER, C. Type makes a difference. *Duroc News* 18(10):42,44,137-139. Oct. 1944. 46.8 N212

A report on the hog carcass demonstration at the National Duroc Congress, Aug. 17-19, 1944, discussing factors influencing hog values, the difficulty in appraising the value of live hogs, and advantages of sale by carcass weight and grade.

668. POWELL, J. C. Selling Tennessee spring lambs on grade. *Tenn. Agr. Col. Ext. L.* 15,4 p. Apr. 1942. 275.29 T25L

Subjects include Tennessee's position in spring lamb marketing in relation to other States, early marketing and grading practices, weights and grades used, conformation, quality and finish, and requisites of a successful grading system.

669. REED, H. E. Marketing hogs. *Washington, U. S. Prod. and Mktg. Admin.*, 1950. 5 p. Feb. 7, 1950. 1.9422 L2R25

Address, annual meeting, Central Livestock Assoc., St. Paul., Feb. 7, 1950.

In favor of the adoption of a grade system for live hogs which would appraise the value of a live hog in relationship to its cut-out value, as opposed to the "weight-break" method.

670. REED, H. E. New standards for hog grading and trading. *Natl. Provisioner* 122(16):122,125. Apr. 22, 1950. 286.85 N21

On the development of a new live-hog grading system whereby the value of live hogs would be appraised in relationship to their cut-out value.

671. REED, H. E. Three hogs went to market. *U. S. Prod. & Mktg. Admin. Mktg. Activ.* 13(2):3-9. Feb. 1950. 1.942 A8M34

States the problem of how to determine the true worth of hogs in terms of quality and cut-out values, and outlines as a solution tentative Federal hog grades measuring quality and at the same time giving producers and buyers a standard by which the ratio of lean to fat cuts can be determined.

672. RUSSELL, J. S. They sell pork—not hogs. Successful Farming 39(4):24,58-59. Apr.1941. 6 Su12

Experience of farmers selling hogs by carcass weight and grade in the vicinity of Austin, Minn.

673. SHEPHERD, G., BEARD, F. J., and ERIKSON, A. Could hogs be sold by carcass weight and grade in the United States? Iowa Agr. Expt. Sta. Res. B. 270:445-506. Jan.1940. 100 Io9

A study of the desirability and practicability of this method, with a discussion of the economic problems involved.

674. SHEPHERD, G., and BEARD, F. Grading hogs on the rail. Would the guesswork be taken out of hog marketing by a carcass system of buying? Country Gent. 110(9):9,63. Sept.1940. 6 C833

Outlines the faults of the live-weight purchase system, and recommends a marked change in hog-marketing methods.

675. YORKSHIRE hog wins carcass contest. Wallace's Farmer & Iowa Homestead 73:1114-1115. Oct.2,1948. 6 W15

This account of the carcass contest at the National Barrow Show, Austin, Minn., September 1948, discusses the contest rating of carcasses according to value, and apparent inconsistencies with live-hog judging.

Canada

676. CANADA. NATIONAL ADVISORY BEEF COMMITTEE. Report of sub-committee appointed by the National Advisory Beef Committee to investigate the practicability of selling cattle by carcass grade and weight, March 1942. Ottawa,1942. 23 p. 280.343 C16

Results of a study of 3,499 individual animals at the different packing plants in Vancouver. Recommendations are given on p. 14.

677. HANCOCK, L. Canadian experience in hog carcass grading. Amer. Coop. 18:838-842. 1946. 280.29 Am3A

On the history and advantages of, and the procedure under, this system.

678. HARRIES, H. W. Canadian farmers "sold" on carcass grading. Iowa Farm Econ. 12(3):6-7. Mar.1946. 275.28 Io92

On the transition from live to carcass grading during the period 1934-40, the setting up of definite standards, and procedure under the system.

679. HEDLIN, R. Putting a price on market cattle. Country Guide 69(3):8-9,38-39. Mar.1950. 7 G76

The grading of cattle, Canada.

680. MCKEE, D. Selling hogs by carcass yield. Breeder's Gaz. 106(1):6,11,15,21. Jan.1941. 49 B74

Canadian experience with this method.

681. PEARSALL, L. W. Standards for the grading of market hogs. C. S. T. A. Rev. 8:447-454. May 1936. 7 C167C

Discusses the development of grade standards for live hogs and hog carcasses in Canada; marketing hogs by grade; and advantages of carcass grading over live-hog grading.

682. PEARSALL, L. W. Why carcass grading of hogs? C. S. T. A. Rev. 27:8-10,25. Dec.1940. 7 C167C

Outlines the steps leading to the adoption of the hog-grading regulations in Canada.

683. RAY, V. B. Canadian hogs are bought on dressed value. Successful Farming 46(3):31-32,90-91. Mar.1948. 6 Su12

On the development of live-weight and carcass grading, and the marketing of hogs by carcass weight and grade in Canada.

Australia

684. GRANT, R. Purchase of cattle (for slaughter) on a live weight basis; is it practicable in Australia? *Past. Rev.* 58:114-115. Feb.16, 1948. 23 Au75

Concludes that the introduction into Australia of the system of purchase on a live-weight basis would result in no advantage to either producers or meat operators, and that purchase over the scale after slaughter on a weight and grade basis is most desirable.

United Kingdom

685. BLACK, D. Pigs by dead or live weight? *Farmer & Stock-Breeder* 54:707. Mar.26,1940. 10 F228

An examination by the former General Manager of the British Pigs Board of the difficulties of the live-weight system. Opposes payment on a live-weight basis.

686. FAT STOCK: carcass sales by grade and dead weight. *Gt. Brit. Min. Agr. J.* 41:1095-1097. Feb.1935. 10 G79J

Progress during 1934 under the facilities provided by the British Ministry of Agriculture.

687. MANOR, J. Seventy years of fatstock buying; how Britain tackles grading problems. *Farmer & Home Companion* 37(23):20. June 4,1948. 24 F227

Grading of sheep and cattle by a panel of graders, representative of both buyers and producers, whose duty it is to classify the stock and then to estimate what percentage of the live weight of each animal will be recoverable as edible meat.

688. MARKETING of fat stock by grade and dead weight. *Gt. Brit. Min. Agr. J.* 40:971-973. Jan.1934. 10 G79J

Grades and definitions for the various classes of fat stock included in the experimental schemes of the British Ministry of Agriculture in operation at the wholesale meat markets at London (Smithfield), Birmingham and in the Birkenhead, Leeds, and Bradford areas.

689. PUNTER, A. W. Some grading results at an eastern counties bacon factory. *Gt. Brit. Min. Agr. J.* 43:440-445. Aug.1936. 10 G79J

Grading results at the Messrs. Harris (Ipswich), Ltd., Bacon Factory as divulged in a lecture at the Saxmundham Experimental Station.

690. ROBERTS, H. E. The sale in Wales of fat stock under the Grade and Dead Weight Scheme of the Ministry of Agriculture. *Agr. Business* 3(1):7-9. Spring 1936. 280.29 W46

Procedure under this Scheme, first put into operation in Wales in 1933.

691. SALE OF live cattle on dead weight. *Live Stock J.* 116:144. Aug.5,1932. 49 L74

Describes the procedure under, and benefits of, the British National Mark beef grading system.

692. WARMAN, W. H. The organisation of the trade in Welsh mutton and lamb under the National Mark. *In* Welsh National Conference on the Breeding and Marketing of Sheep. Welsh national conference convened by the Welsh Department of the Ministry of Agriculture and Fisheries on the breeding and marketing of sheep, held at Aberystwyth, on Nov. 4th and 5th, 1931, p. 69-72. Birkenhead, H. M. Stationery Off., 1932. 45.9 W462

On the proposed National Mark mutton and lamb scheme, Great Britain.

Merchandising Meat by Grade and Consumer Attitudes

United States

693. ASHBY, R. C., BULL, S., and HEDLUND, E. C. Consumer attitudes toward Government grade-stamped and packer-branded beef. Amer. Soc. Anim. Prod. Proc. 32:329-332. 1939. 389.9 Am3R

Based on interviews with 351 consumers in Decatur, Ill., in 1939.

694. ASHBY, R. C., and HEDLUND, E. C. Consumers and graded beef. Ill. Farm Econ. 57:317-319. Feb.1940. 275.28 IL5

Results of a survey made in Decatur, Ill., in the summer of 1939, to determine whether consumers were purchasing beef by Government grade or by packer brand.

695. ASHBY, R. C., and others. Retailer and consumer reaction to graded and branded beef. Ill. Agr. Expt. Sta. B. 479:337-392. Aug.1941. 100 IL6S

R. J. Webb, E. C. Hedlund, and S. Bull, joint authors.

Results of a study undertaken in 1938 and 1939 to learn what grades and brands of beef are handled by Illinois retailers, to ascertain retailers' opinions of graded beef and branded beef, to learn what consumers know about beef and on what they base their beef buying, and to determine what may be done to help consumers buy beef to better advantage.

696. BULL, S. Lamb and mutton for the table. Ill. Agr. Col. Ext. C. 645,24 p. June 1949. 275.29 IL62C

Grading and retail cuts are among the subjects discussed.

697. BULL, S. The producer's interest in meat grading. Amer. Coop. 15:469-476. 1939. 280.29 Am3A

Analyzes the results of a survey of Chicago and downstate retail meat dealers conducted by the University of Illinois in the summer of 1938.

698. CAULEY, T. P. The consumer's interest in meat grading. Amer. Coop. 15:483-486. 1939. 280.29 Am3A

Urges honesty in retail advertising of meat grades and cuts, and the adoption of standard grade descriptions which can be easily understood by the purchasing consumer.

699. COLES, J. V. Standards and labels for consumers' goods. New York, Ronald, 1949. 556 p. 280.3 C67

Includes Federal meat grades, and meat and meat products inspection.

700. FRIBLEY, MRS. W. E. What the meat consumer wants. Natl. Provisioner 95(16):136,138-139. Oct.17,1936. 286.85 N21

Consumer preferences with respect to grades and cuts.

701. KAISER, A. J. Trends in merchandising meat at retail. Natl. Provisioner 95(16):113-114. Oct.17,1936. 286.85 N21

Notes reasons for progress made, and the need for legislation to require all meat retailers to designate quality by using U. S. Government grades.

702. MCCARTHY, B. F. The Federal meat grading service and its adaptability to State purchases. Washington, U. S. Bur. Agr. Econ., 1937. 7 p. 1.9 Ec713Fe

Address, annual meeting, Association of Ohio Public Officials, Youngstown, Ohio, May 15, 1937.

703. MCCARTHY, B. F. Government meat grading and its relation to wholesale cuts used by restaurants and other public eating places. Washington, U. S. Bur. Agr. Econ., 1936. 4 p. 1.9 Ec713G

Address, annual convention, Ohio State Restaurant Association, Columbus, Apr. 28, 1936.

704. MCCARTHY, B. F. The importance of graded and stamped

meats to retailers and consumers. Washington, U. S. Bur. Agr. Econ., 1937. 7 p. 1.9 Ec713I

Address, University of Minnesota's Fourth Annual Retail Meat Dealers' Short Course, Minneapolis, Mar. 8-9, 1937.

705. MCCARTHY, B. F. Lamb grading of increasing importance in the Federal meat grading plan. Washington, U. S. Bur. Agr. Econ., 1937. 6 p. 1.9 Ec713Lam

Address, National Wool Growers Association convention, Albuquerque, Jan. 26-28, 1937.

706. MCCARTHY, B. F. Meat grading effective and far-reaching. Washington, U. S. Bur. Agr. Econ., 1936. 4 p. 1.9 Ec713Meat

Address, annual convention, National Association of Retail Meat Dealers, Cleveland, Aug. 3, 1936.

707. MOFFETT, A. G. New grade label developed to identify packaged meats. Va. Foodman 11(2):14. Feb. 1950. 286.28 V81

A label for consumer-packaged meats developed by the Division of Markets, Virginia Department of Agriculture, to identify "Good Grade" meat to the consumer, and to develop confidence between the retailer and the consumer as to meat quality.

708. RINGER, I. W. Facts about compulsory meat grading. Amer. Cattle Prod. 17(7):18-21. Dec. 1935. 49 P94

Consumer interest in grades and quality, the importance of standardization to proper advertising, and the advantages of grading.

709. RINGER, I. W. Government grading helps meat sales. Amer. Cattle Prod. 20(9):7-10. Feb. 1939. 49 P94

Subjects include the limited knowledge of the proprietor, misleading practices and deception, and specific benefits to the meat industry of adequate Government inspection and grading.

710. U. S. AGRICULTURAL MARKETING SERV. Buying beef by grade. U. S. D. A. Misc. P. 392, 8 p. 1940. 1 Ag84M

Includes a brief account of the characteristics determining grade, and describes the prime, choice, good, commercial and utility grades.

711. WHALIN, C. V. Market and economic services for the retail meat dealer. Washington, U. S. Bur. Agr. Econ., 1937. 12 p. 1.9 Ec713Mes

Address, 52d annual convention, National Association of Retail Meat Dealers, Inc., Cincinnati, Aug. 9, 1937.

The place of retail meat distribution in the national economic structure, and such Government services as the setting up of standards for the market classes and grades of lambs and for meats, the collection of price data, and meat grading, stamping and certification.

712. WHALIN, C. V. The national meat grading and stamping service. Washington, U. S. Bur. Agr. Econ., 1938. 9 p. 1.9 Ec713Ad no. 2

Address, convention of National Association of Retail Meat Dealers, Milwaukee, Aug. 8, 1938.

713. WHALIN, C. V. Statement...before the General Welfare Committee of the New York City Council regarding the Federal meat grading service. June 16, 1938. Washington, U. S. Bur. Agr. Econ., 1938. 16 p. 1.9 Ec713Ad no. 1

Same, abridged, in Consumers' Guide 5(7):9-11. Aug. 1938. 1.94 Ad422C

The ordinance introduced before the Council of the City of New York, Mar. 1, 1938, contemplated mandatory grading and marking of beef, lamb and mutton according to Federal standards of quality. This statement was prepared to assist the committee in a better understanding of the service as conducted by the U. S. Bureau of Agricultural Economics.

714. WOOD, A. The purchase of foods according to specifications. Amer. Dietet. Assoc. J. 25:955-956,958,962. Ref. Nov.1949. 389.8 Am34

A discussion of meats, p. 958, 960 and 962, with references to grades and terminology.

United Kingdom

715. NATIONAL mark beef. Gt. Brit. Min. Agr. J. 43:470-471. Aug.1936. 10 G79J

Sides of beef graded and marked with the National Mark, April-June 1935 and 1936, and the three weeks ended July 18, 1936, in the London, Birkenhead, Birmingham and Yorkshire areas.

GOVERNMENT REGULATION

Regulation of Markets

United States

716. ARTHUR, I. W. Public regulation of monopolistic practices in the American livestock and wholesale meat trades. 1939. 213 p. Ref. U. Minn. Dept. Agr. Libr.

Typewritten.

Thesis (Ph.D.) - University of Minnesota.

Partial contents: Ch. 3, The meat packing industry and the anti-trust laws; Ch. 4, The Packers and Stockyards Act of 1921; Ch. 5, Federal market services; Ch. 6, State regulation of direct marketing of livestock.

717. ASHBY, R. C. Federal regulation of livestock markets. Ill. Agr. Col. Ext. AE2518,45 p. May 1948. 275.29 IL62P

Analyzes livestock market regulations under the U. S. Packers and Stockyards Act as reflected in the first 1,200 dockets issued in enforcing the act, and discusses the effectiveness of this enforcement.

718. ASHBY, R. C. State regulation of livestock markets. Ill. Agr. Col. Ext. AE2438,20 p. Feb.1947. 275.29 IL62P

Affords a national view of the major aspects of State regulation and an idea of the trend in recent years.

719. KITCHEN, C. W. Selling livestock on commission under the Packers and Stockyards Act. Washington,U. S. Agr. Mktg. Serv.,1940. 10 p. 1.942 L3Se4

Address, National Live Stock Exchange convention, St. Louis, June 7, 1940.

720. REED, H. E. Livestock marketing problems and the Packers and Stockyards Act. Washington,U. S. Agr. Mktg. Serv.,1940. 9 p. 1.942 L3L25

Address, Central Co-operative Association, St. Paul. Feb. 13, 1940. Discusses, in part, changes in marketing methods, and reasonable rates and charges for stockyard services.

721. THOMAS, S. Government regulation of livestock commission rates. Washington,U. S. Dept. Agr., Off. Solicitor.1935. 16 p. 1.9 So45Go

Address, National Livestock Exchange, Cincinnati, May 3, 1935.

Canada

722. INTERNATIONAL chronicle of agriculture: Canada. Internatl. Rev. Agr. 29:86E-89E. Feb.1938. 241 In82A

Reviews measures affecting meat markets, and emergency

provisions regarding livestock.

Inspection and Sanitation

723. BIERER, B. W. Survey of municipal and State meat inspection. Camden, Del., 1942. 28 p. 50 B472

Subjects include the early history of local inspection in North America, cities, States and provinces having inspection, and the local abattoir and manufacturing plant problem.

724. CAMERON, T. W. M. Parasites of importance in meat inspection in North America. Amer. Vet. Med. Assoc. J. 88:282-288. Mar. 1936. 41.8 Am3

Parasites transmitted to man only through meat, parasites rendering meat unfit for human consumption, and parasites of importance in differential diagnosis.

725. GINSBERG, A., and ROBERTSON, A. Meat hygiene. Vet. Rec. 61:9-10. Ref. Jan. 8, 1949. 41.8 V641

Notes that meat hygiene, a broader term than meat inspection, deals with the condition and health of animals and carcasses destined for human consumption, the construction and management of abattoirs, the preservation of meat, and its processing, transport and disposal. Describes the development of meat hygiene on the Continent before World War II, and compares unfavorably British meat hygiene and inspection with that of Continental and other countries.

726. GINSBERG, A. The modern outlook on meat inspection. Vet. Rec. 59:255-256. May 24, 1947. 41.8 V641

Deals principally with Great Britain and Germany.

727. OSTERTAG, R. VON. Text-book of meat inspection (ante-mortem and post-mortem), edited by T. Dunlop Young and translated by C. F. Marshall. London, Baillière, Tindall & Cox, 1934. 744 p. 50 Os7T

Includes discussion of abattoirs and methods of slaughter, the use of agglutinants in sausages, and the adulteration, coloring and inflation of meat.

728. YOUNG, T. D. Uniformity in the inspection of imported meat and meat products. Internatl. Vet. Cong. Proc. 12(3):401-406. 1934, pub. 1935. 41.9 In842

Deals with meat inspection as conducted in many countries of the world, the class of officers employed in the work, the difference between meat inspection as conducted under Government, municipal and provincial authorities, and the effects of rigidity in the inspection of imported meat and meat products on the systems of inspection in the exporting countries.

United States

729. AMERICAN MEAT INSTITUTE. COMMITTEE ON TEXT-BOOKS. Meat packing plant superintendency. 3d rev. ed. Chicago, U. Chicago, Inst. of Meat Packing, 1948. 279 p. 50 In74 Ed. 3

Ch. 7, Quality control, discusses Federal meat inspection.

730. ANDERSON, W. T. Control of mold upon meat. Natl. Provisioner 117(2):34, 36. July 12, 1947. 286.85 N21

On the clean-up of mold reservoirs and the treatment of air in meat storage rooms by ultraviolet lamps to destroy air-borne spores before they can settle upon meat.

731. ARMOUR AND COMPANY. LIVESTOCK BUR. Common causes of condemnation. Chicago, Wentworth, 1948. 19 p. 41 Ar53

Dealing with cattle, hogs and sheep, this booklet was prepared to help clarify some of the more technical medical terms. It contains

both a scientific and a common name index.

732. ARNDT, L. E. Brand inspection of livestock for North Dakota. N. Dak. Agr. Expt. Sta. Bimon. B. 8(5):13-18. May/June 1946. 100 N813B

Describes in detail the operation of the brand inspection service at markets, and makes particular reference to the services provided by the North Dakota Stockmen's Association.

733. BAUM, M. D. Colorado's meat inspection program. Amer. Vet. Med. Assoc. J. 116:176-180. Mar.1950. 41.8 Am3

Discussion, p. 180-181.

Topics include the development of the program, and regulations.

734. BOYD, A. G. Review of California State meat inspection. Calif. Dept. Agr. B. 32:55-65. Ref. Jan./Mar.1943. 2 C12M

Subjects include scope of the industry, organization, construction of meat plants, finances, Federal cooperation, and benefits of a system of State meat inspection.

735. BOYD, A. G. Safeguarding California's meat supply. Calif. Dept. Agr. B. 27:489-497. Nov.1938. 2 C12M

On the meat inspection activities of the Division of Animal Industry, California State Department of Agriculture.

736. BUNDE, H. J. Sales barn supervision. Vet. Med. 45:36-38. Jan.1950. 41.8 M69

Address, 59th annual meeting, Missouri Veterinary Medical Association, St. Louis, June 6-7, 1949.

The Missouri Community Sale Law from the veterinary inspector's viewpoint.

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934. JONES, H. W. OPA must do big enforcement task with small staff. Natl. Provisioner 109(16):165-168. Oct. 16, 1943. 286.85 N21

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937. LAMB RATIONING. Natl. Wool Grower 34(10):6-7. Oct.1944. 45.8 N21N

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938. MEAT RATIONING--and how to get along with it. Locker Operator 4(9):5-6,22-25. Apr.1943. 295.8 L79

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939. MEAT SHORTAGE; temporary, it affords a case study of what can happen when product is price-fixed and the raw material isn't. Business Week 674:28-31. Aug.1,1942. 280.8 Sy8

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940. MORRISSEY, W. J. Price stabilization proves perverse. Amer. Hereford J. 34(19):26-27,98. Feb.1,1944. 43.8 Am32

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941. NEW YORK (CITY). "Black meat area;" a case study of black market operations in New York State, submitted to members of Congress by Fiorello H. LaGuardia, Mayor of the City of New York. n.p.,1945. 31 p. 50 N422

A survey whose objectives were to determine whether the supply of meat diverted from New York City could be restored, and to make the facts available to the proper authorities so that prompt, remedial action could be taken.

942. NICHOLLS, W. H., and SHEPHERD, G. Easing the packer squeeze. Iowa Farm Econ. 8(11):8,14,16. Nov.1942. 275.28 Io92

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943. NIELANDER, W. A. Wartime food rationing in the United States. Baltimore,1947. 318 p. Ref. 389 N55

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References to meat will be found under "Rationing, meat" in the index, p. 317.

944. POOLE, J. Analyzing livestock and meat situation. Sheep & Goat Raiser 23(4):10-11. Jan.1943. 45.8 Sh3

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945. REED, H. E. The demand for meat. Butchers' Advocate 116(15):12-13,20. Oct.11,1944. 286.85 B97

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946. REID, E. B. Black markets. Nation's Agr. 18(7):4,8. July/Aug.1943. 280.82 B89

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947. SHEPHERD, G. S. Controlling corn and hog supplies and prices. U. S. D. A. Tech. B. 826,82 p. Ref. June 1942. 1 Ag84Te

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948. SHEPHERD, G. Controlling hog prices during the transition from war to peace. J. Farm Econ. 25:777-792. Nov.1943. 280.8 J822

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949. SHEPHERD, G. S. Why did the demand for meat go up and butter down? Iowa State Col. Agr. Ext. Iowa Farm Sci. 4(2):13-14. Aug.1949. 275.28 Io94

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950. U. S. BUR. OF AGRICULTURAL ECONOMICS. Livestock producers and the defense program. Washington,1941. 5 p. 1.941 A5L75

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951. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Proposed ceilings on live cattle. Hearings...78th Cong., 1st sess., Oct. 26, 1943. Unrevised. Washington,1943. 40 p. 284.343 Un322

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952. U. S. CONGRESS. SENATE. COMMITTEE ON BANKING AND CURRENCY. Temporary suspension of rationing of meat and perishable meat products. Hearings...78th Cong., 2d sess., on S. Res. 231, Jan. 25-28, 1944. Washington,1944. 148 p. 50 Un365

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953. U. S. DEPT. OF AGRICULTURE. WAR BOARD. Market more cattle. Washington,1942. 15 p. 1.90 A5M34

The Food for Freedom program.

954. U. S. EXTENSION SERV. Wartime meat rationing and licensing as they affect farmers. Washington,1943. 7 p. 1.913 M2W26

On the rules and regulations and their purpose.

955. U. S. FOOD DISTRIBUTION ADMIN. Campaign against black markets in meats, prepared...in cooperation with the Office of Price Administration and Office of Program Coordination of the Office of War Information. Washington,1943. 23 p. 173.4 W19Gc v.7

A statement of the problem and what is being done to combat it. Price ceilings and rationing are mentioned.

956. U. S. FOOD DISTRIBUTION ADMIN. History of meat and livestock orders under jurisdiction of the War Food Administration, March 5 through June 5, 1943. Washington,1943. 11 p. 1.9422 M33H62

Reviews the meat situation and its immediate problems and the steps taken by the U. S. War Food Administration to increase and distribute fairly the meat supply.

957. U. S. FOOD DISTRIBUTION ADMIN. Information handbook for State meat marketing supervisors, area meat marketing supervisors, county war meat committees. Chicago,U. S. Food Distrib. Admin.,1943. Various paging. 1.9422 M2In3

Contains background material on such subjects as meat orders, rationing, and black markets, intended primarily for use in the organization of the County War Meat Committees under Chester C. Davis' memorandum to the War Boards dated May 15, 1943.

958. U. S. OFF. OF PRICE ADMIN. The meat control program. Washington,1945. 2 p. 173.403 M46

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959. U. S. WAR FOOD ADMIN. Hog marketing. Washington, 1943. 7 p. 1.9424 A2H67

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960. U. S. WAR PRODUCTION BOARD. FOODS REQUIREMENTS COMMITTEE. U. S. Government campaign, Share the Meat. Washington, 1942. Various paging. 173.409 F73

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961. WALLACE, W. D. United States ceiling prices for live cattle Canada. Dept. Trade & Com. Com. Intel. J. 69:385-387. Nov. 13, 1943. 286.8 C16

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962. WALLACE, W. D. United States ceiling prices for live cattle. Canada. Dept. Trade & Com. Com. Intel. J. 72:146-148. Feb. 17, 1945. 286.8 C16

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963. WICKARD, C. R. Managing the meat supply in wartime. Washington, U. S. D. A., 1942. 2 p. 1.91 A2W63 Sept. 1, 1942

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964. WICKARD, C. R. The meat supply and distribution. Washington, U. S. D. A., 1942. 4 p. 1.91 A2W63 Aug. 18, 1942

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966. WICKARD, C. R. We must maintain our food supplies. Washington, U. S. D. A., 1942. 12 p. 1.91 A2W63 Sept. 24, 1942

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967. WILSON, P. O. Subsidies and ceiling prices. Chicago Prod. Comn. Assoc. Annu. Rpt. 22:35-43. 1943, pub. 1944. 49.9 C432
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968. WILSON, P. O. Wartime problems in handling cattle. Amer. Coop. 1942-45:243-248. 280.29 Am3A

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969. WORKING, E. J. The hog price situation—some aspects of support and ceiling prices. Ill. Farm Econ. 100:546-551. Sept. 1943. 275.28 IL5

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970. ALBERTA FEDERATION OF AGRICULTURE, CALGARY. Wartime problems in the marketing of grain finished beef cattle in Alberta. Calgary, 1944. 14 p. 280.343 AL1

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971. MINOLI, R. F. Food rationing and mortality in Paris, 1940-1941. Milbank Mem. Fund Q. 20:213-220. July 1942. 449.9 M582
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Germany

972. DIFFERENTIAL food rationing. Economist [London] 143:552. Oct. 31, 1942. 286.8 Ec7

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973. FARNSWORTH, H. C. Wartime food developments in Germany. Stanford U. Food Res. Inst. War-Peace Pam. 1,36 p. Sept. 1942. 280.9 L532

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975. PRICE control in Germany. Gt. Brit. Min. Agr. J. 42:388-389. July 1935. 10 G79J

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976. RATIONING of goods in Germany. U. S. Bur. Labor Statis. Mon. Labor Rev. 49:711-713. Sept. 1939. 158.6 B87M

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976a. RICHTER, J. H. Food rations in Germany. Foreign Agr. 6: 204-207. May 1942. 1.9 Ec7For

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977. FOOD RATIONING in Norway. Foreign Crops & Mkts. 42: 697-699. May 12, 1941. 1.9 St2F

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978. BAUER, P. T. The failure of the Pigs Marketing Scheme. Manchester School Econ. & Social Studies 12(1):35-45. Apr. 1941. 280.8 M313

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979. BLAGBURN, C. H. Lessons of war-time control of meat and livestock. Agr. Econ. Soc. J. Proc. 7(1):77-91. June 1946. 281.9 Ag8

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981. GT. BRIT. MINISTRY OF FOOD. Rationing in the United Kingdom. Gt. Brit. Min. Food. Our Food To-day 1,40 p. 1948. 389.9 G790

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982. GT. BRIT. PIGS MARKETING BOARD. 1940 pig contract conditions. London,1939. 30 p. 280.3469 G79Pi

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983. HEYWOOD, R. H. Meat rationing in Britain. Past. Rev. 52: 570. Aug.15,1942. 23 Au75

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985. THE MEAT trade in Great Britain; position and prospects. Past. Rev. 50:369-371. Apr.16,1940. 23 Au75

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986. PATERSON, G. R. Live-stock control in the United Kingdom. Canada. Dept. Trade & Com. Com. Intel. J. 62:161-167. Feb.3,1940. 286.8 C16

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987. RATIONING of canned foods in Great Britain. U. S. Bur. Labor Statis. Mon. Labor Rev. 54:461. Feb.1942. 158.6 B87M

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989. RUTHERFORD, R. S. G., and RUTHERFORD, M. E. E. The consumption and rationing of meat and cheese. Oxford Econ. Papers 5:73,87. June 1941. 280.8 Ox2

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990. SPANN, R. N. The administration of food distribution in war-time. II. Pub. Admin. 18:233-249. Oct.1940. 280.8 P963

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991. WAR AND war time legislation; Food (Defence Plans) Department. Scot. Farmer 47:1336. Sept.9,1939. 10 Sco8

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992. WAR AND war time legislation; Food (Defence Plans) Department. Scot. Farmer 47(2435):1361. Sept.16,1939. 10 Sco8

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993. WAR AND war time legislation; Food (Defence Plans) Department. Scot. Farmer 47(2436):1384. Sept.23,1939. 10 Sco8

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994. WARTIME commodity control measures. Foreign Crops & Mkts. 40:122-126,156-159. Feb.3,10,1940. 1.9 St2F

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MARKETING COSTS AND MARGINS

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997. BEEN, R. O. Price spreads between farmers and consumers. U. S. D. A. Agr. Inform. B. 4,95 p. Nov.1949. 1 Ag84Ab

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999. BJORKA, K. Marketing margins and costs for livestock and meat. U. S. D. A. Tech. B. 932,102 p. Ref. Jan.1947. 1 Ag84Te

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1000. BROADBENT, D. A. Effective marketing of livestock. Utah Agr. Expt. Sta. Farm & Home Sci. 11:24. Mar.1950. 100 Ut1F

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1001. EDINGER, A. T. Recent trends in retail meat prices and their relation to livestock prices. Washington,U. S. Bur. Agr. Econ., 1932. 20 p. 1.9 Ec713Rec

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1003. FARSTAD, E. Margins for marketing livestock from farms to slaughtering plants and feed-lots. Washington,U. S. Bur. Agr. Econ.,1949. 10 p. 1.941 F3M33

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1005. HENNING, G. F., and ANDERSON, J. J. Prices of cattle and hogs compared with wholesale and retail prices of beef and pork. Ohio Agr. Expt. Sta. Bimon. B. 18(160):20-26. Jan./Feb.1933. 100 Oh3S

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1006. KRISTJANSON, B. H. Marketing feeder cattle and sheep in North Dakota. N. Dak. Agr. Expt. Sta. B. 354,32 p. July 1949. 100 N813

A report on an investigation the over-all objective of which was to find ways to reduce the cost of marketing feeder cattle and sheep.

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Ch. 4, Your meat dollar, includes farm prices for beef cattle, lambs and hogs, 1926-35; allocation of weekly expenditures for meat to the farmer, the transportation agent, the broker and commission agents, the processors, packers and assemblers, the wholesaler, and the retailer; and an analysis of costs, expenses and profits in a meat dollar.

1008. MACMANUS, R. D. Policies and influences determining wholesale meat prices. In Northwestern U., Evanston, Ill. School of Commerce, Chicago. Modern tendencies in food marketing; a collection of lectures...given at Northwestern University, School of Commerce, Chicago, fall of 1932, under the direction of Professor Lloyd Herrold. Chicago?1933? Various paging. 9 p. 280.3 N813

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1009. MURRAY, F. The spread between retail and wholesale beef prices during 1929, 1930 and 1931. Chicago U. Sch. Business News B. 1(6):2-4. Dec.3,1932. Libr. Cong.

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1010. PARR, K. Farm-to-retail margins for livestock and meat. Washington,U. S. Bur. Agr. Econ.,1949. 33 p. 1.941 F3F223

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1011. SCHMALS, C. N. Expenses and profits of food chains in 1934. Harvard U. Grad. Sch. Business Admin. Bur. Business Res. B. 99,50 p. Apr.1936. 280.9 H26

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1012. THOMPSON, S. H. Iowa's hog market improves. Iowa State Col. Ext. Iowa Farm Sci. 1(3):12-13. Sept.1946. 275.28 Io94
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1013. TOBIN, B. F. What becomes of the consumer's meat dollar? Chicago,U. Chicago,1936. 100 p. 50.9 C432C 1936

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1014. WHALIN, C. V. The relationships of meat distributors' margins to changes in the prices of livestock and meats. Washington, U. S. Bur. Agr. Econ., 1936. 10 p. 1.9 Ec713Rel

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1015. WHAT IS the farmers' share? Consumers' Guide 3(7):8-9, 31. Apr. 6, 1936. 1.94 Ad422C

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1016. WILLS, W. J. Marketing costs in selling feeder cattle. Ill. Farm Econ. 161:737-739. Oct. 1948. 275.28 IL5

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1017. PROSKIE, J., and MASCIUCH, W. J. Price spreads and profits in the pork packing industry. Edmonton, Alberta, 1941. 40 p. 284.350 P94

A study the purpose of which is to throw light on the processing and marketing of bacon and related products in Canada, with a view to eliminating inefficiency.

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1018. BEECHAM, H. A. Bacon costs and prices, 1938/39 and 1939/40. Farm Econ. 3:141-144. Jan. 1941. 281.8 F223

Shows the profitability of fattening pigs for bacon in Great Britain for this period.

PRODUCTION, CONSUMPTION, AND PRICE RELATIONSHIPS

General

1018a. THE CONSUMPTION of meat. Internatl. Chron. Agr. Mon. B. Agr. Econ. & Sociol. 28:397E-412E. Ref. Dec. 1937. 280.29 In83
Reviews meat consumption in the United States, Canada, Belgium, Denmark, France, Germany, the Netherlands, Norway, Sweden, and the United Kingdom, and discusses the probability of an increase in meat consumption in the near future.

1019. LECKIE, H. K. Production and consumption of meats in Canada. Econ. Annal. 13:11-12. Feb. 1943. 281.8 Ec72

Compares average meat consumption in Canada with that in the United States, England, France, Germany, Belgium, and the Netherlands.

1020. THE WORLD situation in cattle and beef. Foreign Crops & Mkts. 26:78-109. Jan. 23, 1933. 1.9 St2F

Estimated per capita consumption of beef, mutton and pork in the United States, Canada, the United Kingdom, Belgium, France, Germany, the Netherlands, Australia and New Zealand.

1021. THE WORLD situation in cattle and beef. Foreign Crops & Mkts. 33:709-752. Dec. 7, 1936. 1.9 St2F

Gives estimated per capita consumption of beef, veal, mutton, lamb, pork and lard for the United States, Canada, the United Kingdom, Belgium, France, Germany, Australia and New Zealand.

United States

1022. ALLRED, C. E., and POWELL, J. C. Meat consumption in

rural Tennessee, with regional comparisons. Tenn. Agr. Expt. Sta. Rur. Res. Rpt. 18,26 p. Ref. Aug.1,1936. 173.2 W89Co

The purpose of this study was to ascertain the per capita meat consumption of Tennessee farm families by regions, and to determine as far as possible the causes for the regional differences.

1023. ALLRED, C. E., and POWELL, J. C. Purchase and sale of meats and starchy foods by Tennessee farm families; a preliminary report. Tenn. Agr. Expt. Sta. Rur. Res. Rpt. 23,34 p. Ref. Dec.15, 1936. 173.2 W89Co

A study the objectives of which were to ascertain and to present in graphic form the regional differences in the amounts of these foods purchased and sold, and to determine the causes of these differences.

1024. ANDERSON, R. H. Consumer demand for meat, Syracuse, New York, 1942. N. Y. (Cornell) Agr. Expt. Sta. B. 816,40 p. Mar.1945. 100 N48C

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Subjects include variability in, and elasticity of, demand, kinds and cuts of meat purchased, and meat purchasing habits.

1025. ANDERSON, R. H. Differences in weekly expenditures for meats by consumers, Syracuse, New York, 1942. N. Y. Agr. Col. Farm Econ. 135:3445-3446. Apr.1943. 280.8 C812

Analyzes data obtained from 1,405 housewives concerning quantities and kinds of meat purchased during the week prior to the interview.

1026. BREIMEYER, H. F. Retail value of meat consumption relative to consumers' incomes as a measure of demand for meat. J. Farm Econ. 31:520-524. Aug.1949. 280.8 J822

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1027. BURMEISTER, C. A. Some economic aspects of the livestock industry. Washington? U. S. Prod. & Mktg. Admin.,1949. 8 p. 1.9423 F3B92 Nov.8,1949

Address, Florida State Conference of County PMA Committeemen, Secretaries, and Administrative Officers, West Palm Beach, Nov. 8, 1949.

The effect of the level of per capita income on meat consumption and prices.

1028. CAMPBELL, J. S. Factors affecting livestock price levels. Amer. Coop. 12:288-295. 1936. 280.29 Am3A

Discusses supply and demand, changes of income and consumer expenditures, producers' influence on prices, factors causing changes in meat supplies, the effect of meat prices on livestock prices, and factors affecting distributors' and slaughterers' margins.

1029. CHASTAIN, E. D., JR. Farm prices. Va. Farm Econ. 121: 1327-1331. Nov.1949. 275.29 V813

Includes prices paid to Virginia producers for beef cattle, sheep, lambs and hogs, and stresses the importance of making adjustments in the farm business to meet changing conditions.

1030. CLAWSON, M. Cattle-hog price and beef-pork consumption ratios. J. Farm Econ. 28:848-852. Aug.1946. 280.8 J822

A criticism of Z. Sztatowski's "The consistency of U. S. D. A. estimates of possible consumption and prices of beef and pork in 1950," J. Farm Econ. 27:984-989. Nov.1945. 280.8 J822

1031. CLAWSON, M. Demand interrelations for selected agricultural products. Q. J. Econ. 57(2):265-302. Feb.1943. 280.8 Q2

Pork, beef and lamb.

1032. COCKERILL, P. W., DANIELS, F., and CHRISTESON, R. R. Prices of New Mexico farm and ranch products. N. Mex. Agr. Expt. Sta. B. 348,34 p. July 1949. 100 N465

Using as its approach to the problem a study of past price trends, this bulletin is designed to aid New Mexico producers in taking advantage of the help which past price trends may offer toward solving their future price problems.

1033. COVER, J. H. Neighborhood distribution and consumption of meat in Pittsburgh as related to other social and economic factors. Chicago, U. Chicago Press, 1932. 228 p. 280.350 C83

Studies the relationships between meat consumption and family income; size of family; national, racial and religious tradition; occupation and employment; other items in the food budget; shopping methods and distances; household tasks; housekeeping experiences; period of residence in the United States and at the present address; and rationality of consumer purchases.

1034. CRICKMAN, C. W. Feed grains and meat animals in war and peace. U. S. B. A. E. F. M. 51,55 p. Nov. 1945. 1.941 L6F22

Traces the developments in meat consumption during the two World Wars and the intervening years.

1035. DENMAN, C. B. Some factors affecting prices. Amer. Cattle Prod. 18(9):12-13. Feb. 1937. 49 P94

Address, 40th annual convention, American National Livestock Association, El Paso, Jan. 12-14, 1937.

Livestock.

1036. ESPE, K. Vital facts concerning livestock marketing in Iowa. n.p., 1933. 10 p. 284.340 Es6

Subjects include the influence of supply and demand on hog prices, hog supplies and prices, domestic demand, exports of pork and lard, and hog supplies and prices compared with cattle supplies and prices.

1037. GARRISON, E. E., and SORRELLS, J. H. The Knoxville continuous consumer research panel; a summary analysis of two years' findings, 1947-1948. Tenn. U. Col. Business Admin. Bur. Res. Study 18,38 p. Mar. 1949. 280.9 T252

Consumer behavior and preferences with reference to lard (p. 13) and canned meat (p. 16).

1038. GROSS, I. H., and POND, J. Changes in standards of consumption during a depression. Mich. Agr. Expt. Sta. Spec. B. 274, 30 p. Ref. July 1936. 100 M58S

A study made in Clinton County, Mich., in 1932, which includes amounts of meat used per family, 1929 and 1932.

1039. HENDRICKSON, R. F. The meat emergency. Washington, U. S. Agr. Mktg. Admin., 1942. 8 p. 1.944 A2H38 Aug. 17, 1942

Address, National Association of Retail Meat Dealers, Chicago, Aug. 17, 1942.

Prices and consumption.

1040. HENNING, E. G. Livestock and meat trade of the United States. In U. S. Bur. Foreign & Dom. Com. Indus. Ref. Serv. 5(pt.5,no.35),9 p. Aug. 1937. 157.54 In235

The effect of the end of World War II Government regulation of the livestock and meat industries in this country on the price structure and supply of meat; per capita meat consumption, United States, 1937-47; and meat exports and imports.

1041. HENNING, G. F., and ECKERT, P. S. Analysis of the Dayton livestock price situation. Ohio State U. Dept. Rur. Econ. Mimeog. B. 90,10 p. June 1936. 281.9 Oh32

Undertaken because of the particular interest in prices subsequent to the establishment of a cooperative commission association on the Dayton market in March 1935, this study uses prices paid at Dayton as a base and sets up the prices paid at Cincinnati on identical days, and calculates the difference in amount between them.

1042. HENNING, G. F., and POLING, E. B. Analysis of the

livestock price situation in Ohio. Ohio State U. Dept. Rur. Econ. Mimeog. B. 101,24 p. July 1937. 281.9 Oh32

Subjects include a comparison of prices at Cincinnati, Dayton, Cleveland, Columbus and Chicago, seasonal variation of livestock prices, and the price of hogs at the farm compared for different sections of Ohio.

1043. HONAN, J. E. The probable influence of domestic demands, price trends, and diets upon the future of the livestock industry in the United States. 1947. 360 p. Ref. Purdue U. Libr.

Typewritten.

Thesis (Ph.D.) - Purdue University.

A study the purpose of which is in part to determine the most likely courses that general prices, employment, domestic consumer income and normal demand, measured by consumer food expenditures, will follow in the next decade; to determine the level of production of meats which will be necessary to supply various levels of minimum diets for specified portions of the total population; and to estimate the aggregate sum which will be paid by consumers at the retail level for the estimated production level of livestock, and to translate these data into probable prices paid to producers.

1044. HUNZICKER, B. Meat on the hospital menu. Food & Nutr. News 21(6):1,4. Mar.1950. 389.8 F7332

The change in the attitude in the last 25 years toward the inclusion of pork and veal in patients' diets.

1045. LEWIS, G. M. Factors that determine livestock and meat prices. Kans. State Bd. Agr. Rpt. (Q. end. Mar. 1937)56(221A):31-49. 1937. 2 K13Re

Discussion, p. 49-52.

Address, 66th Annual Kansas Agricultural Convention, Topeka, Jan. 13-15, 1937.

1046. LORIE, J. H. Causes of annual fluctuations in the production of livestock and livestock products. J. Business U. Chicago. Apr. 1947, Sup. 105 p. Ref. 280.8 J825

Analyzes, among other things, the relationship between the price of corn and the price of livestock products during the production period, cattle price behavior and the cattle cycle, the influence of weather on marketings, and the effect of the decision to increase production upon current marketings.

1047. MCCORMICK, T. C. Farm standards of living in Faulkner County, Arkansas. Ark. Agr. Expt. Sta. B. 279,39 p. Oct.1932. 100 Ar42

Partly on the consumption of beef, veal, mutton, pork and lard in this county.

1048. MACY, R. M. The measurement of the shifting of the AAA hog processing tax. 1938. 275 p. Ref. Harvard Col. Libr.

Typewritten.

Thesis (Ph.D.) - Harvard University.

Written from the standpoint of the economist, this study reviews the problems encountered in measuring the extent of shifting of this tax by members of the meat-packing industry. Ch. 7 and 8 deal respectively with the calculation and the interpretation of the individual hog processor's margin.

1049. MAXTON, J. L. Factors affecting meat prices. Va. Farm Econ. 88:1025-1026. July 1946. 275.29 V813

Price behavior during World Wars I and II.

1050. MAYER, O. G. Meat and lard in our national economy. Chicago, Amer. Meat Inst., 1949. 18 p. 50 M453M

Address, June 9, 1949, before the Rotary Club, Denver.

Discusses the relationship between buying power and meat prices,

depression prices based on low income, the decline in lard prices subsequent to World War I, and problems of marketing lard, and recommends raising more hogs and marketing them at lighter weights.

1051. MEATS: production, consumption and foreign trade. Natl. Assoc. Mfrs. Comt. Agr. Coop. B. 10,4 p. Aug.1,1936. 281.9 N21
Reviews the period 1900-35.

1052. MOSER, A. M. Food consumption and use of time for food work among farm families in the South Carolina Piedmont. S. C. Agr. Expt. Sta. B. 300,80 p. Ref. Apr.1935. 100 So8

Includes beef, ham, liver, pork, sausage, and veal.

1053. NELSON, P. M., and others. The food consumption habits of 145 Iowa farm families. Iowa Agr. Expt. Sta. B. 337:329-359. Ref. Oct.1935. 100 Io9

E. E. Hoyt, L. McLaughlin, and E. C. Morgan, joint authors.

Includes meat consumption.

1054. PEARSON, F. A., and MYERS, W. I. Number of livestock. Cornell U. Dept. Agr. Econ. & Farm Mangt. Farm Econ. 112:2726-2727,2731-2748. Apr.1939. 280.8 C812

Includes price trends, United States.

1055. PEARSON, F. A., and VIAL, E. E. Prices of dairy products and other livestock products. Ithaca, Cornell U. Press, 1946. 154 p. 284.3 P31D

Meats, p. 55-74; lard, p. 75-78.

1056. PHILLIPS, R. A. The long-time outlook. U. S. D. A. Ybk. 1948:371-375. 1 Ag84Y

Among the numerous subjects discussed are the effect of changes in industrial activity, employment, and consumer income on the demand for meat; meat consumption and its relation to the population and the distribution of income; farm income from meat animals; the relationship between hog and corn prices; and lard consumption.

1057. POLLOCK, R. C. New facts about meat from the standpoint of health and nutrition (contrasted with consumer opinion). In Conference of representatives of the United States Department of Agriculture, the American Meat Institute, the National Live Stock and Meat Board, and live stock producers, Washington, D. C., Mar. 4, 1941.

Consumer education on meat, p. 14-22. Washington?1941? 389 C764

Based on various studies, this article deals in part with the digestibility of meat, vitamins in meat, the belief that meat is harmful, meat as a valuable food, and consumer reaction to the price of meat.

1058. POOLE, J. E. Blitzkrieg sinks the markets. Breeder's Gaz. 105(6):6,12-13. June 1940. 49 B74

Analyzes the effect of World War II on cattle, hog and sheep prices.

1059. RESEARCH program of the National Live Stock and Meat Board. Natl. Wool Grower 35(11):11-13,39-40. Nov.1945. 45.8 N21N

Findings with reference to the relationship between meat consumption and health.

1060. RICHARDS, P. Meat imports increase with higher livestock prices. Agr. Situation 21(7):12-15. July 1937. 1 Ec7Ag

For the period 1927-37.

1061. RICHARDS, P. Meat prices and incomes of consumers. Agr. Situation 21(9):19-20. Sept.1937. 1 Ec7Ag

Comparisons of meat prices, the total quantity and retail value of consumption of Federally inspected meats, and non-agricultural income, 1928-37.

1062. RICHARDS, P. Relation of changes in meat production and consumption to changes in farm income from livestock in the United States. Washington, U. S. Bur. Agr. Econ., 1936. 8 p. 1.9 Ec752Rel

Also in Internatl. Conf. Agr. Econ. Proc. 4:367-373. 1936.

281.9 In82

A discussion limited to the most important aspects of the problem.

1063. RICHARDS, P. The relation of consumer incomes to farm income from livestock. Agr. Situation 21(5):28-30. May 1937.

1 Ec7Ag

Includes the period 1924-36.

1064. ROPER, E. The attitudes of consumers about meat. In Conference of representatives of the United States Department of Agriculture, the American Meat Institute, the National Live Stock and Meat Board, and live stock producers, Washington, D. C., Mar. 4, 1941. Consumer education on meat, p. 4-12. 389 C764

Analyzes the results of a survey initiated by the American Meat Institute for the purpose of finding out about the meat consumption habits of adults, including what prompts them to eat meat, and what deters them from eating more meat than they do.

1065. SALVATORE, P. D. A test for the independence of groups of agricultural prices as applied to hog, cattle, corn and oat prices. J. Farm Econ. 20:694-699. Aug.1938. 280.8 J822

An extension of a method given by S. S. Wilks of testing groups of variates for independence which makes it more useful in the study of certain types of data such as price series.

1066. SCHNEIDER, J. B., and CARPENTER, G. A. United States meat supply and demand. Berkeley, U. Calif., 1939. 5 p. 275.2 C12Un

Discusses the demand situation with reference to the foreign market for cattle, hogs, sheep and lambs, and the domestic market for beef, veal, pork, lamb, mutton, and competing products.

1067. SCOTT, R. C. An analysis of frozen food purchases in three New York areas. 1948. 240 p. Cornell U. Libr.

Typewritten.

Thesis (Ph. D.) - Cornell University.

Deals with the findings of surveys conducted in Syracuse, Ithaca and Trumansburg by the Department of Agricultural Economics, Cornell University. Frozen red meats are among the subjects studied.

1068. SCOTT, R. C. Consumer reaction to frozen meats. N. Y. Agr. Col. Farm Econ. 154:3992-3994. Apr.1947. 280.8 C812

Findings of a study made in a small village in central New York during the summer of 1946.

1069. SELTZER, R. E., and EGGERT, R. J. Accuracy of livestock price forecasts at Kansas State College. J. Farm Econ. 31(2):342-345. May 1949. 280.8 J822

Subjects include difficulties in measuring livestock price forecasts, the method of determining the accuracy of forecasts, and the effect of the magnitude of the price change upon the accuracy of forecasts.

1070. SHEPHERD, G. Changes in the demand for meat and dairy products in the United States since 1910. Iowa Agr. Expt. Sta. Res. B. 368:361-404. Nov.1949. 100 Io9

Interpretation of results, for meat, p. 385-389.

1071. SHOEMAKER, W. W. How can we open up markets for meats and meat products? Natl. Farm Inst. Proc. 2:69-74. 1938. 4 N219

Includes advertising and merchandising, and a discussion of the British market for United States meat and meat products.

1072. SIMMONS, W. M., BRUNK, M. E., and DARRAH, L. B. Changes in purchases of meat in Syracuse. N. Y. Agr. Col. Farm Econ. 163:4219-4220; 167:4308-4309. Sept.1948, Mar.1949. 280.8 C812

W. M. Simmons is the sole author of the second citation.

Analyzes the results of a survey made during corresponding weeks of 1942 and 1948.

1073. SIMS, G. J., and IVES, J. R. Meat supply and distribution by

quarter-years, United States, 1941-47. Washington, U. S. Bur. Agr. Econ., 1948. 66 p. 1.941 H2M462

A report aiming to serve as a record of the war and postwar years of rapidly changing demand, of heavy military, foreign relief, and other procurements, of Government controls, and of other unusual circumstances.

1074. STAEHLE, H. Relative prices and postwar markets for animal food products. Q. J. Econ. 59:237-279. Feb. 1945. 280.8 Q2

Includes the annual consumption of beef, veal, pork, lamb, and miscellaneous meats per person at various levels of annual income in 42 cities, 1934-36, and average relative retail prices of beef, veal, pork, lamb and lard in 1934-36 and amounts by which consumption would change per person (non-farm population only) if each price declined by 10 percent relatively to other food prices.

1075. STUDY of the marketing of the 1934 lamb crop and the 1935 situation. Natl. Wool Grower 25(6):17-20. June 1935. 45.8 N21N

Includes a discussion of consumer preferences, and the competition between lamb, beef and pork.

1076. SWANSON, D. L. Maintaining equitable price levels. Amer. Coop. 18:843-847. 1946. 280.29 Am3A
Livestock.

1077. SWANSON, D. L. Relations of meat prices to livestock prices from farm to market. Amer. Coop. 12:296-307. 1936. 280.29 Am3A

Stresses the principal factors which affect price levels on the market.

1078. SWIFT AND CO. The significance of Jewish holidays to the livestock producer. Swift & Co. Agr. Res. B. 9, 8 p. July 1947. 50.8 Sw5

Meat consumption customs.

1079. THORNE, G. B. Future problems of the livestock industry in the West. Washington, U. S. Agr. Adjust. Admin., 1935. 6 p. 1.94 Ad4Fut

Address, annual convention, American National Livestock Association, Rapid City, S. Dak., Jan. 10, 1935.

Includes consumption and prices.

1080. U. S. AGRICULTURAL MARKETING SERV. Prices of meat animals and livestock products 2 percent higher in 1940. Washington, 1941. 6 p. 1.9 Ec71AvL

Annual livestock price report containing tables showing average prices received by farmers for livestock and livestock products, United States, 1938-40.

1081. U. S. BUR. OF AGRICULTURAL ECONOMICS. Average prices received by farmers for livestock and livestock products, 1936, with comparisons. Washington, 1937. 7 p. 1.9 Ec71AvL

Estimates based on reports from 10,000 correspondents. Comparisons are made principally with the year 1935.

1082. U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production and income from meat animals, 1924-1935, by States. Washington, 1936. 135 p. 1.9 Ec71Fp

Cattle, calves, sheep, lambs, and hogs.

1083. U. S. BUR. OF AGRICULTURAL ECONOMICS. Livestock and livestock product prices in 1937 highest in 8 years. Washington, 1938. 7 p. 1.9 Ec71AvL

Tables show prices received by farmers, 1936 and 1937, for hogs, beef cattle, veal calves, sheep and lambs.

1084. U. S. BUR. OF AGRICULTURAL ECONOMICS. Livestock prices average 12 percent lower in 1938. Washington, 1939. 7 p. 1.9 Ec71AvL

Tables show average prices received by farmers, 1937 and 1938.

1085. U. S. BUR. OF AGRICULTURAL ECONOMICS. Meat animals; farm production and income, 1935-1941. Washington, 1942. 67 p. 1.9 Ec71Fp 1935-41

Cattle and calves, sheep and lambs, and hogs.

1086. U. S. BUR. OF AGRICULTURAL ECONOMICS. World trade barriers in relation to American agriculture. 73d Cong., 1st sess., S. Doc. 70, 540 p. 1933. 1 Ec7Wo

The effects of trade barriers and similar measures on the prices of such hog products as pork, ham, bacon and lard.

1087. U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption for three seasons in Buffalo, New York, 1 week—winter, spring and fall 1948. U. S. Bur. Human Nutr. & Home Econ. 1948 Food Consumption Surveys. Prelim. Rpt. 11, 23 p. Nov. 15, 1949. 1.982 A2F738

Meat, p. 14-15.

1088. U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption for three seasons in Minneapolis-St. Paul, Minnesota. U. S. Bur. Human Nutr. & Home Econ. 1949 Food Consumption Surveys. Prelim. Rpt. 9, 23 p. Sept. 30, 1949. 1.982 A2F738

Meat, p. 14-15.

1089. U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption for three seasons in San Francisco, California, 1 week—winter, spring and fall 1948. U. S. Bur. Human Nutr. & Home Econ. 1948 Food Consumption Surveys. Prelim. Rpt. 10, 23 p. Oct. 31, 1949. 1.982 A2F738

Meat, p. 14-15.

1090. U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food consumption of urban families with children and of families with no children, United States, spring 1948. U. S. Bur. Human Nutr. & Home Econ. 1948 Food Consumption Surveys. Prelim. Rpt. 14, 22 p. Jan. 1950. 1.982 A2F738

Meat, p. 10-11.

1091. U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Meat selections of city families, based on 1948 food consumption surveys, preliminary reports 1 to 5. U. S. Bur. Human Nutr. & Home Econ. Commod. Sum. 1, 9 p. Aug. 1949. 1.982 A2C733

Nation-wide choices and regional differences.

1092. U. S. WAR FOOD ADMIN. Meat. Washington, 1945. 12 p. 1.9424 A2M46

Deals in part with civilian consumption, military requirements, and lend-lease shipments during World War II.

1093. VENNES, L. A. Price and market suggestions for Kentucky stockmen. Ky. Agr. Col. Ext. C. 303, 32 p. May 1937. 275.29 K415

Provides information regarding usual price movements for the aid of stockmen in planning their production and marketing of cattle, hogs, sheep and lambs.

1094. WAITE, W. C. Effect of a business depression on the demand for livestock products and the outlook for these products. J. Farm Econ. 14:228-238. Apr. 1932. 280.8 J822

Paper read at a joint session of the American Statistical Association and the American Farm Economic Association, Washington, D. C., Dec. 1931.

A discussion of changes in domestic demand includes pork, beef, lamb and lard.

1095. WAITE, W. C., and COX, R. W. A study of the consumption of meats in Minneapolis, 1934. Minn. Agr. Expt. Sta. B. 321, 26 p. June 1935. 100 M66

Describes the variations found in the rates of consumption and in the average prices paid by families for meats, and analyzes the variations in expenditures and the factors influencing these variations.

1096. WASHINGTON (STATE). STATE PLANNING COUNCIL. Balance sheets of the State of Washington. Volume I, Foodstuffs. Wash. State Planning Council. Res. P. 2,78 p. Rev. July 10,1935.

280.7 W27R no. 2

Includes average annual consumption per capita, and average annual total consumption, 1927-31, of beef, lamb, mutton, pork, veal and lard.

1097. WATERBURY, E. S. The kind we like to handle; consumer preferences in meat. Nebr. State Bd. Agr. Annu. Rpt. 1936:606-613. 1936? 2 N27R

Address, annual meeting, Nebraska Live Stock Breeders and Feeders Association, Lincoln, Jan. 7, 1936.

1098. WENTWORTH, E. N. Beef in the post-war period. West. Livestock J. 20(17):15-20. Feb.1942. 6 F2278

References to prices.

Canada

1099. ARKELL, H. S. Live stock marketing. East. Canada Soc. Anim. Prod. Proc. (1932)4:30-33. 1932? 49.9 Ea72

Also in Sci. Agr. 13:205-206. Nov.1932. 7 Sci2

Discusses factors which affect prices in Canada.

1100. CANADA. PARLIAMENT. HOUSE OF COMMONS. SPECIAL COMMITTEE ON PRICE SPREADS AND MASS BUYING. Proceedings and evidence...Ottawa,Patenaude,1934. 3 v. 284.3 C165

Includes the marketing of livestock and animal products.

1101. COKE, J. Prices of live stock and live stock products. Econ. Annal. 2:40-41. Apr.1932. 281.8 Ec72

Analyzes the price trends of steers, bacon pigs, and lambs on the Toronto market for the period 1926-31.

1102. CONSUMPTION of meat in Saint John, Montreal and Vancouver. Econ. Annal. 10:29-32. Apr.1940. 281.8 Ec72

Shows the annual average per capita consumption of lamb, beef, veal, bacon, ham and other pork in each of these three cities, 1936.

1102a. HOPE, E. C. The significance of demand in the determination of the prices of beef and pork in Canada from 1920 to 1932. Sci. Agr. 15:65-79. Ref. Oct.1934. 7 Sci2

Places special emphasis on the demand side, allegedly the least understood and the most neglected phase in discussions concerning meat prices.

1103. HOPPER, W. C. Relation of household income to food consumption. C. S. T. A. Rev. [Ottawa] 32:13-14,16-17. Mar.1942. 7 C167C

Includes meat consumption by urban families with low, medium and high incomes in Canada as revealed by studies made by the Economics Division of the Marketing Service of the Dominion Department of Agriculture.

1104. JOHNSTON, C. I., and HOPPER, W. C. Consumption of meat in city households. Ottawa, Dominion Dept. Agr., Mktg. Serv., Econ. Div., 1942. 23 p. 389 J64Cm

A study of the consumption of beef, lamb, veal, pork, bacon, ham, sausages, and liver in Saint John, Montreal, and Vancouver, where 2,060 households were visited in a survey made in 1936.

1105. JOHNSTON, C. I. Expenditures for meat in Saint John, Montreal and Vancouver. Canad. Agr. Econ. Soc. Proc. 10:152-156. 1938. 281.9 C16

Also in Econ. Annal. 8:69-72. Oct.1938. 281.8 Ec72

Data obtained by enumerators from housewives, September-December, 1936.

1106. JOHNSTON, C. I. Preliminary comparison of consumption of various agricultural products in Canada. *Econ. Annal.* 7:24-25. Apr.1937. 281.8 Ec72

Includes per capita consumption of meat in various parts of Canada, 1935-36, and a comparison of the per capita consumption of the same by Chinese, Japanese and other racial types in Vancouver.

1107. MUNN, R. S. Effect of higher meat prices on domestic consumption and export. *Indus & Devlpmt. Council Canad. Meat Packers. Let. Canad. Livestock Prod.* 2:1-2. Feb.1948. 286.85 In2

Discusses factors which combine to add to the price to the consumer, and means of avoiding the effects of high prices.

1107a. RELATIONSHIP between live hog and export bacon prices. *Farmers Advocate & Home Mag.* 81:476-478. June 13,1946. 7 F22 Canada.

1108. SURVEY relating to the consumption of meats in Canadian cities. *Econ. Annal.* 6:74. Oct.1936. 281.8 Ec72

Mentions the lower per capita consumption of meat in Canada as compared with certain foreign countries, and the need for basic economic facts on meat consumption in Canada, and discusses the procedure of a survey undertaken in Saint John, New Brunswick, and in Montreal and Vancouver.

France

1109. VIGUERIE, P. DE. Production and consumption of and external trade in meat in France. *Internatl. Rev. Agr.* 27:235E-256E, 275E-293E. Aug.,Sept.1936. 241 In82A

Emphasizes the extent and frequency of the fluctuations in production, consumption, foreign trade and meat prices.

United Kingdom

1110. BEAMER, E. A. The effect of the war upon the livestock market. *Amer. Coop.* 16:153-155. 1940. 280.29 Am3A

Notes the collapse of all important foreign outlets during World War II except the United Kingdom.

1111. GREBENIK, E. Some notes on the Ministry of Labour family budget enquiry, 1937. *Pub. Admin.* 19:31-35. Jan.1941. 280.8 P963

Includes family expenditures for meat, bacon and lard based on an analysis of 8,905 budgets obtained by the British Ministry of Labour for four selected weeks beginning in October 1937.

1112. HARRY, E. L. The consumption of milkstuffs and meatstuffs in the Rhondda Valley. *Welsh J. Agr.* 13:69-81. Ref. Jan. 1937. 10 W46

Fresh and cured, and prepared and canned meat, Wales.

1113. MURRAY, K. A. H. Present tendencies in livestock prices. *Oxford U. Agr. Econ. Res. Inst. Misc. Papers Agr. Econ.* (1931/34)7. Various paging. 7 p. 1934. 281.9 Ox2

Deals with the situation with reference to cattle, beef, sheep, mutton, lamb, and pigs in Great Britain.

1114. SCOTT WATSON, J. A., and MURRAY, K. A. H. The livestock situation. *London Farmers' Club J.* 7:127-137. Dec.1934. 10 L84

Discussion, p. 137-149.

Emphasizes consumption and prices, with particular reference to Great Britain.

Cattle, Calves, Beef, and Veal

United States

1115. BROWN, A. J. Analysis of prices of veal calves. Ky. Agr. Expt. Sta. B. 483,59 p. Apr.1946. 100 K41

Factors affecting the price of veal calves, prices as related to quality differences, and the competitive price position of Kentucky veal calves are among the subjects studied.

1116. BROWN, A. J. Economic study of veal calves; two bulletins containing the essential material in a thesis submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in agricultural economics in the Graduate School of the University of Illinois,1945. [n.p.,n.d.] 94 p. Libr. Cong.

The bulletins are (1) Analysis of prices of veal calves. Ky. Agr. Expt. Sta. B. 483,59 p. Apr.1946. 100 K41, and (2) Seasonal variation in prices of veal calves. Ky. Agr. Expt. Sta. B. 490,35 p. June 1946. 100 K41

Deals with the United States and Kentucky.

1117. BROWN, A. J. Seasonal variation in prices of veal calves. Ky. Agr. Expt. Sta. B. 490,35 p. June 1946. 100 K41

The pattern of prices of veal calves at various markets in Kentucky and elsewhere, seasonal variations in marketings of veal calves and in weight and quality of calves, and the relation of prices to receipts.

1118. BURDICK, R. T. Possibilities for cattle income. Colo. Agr. Expt. Sta. B. 460,37 p. July 1940. 100 C71S

Factors analyzed include sale weights and sale prices.

1119. CASSELL, S. K. Prices of beef cattle. Va. Farm Econ. 26: 352,355-357. Dec.1933. 275.29 V813

Shows distinct cycles of high and low prices for the period 1880-1933, United States.

1120. HENNEY, H. J. Factors influencing the time of buying feeder steers and of selling them as choice summer-fed steers. Kans. Agr. Expt. Sta. B. 258,35 p. Aug.1932. 100 K13S

On the influence of buying and selling on margins, feeding or not feeding in any year, the size of the corn crop and prices of steers, and the time of buying and selling and margins.

1121. JACOB, A. W. Cattle prices and marketing facts of interest to Oklahoma producers. Okla. Agr. Col. Ext. C. 344,20 p. 1937. 275.29 Ok41C

A study prepared to acquaint producers with the important facts surrounding the prices and marketings of beef cattle in this State, and to indicate trends in marketing and prices which may be expected under similar conditions in the future.

1122. MALONE, C. C. Figuring the selling price needed in selling cattle. Iowa State Col. Agr. Ext. Iowa Farm Sci. 1(6):9. Dec.1946. 275.28 Io94

Based on records of several thousand cattle fed by members of Iowa farm business associations.

1123. MITCHELL, M. P. Factors affecting beef cattle prices. Purdue Agr. Ext. B. 224,rev.,12 p. July 1941. 275.29 In2E

Changes in the general price level, the cattle cycle, the supply of beef in total and for the various grades, business conditions, seasonal variations by grades, the size of the corn crop, and the margin between purchase and selling price.

1124. MITCHELL, M. P. The fat cattle market situation. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949:1-2. June 24, 1949. 275.29 In2Em

Discusses factors contributing to the recent, severe decline in fed

cattle prices, and includes generalizations based on an analysis of price records supplied by the U. S. Market News Service.

1125. POOLE, J. E. Drought plays havoc with stocker demand. *Producer* 15(2):23-24. July 1933. 49 P94

Mentions the price situation.

1126. ROBERTSON, L., and MITCHELL, M. P. Prices of beef cattle. *Ind. Agr. Expt. Sta. B.* 445,22 p. Jan.1940. 100 In2P

A study of the most important factors affecting these prices, prepared for the use of Indiana farmers in combatting possible adverse effects of price changes.

1127. STOUT, W. B. Beef cattle price facts. *Purdue U. Agr. Ext. L.* 164,6 p. Aug.1932. 275.29 In2L

On the influence of supply on price, the effect of the general price level and industrial activities, domestic consumption, purchasing power cycles, and seasonal variation.

1128. WALLACE, J. K. The market side of the range cattle situation. *West. States Region. Ext. Conf. Proc.* 1937:161-162. 275.29 W523

The domestic and foreign market for meat.

Canada

1129. BETTER quality beef is used by high income households. *Econ. Annal.* 11:79-80. Oct.1941. 281.8 Ec72

Report of a study of meat consumption made in the cities of Saint John, Montreal and Vancouver, 1936.

1130. COPPOCK, K. Beef production and markets in the post war period. *Agr. Inst. Rev.* 1:100-105. Dec.1945. 7 Ag8

Suggests ways to enlarge existing outlets for Canadian beef and to develop new ones.

1131. SCHRADER, F. M. Seasonal variation of prices of cattle and dressed beef. *Econ. Annal.* 19:9-11. Feb.1949. 281.8 Ec72

Live steers, steer carcasses, sirloin steak and stewing beef, Canada.

1132. SCHRADER, F. M. Trends in the seasonal variation of cattle and dressed beef prices. *Econ. Annal.* 19:136-139. Dec.1949. 281.8 Ec72

An analysis of changes which occurred on the Toronto market, 1921-40.

United Kingdom

1133. PREWETT, F. J. Consumers' preference; beef weights and prices. *Gt. Brit. Min. Agr. J.* 40:218-224. June 1933. 10 G79J

Reprinted in *Oxford U. Agr. Econ. Res. Inst. Misc. Papers in Agr. Econ.* 7(1931/34). Various paging. 7 p. Oxford,1934. 281.9 Ox2

An inquiry the object of which was to discover the extent to which the feeder is turning out cattle at the weights preferred by the consumer, as reflected in the higher prices paid.

1134. SHAUL, J. R. H. The demand curve for beef and veal in Great Britain. *Econ. J.* 45:493-500. Sept.1935. 280.8 Ec72

The interdependence between price movements and changes in the quantity of beef and veal consumed.

Hogs, Pork, and Lard

1135. DECLINE in European hogs will restore normal bacon prices. *J. Agr. & Hort. [Quebec]* 35:140. Mar.1932. 7 J82J

Written from the point of view of the Canadian producer.

United States

1136. ALLRED, C. E., SANT, P. T., and SMITH, C. M. Regional differences in farm price of hogs, Tennessee and United States. Tenn. Agr. Expt. Sta. Rur. Res. Monog. 37,42 p. May 1,1937. 173.2 W89Co

Shows the geographical variations in prices paid to producers of hogs in Tennessee; the variation in hog prices in certain other States and the United States compared with Tennessee; and discusses some of the factors contributing to these regional differences.

1137. ARTHUR, I. W. Marketing Iowa hogs. Iowa Farm Econ. 3(4):4-6. Oct.1937. 275.28 Io92

Advice to farmers to keep a close check on price differentials in local and terminal markets, and to make certain that prices quoted apply to the grades which they have to sell.

1138. BENNETT, K. R. Prices of hogs of different weights. N. Y. Agr. Col. Farm Econ. 134:3402-3404. Feb.1943. 280.8 C812

Considers variations for the period 1896-1941 on the Chicago market.

1139. BOTTUM, J. C. The hog market situation. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949:4-5. Apr.23,1949. 275.29 In2Em

Discusses hog prices, and includes statistics on meat consumption per person in the United States, 1935-48.

1140. BUTZ, E. L. Hog prices in Indiana. Purdue Agr. Expt. Sta. B. 487,23 p. July 1943. 100 In2P

A bulletin whose purpose is to provide material which will aid in an understanding of the characteristics behavior of these prices. Included are annual price changes, and seasonal, daily and geographic price variations.

1141. COLLINS, G. P. Guideposts for farmers' analysis of hog prices. Okla. Agr. Expt. Sta. Cur. Farm Econ. 13:90-98. Aug.1940. 100 Ok4

An article the purpose of which is to indicate some of the relationships which the farmer may profitably observe in his job of anticipating price changes in the hog industry.

1142. DEATHERAGE, F. E. Lard comeback promised by new quality process. Food Indus. 21:1749-1752,1894-1895. Ref. Dec. 1949. 389.8 F737

Reports findings in comparative acceptance tests made on consumers.

1143. DUNBAR, J. O. When do fat sows sell best? Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949:7-8. June 24,1949. 275.29 In2Em

Recommendations to Indiana producers based on an analysis of the price situation.

1144. EGGERT, R. J. Animal fats and oils—situation and outlook. J. Farm Econ. 31(1,pt.2):331-342. Feb.1949. 280.8 J822

Discussion, p. 339-342.

Paper presented at the annual meeting of the American Farm Economic Association, Green Lake, Wis., Sept. 14, 1948.

Deals in part with lard consumption, and factors tending to strengthen and to weaken the relative supply and demand situation for animal fats.

1145. HARLAN, C. L. Distribution of hog slaughter. Agr. Situation 22(8):18-19. Aug.1938. 1 Ec7Ag

Gives reasons why the seasonal distribution of hog slaughter for the marketing year Oct. 1, 1937-Sept. 30, 1938, did not follow the pattern for other years of high hog-corn price ratios.

1146. HARLAN, C. L. Why are hog prices low? U. S. Agr. Mktg. Serv. Mktg. Activ. 2(4):3-5. Apr.1940. 1.942 A8M34

Discusses the situation in its relationship to cattle and lard.

1147. IVES, J. R. Factors associated with annual and seasonal changes in the production of pork and lard. Washington, U. S. Bur. Agr. Econ., 1943. 18 p. 1.941 M1F11

Discusses annual changes in marketings of packing sows, average yields of hog products, physical factors associated with pork and lard yields, seasonal changes in hog slaughter, and seasonal variations in average live weights and in yields.

1148. JACOB, A. W. Seasonal aspects of Oklahoma hog prices and marketing. Okla. Agr. Expt. Sta. Cur. Farm Econ. 9:120-122. Oct.1936. 100 Ok4

Includes factors causing seasonal movements, and significance of seasonal movements to farmers.

1149. NORTH CENTRAL LIVESTOCK MARKETING RESEARCH COMMITTEE. Price differentials for slaughter hogs. Iowa Agr. Expt. Sta. B. P93:55-128. Aug.1948. 100 Io9

A study whose purpose was to determine daily, weekly, monthly and annual differentials in prices between markets for specified classes and weights of hogs of comparable grade; to determine differentials in prices between hogs of various weights and a base weight group at each of several markets; to analyze and describe the behavior of such price differentials; and to explain the factors which cause price differentials to change.

1150. PARSONS, F. L. Hog prices and election years. J. Farm Econ. 16:145-149. Jan.1934. 280.8 J822

A study whose purpose is to determine why, in presidential election years, the top price for hogs in the last six months of the year has tended to come in September or later much more frequently than in non-election years.

1151. REISS, F. J., and JOHNSTON, P. E. The seasonal distribution of hog marketings and its influence upon farm earnings on Illinois account-keeping farms in 1940. Ill. Farm Econ. 79:181-188. Dec.1941. 275.28 IL5

Uses data obtained on 1,914 farms.

1152. RICHARDS, P. Unusual seasonal changes in hog prices. Agr. Situation 21(6):12-14. June 1937. 1 Ec7Ag

Discusses the period 1934-37.

1153. ROCHFORD, L. H. Influence of California demand on Colorado beef-cattle prices. Colo. Agr. Col. Ext. B. 316-A, 27 p. Mar.1932. 275.29 C71E

Concludes that the influence of California demand on Colorado beef-cattle prices is exerted chiefly through the Denver central market where Colorado shippers have the dual advantage of both eastern and western demand.

1154. SCHICKELE, R., and SCHULTZ, T. W. Competitive position of lard in the market of animal and vegetable fats and oils. Iowa Agr. Expt. Sta. Res. B. 171:125-219. Ref. Mar.1934. 100 Io9

A study whose purpose is to analyze the production characteristics and price structure of lard and to determine the position which it holds in competition with other animal and vegetable fats and oils.

1155. SCHICKELE, R., and SCHULTZ, T. W. Improving the domestic market for lard. Iowa Agr. Expt. Sta. B. 319:65-84. June 1934. 100 Io9

Explains various factors which contribute to the domestic consumption of lard, and how lard prices may be improved by careful attention to its production and promotion.

1156. SCHULTZ, T. W., and BROWNLEE, O. H. Two trials to

determine expectation models applicable to agriculture. Q. J. Econ. 56:487-496. May 1942. 280.8 Q2

A report of two studies, one dealing with expected corn yields, and the second with the price of hogs expected by Iowa farmers in planning their farming operations for 1940.

1157. STARK, D. H., and MADNICK, M. Price differences among markets for Michigan slaughter hogs. Mich. Agr. Expt. Sta. Spec. B. 341,37 p. June 1947. 100 M58S

In this study hog prices were obtained, compared, and price differentials determined for the following six markets used by Michigan hog producers: Buffalo terminal, Chicago terminal, Detroit terminal, a representative auction market in central Michigan, a privately owned Michigan concentration yard, and a packing plant in the Detroit area.

1158. STINE, O. C. Hog income reduced in 1937. Agr. Situation 22(7):16-17. July 1938. 1 Ec7Ag

Cash income from sales of hogs, pork and lard, value of hogs slaughtered for home consumption, and gross income from hogs, 1909-37.

1159. STOUT, W. B. Hog price facts. Purdue U. Agr. Ext. L. 154,rev.,6 p. June 1934. 275.29 In2L

Discusses some of the more important factors responsible for the price variations which have characterized Indiana hog markets.

1160. STOVER, H. J. Relation of daily prices to the marketing of hogs at Chicago. N. Y. (Cornell) Agr. Expt. Sta. B. 534,97 p. Jan.1932. 100 N48C

A study the primary concern of which is price and supply variations, supply-price relationships, and supply responses to price fluctuations under varying conditions.

1161. TAYLOR, A. E. Corn and hog surplus of the Corn Belt. Stanford U. Food Res. Inst. Misc. P. 6,658 p. Feb.1932. 389.9 F73

The disposition of hogs and hog products, including lard, and the influence of domestic and international factors on hog prices.

1162. TONTZ, R. L., and HARRINGTON, A. H. Significance of hog-feed price ratios, Alabama. J. Farm Econ. 28:835-845. Aug. 1946. 280.8 J822

Analyzes the relationship between hog-feed price ratios and commercial pork production, and notes that the hog-corn ratio in Alabama is typical of the low ratios that prevail in other Southeastern States.

1163. U. S. AGRICULTURAL ADJUSTMENT ADMIN. Analysis of the corn-hog situation. U. S. Agr. Adjust. Admin. Corn-Hog Sect. C.-H.-7,18 p. Nov.1933. 1.4 H67

Hog prices and marketings.

1164. U. S. AGRICULTURAL ADJUSTMENT ADMIN. Emergency hog marketing program...73d Cong., 2d sess., S. Doc. 140,44 p. 1934. 1.4 H67E; also 148/9801

Report on this program conducted Aug. 23-Oct. 7, 1933, with respect to the total number of animals purchased, the live weight of same, the total dollars paid, the yield and disposition of products, and price trends at specified markets before, during, and after the buying campaign.

1165. U. S. AGRICULTURAL ADJUSTMENT ADMIN. Shall corn-hog adjustment continue? A brief economic analysis and related statistics. Washington,1935. 23 p. 1.94 H67Sha

Prepared because of the expiration on Nov. 30, 1935, of the corn-hog adjustment contract then in force. Includes hog-corn price ratios and hog marketings, 1901-35.

1166. VAN CLEVE, R. Consumers want lean pork. Ill. Agr. Assoc. Rec. 28(2):20. Feb.1950. 6 IL62

Advice to producers at a butchering demonstration at the slaughterhouse of the Stark Locker Service in Stark County, Ill.

1167. VOORHIES, E. C., and BLANK, M. H. Swine. Giannini Found. Agr. Econ. Contrib. year ending June 30, 1932. P. 27, 135 p. Ref. Apr. 1932. Berkeley, U. Calif., 1932. 281.9 G34

A summary and an interpretation of the statistical data relating to the swine industry in the United States in general and in California in particular, in which emphasis is placed on long-time trends and tendencies. Among the subjects included are slaughter, pork and lard consumption, prices and purchasing power of swine and pork products, domestic trade in pork, lard and hogs, and foreign trade in hogs and hog products.

1168. WELLS, O. V. Farmers' response to price in hog production and marketing. U. S. D. A. Tech. B. 359, 56 p. Ref. Apr. 1933. 1 Ag84Te

An analysis made to obtain a more complete explanation of this subject, and to develop a simple statistical analysis of the available postwar data which may be easily reworked or extended.

1169. WILLS, W. J. Lard prices affect hog prices. Ill. Farm Econ. 170:864-865. July 1949. 275.28 IL5

The relation of lard prices to hog prices, United States, 1910-49.

1170. WORKING, E. J. Recent hog price movements in the light of supply and demand conditions. Ill. Farm Econ. 58:321-326. Mar. 1940. 275.28 IL5

Deals with the United States as a whole, and with Illinois in particular.

Canada

1171. JOHNSTON, C. I., and HOPPER, W. C. Consumption of pork, bacon, ham, sausages, liver and poultry in city households. Ottawa, Dominion Dept. Agr., Mktg. Serv., Econ. Div., 1942. 29 p. 389 J64Cp

Analyzes information obtained in a general study made in 1936 of a total of 2,060 households in Saint John, Montreal, and Vancouver.

1172. LATTIMER, J. E. The interaction of demand, price and supply of some Canadian farm products. MacDonald Col. Tech. B. 17, 38 p. Sept. 1938. 101 M143

Hog marketing, p. 26-34.

1173. LECKIE, H. K. Bacon for Britain. Econ. Annal. 11:75-78. Oct. 1941. 281.8 Ec72

Reviews predominating features of the 1940-41 Canadian hog marketing year such as prices, storage and domestic consumption, and discusses the terms of the 1941-42 bacon agreement with Great Britain.

1174. MCARTHUR, I. Seasonal variations in Canadian hog prices. Econ. Annal. 9:78-79. Oct. 1939. 281.8 Ec72

Observes the shifts which have taken place in the seasonal movement of these prices for the periods 1909-18, and 1929-38, and relates seasonal variation to the relative position of hog prices throughout the price cycle extending over periods of from three to four years.

1175. SCHRADER, F. M. Seasonal variation in the price of hogs and bacon. Econ. Annal. 17:13-15. Feb. 1947. 281.8 Ec72

Canada.

1176. SENN, E. The Canadian hog market. Canad. Swine 11(2):2-3. June 1949. Canad. Dept. Agr. Main Libr., Ottawa

Discusses the drop in hogs marketed across Canada, hogs marketed by provinces, hog quality in different provinces, Canadian bacon and the British market, and a new, improved set of hog carcass fault

symbols prepared by the Dominion Department of Agriculture in co-operation with representatives of the meat packers.

Australia

1177. WILLIAMS, J. R. Market requirements for bacon pigs, local and overseas. *Agr. Gaz. N. S. Wales* 56:407-408. Sept.1945. 23 N472
The effect of action taken by the Commonwealth Government in 1943 under National Security Regulations to control the industry in the best interests of Australia's wartime requirements.

United Kingdom

1178. COHEN, R. The variation of bacon pig prices at English markets. *Farm Econ.* 1:226-228. July 1935. 281.8 F223
Analyzes the situation resulting in criticism by pig producers in the Midlands of the principles of a uniform price for pigs of a given weight, and of a declining price per score as the weight of the baconer increases.

1179. LEE, J. R. The relationship between the prices and costs of pork and bacon pigs. *Farm Econ.* 2:59-60. Oct.1936. 281.8 F223
Margins on a live-weight and dead-weight basis, Great Britain.

1180. LONG, W. H., and DANIEL, C. The value of farm produce consumed in the farm-house. *Gt. Brit. Min. Agr. J.* 41:29-33. Apr.1934. 10 G79J

Pigs and lambs, Great Britain.

1181. MURRAY, K. A. H. Bacon and bacon pig prices, January-September 1933. *Farm Econ.* 1:83-84. Oct.1933. 281.8 F223
Relative movements, Great Britain.

1182. MURRAY, K. A. H. A survey of the prices of pigs and feeding stuffs in England and Wales during 1931. *Pig Breeders' Annu.* (1932/33)12:23-30. 1932. 46.9 N21P

Also in *Oxford U. Agr. Econ. Res. Inst. Misc. Papers Agr. Econ.* (1931/34)7. Various paging. 8 p. 1934. 281.9 Ox2

1183. MURRAY, K. A. H. A survey of the prices of pigs and feeding stuffs in England and Wales during 1932. *Pig Breeders' Annu.* (1933/34)13:92-101. 1933. 46.9 N21P

Also in *Oxford U. Agr. Econ. Res. Inst. Misc. Papers Agr. Econ.* (1931/34)7. Various paging. 10 p. 1934. 281.9 Ox2

1184. MURRAY, K. A. H. A survey of the prices of pigs and feeding stuffs in England and Wales during 1933. *Pig Breeders' Annu.* (1934/35)14:158-166. 1934. 46.9 N21P

Also in *Oxford U. Agr. Econ. Res. Inst. Misc. Papers Agr. Econ.* (1931/34)7. Various paging. 9 p. 1934. 281.9 Ox2

1185. RICHARDSON, P. P. Supplies of pig-meat in the United Kingdom, 1937 to 1948. Nottingham, U. Dept. Agr. Econ. Farm Mangt. Notes 1949:8-11. Autumn 1949. 281.9 N842

Topics include the diversion of pigs from the butchers to the bacon factories, consumption, and the United States, Canada, Denmark, Australia, and New Zealand as sources of supply for pork, bacon and ham.

Lambs, Sheep, Lamb, and Mutton

United States

1186. CREW, W. C. Lamb marketing trends. *Natl. Wool Grower* 37(2):30-31,38. Feb.1947. 45.8 N21N

Address, 82nd annual convention, National Wool Growers

Association, San Francisco, Jan. 26-30, 1947.

Includes a brief discussion of the competitive price position of lamb, beef and pork.

1187. DRESSLER, G. Lamb in the retail market. Natl. Wool Grower 37(2):23,39-40. Feb.1947. 45.8 N21N

Address, 82nd annual convention, National Wool Growers Association, San Francisco, Jan. 26-30, 1947.

Discusses consumer preferences, the black market, and consumption.

1188. PHILLIPS, C. D., and RUDD, R. W. Seasonal prices of spring lambs on Kentucky auction markets. Ky. Agr. Expt. Sta. B. 427,35 p. June 1942. 100 K41

A study made to provide a pattern of average seasonal prices by which farmers who sell spring lambs could plan their production programs, and to examine the various factors which determine those prices.

1189. POLLOCK, R. C. Do Americans like lamb? Natl. Wool Grower 39(10):10-12,31. Oct.1949. 45.8 N21N

On a program mapped by the Lamb Industry Committee, set up by the National Wool Growers Association, whose two main objectives were to obtain all possible information on the consumption of lamb and on consumer attitude toward lamb on a national scale.

1190. POLLOCK, R. C. How lamb fares in schools and retail shops. Natl. Wool Grower 39(11):14-15,40-42. Nov.1949. 45.8 N21N
Results of a program developed in Mississippi Valley cities the purpose of which was primarily to test the value of introducing lamb into educational institutions and to gather information on the reactions of students of home economics to lamb.

1191. SIMS, G. J. Consumer purchases of lamb. Natl. Wool Grower 38(6):13,24. June 1948. 45.8 N21N

For the United States, 1920-47. Includes comparisons of lamb, beef and pork prices.

1192. STINE, O. C. Income from sheep, lambs, and wool. Agr. Situation 23(4):16-18. Apr.1949. 1 Ec7Ag

Includes farm income, 1909-38.

1193. STOUT, W. B. Sheep and lamb price facts. Purdue U. Agr. Ext. L. 166,6 p. Aug.1932. 275.29 In2L

Variation in production, production and price cycles, seasonal variation in marketing, and profits and losses in feeding.

Canada

1194. HOPPER, W. C. Relation of family income to lamb consumption. Natl. Wool Grower 30(10):15. Oct.1940. 45.8 N21N

Results of a study made by personal visits to 2,060 households in Saint John, Montreal and Vancouver in 1936.

1195. JOHNSTON, C. I., and HOPPER, W. C. Consumption of lamb in city households. Ottawa, Dominion Dept. Agr., Mktg. Serv., Econ. Div., 1942. 19 p. 389 J64

Based on information obtained from 2,060 households in Saint John, Montreal and Vancouver, this study includes consumption in relation to income, occupation, nationality, and season of the year, consumer preference as to kind and size of cuts, and reasons why more lamb is not purchased.

1196. JOHNSTON, C. I. Further facts about lamb consumption. Econ. Annal. 10:60-61. Aug.1940. 281.8 Ec72

Based on a survey of meat consumption in Saint John, Montreal, and Vancouver, this analysis includes cuts purchased in largest quantity, method of buying, and reasons for buying and for not buying

lamb.

1197. JOHNSTON, C. I. Relation of occupation to consumption of lamb. Econ. Annal. 10:42-44. June 1940. 281.8 Ec72

In Saint John, Montreal, and Vancouver, 1936.

1198. TAPLEY, J. H. Mutton products. Agr. Inst. Rev. 3:133-135, 137-138. Mar. 1948. 7 Ag8

Per capita consumption of lamb in Canada compared to beef and veal, 1939 and 1944-46, and consumer preference in lamb types and cuts.

United Kingdom

1199. WOOD, R. O. Sheep prices. Farm Econ. 2:193-194. Apr. 1938. 281.8 F223

An inquiry into the causes of the decline in these prices in Great Britain during the first quarter of 1938.

MARKET NEWS AND MARKET STATISTICS

United States

1200. CHICAGO DAILY DROVERS JOURNAL. Yearbook of figures of the livestock trade, 1949. Chicago, 1950. 49 C431

Also earlier editions.

Cattle and hog price regulations, and statistics on the direct buying of livestock, Federally inspected slaughter, exports and imports, and numerous other subjects.

1201. SCOTT, G. A. California livestock statistics with special reference to shipments into and out of the State, slaughter within the State, and marketing. Sacramento, Calif. Coop. Crop Rptg. Serv., 1937. 45 p. 252.09 C882CL

In general, covers the period 1922-36.

1202. U. S. BUR. OF AGRICULTURAL ECONOMICS. Costs, weights and dressed yields of livestock slaughtered under Federal inspection, 1920-1932. Washington, 1933. 27 p. 1.9 Ec713Co

Includes live cattle, calves, hogs, sheep and lambs, and beef, veal, pork, lard, lamb and mutton.

1203. U. S. BUR. OF AGRICULTURAL ECONOMICS. The livestock and meat situation, Mar. 1951. Washington. 1.941 S8L752

Also earlier issues.

Included are Federally inspected slaughter of hogs, cattle and calves, and sheep and lambs; meat animal marketings and meat stocks; and United States foreign trade in meat and meat products.

1204. U. S. DEPT. OF AGRICULTURE. Agricultural statistics, 1949. Washington. 1 Ag84Yas

Also earlier editions.

References to livestock slaughtered under Federal inspection, lard and meat consumption, and numerous other subjects will be found in the Index.

1205. U. S. PRODUCTION AND MARKETING ADMIN. LIVESTOCK BR. Livestock market news statistics and related data, 1949. U. S. Prod. & Mktg. Admin. Statis. B. 91,85 p. Aug. 1950. 1.9422 A8C732

Also earlier issues.

Livestock movements, Federally inspected slaughter, exports and imports of meats, and meat consumption are among the subjects included.

1206. U. S. PRODUCTION AND MARKETING ADMIN. LIVESTOCK BR. Livestock slaughter and meat statistics, compiled by the Analysis Section of the War Meat Board, 1942-46. Washington? 1946.

56 p. 1.956 L75L75

Includes cattle, calves, sheep, hogs and lard. Military procurement of meat and lard, p. 54-56.

1207. U. S. PRODUCTION AND MARKETING ADMIN. LIVESTOCK BR. Non-Federally inspected slaughter reported under War Food Order No. 75, 1944. Washington, 1947. 43 p. 1.956 L75N73

Cattle, calves, hogs, sheep and lambs.

STORAGE

United States

1208. ELLIS, N. R., and HOWE, P. E. Changes in the fat of meats during freezing and storage. Amer. Inst. Refrig. Proc. 30:73-78. Ref. 1941. 295.9 Am3

A summary of the results of numerous experiments in beef, lamb and pork.

1209. NATIONAL LIVE STOCK AND MEAT BOARD. National meat studies. 1. Meat storage and curing. Natl. Provisioner 109(4):12-13. July 24, 1943. 286.85 N21

A summary of experiments dealing in part with the effect of wrappings and of a coating of lard upon frozen meat held in storage, and the effect of freezing methods on pork quality.

1210. SHREWSBURY, C. L., and others. Chemical, histological and palatability changes in pork during freezing and storage in the frozen state. Ind. Agr. Expt. Sta. B. 472, 36 p. Ref. May 1942. 100 In2P

L. W. Horne, W. Q. Braun, R. Jordan, O. Milligan, C. M. Vestal, and N. E. Weitkamp, joint authors.

Combined studies with pork from firm and soft carcasses kept in a frozen condition for periods up to 16 months showed the pork to be in a very satisfactory condition at the end of one year, and to be edible at the end of 16 months.

1211. SHREWSBURY, C. L., and others. Factors influencing the keeping quality of meat with special reference to the ration of the animal. Amer. Inst. Refrig. Proc. 30:80-91. Ref. 1941. 295.9 Am3

H. R. Kraybill, F. G. King, and C. M. Vestal, joint authors.

Among various experiments mentioned is one at the Purdue Agricultural Experiment Station the purpose of which was to determine whether products from hard hogs kept better when stored frozen than products from soft hogs.

1212. SULZBACHER, W. L. Characteristics and significance of some psychrophilic bacteria isolated from frozen meats. Soc. Amer. Bact. Abs. Papers 49:55. May 1949. 449.39 So12A

Results of experiments with eight cultures of gram-negative bacteria isolated from a slimy coating found on four cellophane-wrapped frozen lamb legs stored at 25° F for 32 weeks.

1213. VOLLERTSEN, J. J. The handling of meats after slaughter. Amer. Inst. Refrig. Proc. 30:114-120. Ref. 1941. 295.9 Am3

Carrying meat under refrigeration without freezing.

New Zealand

1214. GRIFFITHS, E., VICKERY, J. R., and HOLMES, N. E. The freezing, storage and transport of New Zealand lamb. Gt. Brit. Dept. Sci. & Indus. Res. Food Invest. Spec. Rpt. 41, 178 p. 1932. 389.9 G792

Results of investigations in which measurements were made of the temperature and weight of a large number of carcasses, and of the temperature and humidity of the air surrounding them, at each stage from the slaughterhouse in New Zealand to the wholesale markets in Great Britain.

INTERNATIONAL TRADE

1215. GT. BRIT. IMPERIAL ECONOMIC COMMITTEE. INTELLIGENCE BR. Cattle and beef survey; a summary of production and trade in British Empire and foreign countries. Gt. Brit. Imper. Econ. Comt. Intel. Br. I. E. C./S./1,367 p. June 1934. 280.39 G794

Among the countries with an export surplus are Canada, Australia, New Zealand, the Irish Free State, and Denmark. Those with import requirements include Great Britain, France, Belgium, the Netherlands, Germany, and the United States. The course of beef prices in England, 1905-33, is discussed.

1216. GT. BRIT. IMPERIAL ECONOMIC COMMITTEE. INTELLIGENCE BR. Mutton and lamb survey; a summary of production and trade in the Empire and foreign countries. Gt. Brit. Imper. Econ. Comt. Intel. Br. I. E. C./S./3,294 p. Sept.1935. 280.39 G794

Follows a plan similar to the one in the Committee's "Cattle and Beef Survey." Countries with an export surplus include New Zealand, Australia, the Irish Free State and the Netherlands. Among those with import requirements are Great Britain, Canada, the United States, France, Belgium, Germany, Sweden, Norway and Denmark. Ch. 20 analyzes the course of prices of mutton and lamb in the United Kingdom, 1905-34.

1217. INTERNATIONAL INSTITUTE OF AGRICULTURE. International trade in meat. Rome, Internatl. Inst. Agr., 1936. 424 p. (Studies of the principal agricultural products on the world market, 2.) 280.39 In8

Includes cattle, beef, veal, pigs, pork, lard, sheep, lamb and mutton. Among the countries mentioned are the United States, the United Kingdom, Belgium, Germany, France and Denmark.

1218. INTERNATIONAL trade in meat. Internatl. Rev. Agr. 27: 331E-336E. Oct.1936. 241 In82A

Meat consumption in the United States, Canada, Belgium, Denmark, France, Germany, the Netherlands, Norway, and the United Kingdom.

1219. MARSHALL, D. A. B. Long-term bacon market in Britain stimulates Dutch pig industry. Foreign Trade 6:1145-1146. Dec.17, 1949. 286.8 C162

Terms of the Anglo-Dutch agreement of June 1949, including the maximum quantity of bacon to be supplied to the United Kingdom, and the price established.

1220. MOSKOVITS, I., and TAUSSIG, S. World production in meat. Internatl. Inst. Agr. Studies Princ. Agr. Prod. World Mkt. No. 3,319 p. 1938. 280.39 In8

Subjects studied include livestock slaughter, international trade in meat, and consumption.

1221. TAUSSIG, S. Live stock production and trade in live stock products as affected by the world economic crisis. Internatl. Rev. Agr. 25:257E-268E. July 1934. 241 In82A

Among the countries referred to are the United States, Canada, Great Britain, the Netherlands, Belgium, France, Germany, Sweden, Denmark, Australia and New Zealand.

1222. U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World production, trade, and consumption of meat, 1947-1948. Washington, 1948. 1.943 W899

Includes the United States, Canada, Belgium, Denmark, Eire, France, Germany, the Netherlands, Norway, Sweden, the United Kingdom, Australia, and New Zealand.

1223. U. S. TARIFF COMMISSION. Hogs and hog products; a survey of United States and foreign production and international trade in hogs, pork, and lard, with special reference to factors essential to

tariff consideration, under the provisions of section 332, title III, part II, of the United States Tariff Act of 1930. Washington, 1941. 215 p. 173 T17Rs no. 143

Pt. 1, The domestic industry, includes the marketing of hogs and hog products in the United States. Pt. 2, Foreign production and international trade, refers in part to the United Kingdom, Germany, Denmark, the Netherlands, Eire, and Canada.

United States

1224. QUACKENBUSH, G. G. The probable influence of foreign supply and demand for meat animals upon the future of the livestock industry in the United States. 1947. 243 p. Ref. Purdue U. Libr. Typewritten.

Thesis (Ph.D.) - Purdue University.

Among the countries whose future market and future production are discussed are Canada, New Zealand, Australia, Great Britain, France, Germany, Holland, Belgium, Eire, Sweden, Norway and Denmark. An analysis of the economic principles of meat consumption is found on p. 206-217.

1225. RICHARDS, P. Trends in production and foreign trade for meats and livestock in the United States. U. S. D. A. Tech. B. 764, 63 p. Ref. Mar. 1941. 1 Ag84Te

Among the subjects studied are foreign trade in livestock, meats and lard before 1920, foreign trade in the period after 1919, trends in the production and consumption of lard and their relation to foreign trade.

1226. SCHICKELE, R., and SCHULTZ, T. W. The lard market at home and abroad. Iowa Agr. Expt. Sta. B. 320:85-104. June 1934. 100 Io9

Discusses primarily the competition which lard is facing from vegetable oils, and the foreign trade and tariff situation affecting the lard market.

1227. SHOEMAKER, W. W. International meat trade. Producer 14 (9):16-21. Feb. 1933. 49 P94

Believes that the only ray of hope in meeting the future is the method of rational joint agreements for stimulating business, and emphasizes the importance of restoring our foreign markets.

1228. THORNE, G. B., and RICHARDS, P. Factors affecting exports of United States hog products. Washington, U. S. Bur. Agr. Econ., 1932. 51 p. Ref. 1.9 Ec752Fh

Pork, bacon, hams, shoulders and lard. Among the foreign countries mentioned are Canada, the United Kingdom, the Netherlands, Belgium, France, Germany, the Irish Free State, Denmark, Norway and Sweden.

1229. WALSH, R. M. Export market and price of lard. J. Farm Econ. 25:487-494. May 1943. 280.8 J822

Deals in part with the slope of the demand and supply curves for lard, and the approximate effect of the reduction in export demand, 1940, compared with the 1922-40 average.

Ireland

1230. SHERA, G. Irish livestock developments. Overseas Rpt. Agr. Devlpmt. 37,3 p. Dec. 1949. 281.9 C16420

Cattle, sheep and lamb exports of the Republic of Ireland.

United Kingdom

1231. HENDERSON, R. Partial protection of the fresh pork market. A study of the effects of the Meat Imports (Prohibition) Order, 1926. Aberystwyth, U. Col. Wales, 1932. 46 p. 284.346 H38

Contents: Pt. 1, Imposition of the embargo; Pt. 2, Effects on supplies; Pt. 3, Effects on prices.

FROZEN-FOOD LOCKERS

General

United States

1232. ALDEN, R. Freezer locker study encouraging for home use. *Kans. Agr. Student* 26(1):17. Oct.1949. 276.8 K13

The development of the industry in Kansas, the percentage of families in this State making use of lockers, experimental work in Kansas in meat freezing, and the advantages of freezing meat for home consumption.

1233. ANDERSON, E. S. The growth of service in locker plants. *Quick Frozen Foods* 9(11):132-133,162. June 1947. 389.8 Q4

Traces the transition of lockers for storage to the modern locker plant as a sales and service organization, offering in some instances "specials" to patrons and discounts on quantity orders.

1234. ANNUAL inventory of the frozen food locker industry. *Locker Operator* 5(6):8-9,20,23. Jan.1944. 295.8 L79

Topics include the growth in the number of locker plants by States, 1941-43, and the increase in average plant size and services, and in the demand for slaughtering and processing services because of rationing.

1235. BELSLY, M. Rented 1000 lockers in town of 1600. *Locker Operator* 6(3):20,52. Oct.1944. 295.8 L79

On the growth and operation of the Lacon Locker Plant, Lacon, Ill. Locker rentals, meat services, and lard rendering are mentioned.

1236. BIERLY, I. R. Cold storage lockers in New York State, 1938. *N. Y. (Cornell) Agr. Col. Dept. Agr. Econ. & Farm Mangt. A. E.* 264, 32 p. Apr. 1939. 281.9 C81

Similar title in *N. Y. (Cornell) Agr. Col. Farm Econ.* 113:2784-2787. May 1939. 280.8 C812

Based on data obtained through the cooperation of the managers of 12 cold storage plants in New York and from more than 400 of their patrons, this report deals with the development of freezer lockers in the United States, the location and ownership of New York State plants, the growth of locker service in this State, the number of families in this State using freezer-locker storage service for preserving meats, meat services provided, rental and service charges, the number and percentage of patrons storing meat and the average amount of meat stored per patron storing, and some advantages and disadvantages of the use of freezer lockers.

1237. BRADY, D. E. The locker and the home meat supply. *Quick Frozen Foods* 9(8):256-257,286. Mar.1947. 389.8 Q4

The growth of the industry in North Carolina, some advantages of locker storage to the farmer, the responsibilities of locker patrons, and meat-processing services.

1238. BULL, S. The freezer locker. *Pacific Rur. Press* 141:439. June 14,1941. 6 P112

Sketches the development of the industry and mentions meat services

1239. BULL, S. Reconversion of the locker industry. *Quick Frozen Foods* 8(2):95,107. Sept.1945. 389.8 Q4

Discusses prospects for the return of many urban locker renters to the local butcher shop for their meat purchases, and the competition to be expected from increased use of home freezers following World War II. Among recommendations to locker plant operators for successful reconversion are mentioned improved relationships with patrons, serving as a selling agency for a good line of commercial foods and as a selling and servicing agency for a good line of home freezers,

the installation of slaughtering facilities where they are not at present available to patrons, improved methods of cutting and wrapping meats, including more boning of meats to reduce storage space, the addition of curing, lard and sausage-making equipment, and the use of improved wrapping materials.

1240. BURNS, R. J. Frozen food locker plants. Iowa Ybk. Agr. 47: 82-94. 1946/47. 2 Io9R

On the development of the industry in Iowa during its first ten years, the average size of plants with relation to the national average, the percentage of city customers, and meat-processing services. A list of Iowa frozen-food locker plants, 1946, appears on p. 84-94.

1241. BUSY food lockers. Business Week 631:24,27,29. Oct.4,1941. 280.8 Sy8

The growth of the locker-plant industry; rentals; slaughtering, chilling, aging, butchering, wrapping, sharp freezing, grinding, curing and smoking, and storing services and charges therefor; use by farmers as compared with use by city dwellers; and special quantity prices for city patrons wishing smaller amounts of meat for storing. Reference is made to a proposed Locker Stamp Plan to enable low-income families to rent food lockers when they become available.

1242. CALT, R. P., and SMITH, H. K. Food banks of the future. Atlantic Mon. 167:362-365. Mar.1941. Libr. Cong.

The size of the refrigerated locker industry and the general location of plants, the effect of the industry upon the American farm economy, services offered by the plants and charges therefor, the cash saving made possible through locker use as compared with the average farm family's total food budget, rural and nonrural patronage, and branch plants.

1243. CARLTON, H. The frozen food industry. Tenn. Agr. Expt. Sta. B. 173,175 p. Jan.1941. 100 T25S

Estimated quick-frozen meat production, U. S., 1937-39, p.22,24. A section on freezer locker plants, p.156-166, includes meat services, and savings accruing to meat locker users.

1244. CARLTON, H. Frozen foods in the retail market. Food Indus. 18:696-697,800,802,804,806. May 1946. 389.8 F737

Topics include the number and capacity of locker plants, the relationship of home freezing units to locker plants, and the growing interest in packaged frozen meats.

1245. CARPENTER, E. L., and TUCKER, M. Farm and community refrigeration. Tenn. Engin. Expt. Sta. B. 12,63 p. Mar.1936. Ref. 290.9 T25

Includes processing meat for freezer storage, and typical commercial storage rates for fresh meat in freezer storage, Southeastern States.

1246. CARVER, W. The frozen food locker industry. Refrig. Engin. 44:147-150,202,204. Sept.1942. 295.9 Am32J

Topics include a count of the locker plants in this country, 1938-41, the growth of plants by States, 1941, branch locker rooms by States, Dec.31,1941, the expansion of locker services, the percentage of farmer patrons, and contributions of locker plants to the conservation of critical materials and transportation during wartime.

1247. CARVER, W. History and development of the locker plant industry. In Brown, H. D., ed. Frozen foods, processing and handling, p.5-33. Columbus, 1946. 389.3 B812

Topics include the growth of the industry and the effect of World War II upon this growth, services offered, branch plants, and competitive factors.

1248. CARVER, W. Locker plants--yesterday, today, and tomorrow. Refrig. Engin. 47(2):104-108. Feb.1944. 295.9 Am32J

The growth of the industry, advantages spelling the success of locker plants, the effect of wartime conditions and of home-freezer units on the industry, urban and rural patronage, and the effect of locker plants on the food-distribution system.

1249. CARVER, W. H. Frozen food locker plants in Iowa. Iowa Ybk. Agr. 44:76-79. 1943, pub. 1944. 2 Io9R

The size of the industry in this State in 1944, the amount of meat and poultry handled, the percentage of main locker plants offering meat-curing service and the average meat-curing tonnage for these plants, branch locker plants, rural and urban plants, and the percentage of farm population using lockers.

1250. CHAPMAN, P. W. A study in Southern locker plants. Frozen Food Indus. 3(4):10-11,41;(5):16,33-34. Apr., May 1947. 389.8 F93

A report based on 100 selected replies to questionnaires sent to 700 lockers in Southern States. Subjects discussed include the percentage of lockers rented, sources of plant income, affiliated business enterprises, services and business activities, and educational and sales programs.

1251. COTTON, W. P., and FENN, F. U. Frozen food locker plants in South Dakota. S. Dak. Agr. Expt. Sta. B. 360,28 p. May 1942. 100 So82

On their development in this State, present practices in their operation and utilization, their influence on the general level of living of the patrons, the quantity, kind and quality of meat stored, inspection of live animals and carcasses, savings resulting from locker use for meats, net savings effected by slaughtering, and wholesale and retail margins.

1252. CRABB, R. Cold storage lockers for farmers. Nation's Agr. 12(12):6,10-11. Nov.1937. 280.82 B89

The spread of the industry; changes observed in the consumption of meat by farm patrons; advantages to lockers; rentals; and the question of the possibility of saving money by storing meat in a locker.

1253. DIEHL, H. C. Can we bring frozen food packers, locker plants and refrigerated warehouses together? Amer. Warehousemen's Assoc. Proc. 51:274-280. 1942. 297.9 Am32

Discussion, p. 280-287.

Notes a strong community of interest and of problems between these three industries, and discusses principles of action for bringing these industries together for war effort during World War II.

1254. DIEHL, H. C. What happens in frozen foods storage. Ill. Agr. Col. Ext. Cold Storage Locker Conf. 1939:28-32. 275.29 IL62Pah no. 851

Enumerates requisites to the successful operation of locker plants. Various suggestions include the substitution of an incoming and outgoing window-service for the system of the patrons' free access to lockers.

1255. DILLON, C. E. Feed lot adds profits to slaughter. Locker Operator 9(11):17-18,20. May 1948. 295.8 L79

On the advantages to the locker operator and the patron of extending locker plant activity to the feeding of cattle and hogs.

1256. DOWELL, A. A., DVORACEK, D. C., and OLSON, R. E. Developments in the cold storage locker industry. Minn. U. Agr. Ext. Farm Business Notes 317:1-3. June 27, 1949. 275.29 M662

The expansion of the industry in Minnesota; the number, size, and location of plants in this State; types of ownership; affiliations with other businesses; the percentage of farm patrons and the average number of lockers rented by them; advantages of lockers to patrons; locker rentals; meat-processing services and charges therefor; and the estimated amount of beef and veal, pork, and lamb and mutton stored

in Minnesota locker plants, 1947.

1257. DOWELL, A. A. Meat handled by locker plants. Minn. U. Agr. Ext. Farm Business Notes 204:2-3. Dec.1939. 275.29 M663

Data from 13 Minnesota cold-storage locker plants on the amount of beef, veal, pork, lard, and lamb and mutton handled, sold, cut, and ground by the plants, July 1,1937 to June 30,1938.

1258. DOWELL, A. A., and others. Minnesota cold storage locker plants. Minn. Agr. Expt. Sta. B. 345,39 p. Jan.1940. 100 M66

S. T. Warrington, R. J. Eggert, and L. J. Fenske, joint authors.

On the development of the industry in this State, investment per locker, sources of income, meat services, meat consumption of rural patrons as compared with that of town patrons, and customer reaction.

1259. DUBOIS, C. W. Growth and development of locker plants. Farm Res. 8(3):5,6. July 1,1942. 100 N48A

Deals with the United States and with New York State. Meat services are mentioned.

1260. EGGERT, R. J. Cold storage locker development in Minnesota. Minn. U. Agr. Ext. Farm Business Notes 189:3. Sept.1938. 275.29 M663

For the period 1924-38. Gives the number and average locker capacity of locker plants by selected type of enterprise (including meat dealers) in this State, 1935-38, and the number of plants owned independently and operated in connection with a meat market or grocery and meat store.

1261. EGGERT, R. J. Locker facts and figures supplied by Kansas locker operators and patrons. Frozen Food Lockers Conf.:21-22. 1940. 295.9 F93

Locker development in this State, affiliated ownership, locker capacity rented, type of patronage, meat consumed by patrons, 1939, and advantages and disadvantages reported by patrons.

1262. EGGERT, R. J. The locker industry in Kansas--its present status. Quick Frozen Foods 3(1):14-15,38. Aug.1940. 389.8 Q4

Subjects discussed include the size and distribution of plants, the average number of lockers in individual plants, kinds of service offered, locker rental and service charges, type of patronage, percentage of lockers rented, and advantages and disadvantages reported by experienced patrons.

1263. EIGHTH annual locker plant count. Locker Operator 7(7):20-22,24-25,54. Jan.1946. 295.8 L79

Results of a survey conducted by the National Frozen Food Locker Association to determine the growth of locker plants in the United States. Meat processing and lard rendering,p.22,24.

1264. EULER, R. S., WOOD, G. B., and WILEY, J. R. Frozen food storage for Indiana families. Ind. Agr. Expt. Sta. B. 541,46 p. 1950. 100 In2P

Results of investigations dealing in part with frozen-food locker plant services, including slaughter, the amount of meat processed and wholesaled to patrons in 1947, the effect of meat rationing on the industry in this State, and customer reaction to locker plants.

1265. FARQUHAR, R. A history of the locker plant. Quick Frozen Foods 9(8):254-255. Mar.1947. 389.8 Q4

On the size of the industry in this country, improvements with respect to equipment and services, and the challenge of competition from home freezers, commercially frozen foods, locker plants in chain stores and super markets, and other sources. Included is a summary of the results of a survey conducted by the Frozen Food Locker Institute, Inc.

1266. FILINGER, G. A., and MACKINTOSH, D. L. Preserving foods in frozen food lockers. Kans. Agr. Expt. Sta. C. 217,38 p. Nov.1943. 100 K13S

The portions of this publication dealing with meat discuss slaughtering, packaging, types of wrapping paper, and charges in Kansas lockers.

1267. 500,000 use storage lockers. *Business Week* 431:44-46. Dec. 4, 1937. 280.8 Sy8

Gives a brief account of the spread of locker storage in this country, and a description of the locker plant as a packing plant in miniature.

1268. FREDERICK, J. H. Public warehousing; its organization, economic services and legal aspects. New York, Ronald, 1940. 301 p. 280.3 F87Pu

Ch. 10, Cold storage locker plants, deals with ownership and operation, types of locker plants (those with limited service, offering storage facilities only, and those with complete service, offering complete processing facilities), location, size of plant, service charges, income from these charges and from rentals, and percentages of farmers and urban dwellers using lockers.

1269. GARDNER, B. W., JR. Storing fruits, vegetables, and meat in a freezer-locker. *Consum. Res. B.* 12(1):14-18. July 1943. 321.8 C76

Topics include freezer locker charges for slaughtering, chilling, cutting, wrapping, sharp freezing, and storing meat; wrapping materials; the effect of World War II upon urban and rural patrons' storage; and advantages of meat storage in lockers.

1270. GUGGEDAHL, A. National Frozen Food Locker Association. In Brown, H. D., ed. *Frozen foods, processing and handling*, p. 383. Columbus, 1946. 389.3 B812

The growth and size of the Association, the size of individual plants, concentration in location, and services offered.

1271. HARRELL, D. N. Freezer locker industry shows rapid growth. *South. Refrig. J.* 1(8):3, 10, 18. Dec. 1946. 295.8 So8

The growth of this industry in Georgia since 1940; concentration of plants in the State; breakdown of plants according to size; pork-curing facilities; the effect of locker plants upon the consumption of fresh beef and pork and upon meat spoilage; locker-rental charges; and meat-processing services as a source of plant income.

1272. HARRELL, D. N. Freezer lockers in Georgia. *Refriger. Engin.* 54:235-236. Sept. 1947. 295.9 Am32J

The growth and size of the industry in this State, the number of lockers per plant, the percentage of farm patrons, types of services offered, and locker-rental charges.

1273. HASEBROOCK, W. H. Our locker customers. *Locker Operator* 9(1):41-42, 44. Aug. 1947. 295.8 L79

Advice to locker operators calculated to insure successful dealings with their patrons.

1274. HECK, M. C. The economic importance of freezer locker plants in Arkansas. *Ark. Agr. Ext. Econ.* May/June 1947, p. 1. 275.29 Ar4Ark

On the increase in the number and size of plants in this State, meat-processing services offered, advantages in the use of lockers, and the estimated amount and value of meat stored.

1275. HENRY, J. Community ice box. *Rur. Prog.* 100(10):3, 12. Oct. 1936. 6 R8817

The beginning of the locker industry in Oregon, its development and status in Iowa, and meat services and charges therefor in the latter State.

1276. HURST, F. J. More freezer locker plants. *Prog. Farmer (Miss. Valley Ed.)* 56(3):29, 32. Mar. 1941. 6 So81

The development of the industry in Mississippi. Brief mention is made of meat services.

1277. HUTCHINSON, W. H. Three way service "brings locker plant

to patrons' homes''. Locker Operator 10(1):18-20. Aug.1948.
295.8 L79

On the Perry [Iowa] Locker Plant which rents home units to its locker patrons and provides a regularly scheduled delivery route from the plant to service these rented units, as well as a pick-up service for farm animals to be slaughtered.

1278. IOWA. STATE DEPT. OF AGRICULTURE. Iowa yearbook of agriculture, v.42,1941. Des Moines,1942. 621 p. 2 Io9R

Locker plants in Iowa, p.64-65; Ownership of Iowa locker plants, p. 67; Patronage of Iowa plants, p. 67; Research on foods frozen and stored in refrigerated locker plants,p.478-480; Freezing and storage of meats,p.480-481; Influence of low temperature upon beef and pork held in storage for different intervals, p.508-509.

1279. KABLE, G. W. Some development trends in the farm freezing and storing of food. Agr. Engin. 22(4):143-146. Apr.1941. 58.8 Ag83

Refers to the slaughtering, cooling, aging, cutting, wrapping, freezing, sausage making, and meat sales services of locker plants, and lists advantages and disadvantages of the cold-storage locker system as compared with home butchering and processing and with the purchase of meat at retail shops.

1280. KRAMER, R. C. Do you rent a locker? Mich. Farm Econ. 75: 2. Mar.1949. 275.29 M58A

A consideration of the advisability of renting a locker, and of purchasing beef during a period of low prices, based on an analysis of the price of beef, processing losses and costs, the beef's share of the annual locker rent, transportation costs, and the patron's interest on his investment in the beef.

1281. LACY, W. S., JR. Virginia builds food freezing plants. Commonwealth 12(7):11-12. July 1945. 280.8 C732

The development of the industry in the United States in general and in Virginia in particular, types of ownership, meat-processing services, and charges for rentals and services.

1282. LANGE, H. K. Pioneer Iowa plant parallels the growth of locker industry. Locker Operator 7(9):30,32,52-54. Mar.1946. 295.8 L79

The story of the establishment and growth of Gay's Refrigerated Lockers, Iowa City and Oxford. Among various functions mentioned is a meat pick-up and delivery service.

1283. LARSON, J. S., MIXON, J. A., and STOKES, E. C. Marketing frozen foods--facilities and methods. Washington,U. S. Prod. & Mktg. Admin.,1949. 175 p. 1.956 M34M342

A section on locker plants, p.143-158, deals in part with the development of the frozen-food locker-plant industry in the United States; the geographical distribution of these plants; meat-processing services such as slaughtering, chilling, aging, cutting, packaging, freezing and storing, curing and smoking, lard rendering, and sausage making; the inspection of food before freezing; charges for processing; and the sale of meat.

Excerpts in Quick Frozen Foods 12(7):294-295,303-304;(8):140-142. Feb.,Mar.1950. 389.8 Q4

1284. MCPHERSON, W. K. Organization and use of Alabama locker plants in 1941. Ala. Agr. Expt. Sta. Spec. C. [unnumbered],19 p. Aug. 1941. Ref. 100 AL1S

Topics include meat-processing services, and meat stored as of April 1940.

1285. MAHER, F. J. Truth about food lockers. Meat Merchandising 14(1):13-27. Jan.1938. 286.85 M462

A survey of the cold-storage locker industry in Iowa dealing with such aspects as the development of the industry in this State; the emphasis placed upon meat and meat services; charges; and the retailers' loss of business to locker patrons.

1286. MANN, L. B., and WILKINS, P. C. Frozen food locker plants; location, capacity, rates, and use, January 1, 1946. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 105,41 p. Feb.1947. 166.3 M68

A report based on data obtained from 2,882 usable schedules returned by locker plant operators, and dealing in part with ownership; affiliation of plants; patronage; population of towns in which plants are located; processing and slaughtering services; locker rental and processing rates; average number of pounds of beef and veal, pork, and lamb chilled, cut, wrapped, or frozen per locker rented, 1941-45; and trends in the industry.

1287. MANN, L. B. The locker plant--a factor in marketing. Assoc. South. Agr. Workers. Proc. 45:133-135. 1948. 4 C82

Based on surveys, figures are given for the volume of meat stored, 1946-47. Numerous possibilities for service are mentioned.

1288. MANN, L. B. Locker plants having readjustment pains. News Farmer Coop. 16(10):17-18. Jan.1950. 166.2 N47

Discusses trends in the industry and their effect upon the operations of both private and cooperative locker plants, and notes needed changes in methods and procedures. The assembly, grading and marketing of livestock at local cooperative concentration points, slaughtering, and sausage making as a means of using edible byproducts are mentioned.

1289. MANN, L. B. Locker trends; a survey of the industry in the U. S. A. showing progress and changes since 1940. Locker Plants & Frosted Foods 5(1):12-13,29-30. Feb.1950. 389.8 L792

Discusses the increase in the capacity of plants; percentage of occupancy; expansion and diversification of services, including meat; the percentage of meat and game stored; rental rates and service charges; centralization of major processing operations; the effect of home freezer units on the industry; operating results; labor and management cost per dollar processing income; the relationship between net income and size of plant and type of service rendered; factors which appear to affect net income; and future possibilities of the industry.

1290. MANN, L. B. Trends, problems, and possibilities in locker plant operations. Food Canada 10(2):28,30-32;(3):36,38,40. Feb.,Mar. 1950. 389.8 F7323

The growth of the industry in the United States, estimated total locker and food processing and storage capacity, general location of plants, affiliation with other types of business, percentage of lockers rented, locker rental and service charges, operating results, and future possibilities.

1291. MASTERMAN, N. K. The patron and the locker plant. Quick Frozen Foods 7(5):I-VIII. Dec.1944. 389.8 Q4

Partial contents of this 1943 New York State survey include the number of lockers rented; families using home freezers to supplement locker plants; distance traveled by patrons and frequency of visits; practices of urban and rural patrons with respect to the purchase and processing of meat; packaging materials and labeling; savings; plant services and rates; institutional use of locker plants; and patrons' reactions.

1292. MASTERMAN, N. K. The patron and the locker plant. Frozen Food Conf. Proc. 3:21-23. 1947. 389.9 F93

Discusses the essentials of good locker-plant management, claims for lost and damaged items in a study of 58 New York State plants, meat-processing services, the education of patrons by locker-plant operators through the setting of high standards of processing, and the effect of home freezers on the patronage of the Mother Zero Locker Plant, Ithaca, N. Y.

1293. MASTERMAN, N. K., and FURMAN, A. What's this fight about

lockers? Successful Farming 45(5):86,119-121. May 1947. 6 Su12

Urges broader education in locker usage on the part of the patrons, and better organization on the part of locker managers. Among the difficulties noted are the seasonal peak loads resulting from cold-weather slaughtering, poor packaging materials and methods, and the failure of butchers to cut meat to suit the patrons.

1294. MILLER, I. C. Locker plants...a new food industry. Food Indus. 10(10):565,568,590;(11):637,640-641. Oct.,Nov.1938. 389.8 F737

On the growth of the industry, affiliated operation, limited and complete service plants, advantages to farm patrons, service and locker rental charges, the distribution of locker plants by size of towns, and comparative locker plant and retail meat costs.

1295. MILLER, J. S. Big Indiana locker plant features meat. Frost-ed Food Field 2(2):21. Feb.1946. 389.8 F922

The growth of Lafayette Food Lockers, Inc., Lafayette, Ind.; the effect of meat rationing during World War II upon its operations; and locker rentals and meat-processing service charges.

1296. MORRIS, W. E., WARRINGTON, S. T., and EGGERT, R. J. Cold storage lockers. Minn. U. Agr. Ext. Spec. B.187,15 p. July 1937. 275.29 M66S

Advantages and disadvantages when compared to farm butchering and processing and to the purchase of meat at retail; freezer lockers as a supplement to home refrigeration; meat-processing services; and rentals and service charges.

1297. MORRISON, W. H. Locker plant builds business by providing customers with new services. Ice & Refrig.112(5):64,66,68. May 1947. 295.8 Ic2

Tells of the solution of the overflow problem at Mansfield Frosted Foods, Inc., Mansfield, Ohio, through the installation of steel overflow bins, which, being partly open at the front, are kept in a separate, locked room where patrons are always accompanied by an attendant. Locker rental charges and the processing of meat for home-freezing unit owners are discussed.

1298. MORRISON, W. H. Overflow problem solved--with cartons over lockers in locker room. Locker Operator 7(9):36. Mar.1946. 295.8 L79

The use of cellular carton boxes for a fee of \$1.00 a month.

1299. NASH, L. A sample study of the locker industry in Iowa. Guide Book Frozen Food Locker Indus. 1943:36-38. 295.8 G94

Based on a survey of the Oskaloosa and Ottumwa areas, this study deals in part with affiliated operation, percentage of farm and nonfarm patronage, the amount of pork, beef, mutton, and lard stored per year, and meat-processing services.

1300. NATIONAL FROZEN FOOD LOCKER ASSOCIATION. Frozen food locker plants directory, U. S. A.; listings by States. Des Moines, Natl. Frozen Food Locker Assoc.,1946. 75 p. 225 N2197

Compiled on the basis of information from State locker associations, survey reports by owners, and other data.

1301. OTTO, M. L., and PHELPS, E. B. The locker plant industry in Kansas. Kans. Agr. Expt. Sta. Agr. Econ. Rpt.29,9 p. June 1946. 281.9 K132

The growth of the industry in Kansas, distribution of locker capacity in relation to population, services offered (including slaughtering, meat processing and lard rendering) and charges therefor, locker rentals, and the use made of lockers.

1302. OUT OF THE locker. Consumers' Guide 4(13):12-13,18. Sept. 20,1937. 1.94 Ad422C

The growth of the locker industry in this country; rentals; the estimated amount of meat taken daily by patrons from their lockers and the resultant annual saving per family in food bills; and a typical itin-

ery of a piece of beef through the various locker plant processing stages.

1303. PIPER, E. H. Growth of the frozen-food locker-plant industry in New York. N. Y. Agr. Col. Farm Econ. 157:4072-4074. Oct. 1947. 280.8 C812

Notes the effect of meat shortages during World War II upon the demand for locker storage facilities, and significant trends in the types of enterprises with which locker plants have become affiliated in this State.

1304. QUICK frozen foods and the locker plant. The latest on frozen foods. New York, Quick Frozen Foods and the Locker Plant, 1949. 8 p. 389.3 Q4L

A report of present and anticipated trends which are expected to affect the growth and vitality of this industry. A limited amount of material on meat and frozen-food locker plants is included.

1305. RUSSELL, R. Experience in using freezer lockers for preserving fruits, vegetables, and meats in Washington State. Washington? U. S. Extension Serv., 1938. 4 p. 1.913 N3Ex7

Deals in part with beef, pork, ham, bacon, and sausage. Processing, including charges per pound, and wrapping papers are discussed.

1306. SCHAARS, M. A. Cold storage locker plants. Wis. Agr. Expt. Sta. Spec. B. [unnumbered], 22 p. Apr. 1939. 100 W75

Pt. 2, Locker plants from the patrons' point of view, discusses advantages and disadvantages of using a locker; locker-storage costs; the cost of such locker-plant services as brokerage for buying meat, processing charges, rental, grinding sausage and hamburger, and curing and smoking hams and bacon; meat shrinkage during storage; and buying meat direct from farmers. Compares the retail meat market margin with the expense of locker-plant service.

1307. SCHAARS, M. A. Nearly 10 per cent of farm families now rent cold storage lockers. Wis. Agr. Expt. Sta. B. 446:77. Nov. 1939. 100 W75

The growth of the industry in this State, total plant capacity, the range in the size of these plants, the most popular size of plant, the percentage of meat stored in relation to all food products, and the outlook for central cold-storage plants as headquarters for cutting, wrapping, and sharp freezing of meat for families wishing to store products at home.

1308. SCHAARS, M. A. The present status of the frozen food locker industry in Wisconsin. Frozen Food Locker Operators' Conf. Proc. 2:1-10. 1940. 295.9 F932

The growth of the industry in this State, the concentration of plants, the number of lockers installed and rented, type of patronage, branch plants, rental and service charges, sanitation, and cooperatively-owned plants.

1309. SCHLAGETER, G. O. How locker plants can meet the future. Quick Frozen Foods 8(8):142-143. Mar. 1946. 389.8 Q4

Urges education of locker plant personnel in the proper handling, cutting, processing, and wrapping of meat; the use of motion pictures, booklets and pamphlets as media to educate the industry on how to handle its business, and the public on how to get the most out of it; and participation by the locker operator in the wholesaling of meat and other products to the retail trade and the retailing of these products in his own sales room.

1310. SEARLS, E. N. Use of cold storage lockers by Illinois farm families. Ill. Agr. Col. Ext. AH851:2-8. 1939. 275.29 IL62Pah

Paper presented at the Cold Storage Locker Conference, University of Illinois, February 21 & 22, 1939.

The development of the locker-plant industry in the United States

and in Illinois; income from locker rentals and service charges; expenses; and monthly receipts of pork and beef from 122 farmer patrons during the first 12 months of operation of one Illinois locker plant.

1311. SEATON, H. L. Refrigerated food lockers in Michigan. Mich. Agr. Expt. Sta. Q. B. 22:153-159. Feb.1940. Ref. 100 M58S

A brief account of locker-plant development in the United States, and of the present status of the industry in Michigan. Rentals and services for meat are mentioned.

1312. SHELLABARGER, L. C. Frozen food locker plants. Iowa Ybk. Agr. 46:120-122. 1945. pub. 1946. 2 Io9R

The growth of the industry in Iowa since its debut in 1936, this State's place in the nation with reference to the number of such plants, the increase in the number of Iowa plants in 1945, and such services as slaughtering, chilling the carcass, aging, cutting, packaging in cellophane or other material, sharp freezing, storing, lard rendering, and curing and smoking.

1313. SHERMAN, R. W. Intention of 810 Ohio farmers as to use of frozen food storage facilities. Columbus, Ohio State U.,1946. 9 p. 295 Sh5

Summarizes the results of information obtained by questionnaire with reference to present or past experience with storing frozen food, reasons for not renting lockers, distance from the nearest cold storage plant, preference as to renting a locker or purchasing a home unit, and intentions as to purchasing or not purchasing a home unit.

1314. SHERMAN, R. W. Latest survey of locker operations. Frozen Food Indus. 2(1):36-37,54;(2):26-27,45-46,50. Jan.,Feb.1946. 389.8 F93

A study of Ohio locker-plant operations dealing in part with types of ownership, plant size, slaughtering and processing rates, locker-rental charges, utilization and frequency of trips, distances traveled by patrons, and the effect of home-freezer units upon these plants.

1315. SHERMAN, R. W. Ohio cold storage locker plants. Ohio Agr. Expt. Sta. Bimon. B. 30(232):34-35. Jan./Feb.1945. 100 Oh3S

The growth of the industry in this State, slaughtering service, and the effect of meat rationing upon locker use.

1316. SMITH, F. C. The cold storage locker business. Ill. Agr. Col. Ext. Cold Storage Locker Conf. 1939:47-50. 275.29 IL62Pah no. 851

The development of the industry in this country, variations in investment costs per locker, plant location, meat-processing services and fees, marking packages, and selling the locker idea to the public.

1317. SMITH, MRS. J. What the rural housewife thinks of locker service, and her recommendations. Natl. Frozen Food Locker Assoc. Proc. 6:21-23. 1944. 295.9 N216

Improvements in sanitary conditions, meat processing, and meat-wrapping materials are among the recommendations.

1318. SMITH, L. J. Cold storage investigations. Wash. Agr. Expt. Sta. B. 384:11-12. Dec.1939. 100 W27E

Results of studies of the operation of community locker-type cold storage plants used chiefly for meat storage.

1319. SPENCER, E. G. The future of services. Quick Frozen Foods 10(2):125-126. Sept.1947. 389.8 Q4

Mentions additional services, the hiring of better employees and the training of present ones, more aggressive sales efforts, sanitation, and the use of good wrapping materials and techniques as factors essential to successful locker-plant operation in the future.

1320. STRAUS, S. F. Virginia's food locker industry. Commonwealth 17(1):19,31. Jan.1950. 280.8 C732

An account of the development and size of the industry in this State, and of the services offered. A list of frozen food plants is given.

1321. THIESSEN, E. J. Wyoming locker plants double capacity in five-year period. *Quick Frozen Foods* 12(12):123-124. July 1950. 389.8 Q4

Summarizes the results of a questionnaire survey with reference to the size of the industry in this State in 1950 as compared with 1945, the increase in the number of lockers, the percentage of lockers rented, locker-rental rates, meat-wrapping materials, and the curing and smoking of meats.

1322. TRESSLER, D. K., and EVERS, C. F. The freezing preservation of foods. 2nd ed., rev. and enl. New York, Avi, 1947. 932 p. Ref. 389.3 T72

Ch. 6, Frozen food locker plants, includes the growth in the number of plants by States, legal regulations, types of locker plants, the size and number of lockers, the average amount of beef and pork frozen per locker, the economics of locker-plant operation, processing and other charges, and affiliated ownership. Ch. 15, The preparation and freezing of meat, discusses the classification of meat, inspection, slaughtering, butchering, cooling and aging, cutting, freezing, and packing.

1323. TRESSLER, D. K. What's ahead for frozen foods? *Advertising & Selling* 38(1):39,152,154,156. Jan.1945. 238.28 Ad93

On the development of the frozen-food locker industry in this country; locker rentals; services such as slaughtering, butchering, meat chilling and aging, cutting, packaging and freezing, and the curing of hams and bacon; advantages of locker plants over home freezers, and the dependence of the latter upon the former.

1324. TURNER, H. Freezer lockers in Georgia. *Locker Operator* 5(8):14-15. Mar.1944. 295.8 L79

Refers to the two types of locker plants in operation in this State as being those owned and operated by local school boards on an educational nonprofit basis, and those operated commercially in connection with ice plants or meat-curing plants. Lists meat-processing service charges.

1325. U. S. BUREAU OF RECLAMATION. Agricultural processing industries; Columbia Basin joint investigations, problem 24. Washington, 1945. 120 p. 156.84 C72

A report the purpose of which is to suggest means of establishing a highly efficient marketing and processing industry for each of the major agricultural products. Ch. 6, Frozen food locker plants, deals in part with meat-processing services and charges therefor, locker rentals, and advantages and disadvantages of lockers to patrons.

1326. U. S. EXTENSION SERV: Freezer lockers; excerpts from 1939 annual reports of State and county Extension agents. Washington, 1941. 29 p. 1.913 S2F87

Meat-processing services and charges, and customer reactions are among the subjects discussed.

1327. U. S. EXTENSION SERV. Frozen food locker plants in the United States, thirteenth annual count, July 1950. Washington, 1950. 1 p. 1.913 N3F93

Also earlier editions.

Listing by States, with grand totals for the United States for individual years, 1938-50, inclusive.

1328. USE OF cold storage lockers rapidly expanding in Utah. *Farm & Home Sci.* 1(3):12. Sept.1940. 100 Ut1F

The growth of the industry, meat services, and advantages in the use of these lockers for meat.

1329. WARD, G. H. Freezer locker plant economics. *Va. Farm Econ.* 104:1142-1145. Nov.1947. 275.29 V813

Compares operating results of plants constructed in Virginia prior

to World War II with those of plants built in this State during and since the War, and makes recommendations on the purchase and slaughter of animals and the processing of meat for patrons with a view to increasing processing income.

1330. WARD, G. H. Frozen food locker storage plants in Virginia. Va. Farm Econ. 63:853-855;64:857-858. June, July 1944. 275.29 V813

The development of the industry in this State, qualifications for securing priorities for a locker plant during World War II, patron preference as to the size of lockers, locker-rental charges, slaughter and meat-processing services and fees, and experience in the Middle West with the use of home-freezer units as supplements to locker plants.

1331. WARNER, K. F. Cold storage lockers. New Eng. Inst. Coop. Proc. 10:3-4. 1937. 280.29 N44

A discussion of the nature, cost and size of locker plants, ownership, affiliated use, meat slaughtering and processing facilities, rentals and service charges, types of patronage, and advantages to farm families using lockers.

1332. WARNER, K. F. Cold storage lockers for preserving farm-dressed meat. U. S. Bur. Anim. Indus. A. H. D. 16, rev., 19 p. Sept. 1941. 1.9 An52Ah rev.

Similar title in Penn State Farmer (n. s.)3:230-231, 258. May 1938. 276.8 P38

On the advantages and disadvantages of locker use; sanitation; rentals and service charges; and the preparation of meat for locker storage, including selection, dressing, chilling, aging chilled meat, cutting, wrapping, labeling, and freezing chilled meat.

1333. WARNER, K. F. Current trends in the frozen food locker industry. Locker Operator 6(6):22,36-37. Jan. 1945. 295.8 L79

The growth of the industry, meat-processing services and charges, locker rentals, and the use of locker-plant facilities by owners of home-freezer units.

1334. WARNER, K. F. Freezer lockers and the farmer. Frozen Food Lockers Conf. 1940:3-8. 295.9 F93

Bacteria, molds, and yeasts; the effect of enzymes; oxidation; freezer burn; the desirability of rapid freezing of meat; the length of storage time; planning the farm family food supply; the preparation and processing of meat for locker storage; and the importance of locker-plant sanitation.

1335. WARNER, K. F. Increase of 628 plants reported in 12th annual locker count. Quick Frozen Foods 12(3):100. Oct. 1949. 389.8 Q4

Notes trends, and gives a tabulation of locker plants as of July 1949.

1336. WARNER, K. F., and DUMARS, M. L. Meat and poultry products in freezer lockers. Washington, 1943. 2 p. 1.913 A2R11 Aug. 23, 1943.

Broadcast, National Farm and Home Hour, Aug. 23, 1943.

In connection with the rationing of meat, deals with planning of slaughter to meet family requirements, and with trimmed cuts percentages from steers, calves, lambs, and hogs, as worked out by the U. S. Bureau of Animal Industry.

1337. WARNER, K. F. Meat dividends to the consumer via the locker plant. Quick Frozen Foods 3(1):20,44. Aug. 1940. 389.8 Q4

The growth and size of the industry, affiliated ownership, the relationship of the industry to meat retailing, advantages and disadvantages in the use of lockers, and services offered.

1338. WARNER, K. F. Storage locker service expands. Agr. Situation 22(6):20. June 1938. 1 Ec7Ag

On the development of the locker-plant industry in this country; meat services such as slaughtering, aging, chilling, wrapping, freezing and storage, and lard rendering; locker rentals and fees from special

services; and the percentage of village and city patrons, as compared with farm patrons, using lockers.

1339. WARRINGTON, S. T. Freezer lock system expands. Agr. Situation 25(4):12-14. Apr. 1941. 1 Ec7Ag

This summary of the results of a survey made by the Cooperative Research and Service Division of the U. S. Farm Credit Administration discusses the growth of the industry; type of ownership (individual, commercial corporation, partnership, and cooperative); general location of plants; reasons for the rapid expansion of the industry; savings to patrons using meat services; rental rates; and charges for slaughtering, chilling, cutting, grinding, wrapping, freezing, curing and smoking meat.

1340. WARRINGTON, S. T. Frozen food locker plants in the United States [January 1, 1940]. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 24, 26 p. Oct. 1940. 166.3 M68

Based on information in 1,200 questionnaires, this report analyzes plant capacity and percentage of lockers rented; the number of frozen food locker plants, average capacity, and percentage of capacity rented by affiliation and year opened; town patronage of plants by location, size of town, and age of plants; locker-rental rates; charges for cutting, wrapping, and freezing meats; and miscellaneous service charges such as livestock slaughter, grinding, curing, and smoking meats, seasoning and packing sausage, and rendering lard.

1341. WARRINGTON, S. T. Frozen food locker plants in the United States, January 1, 1941. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 41, 48 p. Dec. 1941. 166.3 M68

Subjects discussed include an analysis of locker plant capacity and rentals; farm and nonfarm patronage; size of towns in which plants are located; processing services; locker rental and processing rates; volume of pork cured and of sales of beef and pork; branch locker-room operation; and competition from other plants and from home frozen storage units.

1342. WARRINGTON, S. T., and WILKINS, P. C. Frozen food locker plants; location, capacity, rates, and use, January 1, 1943. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 81, 45 p. Mar. 1945. 166.3 M68

Topics include reasons for the rapid rise of interest in locker plants; an analysis of locker-plant capacity and rentals by affiliation and by ownership; farm and nonfarm patronage of locker plants; locations of plants reporting; meat slaughtering and processing services provided; locker-rental and processing rates; pounds of beef and pork processed and stored, and of pork cured, per locker rented, 1942; and pounds of packers' beef and pork sold per locker rented, 1942.

1343. WARRINGTON, S. T. Frozen food lockers--on the farm? News Farmer Coop. 7(2):5-6. May 1940. 166.2 N47

Deals in part with the development of the industry, types of ownership, meat-processing services, and advantages and disadvantages of locker plants as compared with individual freezer units on farms.

1344. WARRINGTON, S. T. Government looks at the locker plant's place in the war picture. Quick Frozen Foods 4(11):21, 28. June 1942. 389.8 Q4

Notes the industry's part in saving metal, transportation, rubber tires, labor, and terminal storage capacity, and proposes an 8-point program whereby locker operators can make their greatest contribution to the war effort.

1345. WARRINGTON, S. T. Local food processing and frozen food storage--its contribution to the war food program. Quick Frozen Foods 6(3):44;(4):53, 65. Oct., Nov. 1943. 389.8 Q4

Also in Ice & Refrig. 105:245-246. Nov. 1943. 295.8 Ic2

On the size of the industry in this country, the average number of

lockers per plant, the average number of families served per plant, and advantages in (1) savings over purchase from conventional channels, (2) the elimination of waste and spoilage, (3) the saving in man-power and materials, and (4) the encouragement of food production by families.

1346. WARRINGTON, S. T. The locker survey for 1941-42. Natl. Frozen Food Locker Assoc. Proc. 4:45-47. 1942. 295.9 N216

An analysis of this survey, and an informal, direct discussion with locker-plant operators concerning their problems.

1347. WARRINGTON, S. T. Operating problems of cold storage locker plants. Amer. Coop. 15:496-508. 1939. 280.29 Am3A

The growth of the industry in Minnesota; a comparison of the advantages of these plants to rural and urban patrons; percentage of Minnesota locker plants cooperatively owned; percentage of smaller city and village patrons using lockers; number of farmer patrons; rentals; meat-processing services and charges therefor; and the problem of labor and management in cooperative plants in this State.

1348. WARRINGTON, S. T. Safe-deposit boxes for farm products. U. S. Agr. Mktg. Serv. Mktg. Activ. 4(2):13-16. Feb.1941. 1.942 A8M34

The development of the movement; type of ownership; meat services such as slaughtering, chilling, cutting, wrapping, grinding, sharp freezing, curing, smoking, lard rendering, and cold storage; charges for miscellaneous services; rentals; and possible savings over purchase of meat at retail.

1349. WARRINGTON, S. T. The wartime role of the co-op locker plant. News Farmer Coop. 9(5):6-7. Oct.1942. 166.2 N47

Included among specific recommendations for contributions to the war effort are trimming pork more carefully in order to save the lard that might otherwise be wasted in cooking, discouraging the practice of patrons' storing cured pork in their lockers, and serving the local meat market if the locker plant has sanitary slaughtering facilities and surplus chilling and beef-aging capacity.

1350. WHITACRE, W. R. Facilities and services of Pennsylvania freezer-locker plants. Pa. Agr. Expt. Sta. B. 433,13 p. Nov.1942. 100 P381

On the growth and size of the industry in this State, meat cutting and wrapping services, and the quantity of meat stored by the average farm family in 1940.

1351. WHO USES lockers and why. Quick Frozen Foods 5(5):38,42. Dec.1942. 389.8 Q4

Summarizes the results of a survey made by the Pennsylvania Agricultural Experiment Station with respect to the growth of the industry in this State, the services offered, the location of lockers and the importance of the locker plant as a market outlet for farm products, types of locker patrons, the kinds of service they prefer, and the amount of food, including beef, pork, veal and lamb, stored by 28 farm and 28 urban families, 1940.

1352. WILLS, W. J., and ASHBY, R. C. Frozen food storage facilities used by Illinois families; an economic analysis of some trends and problems in the use of lockers and home units. Ill. Agr. Expt. Sta. B. 535:435-463. Jan.1950. 100 IL6S

Services provided by locker plants in handling meat (including slaughtering, processing, and selling), margins on meat bought for resale to customers, the amount of meat stored in lockers, 1947, and possible effects of frozen storage on livestock markets.

1353. WILSON, F. R. The economic value of the locker industry to the consumer. Locker Operator 5(4):14-15,34,38. Nov.1943. 295.8 L79

Notes that the locker system encourages more intensive use of existing land, makes possible the elimination of waste when seasonal production outruns the demand, operates to obtain for the farmer a larger proportion of the consumer's dollar and at the same time cheapens food to the consumer, and overcomes a principal marketing problem in that it frees the small operator from waste and from forced selling.

1354. WOODROOF, J. G. Foods suitable for freezing preservation; freezing locker plants. Ga. Agr. Expt. Sta. B. 212,34 p. June 1941. Ref. 100 G29S

A report dealing in part with meat, and with locker services related thereto. A table on p. 3 gives the amount of frozen meat in storage, United States, 1936-41, and the quantity of meat frozen in Georgia in 1940.

1355. WYNNE, G. Frozen food lockers. New York, Occupational Index, 1945. 6 p. Ref. 295 W99

Occupational Abstract 86.

Summarizes available literature on postwar prospects, plant services offered, qualifications of the successful manager, sanitary requirements, the number and distribution of plants, and earnings.

1356. ZIEGLER, P. T. The meat we eat. 2nd ed. Danville, Ill., Interstate Printers and Publishers, 1949. 499 p., 389 Z6 Ed. 2

Partial contents: Federal and State meat inspection; hog, cattle, lamb, and veal and calf slaughter; cold storage and refrigerated food lockers; and Federal meat grading.

Canada

1357. LANCTOT, J. B. Some facts on the quick freezing of food. Marit. Co-op. 14(20):4. Oct.15,1946. 280.28 M33

Processing services offered by, and economic advantages of, community-owned lockers, and the need for greater development of these plants in Canada.

1358. MCCALLUM, D. H. Alberta's locker industry, 1946. Locker Operator 8(10):28,91-93. Apr.1947. 295.8 L79

Topics include the growth of the locker industry in this Province, inspection, and sanitation.

1359. MANITOBA. POWER COMMISSION. Cold storage lockers. Winnipeg, Manitoba Power Comn.,1941. 36 p. 295 M312

Subjects discussed include services rendered, the advantages of lockers compared to farm processing; advantages of purchase over retail prices; analysis of investment, operating costs and income of storage plants in the United States; and the preparation of meats for freezing.

Denmark

1360. HERTEL, N. Denmark welcomes locker industry. Locker Operator 8(8):34,60,62-63. Mar.1947. 295.8 L79

Discusses the growth of the industry in Denmark since its establishment in 1943; patron reaction; the general location of plants; the distance of patrons from plants; meat-freezing services; the size of individual lockers and of locker plants; and affiliations. Numerous comparisons with American plants are made.

United Kingdom

1361. HARRISON, E. W., and GILLING, A. T. Cold storage "on tap". Farmers Wkl. [London] 26(14):39. Apr.18,1947. 10 F2226

Rental fees and meat-processing services at Britain's first quick-freeze locker plant, Wisbech, Cambridgeshire.

Organization and Operation

General

United States

1362. BAKER, L. N. Establishing and operating community refrigeration plants. Amer. Coop. 17:485-493. 1941. pub. 1942. 280.29 Am3A

Notes three general types of freezer-locker plants:(1) complete-service plants providing complete processing services as well as refrigeration facilities; (2) partial-service plants providing chilling, aging, quick-freezing and locker services; and (3) community-service plants equipped with chilling and aging room, quick freezer, and lockers, and providing work room and equipment for the use of patrons preparing their own products. Discusses the advantages of freezer-locker plants.

1363. BAUDER, K. J. What frozen foods mean to us. Quick Frozen Foods 10(8):193. Mar.1948. 389.8 Q4

Based on findings made on a personal visit to numerous locker plants throughout the country, this article deals in part with the locker plant as a one-stop shopping center where patrons can buy all the different kinds of food they require, and with the need for more salesmanship and for more meat services.

1364. BULL, S. The future of meat in the locker plant. Quick Frozen Foods 10(2):124-125. Sept.1947. 389.8 Q4

Makes the following suggestions as measures for successful operation: A campaign of education to inform customers as to the amount of cut meat obtained from a carcass or a quarter; greater care in the locker plant to prevent mixing the cuts of different patrons; honesty with respect to price and grade in the sale of meat; the use of a good grade of wrapping paper with proper wrapping techniques; the boning of meats before packaging; observance of the principles of sanitation; provision of complete processing services; and courtesy in dealings with patrons.

1365. BURROUGHS, F. S. Coaxing new locker customers with sales service and variety. Frosted Food Field 4(5):4-5. May 1947. 389.8 F922

One recommendation designed to help locker-plant owners who are dissatisfied with the average food turnover in their plants' lockers is for more complete meat-cutting services.

1366. BURROUGHS, F. S. Merchandising--key to locker profits. Quick Frozen Foods 8(4):122-123,152. Nov.1945. 389.8 Q4

An account of Vita-Frost Food Lockers, Inc., Newton, N. J., which added to its locker operations the sale and distribution of frozen foods, and the preparation in its own kitchen of "Sussex Squire" lamb stew and spaghetti sauce, these products serving as a medium for disposing of slow-selling meat cuts.

1367. CARLTON, H. The freezer locker plant is going commercial. Food Indus. 18:1542-1544,1672,1674,1676. Oct.1946. 389.8 F737

Discusses plans of a number of locker-plant operators in the Southeastern States for the expansion of their plants and operations to include meat curing, packaging and freezing.

1368. CARVER, W. Frozen food locker plants in Iowa. Iowa Agr. Ybk. 43:68-70. 1942,pub.1943. 2 Io9R

Reprinted in Iowa. Dept. Agr. Dairy and Food Div. Annu. Rpt. (1942) 56:51-53. (B. 94-C) 2 Io9B

On the growth of the industry in this State during 1942, the tonnage of meat handled by these plants for the same year, and facilities for meat processing.

1369. COCHRAN, R. Lockers need extra services--rents not enough Food Indus. 21:920-922. July 1949. 389.8 F737

On the advisability of extending services to include processing meat, selling frozen foods, home freezers and packaging materials, and delivery service.

1370. FENN, F. U. Grading meat carcasses. Natl. Frozen Food Locker Assoc. Proc. 2:19-28. 1940. 295.9 N216

The interrelationship of the livestock, meat, refrigerator and locker businesses; recommended locker-plant procedure for meat processing; grading; and the necessity for telling locker patrons the truth about the quality of meats.

1371. GUEST, W. E. Refrigerated locker plant manual. Chicago, Nickerson & Collins, 1939. 142 p. Ref. Libr. Cong.

Topics include judging, processing, quick freezing and storing meat, and public relations, including advertising.

1372. MANN, L. B. Organizing a refrigerated food locker association. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 20, rev., 34 p. Oct. 1945. 166.3 M68

Suggestions for organization procedure, and proposed forms for organization documents.

1373. NEW YORK STATE FROZEN FOOD LOCKER ASSOCIATION. Standard practice manual for frozen food locker plants. Fort Plain, 1946. 29 p. Ref. 295 N482

A ready reference guide prepared for the use of locker-plant employees.

1374. PAUL, J. W. Plant layout and operation. Frozen Food Conf. Proc. 3:7-9. 1947. 389.9 F93

Meat-processing services are included.

1375. PLANNING a locker plant for the Southeast. Tenn. Agr. Col. Ext. P. 294, 35 p. Mar. 1946. 275.29 T25

Topics include meat-processing services and facilities, sanitation, and a statement of estimated income and expense for the annual operation of a locker plant having 500 lockers.

1376. REDEKER, P. B. Refrigerated locker storage. Detroit, Business News Pub. Co., 1939. 112 p. 295 R242

This summary of practices in use by successful locker-plant operators deals in part with meat processing, and with merchandising and promotion.

1377. SCOBEL, S., WISHART, S., and WYCOFF, E. Merchandising through locker plants. Frozen Food Indus. 4(1):12-13, 21, 28-29. Jan. 1948. 389.8 F93

Notes a steady gain in the purchasing of wholesale cuts of meat by the locker-plant operator for his customers, and discusses advantages to patrons in this plan, and the effect of home-freezer units on the industry.

1378. SEARLS, E. N. Standards for cold storage plants. Ill. Farm Econ. 59:338-340. Apr. 1940. 275.28 IL5

Based on a study of four cold-storage locker plants in northwestern Illinois and on observations of others in this State, this article notes that the factors to be considered in planning for the successful operation of a locker plant are location, investment, operating income in relation to current expenses, and management, and discusses proposed standards for these four factors.

1379. STEADY addition of new services attracts new, holds old patrons. Quick Frozen Foods 12(3):98, 104. Oct. 1949. 389.8 Q4

Meat-purchasing services of the Alderson Food Lockers, Alderson, W. Va., for its patrons.

1380. SWITZER, D. Loss of packages from lockers still a pesky problem. Quick Frozen Foods 12(9):117. Apr. 1950. 389.8 Q4

Claims that many operators are using outmoded management systems, and points out the need for simplification of procedures, improvement in techniques, and the prevention of possible causes of friction and complaint.

1381. TERREL, C. L. Competition--how to meet it. *Quick Frozen Foods* 9(3):143-144. Oct.1946. 389.8 Q4

Discusses competitive developments within the locker-plant industry with respect to locker-rental rates, and outside the industry as regards chain store locker-rental competition, meat packers' frozen meat sales competition, reduced farmers' trade through mass distribution of farm freezers, and the widespread introduction into urban homes of frozen-food storage facilities. Recommendations include the establishment of branch lockers, more complete processing equipment and service at the central processing plant, local frozen-food storage and distribution, and the sale of home-freezer cabinets.

1382. TODOROFF, A. How to build and operate a locker plant. Rev. and enl. ed. St. Louis, Meat Merchandising, 1946. 320 p. 295 T56 1946

Ch. 5, Branch locker plants; Ch. 6, Processing meat and poultry; Ch. 8, Packaging foods for freezing; Ch. 9, Slaughtering, curing, smoking, and lard rendering; Ch. 13, Advertising and sales promotion

1383. TURNER, H. Establishing and operating freezer locker plants. *Ga. U. B.* 45(23),27 p. June 1945. 295 T85

Among the subjects discussed are types of plants operating in Georgia, and services offered; the cost of establishing a plant; the kind and cost of equipment needed; the cost of plant operation; charges for services; possible profits to the operator; sources of capital for financing plants; and the effect of the use of home freezers upon locker plants.

1384. WALKER, V. R. The need for organization. *Natl. Frozen Food Locker Assoc. Proc.* 6:29-37. 1944. 295.9 N216

On the necessity for organization in the frozen-food locker industry as a means of surviving new developments and competition.

1385. WARNER, K. F. Frozen food locker industry in the farm community. In Brown, H. D., ed. *Frozen foods, processing and handling*, p. 353-356. Columbus, 1946. 389.3 B812

The importance of planning and adapting the services of the locker plant to the needs of the community in which it is to be located, and the advantages to the farm family in the use of frozen-food lockers.

1386. WARRINGTON, S. T. Assuring efficiency in locker and curing plants. *News Farmer Coop.* 8(12):12-14. Mar.1942. 166.2 N47

Major reasons for the growth of this industry, factors determining the efficiency of plants, and rental and meat-processing charges are among the subjects discussed.

1387. WARRINGTON, S. T. Making the locker and curing plant more efficient. *Amer. Coop.* 17:465-474. 1941. pub. 1942. 280.29 Am3A

Locker plants as wartime aids in the elimination of unnecessary railroad and truck transportation; advantages of lockers to the farmer patron; important factors determining efficiency; the importance of measuring potential patron demand for locker service, and of planning the correct type of plant and the proper layout of rooms with reference to processing services; and the feasibility of small branch-locker rooms to be serviced from the central processing unit.

1388. WARRINGTON, S. T. Management and operating problems of cold storage locker plants. *Frozen Food Lockers Conf.* 1940:18-20. 295.9 F93

Based on a survey of locker plants in various States, this summary notes lower investment and overhead costs in the larger plants, and the need for low overhead costs per locker and for a high percentage of locker capacity rented, and lists management considerations made by successful operators.

1389. WELLIVER, W. Merchandising possibilities in the cold storage locker industry. Ill. Agr. Col. Ext. Cold Storage Locker Conf.:9-13. 1939. Urbana. 275.29 IL62Pah no. 851

Discusses organizing meat-cutting demonstrations, the sale of Government-graded beef and lamb to urban patrons, weekly delivery service, and wrapping papers and methods.

1390. WITTE, J. W. Merchandising as it applies to food-locker service. In Brown, H. D., ed. Frozen foods, processing and handling, p. 375-382. Columbus, 1946. 389.3 B812

Discusses the importance of accepting only that meat which is in good condition upon arrival at the locker plant, the proper aging of meat, salesmanship, personal characteristics of the plant operator, and standards of efficiency in processing and handling meat.

Educational and Advertising Programs

United States

1391. GRANT, C. Advertising for the locker plant. Guide Book Frozen Food Locker Indus. 1946/47:118-119,127,130. 295.8 L79

Recommends certain basic principles for locker-plant operators to follow, and discusses principal abuses.

1392. HILDER, M. H. A locker plant operator advises his patrons. Quick Frozen Foods 7(9):83-94. Apr.1945. 389.8 Q4

Topics include advantages of the use of lockers to patrons, procedure for handling meats, locker services, and meat-wrapping materials and techniques.

1393. MCCANDLISH, F. I. Advertising plan for locker plants. Natl. Frozen Food Locker Assoc. Proc. 6:10-13. 1944. 295.9 N216

Recommends, and discusses the details of, a twofold advertising procedure involving the use of posters in the locker plant, and the publication of a magazine for the sole use of the locker-plant industry to be mailed to individuals on the basis of a mailing list supplied by locker-plant owners.

1394. VALENTINE, D. How to be your own public relations man. Quick Frozen Foods 10(2):132. Sept.1947. 389.8 Q4

As a means of increasing the business of locker plants, especially in smaller communities, recommends a bit of indirect advertising by way of the insertion in local newspapers of interesting news items written by the local locker-plant operator concerning some aspect of the locker industry, with possibly a reference to his own community.

As a Side Line

United States

1395. HOPPE, J. L. How storage locker units in rural retail meat markets can increase retailers' profits. Meat Merchandising 14(1):28-29. Jan.1938. 286.85 M462

Suggests that meat be bought at low prices and stored in locker plants by retailers until the market rises, and that small locker-storage plants be installed in the rear of their stores or in separate buildings for operation as a side line business.

1396. JAFFE, S. Frozen food lockers in apartment houses. Quick Frozen Foods 8(5):128-130. Dec.1945. 389.8 Q4

Discusses plans and developments in Chicago, New York City, Cleveland, and Los Angeles. Notes the integration of the plan with a systematic delivery system or a mail order system to afford the locker owner a variety of frozen foods at no greater price than that charged at the local shopping center.

1397. LOCKER plant is life-saver for rural meat market. Meat Merchandising 19(7):52-57. July 1943. 286.85 M462

The operation of the Hinman Locker Plant in conjunction with Hinman's Market in Gowrie, Iowa. Locker rentals and slaughter and meat-processing services, with charges, are given.

1398. MANDT, P. H. A study of cold storage lockers in Iowa creameries. Natl. Butter & Cheese J. 29(8):10-12,14,16,18. Apr.25,1938. 286.85 B98Bu

Notes reasons why these lockers make a profitable side line for creameries, and discusses their meat-processing services, patron reaction, and the nature and operation of a number of plants personally visited.

1399. MITCHELL, T. Community refrigeration centers give breakdown of sources of income. Refrigeration 91(3):6. Jan.30,1950. 295.8 Ic23

Summarizes the results of a survey of six of these centers, former ice plants which broadened their operations. Slaughtering, meat processing, and other locker services are mentioned.

1400. MITCHELL, T. Opportunities in a community refrigeration center. West. Frozen Foods 6(7):4-5. May 1945. 389.8 W523

Partly on the operation of frozen-food lockers in conjunction with other business of ice-manufacturing companies in Pennsylvania and West Virginia. References are made to meat.

1401. MOSHER, F. D. How an urban locker operates. Quick Frozen Foods 6(7):51,56. Feb.1944. 389.8 Q4

Features of the operation of the Gilbert F. Spath Frozen Food Locker Plant, Erie, Pa., a side line to the owner's ice cream manufacturing business, as compared with rural plants.

1402. NICHOLS, L. E. Vocational school locker plant. Locker Operator 6(9):22,34-35. Apr.1945. 295.8 L79

An account of the Clarksville Community Freezer Locker Plant, Clarksville, Ga., dealing in part with slaughter, meat-processing services, and the amount of meat processed from Nov.1,1943 to Nov.1, 1944.

1403. O'BRIEN, J. E. How consumer lockers help this rural store succeed. Prog. Grocer 20(8):44-48. Aug.1941. 286.83 P942

This account of the effect of the addition of frozen-food lockers to a grocery store in Earle, Ark., on the operating results of the store discusses meat-processing services and charges, locker rentals, and rules for success in locker-plant operation.

1404. O'BRIEN, J. E. Markets surge ahead in consumer refrigerated food lockers. Prog. Grocer 17(8):30-32,80,84. Aug.1938. 286.83 P942

Based on a survey of frozen-food lockers in the Middle West, this article discusses in part the affiliation of lockers with food markets and other organizations, locker-plant butchering and other meat-processing services, and charges therefor.

1405. RUDOLPH, W. Locker adds groceries to give "one-stop" service. Quick Frozen Foods 7(5):66. Dec.1944. 389.8 Q4

An account of the combined Leonard Niederriter Frosted Food Locker Plant and self-service food market, Erie, Pa.

1406. RUDOLPH, W. Niederriter's locker plant at Erie, Pa., is a four-in-one operation. Locker Operator 7(9):18-19,56-57. Mar.1946. 295.8 L79

The types of merchandising related to the operation of the locker plant are the retailing and wholesaling of frosted foods, the retailing of groceries, and a tie-in with the retailing of home-freezer cabinets. Included in this account of the locker plant is a description of meat-processing services.

1407. WILLIAMS, R. J. Lockers belong to complete food market. Kans. City Grocer 36(9):11. Sept.1949. 286.28 K13

On a locker plant in Lima, Ohio, which is operated in conjunction with a food store. Meat-processing services and percentage of farmer patronage and $\frac{1}{2}$ processing done for farmers are mentioned.

Canada

1408. SPARKMAN, H. C. Locker plant aids sales of meats. Canad. Grocer 62(21):30-31. Nov.1,1948. 286.83 C162

On the operation of Thornewell's Locker Service in Galt, Ontario, in conjunction with a retail food and meat business.

Cooperatives

United States

1409. BUTLER, K. D., and CARNELL, J. Home freezer users demand locker service too. News Farmer Coop. 14(1):5-6. Apr.1947. 166.2 N47

An organized community study known as the "Ithaca Experiment", Tompkins County, N. Y., which pivoted in large part around the Mother Zero Locker Plant, showed that with an increased use of home freezers there came an increased demand for all locker-plant services. Procurement and livestock pick-up services, slaughtering, chilling, aging, processing, packaging, freezing, storing, and lard rendering, and smoking bacon and hams are mentioned.

1410. CARVER, W. Locker plant income and expenses analyzed. Locker Operator 5(5):8-9,22-23,26-30. Dec.1943. 295.8 L79

A survey of 45 Illinois cooperative locker plants for the fiscal year ending July 31,1943. Includes pounds of meat processed per locker occupied.

1411. CORNWALL, M. A Vermont Senator spurred freezers. Co-operator 10(20):4. Sept.29,1947. 280.28 C7852

On the establishment and progress of the Middlebury Cooperative Freeze Locker. Brief mention of meat processing.

1412. FLEDDERJOHN, H. Cooperative frozen food locker is successful. Hoosier Farmer 30(9):8,16. Sept.1945. 280.82 H76

On the organization and operation of the Manchester Cooperatives Frozen Food Locker, Wabash County, Ind. Brief mention is made of meat.

1413. GOUGLER, F. A. Plan slaughter service with new locker plants. Frozen Food Indus. 3(10):12-13,37. Oct.1947. 389.8 F93

On this development among cooperative locker plants in Illinois. Reference is likewise made to plans for the concentration of the complete meat-servicing operation in one central plant, with distribution of the processed meat to branch locker-storage plants.

1414. HARTMAN, G. G. Mother Zero progresses. Locker Operator 8(11):20-22,79-81. May 1947. 295.8 L79

The Mother Zero Locker Plant located at Ithaca, and owned by the Cooperative Grange League Federation. Discussed are custom slaughtering, animal pick-up service, meat shrinkage, meat-procurement service, packaging materials, the marking of packages, and storage.

1415. LOVELL, F. S. A New England locker plant as a patron sees it. Locker Operator 6(8):12-13,62-63. Mar.1945. 295.8 L79

This account of the operation of the Bellows Falls [Vt.] Locker Plant tells of the cooperative basis on which the plant is run, the amount of meat processed, and the program of education by which the

directors keep the public informed of the advantages of locker freezing
 1416. MCLEOD, A. N., and DARRAH, L. B. Characteristics of patrons and use of locker plants. N. Y. Agr. Col. Farm Econ. 159:4117-4121. Mar.1948. 280.8 C812

Data include the amount of meat processed per patron by place of residence, Mother Zero Locker Plant, Ithaca, 1945-46. This study concludes that patrons with home-freezing units tend to process more food than those without; that farm patrons tend to process more food than rural nonfarm and urban groups; and that distance from the plant has appreciable effect on the amount of meat processed per patron. Suggestions are offered with a view to increasing the volume of processing per patron.

1417. MCLEOD, A. N., and DARRAH, L. B. Locker plants and home-freezing units. N. Y. Agr. Col. Farm Econ. 159:4125-4129. Mar.1948. 280.8 C812

Summarizes results of a two-year study of the Mother Zero Locker Plant, Ithaca, whose services numbered slaughtering and pick-up of animals to be slaughtered, chilling, aging, cutting, grinding, wrapping, and freezing of meat; curing and smoking of pork; sausage making; and lard rendering. Included is a discussion of home units and the amount of meat processed.

1418. MCLEOD, A. N., and DARRAH, L. B. Seasonal variation in the processing business. N. Y. Agr. Col. Farm Econ. 159:4129-4132. Mar.1948. 280.8 C812

Based on a study of the food processed at the Mother Zero Locker Plant in Ithaca, this summary deals in part with the seasonality of red meat, which constitutes the largest portion of the food processed at this plant during the year.

1419. MCLEOD, N. Patrons of freezer-locker plants. N. Y. Agr. Col. Farm Econ. 157:4074-4076. Oct.1947. 280.8 C812

Partial contents:Percent of the processing volume of beef, pork, veal and lamb for locker and nonlocker patrons, and volume of meat processed per locker patron with and without home freezer units, Mar. 1,1945-Feb.28,1947, at the Mother Zero Locker Plant, Ithaca.

1420. MANN, L. B., and WILKINS, P. C. Cooperative frozen food locker associations. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 116,36 p. Apr.1948. 166.3 M68

A study the purpose of which was to ascertain the number, location, organization, patronage, services rendered, capacity, rates and charges, volume processed, investment in facilities, number of employees, and receipts, expense, and savings made by these plants in the United States. Average locker-rental rate, and rate charged to cut, wrap, freeze, and grind meat, by regions, July 1,1947,p.20. Average pounds of beef and pork processed per locker rented, by regions, 1946-47, p. 21.

1421. MANN, L. B., and WILKINS, P. C. Illini locker receipts up but have more expense. News Farmer Coop. 15(5):6,20. Aug.1948. 166.2 N47

Based on a U. S. Farm Credit Administration analysis of the operations of lockers organized into the Illinois Locker Service, Chicago, this summary deals in part with facilities for slaughtering, chilling, aging, cutting, wrapping, freezing, curing and smoking, and lard rendering, and with locker and processing rates.

1422. MANN, L. B. Locker plants grow up. News Farmer Coop. 12 (10):13. Jan.1946. 166.2 N47

The development of the industry; the percentage of lockers operating on a cooperative basis; cooperative locker-plant services; and the trend toward centralized slaughtering and processing in a few regional plants in Illinois, with servicing of branch lockers through these

regional plants.

1423. MANN, L. B. New cooperative locker plant developments. Amer. Coop. 18:833-837. 1946. pub. 1947. 280.29 Am3A

Subjects discussed include types of locker-plant ownership; percentage of plants cooperatively owned; the function of central processing and branch plants; and services required of the successful locker plant.

1424. MANN, L. B. A new field for cooperative enterprise. News Farmer Coop.4(11):13. Feb.1938. 166.2 N47

Discusses briefly the expansion of the cold-storage locker movement, types of ownership, and the effect of the industry upon the consumption of fresh meat.

1425. MANN, L. B., FOX, R. L., and WILKINS, P. C. Processing by frozen food locker cooperatives. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt.129,48 p. Mar.1949. 166.3 M68

Topics include slaughter facilities; source of livestock slaughtered; volume of livestock slaughtered and processed; slaughter, processing, and locker-rental rates; slaughtering and processing techniques; sanitation; and receipts, expenses, and net savings.

1426. MANN, L. B. Processing ups savings when properly done. News Farmer Coop. 15(13),i.e.,16(1):8-9,16. Apr.1949. 166.2 N47

Summarizes the results of a survey made during the spring, fall and winter of 1948, when 70 cooperative locker associations were visited. Slaughtering and meat-processing services and charges are included.

1427. MANN, L. B. Refrigerated food lockers; a new cooperative service. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. C. 107, rev.,31 p. Sept.1940. Ref. 166.2 C4923

Discusses: the rise of the movement; types of ownership; organizing and financing a cooperative locker plant; limited and complete-service plants; operating costs; service charges and income; inspection and sanitary requirements; volume of business from farm and town patrons; advantages and disadvantages to locker-plant users; major changes in the marketing, processing, and distribution of livestock and meats; and possibilities for future development of locker plants.

1428. MANN, L. B., and WILKINS, P. C. Services and volume--keys to locker savings. News Farmer Coop. 15(1):8-9,22. Apr.1948. 166.2 N47

This summary of the results of a survey of some 900 cooperative locker plants made by the U. S. Farm Credit Administration deals in part with the expansion and size of the cooperative locker business, merchandising and selling, meat-processing services offered, pounds of beef and pork processed per locker, and locker rentals and processing charges. Numerous comparisons are made with privately-owned plants.

1429. MANN, L. B. A widening field for co-op service. News Farmer Coop. 5(4):15-16. July 1938. 166.2 N47

The development of the cold-storage locker-plant industry, percentage of farm and town patronage, meat-processing services, and suggestions for consideration in planning the establishment of a locker plant.

1430. RAUTH, W., and PAPET, P. Hoosiers are charting the locker plant road to lower cost distribution. Co-op. [Chicago] 1(3):12-14. Mar.1945. 280.28 C7847

Cooperative rural-urban service projects sponsored by Indiana farm bureau groups. Advantages to farmers of cooperative locker service are mentioned, as are meat-processing services offered by cooperative plants.

1431. RINGHAM, F. E. Organizing and financing cold storage locker plants. Amer. Coop. 15:487-495. 1939. 280.29 Am3A

Problems encountered in organizing and financing cooperative plants in Illinois, and observations based on their operating results and experiences.

1432. STANLEY, J. E. Cooperative freezing, curing and storage of meats. Amer. Coop. 17:475-484. 1941. pub. 1942. 280.29 Am3A
Discusses locker-plant problems in Mississippi.

1433. WARRINGTON, S. T. Co-op locker plants--how successful. News Farmer Coop. 7(7):23-25. Oct.1940. 166.2 N47

The size of the locker industry in this country, the estimated number of plants owned cooperatively, the advantages of cooperative ownership, weaknesses in some plants, and suggestions for avoiding errors through good planning. Meat is mentioned.

1434. WARRINGTON, S. T., and WILKINS, P. C. Cooperative frozen-food locker plants. Mod. Farmer 22(1):9,12. Feb.15,1949. 6 M725

The growth of the industry in the United States, meat services offered, and the place of cooperative ownership in this field.

1435. WARRINGTON, S. T., and WILKINS, P. C. Cooperative frozen-food locker plants; organization and operation. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. C. 127,82 p. June 1946. Ref. 166.2 C4923

Includes discussion of growth of the locker industry, planning for cooperative ownership and operation, handling and storage of meats, and certain cooperatives in Minnesota, Mississippi, Texas and Virginia.

1436. WARRINGTON, S. T., and WILKINS, P. C. A cost study in co-op locker operation. News Farmer Coop. 11(4):3,16-18. July 1944. 166.2 N47

Also in Rur. Electrification. 2(3):12-17. Sept.1944. 335.8 R883

This analysis of records on the operation of the Maple Lake Cooperative Processing and Locker Plant, Wright County, Minn., shows that the major sources of earnings in this plant were from locker rentals, slaughtering, curing, smoking, and grinding, and that chilling, cutting, wrapping and freezing were unprofitable at the rate charged.

1437. WARRINGTON, S. T. Low-cost locker service for small communities. News Farmer Coop. 7(12):11,20-23. Mar.1941. 166.2 N47

On the idea, springing from Meeker County, Minn., and adopted by many private and cooperative groups throughout the Midwest, of a centralized processing unit with branch locker-rooms located in small outlying communities as a practical solution to the problem of furnishing complete, modern, and convenient locker service to communities which cannot afford it because of limited volume. Meat-processing services and rates, and advantages of this type of organization are discussed.

1438. WARRINGTON, S. T. Operation of cooperative frozen food locker plants in Illinois; an analysis of investment, operating cost, and income. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Spec. Rpt. 77,38 p. Jan.1941. 166.2 Sp3

A study made at the request of the Illinois Cooperative Locker Assoc. for the purpose of providing the plants with measures of their efficiency and effectiveness for use in improving their operations.

1439. WARRINGTON, S. T., and WILKINS, P. C. A report on co-op locker plant costs. Locker Operator 6(2):30-31,40,42,62. Sept.1944. 295.8 L79

Operating costs of the Maple Lake [Minn.] Cooperative Processing and Locker Plant.

1440. WARRINGTON, S. T. A survey of the frozen food locker industry in the United States. Amer. Coop. 16:644-655. 1940. 280.29 Am3A

The development and size of the industry; rentals; meat-processing services and charges; types of enterprise with which cooperative lockers have been affiliated; and reasons why cooperative lockers should set the pace for private enterprise.

1441. WHITE, J. M. A locker plant that succeeded. *Farm & Ranch* 67(5):16-17. May 1948. 6 T31

The organization, operation and growth of a cooperative freezer-locker plant at Mangum, Greer County, Okla., with references to slaughtering, smoking, curing, and freezing services, and to the amount of ham and bacon processed in 1946.

1442. WILKINS, P. C. Cooperative frozen food locker associations in Illinois, 1945. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 94,34 p. Jan.1946. 166.3 M68

A report made at the request of the Illinois Cooperative Locker Service, and based on an analysis of the business of 25 cooperative locker associations in this State. Volume of meat and poultry processed, p.20,22-23.

1443. WILKINS, P. C., and MANN, L. B. Frozen food locker cooperatives in Illinois,1946. U. S. Farm Credit Admin.Coop.Res. & Serv. Div. Misc.Rpt.109,37 p. May 1947. 166.3 M68

Similar title in *Locker Operator* 8(13):19-22,24,26,28,30,32,57-60, 62,64,66-69,72. July 1947. 295.8 L79

Made at the request of the Illinois Cooperative Locker Service, this survey is based on an analysis of the business of 32 associations operating 71 plants. Total pounds of meat and poultry processed per locker rented,p.21-24.

1444. WILKINS, P. C., and MANN, L. B. Frozen food locker cooperatives in Illinois, 1947. U. S. Farm Credit Admin. Coop. Res. & Serv. Div. Misc. Rpt. 122,39 p. Sept.1948. 166.3 M68

An analysis of the results of a study undertaken to provide locker-plant association directors, plant managers, and others with information on the operations of locker associations and the relative efficiency and success of the associations and individual locker plants. The numerous subjects discussed include the volume of meat and poultry processed, slaughtering services and rates, the volume of livestock slaughtered, problems to be faced, and possibilities for the future.

1445. WILKINS, P. C. Illinois locker co-ops eyeing efficiency. *News Farmer Coop.* 13(6):6,19-20. Sept.1946. 166.2 N47

Cooperative locker-plant development in this State, the centralization of slaughtering and other processing operations, and the servicing of branch plants by the centrally-located processing and freezing plant.

1446. WILKINS, P. C., and MANN, L. B. Illinois lockers point the way. *News Farmer Coop.* 14(4):11,20-21. July 1947. 166.2 N47

The growth of cooperative locker plants in this State, meat-processing services offered, and the increased expansion of cooperative locker-plant operations along the lines of centralized slaughtering, processing and freezing at one plant in a county serving several branches.

1447. WILLIAMSON, F. Fresh meats when you want them. *Prog. Farmer (Miss.-Ark.-La. Ed.)* 60(1):33. Jan.1945. 6 So81

This account of the operation of the cooperative freezer-locker plant at Natchitoches, La., deals with the development of the project, meat-processing services, and the amount of meat handled.

Canada

1448. DRAYTON, L. E. Frozen food locker plants, with special attention to cooperative organization. Saskatchewan. Dept. Co-op. & Co-op. Devlpmnt. B. 3,63 p. Dec.1946. 280.29 Sa74B

Reviews the nature and advantages of services offered by cold-storage locker plants, the cost of providing these services, and the necessary facilities for their provision. Contains numerous references to meat processing, and draws upon both Canadian and American experience.

Slaughtering and Processing

United States

1449. BLAKESLEE, L. H. Handling meat in locker plants for frozen storage. *Quick Frozen Foods* 3(6):24,44. Jan.1941. 389.8 Q4

Slaughtering, cutting, wrapping materials and techniques, storage, and the importance of planning the family meat supply with reference to the use of lockers and locker-plant facilities.

1450. BLAKESLEE, L. H., DAVIDSON, J. A., and GRISWOLD, R. M. Preservation of meats and poultry in frozen-food lockers. *Mich. State Col. Ext. B.* 223, folder. Dec.1941. 275.29 M58B

The selection and slaughtering of cattle, veal, hogs and lambs; sanitation; aging and cutting the carcass; wrapping materials; labeling; storage; and wholesale and retail beef, lamb and pork cuts.

1451. BOTHE, A. 'Extra' services count. *Locker Operator* 8(11):28,65-66. May 1947. 295.8 L79

Meat processing and pick-up and delivery services of the plant of Florida Frozen Food Products, Inc., Tampa, are mentioned.

1452. BOTTS, R. Kansas locker operator tells how to cure meat. *Meat Merchandising* 22(1):66,68,70. Jan.1946. 286.85 M462

Pork smoking and curing procedure at the Botts Locker Plant, Valley Center, Kans.

1453. BRADY, D. E. Curing important to Southern lockers. *Quick Frozen Foods* 6(12):53;(13),i.e.,7(1):57. July,Aug.1944. 389.8 Q4

On the inclusion of meat-curing facilities in locker plants. Particular reference is made to North Carolina.

1454. BRADY, D. E. The frozen food locker plant--a market outlet for North Carolina. *Carolina Farmer* 1(7):14-15,30. Dec.1946. 6 C223

On the need for adequate meat-processing and storage facilities because of given meat-spoilage losses in this State, and on the growth of the locker-plant industry there.

1455. BRADY, D. E. Use the freezer locker to provide a year 'round meat supply. *N. C. Agr. Expt. Sta. Res. & Farming Prog. Rpt.* 5(2):14-16. Jan.1947. 100 N81R

On the development of the freezer-locker industry in North Carolina, and slaughtering, processing, and meat-packaging materials and techniques.

1456. BULL, S. How to cure meat and increase locker capacity. *Quick Frozen Foods* 5(4):36-37. Nov.1942. 389.8 Q4

The artery pumping of hams, the smoking of cured meats, and the boning of beef. Claims that if all or a major part of the suggestions set forth in this article are followed, 50 to 100 percent more meat can be put into the locker, many hogs and cattle will be kept away from the central markets, thereby saving transportation and processing facilities, more bones and grease will be available for the production of explosives and hog and poultry feeds, and the business and profits of the locker operator will be increased.

1457. BULL, S. Processing of meat for locker storage. *Ill. Agr. Col. Ext. Cold Storage Locker Conf.* 1939:17-20. 1939. 275.29 IL62

Similar title in *Quick Frozen Foods* 2(5):25,29-32. Dec.1939. 389.8 Q4

Discusses slaughter, carcass chilling, aging, storage, cutting, curing

smoking, wrapping papers, and the effect of storage periods on the keeping quality of meats.

1458. CLARK, C. E., and LACEY, J. Cold storage lockers for preserving meats, fruits and vegetables. Wis. U. Col. Agr. Ext. Serv. Stencil C.199,8 p. Apr.1938. 275.29 W75B

Topics include the aging, cutting, wrapping, labeling, and freezing of meat.

1459. COLE, W. R., and GRIFFITHS, F. P. Questions and answers of the frozen foods locker industry. Locker Operator 5(9):34-35,41. Apr.1944. 295.8 L79

Meat processing, p. 41.

1460. CORNELL UNIVERSITY. RESEARCH COMMITTEE ON FOOD PROCESSING AND STORAGE. Recommendations for frozen food locker plants; report. Locker Operator 5(7):12-13,44-46. Feb.1944. 295.8 L79

Topics include slaughtering facilities; chilling, aging, meat-processing and curing rooms; and lard-rendering facilities.

1461. CRIST, T. Problems and potentialities of the locker industry. Cherry-Burrell Circle 33(3/4):9-10,23. Mar./Apr.1948. 44.8 C42

Discusses in part the growth of this industry in Wisconsin, such meat-processing services as boning, chilling, cutting, wrapping and sharp freezing, and charges for these services.

1462. CURTISS, W. M. Frozen food lockers in New York State, 1943. N. Y. (Cornell) Agr. Col. Dept. Agr. Econ. & Farm Mangt. A. E. 418, 6 p. Mar.1943. 281.9 C81

The growth of the industry in this State, 1938-43; rental charges; and meat-processing services, including butchering, cutting, grinding, wrapping, quick freezing, curing, and sausage making.

1463. DILLON, C. E. Meat slaughtering and processing. St. Louis, Meat Merchandising, 1947. 307 p. 50 D58

Written especially for the small slaughterer and locker-plant operator.

1464. DILLON, C. E. The slaughtering department. Guide Book Frozen Food Locker Indus. 1941:69-70,72. 295.8 G94

Recommended floor plan and procedures for a slaughtering department of a frozen-food locker plant.

1465. DILLON, C. E. Why not do it packinghouse fashion? Locker Operator 5(12):12-13,36-37. July 1944. 295.8 L79

Recommends the use of packer methods rather than farm methods of slaughtering and processing.

1466. DOWELL, A. A., WARRINGTON, S. T., and FENSKE, L. J. Variations in the cost of locker plants. Minn. U. Agr. Ext. Farm Business Notes 195:1-2. Mar.1939. 275.29 M663

Compares capital outlay per locker of a number of plants offering meat-processing services with that of other plants not offering such services.

1467. ENSMINGER, M. E., and others. Meat storage for community cold storage lockers. Wash. Agr. Expt. Sta. B. 425:23. Dec.1942. 100 W27E

J. A. McIntosh, J. Sotola, J. Dobie, and C. C. Prouty, joint authors. Summarizes the results of experiments made during the fiscal year ended June 30, 1942, in the quality of beef. Twenty-two "Good" grade short loins were arranged in various groups to study the effect of aging periods of seven to 14 days, with and without ultra-violet light, and under various temperatures.

1468. FARGO, J. M. Sausage making. Frozen Food Locker Operators' Conf. Proc. (2):50-52. 1940. 295.9 F932

Similar title in Quick Frozen Foods 3(3):20,40. Oct.1940. 389.8 Q4
Sausage-making procedure for the locker operator.

1469. GLEASON, H. Processing and smoking meats in locker plants. *Quick Frozen Foods* 5(1):14-15,34. Aug.1942. 389.8 Q4

Describes procedures, and recommends that locker operators emphatically urge farmers who do their own slaughtering to bring their meats to the locker plant immediately for chilling and curing to offset the danger of spoilage.

1470. GOUGLER, F. Locker butchering. *Ill. Agr. Assoc. Rec.* 22 (9):16-17. Oct.1944. 6 IL62

Slaughter services provided by cooperative locker plants in Illinois. The problem of sanitation is discussed.

1471. GOUGLER, F. A. Plan complete service in new locker plants. *Quick Frozen Foods* 10(1):110. Aug.1947. 389.8 Q4

On the concentration of the entire servicing operation, including slaughtering, processing, freezing, curing, smoking, and lard rendering at one central plant for the branch plants.

1472. GUGGEDAHL, A. Frozen food locker plants in Iowa. *Iowa Ybk. Agr.* 45:61-63. 1944. pub. 1945. 2 Io9R

On the size of the industry as of Dec.31,1944, its progress during 1943 and 1944, and such services as slaughtering, cooling and chilling carcasses, cutting, packaging, quick freezing and storage, curing and smoking, and lard rendering.

1473. HAAK, P. J., and others. Storing foods in freezer lockers. *Ky. Agr. Col. Ext. C.* 398, rev.,20 p. Feb.1949. Ref. 275.29 K415

J. B. Kelley, W. M. Insko, Jr., A. J. Olney, and E. J. Wilford, joint authors.

Discusses the effect of bleeding, cleanliness, and rapid cooling on the quality of meat, aging, cutting, wrapping, labeling, quick freezing, and storage, and lists, with diagrams, the minor wholesale cuts of pork, lamb, beef, and veal.

1474. HECK, M. C. Custom curing is now a necessary part of complete locker service. *Locker Operator* 6(8):18,38. Mar.1945. 295.8 L79

Mentions the special importance of meat curing to farmers of southern Arkansas, where the curing weather is generally above the safe temperature of 40° F.

1475. HOWES, E. W. Quick-freezing of meats governed by simple rules. *West. Canner & Packer* 34 (13):47. Dec.1942. 286.83 W522

Simple rules and procedure for selection, dressing, chilling, aging, cutting, wrapping, freezing, and storage, either in the locker plant or in the home-freezing unit.

1476. HURST, F. J. A dream come true. *South. Agr.* 77,i.e.,78(3):42-43. Mar.1948. 6 So83

Primarily on the Leake County [Miss.] Cold Storage, Curing and Locker Plant, with its slaughtering, cutting, chilling, aging, curing, smoking and wrapping services, this article deals also with the Rankin County Cooperative Cold Storage Plant at Brandon, Miss., with the growth of locker plants in this State, and with the size of the industry and the services offered for the country as a whole.

1477. KEEN, C. A. Custom curing and smoking of meats. *Frozen Food Lockers Conf.* 1940:8-11. 295.9 F93

Similar title in *Quick Frozen Foods* 2(6):30,37-38;(11):14-15. Jan., June 1940. 389.8 Q4

Procedures and techniques for locker plants.

1478. KLINE, E. A. Handling farm meats for the locker. *Aberdeen-Angus J.* 28(1):66,114,118,120. Aug.1946. 43.8 Ab3

Similar title in *West. Frozen Foods* 7(10):3-4. Aug.1946. 389.8 W523, and in *Berkshire News* 11(12):58-60. Oct.1946. 46.8 B454

On the selection of animals for slaughtering, sanitation, chilling, aging, cutting, wrapping materials and techniques, labeling, curing and

smoking, sharp freezing, and storage.

1479. KLINE, E. A. How to handle meats for lockers. West. Frozen Foods 7(10):3-4. Aug.1946. 389.8 W523

Characteristics of animals providing the most desirable meat for freezing; sanitation; chilling; aging beef and lamb; cutting; wrapping materials and techniques; labeling; sharp freezing; and the length of time that fresh pork, beef, lamb, ground beef, and sausage can be stored satisfactorily.

1480. LACEY, J. Selecting and handling meat for locker storage. Natl. Butter & Cheese J. 30(10):52-54. Oct.1939. 286.85 B98Bu

Notes the importance of patron education on the part of the locker operator with respect to the selection of good meat, and discusses proper methods of slaughtering, carcass handling, chilling, aging, cutting, and storage.

1481. LACEY, J. J., HAYES, J. B., and DENNETT, L. C. Fast freezing meats and poultry. Wis. Agr. Col. Ext. C. 328, rev., 12 p. Nov.1945. 275.29 W75C

Information on the quality of animals best adapted to freezing, sanitation, chilling, aging, cutting, wrapping materials, labeling, sharp freezing, storage and sanitation.

1482. KUNKLE, L. E. The preparation of meat for freezer storage. Ohio Agr. Col. Ext. B. 224:6-15. Oct.1942. 275.29 Oh32B

Selection on the basis of conformation, quality and finish; inspection; slaughtering and chilling; cutting; wrapping papers; labeling; and storage.

1483. KUNKLE, L. E. Selecting and processing meat for locker plant storage. Quick Frozen Foods 3(8):17,39. Mar.1941. 389.8 Q4

Meat-selection standards, aging, labeling packages, slaughter, cutting, wrapping, and sharp freezing.

1484. LACEY, J. Basic considerations in aging meats. Frozen Food Locker Operators' Conf. Proc. 2:42-44. 1940. 295.9 F932

Changes during the aging process, meats which should be aged, the necessity for good-quality carcasses, chill rooms, desirable temperatures, and the overemphasis placed upon aging instructions.

1485. LATTIN, T. Profitable meat cutting essential for locker plant success. Quick Frozen Foods 2(4):28. Nov.1939. 389.8 Q4

Discusses cutting, quality judging, sausage making, lard rendering, curing and smoking meats, and retailing through a retail meat department operated in connection with the locker plant.

1486. LOCKER full-fledged meat plant. Natl. Provisioner 114(13):19. Mar.30,1946. 286.85 N21

An account of Pacific Frozen Food Lockers, Inc., South Gate, Calif., which deals exclusively in meats, and which processes, cuts, wraps, freezes and stores fresh meat, and grinds sausage to order.

1487. MACKINTOSH, D. L. Meat cutting demonstration. Frozen Food Lockers Conf. 1940:14-15. 295.9 F93

Emphasizes the importance of meat quality, boning before packaging, sharp freezing, and locker-plant sanitation.

1488. MACKINTOSH, D. L. Practical boning of meat. Natl. Frozen Food Locker Assoc. Proc. 2:82-85. 1940. 295.9 N216

Boning as a means of reducing the cost of meat storage in locker plants and of facilitating packaging; cuts which should be boned; boning service charges to the patron; and resulting savings.

1489. MATLACK, M. B. Instructions on processing for community frozen-food locker plants. U. S. Dept. Agr. Misc. P. 588, 52 p. Mar. 1946. Ref. 1 Ag84M

Includes discussion of preparation of meat for freezer storage (selection, slaughtering, chilling, aging, cutting, wrapping, labeling, freezing, and storage), sanitation, and packaging materials.

1490. MEAT curing in the locker plant. Ybk. Frozen Food Locker Indus. 1940:58-61. 295.8 G94

Profits and charges, methods, patronage relations, lard rendering and containers, and storing cured meat in lockers.

1491. MEISENBACH, R. California chain has centralized processing. West. Locker 9(7):5. May 1948. 389.8 P112

On Williamson's Locker Service, some of the features of which include processing, curing, wrapping and freezing at the central plant only; the purchase of meat and of frozen foods in quantity with a passing on to the locker patron of the resultant savings; the sale of home freezers; the retailing of fish, meat, hams and bacon; and a delivery service for the benefit of home-freezer owners.

1492. MILLER, E. Frozen foods from freezer lockers. Utah. Agr. Col. Ext. C. (n. s.)116,16 p. 1942. 275.29 Ut1

Includes meat cutting, and wrapping methods and papers.

1493. MITCHELL, T. New Jersey locker plant features processing service. Ice & Refrig. 113(6):62,64. Dec.1947. 295.8 Ic2

A description of Gaskill's Frosted Food Locker Plant near Elmer, Salem County, N. J. No charge is made for butchering steers provided the patron agrees to surrender the hide and offal. Other meat services, with charges, and locker rentals are discussed. Cattle pens are located behind the slaughterhouse.

1494. OLIVER, A. W. Preparing and storing meat in cold storage lockers. Oreg. Agr. Col. Ext. HE1100,2 p. Oct.1937. 275.29 Or323H

On the quality, preparation, cutting, wrapping, and storage of meat, and the keeping qualities of lamb, mutton, beef, pork, pork sausage, sliced bacon, and ham.

1495. OLIVER, A. W. Storing meat in refrigerated lockers. Ice & Refrig. 97:122. Aug.1939. 295.8 Ic2

Aging, cutting, wrapping, and the proper temperature for storing.

1496. ORANGER, L. D. Better protection for the locker patron. Natl. Frozen Food Locker Assoc. Proc. 6:103-109. 1944. 295.9 N216

Livestock slaughter, meat processing, and sanitation are among the subjects discussed.

1497. PATRIDGE, J. J. Service pays off--here's how Pat's Frozen Food Locker does it. Freezer's J. 2(7):4,14. Nov.1947. 295.8 So8

The meat-processing equipment of this locker, located in Elaine, Ark., and the amount of beef processed and of pork cured during the first year of operation.

1498. PIPER, E. H. Locker plants in New York State. N. Y. Agr. Col. Farm Econ. 159:4133. Mar.1948. 280.8 C812

Their development, 1930-47, and meat-processing services offered.

1499. PURNELL, R. G. How locker refrigeration benefits farmers in Lee County, Mississippi. Assoc. South. Agr. Workers. Proc. 43: 64-65. 1942. 4 C82

Includes the slaughtering, chilling, processing, locker storage, pork curing and smoking, lard rendering, and bulk storage services of the Tupelo Locker Plant, Tupelo, Miss., and of its branch in Chickasaw County.

1500. QUICK Frozen Foods and the Locker Plant. The 50 best articles on locker plant operations...1940-1944. New York, Williams, 1944. 88 p. 389.3 Q4

Contains various articles on meat processing and curing which appeared in "Quick Frozen Foods and The Locker Plant" during this period.

1501. SCHLAGETER, G. O. Lard rendering and meat curing in the locker plant. Locker Patron 1(9):10-11,21. Apr.1940. 295.8 L79

An account of services, equipment, and procedures.

1502. SCHMIDT, W. C. Slaughtering methods for locker plants.

Quick Frozen Foods 6(10):58-59. May 1944. 389.8 Q4

Equipment, procedure, and techniques. Lard rendering is included.

1503. SHERMAN, R. W. Cold storage locker plants in Ohio. Ohio Agr. Expt. Sta. B. 668,32 p. Dec.1946. Ref. 100 Oh3S

Based on personal visits to locker plants and on answers to questionnaires, this study deals in part with such services as slaughtering, and the smoking, curing, cutting, wrapping and freezing of meat, lard rendering, service charges, and patron reactions to locker plants.

1504. SNYDER, R. W. Cutting meats for the locker plant. Refrig. Engin. 37:391-392. June 1939. 295.9 Am32J

Discusses the importance of using meat only from healthy animals properly killed and handled under sanitary conditions, and of chilling, aging, cutting, wrapping materials, labeling, and freezing.

1505. SPOONER, H. L. Successfully handling meats for locker customers. Quick Frozen Foods 5(1):22-23. Aug.1942. 389.8 Q4

Meat slaughtering and processing services and charges at Rocke's Lockers and Food Market, Morton, Ill.

1506. STANDARDIZED procedure for boning beef for locker storage. Locker Operator 4(5):5-7,14,16. Dec.1942. 295.8 L79

Notes reasons why meat rationing is expected to increase the demand for meat boning, and discusses the impending application of regional price ceilings to locker rentals and services.

1507. TRESSLER, D. K. Cold storage lockers welcomed by farmers generally. Farm Res. [N. Y. State] 4(4):10-11. Oct.1,1938. 100 N48A

A brief summary of the development of these lockers in the United States, followed by an account of special services such as the processing and wrapping of meat.

1508. TRESSLER, D. K., and DUBOIS, C. W. Freezing and storage of foods in freezing cabinets and locker plants. N. Y. (State)Agr. Expt. Sta. B. 690,60 p. May 1940. 100 N48

Notes differences between freezer-locker plants in New York State and those in the Middle and Far West, discusses the meat services offered by the most successful locker plants, and describes wrapping materials and packages.

1509. U. S. RURAL ELECTRIFICATION ADMIN. Processing pork products in REA refrigeration locker plants. St. Louis, 1945?7 p. 1.933 P946

Curing, smoking cured meat, hanging, testing for thorough smoke penetration, wrapping and storing meat, and lard rendering.

1510. WITTE, J. W. Meat cutting to satisfy the locker patrons. Quick Frozen Foods 5(4):30-33,46. Nov.1942. 389.8 Q4

A method for breaking and cutting beef, veal, lamb and pork with a power cutter.

1511. WOODROOF, J. G. Georgia locker plant slaughters and cures. Eat Frozen Foods 4(1):5,11. May 1949. 295.8 So8

On the Safety-Rite Food Bank, Tifton, Ga., specializing in pork, and offering slaughtering, chilling, cutting, curing, drying, smoking and storing services. Gives the amount of hams, shoulders, and bacon cured, 1948, and an estimate for 1949.

1512. WOODRUFF, S. Food preparation and utilization aspects of refrigerated locker storages. Agr. Engin. 20:105-107. Mar.1939. Ref. 58.8 Ag83

Includes freezer-stored meats.

1513. ZIEGLER, P. T. Preparing meats for freezing. Locker Operator 7(4):44,46,48-50. Nov.1945. 295.8 L79

The selection of good-quality meat, sanitation, inspection, chilling and aging, cutting and boning, and wrapping materials and techniques.

1514. ZIEGLER, P. T. Progress made in freezing meats. Frozen Food Conf. Proc. 2:16-17. 1946. 389.9 F93

An account of various laboratory tests in which the aging period, wrapping materials, and temperature control played an important part.

1515. ZIEGLER, P. T. Recent developments in the freezing of meats. *Frozen Food Conf. Proc.* 3:38-40. 1947. 389.9 F93

A discussion of the cause of rancidity, the exclusion of air by the proper use of good wrapping materials, freezer burn, aging, temperature, the trimming of fat, and factors which stimulate oxygen absorption.

Canada

1516. HACKER, C. Frosted foods for Fraser Valley. *West. Frozen Foods* 6(10):4-5. Aug.1945. 389.8 W523

"Reprinted from the Vancouver (B. C.) Daily Province of August 4, 1945."

This account of the cold-storage locker industry in British Columbia contains references to the percentage of business in meat and to the amount of pork cured and smoked per week during the busy seasons.

1517. QUIDNUNC, A. N. Ageing and chilling in locker storage plants. *Canad. Dairy & Ice Cream J.* 26(6):74,76. June 1947. 44.8 C162

Canadian practice with reference to meat.

1518. QUIDNUNC, A. N. Making a locker storage annex pay dividends. 3. The value of servicing to both patrons and operators. *Canad. Dairy & Ice Cream J.* 26(3):78,80. Mar.1947. 44.8 C162

Gives locker-service processing charges in Canada for slaughtering beef and veal cattle, young calves, hogs, and lambs; for chilling carcasses, aging, cutting, wrapping cuts in moisture-resistant paper, quick freezing, and placing meat in locker; making cellophane-wrapped chopped and minute steaks, and spiced beef roll and corned beef; grinding, seasoning and blending sausages; double-grinding hamburgers and making them into patties wrapped in cellophane; lard-fat rendering; curing and smoking hams and bacon; slicing and wrapping bacon in 1-lb. cellophane packages; and cooling meat not for lockers.

1519. TRUSCOTT, J. H. L. Frozen foods; the home processing of fruits, vegetables, meats in lockers or home freezers. *Ont. Dept. Agr. B.* 412,12 p. May 1944. 101 On8B

Meat processing, and wrapping materials, p.11-12.

Storage

United States

1520. BURNS, V. H. They don't improve with age! *Quick Frozen Foods* 8(6):113-114. Jan.1946. 389.8 Q4

The keeping quality of meat in lockers.

1521. CARVER, W. Locker storage for pork. *Locker Patron* 1(4): 7-9,18-20. Nov.1939. 295.8 L79

Quality judging, butchering, hog-processing costs, curing hams and bacon, locker storage of cured meat, and the making and storage of sausage.

1522. CARVER, W. H. Locker storage of veal. *Locker Patron* 1(8): 5,18. Mar.1940. 295.8 L79

Topics include a comparison of farm slaughter of cattle and calves in 19 locker States, judging the quality of veal, and a comparison of veal and beef cuts.

1523. DUBOIS, C. W. The conservation of meat in the locker plant.

Locker Operator. 5(2):36-37,47. Sept.1943. 295.8 L79

Similar title in Guide Book Frozen Food Locker Indus. 1943:52,54. 295.8 G94

Summarizes the results of experiments in the effect of aging, temperature, and packaging on the keeping quality of meat.

1524. ENSMINGER, M. E., and others. Meat storage for community cold storage lockers. Wash. Agr. Expt. Sta. B. 410:28-29. Dec.1941. 100 W27E

M. M. Boggs, J. Sotola, J. A. McIntosh, J. Roberts, and C. C. Prouty, joint authors.

An account of experiments made during the fiscal year ended June 30, 1941, in the length of the freezing period, paper in which steaks were wrapped, and the thawing and aging of meat. Meat from the same animals was frozen for periods ranging from four to nine months. Cellophane, and waxed, oiled, and butcher papers were used.

1525. FILINGER, G. A. Products for the frozen food locker. Kans. Engin. Expt. Sta. B. 47:50-52. Feb.1,1946. 100 K13S

The growth of the locker-plant industry in Kansas, characteristics of animals providing desirable meat for freezing, and the amount of meat and poultry stored in Kansas frozen-food lockers in 1935.

1526. GRISWOLD, R. M., and BLAKESLEE, L. H. The effect of different wrappings, temperatures, and length of storage on keeping qualities of frozen pork chops. Amer. Soc. Anim. Prod. Proc. 32:305-314. 1939. Ref. 389.9 Am3R

Results of tests at the Michigan Agricultural Experiment Station in the palatability and shrinkage of pork chops wrapped in seven different materials and held at 0°, 5°, and 15° F.

1527. HACKEDORN, H., and others. Meat storage in community freezer lockers. Wash. Agr. Expt. Sta. B. 384:22-23. Dec.1939. 100 W27E

M. Boggs, M. Beckman, and W. H. Burkitt, joint authors.

Studies in the effect of (1) the method of thawing meat on its weight loss and palatability scores, (2) aging beef before storing, and (3) storing for 150, 160, 180, and 210 days compared with unfrozen meat. Vulcan butcher Manila paper, 30-1b. base white wet waxed paper, and 300 MAT cellophane were used.

1528. MCINTOSH, J., LANDQUIST, V., and YOUNG, E. Methods of cooking meat that has been frozen and preserved in freezing lockers, and factors that influence its quality. Wash. Agr. Expt. Sta. B. 425, 46 p. Dec.1942. 100 W27E

The effect of methods of aging beef loins was studied, as was the effect of locker storage on pork chops, roasts, and sausage.

1529. PEARSON, A. M., and MILLER, J. I. The influence of rate of freezing and length of freezer-storage upon the quality of beef of known origin. J. Anim. Sci. 9:13-19. Feb.1950. Ref. 49 J82

Reports the results of experiments with a total of 310 steaks.

1530. PENNINGTON, M. E. Refrigeration--a prime essential of war. Refrig. Engin. 45:89-92. Feb.1943. 295.9 Am32J

The amount of meat and poultry held in freezer-locker plants, p.90.

1531. TESTS show shrinkage in locker meats. Ice & Refrig. 104(2): 106. Feb.1943. 295.8 Ic2

Summarizes the results of tests conducted by the Illinois Agricultural Association in 15 locker plants in this State.

1532. TRESSLER, D. K. Influence of packaging, rate of freezing, and temperature of storage on quality of frozen meat. Frozen Food Locker Operators' Conf. Proc. 2:48-49. 1940. 295.9 F932

Summarizes the results of experiments at the New York State Agricultural Experiment Station with reference to specific wrapping materials and the influence of the rate of freezing of meat on the quality

of the product.

1533. WELLINGTON, G. H., MACKINTOSH, D. L., and VAIL, G. E. Pork storage in freezer lockers. *Kans. Acad. Sci. Trans.* 43:313-319. 1940. Ref. 500 K13T

A report on studies made to determine (1) the value of several types of meat wrappers; (2) the maximum time pork can be stored; and (3) the influence of oat flour as an anti-oxidant or oxidation inhibitor with pork; and to observe the general changes in the quality of pork over successive periods of storage.

1534. YOUNG, E. J., and MCINTOSH, J. A. Effect of locker storage on the quality of pork. *Refriger. Engin.* 45:100-103. Feb. 1943. Ref. 295.9 Am32J

Reports a study of the effect on the quality of pork chops, roasts and sausage. Chemical, mechanical and organoleptic measurements were made.

Packaging

United States

1535. BANTER, N. Packaging, merchandising, and patron education. *Frozen Food Lockers Conf.* 1940:15-16. 1940. 295.9 F93

Describes the Lindley Locker-Pak for sausage, ground meat, and other products, and urges that locker operators promote turnover by encouraging their patrons to make more intensive use of their lockers.

1536. BLAKESLEE, L. H. Wrapping meat for frozen storage. *Mich. Agr. Expt. Sta. Q. B.* 24:111-113. Nov. 1941. 100 M58S

Results of tests at the Michigan Agricultural Experiment Station where ordinary 50-lb. butcher paper, moisture-vapor-proof cellophane, and 40-lb. paper waxed on the inside were used. Fig. 1 shows the location of Michigan locker-storage plants equipped to quick-freeze and store frozen meats.

1537. BRATZLER, L. J. Shrinkage during storage of ground beef wrapped in various materials. *Mich. Agr. Expt. Sta. Q. B.* 32:328-330. Feb. 1950. 100 M58S

Summarizes the results of four tests instituted in May 1946 to ascertain the efficiency of various common wrapping materials for packaging for frozen storage.

1538. BURKITT, W., and HACKEDORN, H. Meat storage for community cold storage lockers. *Wash. Agr. Expt. Sta. B.* 368:25. Dec. 1938. 100 W27E

Weight-loss experiments with various cuts wrapped in wax paper or in butcher paper and stored for 153 days in a community cold-storage locker box.

1539. BURKITT, W. H., and HACKEDORN, H. Storing beef roasts and steaks in freezer lockers. *Amer. Soc. Anim. Prod. Proc.* 32:304-305. 1939. 389.9 Am3R

Summarizes the results of Washington Agricultural Experiment Station tests with different types of wrappings.

1540. CARL, F. L., and FLORY, J. Freezer lockers for meat, vegetables, and fruit. *Mo. Agr. Col. Ext. C.* 530,23 p. June 1946. 275.29 M69C

Discusses meat-wrapping materials and methods, labeling, the preparation of meat for quick freezing and storage in freezer lockers, and the approximate weight of different cuts from home-dressed animals.

1541. DES AUTELS, G. F. Wrapping papers for meats in cold storage lockers. *Ill. Agr. Col. Ext. Cold Storage Locker Conf.* 1939:38-46. 275.29 IL62Pah no. 851

Topics include the need for protection against freezer burn, shrinkage and other harmful effects related to dehydration, foreign odors, and dust and other dirt; required wrapper properties; and the qualities of a number of specific wrapping papers.

1542. DIP-COATING for frozen foods. *Frozen Food Indus.* 2(11):16-17,42-43. Nov.1946. 389.8 F93

NoAir, a thermoplastic wax coating for irregularly shaped meat cuts and other food products, whose practicability for locker-plant use is emphasized.

1543. FENTON, F. Requirements for locker packing and manner of packaging. *Quick Frozen Foods* 5(10):24-25. May 1943. 389.8 Q4

Discusses the fundamentals of packaging, types of materials used, and labeling with reference to meat and other products.

1544. LOEFFEL, W. J., and YUNG, F. Study protection of meat from dehydration during quick freezing. *Locker Operator* 4(4):9,25. Nov.1942. 295.8 L79

A report on studies undertaken by the Nebraska Experiment Station to find a substitute for freezer-locker paper in anticipation of a war-time shortage. Water, lard, and beef tallow were used, and shrinkage of the various cuts is noted.

1545. MCCOY, D. C., COOK, S. V., and HAYNER, G. A. Study of frozen food wrapping materials. *Refrig. Engin.* 52:531-534,584. Dec. 1946. 295.9 Am32J

Similar title in *Food Freezing* 2:69-72,93,101. Dec.1946. 389.8 F7362, and in *Frozen Food Indus.* 3(1):12-15,42. Jan.1947. 389.8 F93

Experiments in the use of foils, films, waxed and unwaxed papers, laminates, and other coverings for meat. While the investigation, by members of the Frigidaire Division, General Motors Corporation, was aimed primarily at problems of home and locker-plant freezing, the fundamentals involved apply likewise to commercial freezing.

1546. OCHOJSKI, C. Wrapping materials, labor and costs in locker plants. *Quick Frozen Foods* 9(3):136-138. Oct.1946. 389.8 Q4

The papers used in this study were cellophane, butcher, laminated and locker.

1547. ROGERS, M. T. Cry-O-Vac and the locker industry. *Frozen Food Lockers Conf.*:13-14. 1940. 295.9 F93

On the characteristics and method of use of this type of wrapper for meat and other food products.

1548. SHAFFER, A. W. Packaging of frozen foods in locker plants. *Natl. Frozen Food Locker Assoc. Proc.* 5:47-53. 1943. 295.9 N216

Fundamental requirements of frozen-food package design, proper packaging materials, and packaging methods. Meat is included.

1549. SHUTTLEWORTH, P. O. Wrapping and packaging materials for frozen food lockers. *Refrig. Engin.* 50:311-312. Oct.1945. 295.9 Am32J

Notes the inadequacy of certain papers used by locker plants for packaging meats, and outlines the development of special grades of wrapping paper and containers suitable for use in these plants.

1550. TURLEY, L. The job of packaging frozen foods. *Quick Frozen Foods* 7(10):48-49. May 1945. 389.8 Q4

Meat-wrapping materials and techniques, and the dependence of home-freezer owners upon the locker plant for meat-processing services.

1551. WAX COATING frozen foods. *Food Indus.* 19:453,580. Apr. 1947. 389.8 F737

Describes the use of NoAir Wrap, a thermoplastic wax, as a form-fitting, protective seal for frozen meats and other food products, and

mentions a dipping tank, designed for small operations such as locker plants, in which between 500 and 1000 lbs. of meat can be dip-coated per hour, depending upon the size of the tank.

1552. WEAVER, A. D. Freezing foods--at home--in locker plants. *Nebr. Farmer* 90(11):22. June 5, 1948. 6 N27

A portion of this article deals with the experience of a locker operator in Custer County, Nebr., with wrapping meat in aluminum foil.

Operating Costs, Service Charges, and Prices

United States

1553. PIPER, E. H., and DARRAH, L. B. Operating standards for locker plants. *N. Y. Agr. Col. Farm Econ.* 159:4121-4125. Mar.1948. 280.8 C812

Subjects discussed include property investment, rental income per locker rented, service income per 100 lbs. of food processed, processing cost per 100 lbs. of food, size of business, labor efficiency, and recommendations for locker-plant operators.

1554. PIPER, E. H., and DARRAH, L. B. Processing income and expenses. *N. Y. Agr. Col. Farm Econ.* 159:4113-4117. Mar.1948. 280.8 C812

Based on a survey made in 1947 of 65 locker plants located throughout New York State, this study summarizes data dealing with processing services and rates charged, receipts, expenditures and net operating profit, and net returns on processing, and offers suggestions on ways to increase the net return or reduce the net loss from the processing phase of the business. The conclusion is drawn that profits are derived from locker-rental income, and that processing is a service offered in order to keep the lockers rented.

1555. ROBINSON, J. M. Mountain lockers. *Locker Operator* 7(7): 14-16,60-63. Jan.1946. 295.8 L79

Reviews operations of Farmers Federation locker plants located at Asheville, Hendersonville, Tryon and Waynesville, N. C. Locker rentals and meat-processing charges are mentioned.

1556. SCHAARS, M. A. Cold storage locker plants becoming popular. *Wis. Agr. Expt. Sta. B.* 442:24-26. Nov.1938. 100 W75

Their increase in Wisconsin; locker rentals; charges for chilling, cutting, labelling, and sharp freezing meat; and comparative benefits in the use of lockers by city and farm families.

1557. SCHAARS, M. A., and LIBEAU, C. P. Frozen food locker plants; business analysis. *Wis. Agr. Expt. Sta. B.* 485,36 p. May 1949. 100 W75

A study based on information obtained in 1947 at 43 locker plants located in 24 counties in Wisconsin. References to meat-processing services are included.

1558. SHERMAN, R. W. Some economic and financial aspects of the operation of cold storage locker plants in Ohio. Columbus,1947. 83 p. Ref. Ohio State U. Libr.

Thesis (Ph. D.)--Ohio State University.

Pt. 1, Some financial aspects of Ohio cold storage locker plant operation for 1944 and 1945, appeared as *Ohio State U. Dept. Rur. Econ. & Rur. Sociol. Mimeog. B.* 196,51 p. Apr.1947. 281.9 Oh32; pt. 2, Cold storage locker plants in Ohio, as *Ohio Agr. Expt. Sta. B.* 668, 32 p. Dec.1946. 100 Oh3S

1559. SHERMAN, R. W. Some financial aspects of Ohio cold storage locker plant operation for 1944 and 1945. *Ohio State U. Dept. Rur. Econ. & Rur. Sociol. Mimeog. B.* 196,51 p. Apr.1947. 281.9 Oh32

Analyzes the operating records of 38 plants for 1944 and 43 plants

for 1945 with a view to benefiting the long-time success of locker plants and thereby helping to insure better service to farmers through improved plant service.

1560. SPOONER, H. Illinois "locker plant" has dual rental plan! Locker Operator 9(10):12-14. Apr.1948. 295.8 L79

Describes the use of wire baskets in place of the conventional box-type lockers in a new addition to the Home Town Locker, Galesburg, Ill. Each customer is entitled to four baskets for a rental of \$18 a year, and an attendant obtains all products from the locker room. Many patrons buy meat from the plant and have it cut to order there.

1561. SPRING, A. W. The farmer's locker system. Refrig. Engin. 32:76-77,80. Aug.1936. 295.9 Am32J

An account of the Mac-Van Frigid Locker Co., Fort Collins, Colo., with references to locker rental and meat service charges.

1562. WARRINGTON, S. T. The economics of locker plant operation. Refrig. Engin. 42:309-312,319. Nov.1941. 295.9 Am32J

Discusses reasons for the expansion of the locker industry, improvements in the quality of service, and factors determining the future of the industry, and on the basis of cost records notes that slaughtering and locker rentals are the major source of profits. Advocates a centralized processing and branch locker-room system for small communities.

1563. WARRINGTON, S. T. Facts and figures on operating for profit. Quick Frozen Foods 2(5):26-28,33-34. Dec.1939. 389.8 Q4

An analysis of the operations of Minnesota locker plants dealing in part with percentage of lockers rented, investment per locker in plants, locker-room expenses, processing costs, income from locker rentals and processing services, and factors needing operators' consideration.

1564. WARRINGTON, S. T. Refrigerated locker service for rural patrons. Minn. U. Agr. Ext. B. 202,16 p. June 1939. 275.29 M66S

Also in Quick Frozen Foods 2(4):20-21,39;(8):22-23,34,36. Nov.1939, Mar.1940. 389.8 Q4

Advantages and disadvantages of the cold-storage locker, Minnesota locker rentals, and service charges in this State for slaughtering, chilling, curing, wrapping, freezing, grinding, curing, smoking, sausage making, and lard rendering. A classification of Minnesota plants, based on the amount of service rendered, is given on p. 4-5. Comparisons of costs of 100 lbs. of beef and pork at retail and processing at the locker plant, p. 9.

Regulation, Inspection, and Sanitation

United States

1565. AMERICAN PUBLIC HEALTH ASSOCIATION. FOOD AND NUTRITION SECT. COMMITTEE ON FOODS (EXCEPT MILK). Public health aspects of frozen foods, with particular reference to the products frozen in cold storage lockers and farm freezers. Amer. Pub. Health Assoc. Ybk. 1939-1940:77-83. 1940. 449.9 Am3Y

Reference is made to liver, pork, and to meat in general. Stresses the importance of sanitation.

1566. BARNEBEY, T. Is your plant guilty of B. O.? Locker Mangt. 4(2):26-27. Feb.1950. 389.8 L79

Odor control through the removal of odor gases with activated carbon air-purification equipment.

1567. BOLEY, L. E. Meat inspection. Ill. Agr. Col. Ext. Cold Storage Locker Conf. 1939:14-16. 275.29 IL62Pah no. 851

A brief historical account of meat inspection with particular refer-

ence to the United States, followed by a description of certain animal parasites and diseases. Recommends that strict hygienic measures along with veterinary inspection be given careful consideration with the expansion of cold-storage locker systems.

1568. CARVER, W. Legislation. *In* Brown, H. D., ed. Frozen foods, processing and handling, p.126-132. Columbus, 1946. 389.3 B812

The essential points covered by State laws applying specifically to locker plants.

1569. CLARKSON, M. R. The daily locker plant cleanup. *Food Freezing* 2:491-492, 512-513. June 1947. 389.8 F7362

Stresses the importance of the daily cleanup as a means of stopping the cycle of growth of spoilage bacteria on scraps of tissues from meat and poultry products, and discusses materials and methods for maintaining a sanitary plant.

1570. CLARKSON, M. R. Select proper equipment for locker plant sanitation. *Food Freezing* 2:408-409. May 1947. 389.8 F7362

Notes the limited usefulness of certain kinds of wood because of their lack of resistance to the action of meat juices and the growth of bacteria, and discusses various types of metals and synthetic plastic materials.

1571. DILLON, C. E. Care of tools and equipment in locker plant slaughtering rooms. *Locker Operator* 5(7):16-17, 36-38. Feb. 1944. 295.8 L79

Suggestions for sanitation and accident prevention.

1572. DOTTER, M. J. Locker plant sanitation. *In* Brown, H. D., ed. Frozen foods, processing and handling, p.119-125. Columbus, 1946. 389.3 B812

Emphasizes a well constructed and equipped plant, correct operating procedure, and good management.

1573. FRANKLIN, N. L. Regulations governing cold storage and frozen food locker plants aired. *Va. Foodsman* 10(7):21. July 1949. 286.28 V81

Deals in part with a special law of Virginia passed in 1946 which regulates the sale, processing and handling of food in connection with locker plants, and provides for control and inspection in order to prevent or eliminate unsanitary, unhealthful, fraudulent, or unfair practices and conditions.

1574. HOEY, J. J. Locker industry needs protective law. *Calif. Farmer, North. Ed.* 191:376-377. Nov. 5, 1949. 6 C126

Partly on the need for sanitation regulation in California.

1575. HOEY, J. J. Your frozen food legal rights. *Calif. Farmer, South. Ed.* 191:108. Aug. 13, 1949. 6 C126A

Laws governing the storage of frozen food, including meat, in California locker plants.

1576. INTERNATIONAL ASSOCIATION OF MILK AND FOOD SANITARIANS. COMMITTEE ON SANITARY ENGINEERING AND ENVIRONMENT. Control of frozen food locker plants. *J. Milk & Food Technol.* 11:238-241. July/Aug. 1948. 44.8 J824

Urges that the regulations appropriate to the sanitary operation of slaughterhouses, meat-processing plants, and canning plants be applied to these same operations when carried on at a locker plant, and makes specific recommendations for the control of locker plants in the interest of the public health.

1577. MALLMANN, W. L. Sanitation in frozen food locker plants. *Quick Frozen Foods* 7(6):80-81, 88. Jan. 1945. 389.8 Q4

Subjects discussed include the water supply, food-poisoning and food-spoilage bacteria, plant cleanliness, the selection of a cleaner, cleaning procedure, heat sanitation, and chemical sanitization.

1578. NEW YORK (STATE). DEPT. OF AGRICULTURE AND MARKETS. Article 19 of the Agriculture and Markets Law (chapter 48, Laws of 1922, as amended) relating to refrigerated warehouses and locker plants, with rules and regulations, 1946. N. Y. Dept. Agr. & Mkts. C. 666,10 p. 1946? 2 N482C

Sanitation, p.9.

1579. PIERCE, L. Refrigerated locker legislation. Oreg. Dept. Agr. Agr. B. 165:23-24. Mar.1950. 2 Or3

Inspection, sanitation, and license fees in Oregon are discussed.

1580. SQUIRE, E. G. The frozen food locker industry. Assoc. Food & Drug Off. U. S. Q. B. 8:130-136. Oct.1944. 389.9 As7Q

Locker-plant construction and operation from the standpoint of sanitation and public health.

1581. STEELE, W. Sanitation of locker plants. West. Locker 10(8): 3-4. July 1949. 389.8 P112

The essential factors of locker inspection, and some personal experiences of a locker inspector for the Oregon State Department of Agriculture.

1582. WARNER, K. F. Clean food from clean locker plants. Food Freezing 2:200-202. Feb.1947. 389.8 F7362

On the prevention of food contamination, spoilage and poisoning, with particular reference to meat.

Canada

1583. QUIDNUNC, A. N. Sanitation in the locker storage plant. Canad. Dairy & Ice Cream J. 26(12):92,94. Dec.1947. 44.8 C162
Canadian practice and legislation. Meat is mentioned.

Effect on Distribution and Consumption

United States

1584. BOTTOMLEY, J. W. Why the locker is a good distributor for frozen foods. Quick Frozen Foods 9(11):128,164. June 1947. 389.8 Q4
Recommends that locker plants, in addition to providing for the locker holder's needs in processing his foods and providing space for the storage of these foods, should carry all types of frozen foods for their customers, as well as furnishing storage space for institutional users and, in some cases, for other retail outlets, thus acting as a wholesaler as well as a retailer. Notes quantity purchase discounts granted customers by some locker plants.

1585. DOWELL, A. A. Meat consumed by locker patrons. Minn. U. Agr. Ext. Farm Business Notes 208:3. Apr.1940. 275.29 M663

Data on the amount of beef, veal, pork, and mutton and lamb consumed per capita by 145 Minnesota locker patrons and classified according to distance from locker plants, July 1,1937-June 30,1938.

1586. EGGERT, R. J. How cold storage lockers may affect live-stock meat distribution. Ice & Refrig. 95:135-137. Aug.1938. 295.8 Ic2

Topics include locker rentals, meat-processing services and charges, patron reaction to locker use, effects on meat distribution, and type of patronage.

1587. FERRIS, J. P. Refrigeration, meat and the soil. Refrig. Engr. 40:180,182. Sept.1940. 295.9 Am32J

Advocates the development of small freezer-locker plants for the Southern States as a means of reducing meat spoilage from slaughter in warm weather, and of inducing farmers to raise livestock for their

own meat-consumption purposes, thus improving diets and at the same time putting hilly acres into grass and combatting the erosion problem.

1588. KLINE, B. H. Locker plants reach out. *Food Indus.* 20:708-714. May 1948. 389.8 F737

Meat-processing services and bulk-storage facilities of certain Pennsylvania plants operating on a commercial scale, and their effect on distribution.

1589. LARSON, J. S., and others. The relation between locker plants and home freezers in the distribution of frozen foods in Arizona. Pt. 1

Washington, U. S. Prod. & Mktg. Admin., 1950. 58 p. 1.956 M343R27

E. C. Stokes, J. E. Hill, and J. A. Mixon, joint authors.

Locker-plant meat services and wrapping materials are discussed in part.

1590. ORR, N. The housewife and her locker. *Refriger. Engin.* 44: 235-236. Oct. 1942. 295.9 Am32J

Describes the growing popularity of the frozen-food locker among farm families, and shows how its use is an economic aid and a direct contribution to health.

1591. RANNEY, H. F. New markets in frozen foods. *Rur. New-Yorker* 104:382. Sept. 1, 1945. 6 R88

Partly on the potential market which the locker plant should provide the farmer for his beef and pork.

1592. SNOW, J. C. Cold storage lockers and meat curing plants as market outlets for farmers' products. *Assoc. South. Agr. Workers Proc.* 42:182. 1941. 4 C82

Mainly on experience and prospects in Tennessee.

1593. WARNER, K. F. Frozen food lockers in the war. *Agr. Leaders' Digest* 23(8):16-17. Oct. 1942. 275.28 Am3

The value of these plants in protecting the community's food supply, in decreasing the congestion in commercial food-processing plants, in lessening the demands on the transportation system, and in decentralizing the country's food storage under emergency conditions.

1594. WILLS, W. J. How will lockers and home units affect food consumption? *Ill. Farm Econ.* 166:810-811. Mar. 1949. 275.28 IL5

Deals in part with the percentage of Illinois farm and town families using lockers, the distribution of plants according to population centers, and percentages of patrons indicating an increase and a decrease in meat consumption after using lockers in Illinois. Notes a decrease in the number of hogs slaughtered in this State, and an increase in cattle.

Effect of Home Freezers

United States

1595. HARRINGTON, R. M. Interdependence of locker plant operators and home-freezer owners in the future. *Frozen Food Conf. Proc.* 2:1-4. 1946. 389.9 F93

Summarizes the results of a survey made in Pennsylvania on this subject, and discusses the causes of dissatisfaction with locker plants among patrons.

1596. HARTMAN, G. G. Home unit merchandising includes locker plants. *Locker Operator* 9(3):24,26,28,30,79-84. Oct. 1947. 295.8 L79

Discusses in part the use of home-freezing units in conjunction with locker-plant services.

1597. ORR, N. Which is better--frozen food locker or home freezer? *South. Agr.* 78, i.e., 79(2):74. Feb. 1949. 6 So83

Mentions the importance of the use of locker services with reference

to meat.

1598. SAUDER, O. Lockers vs. home freezers. Ill. Agr. 53(4):14. Feb.1949. 6 IL6

Their effect on meat consumption, and their relative advantages and disadvantages.

1599. SMITH, R. Medium-sized freezer plus locker storage saves farmer most. Frozen Food Indus. 3(4):14,42. Apr.1947. 389.8 F93

Points out the advantages to farm families owning home-freezer units in the use of the meat slaughtering, dressing, chilling, aging, cutting, packaging, freezing and curing services of locker plants.

1600. WARRINGTON, S. T. Home units vs. locker plants. News Farmer Coop. 12(2):12-14. May 1945. 166.2 N47

Points out the necessity for using the locker plant in conjunction with most types of home-freezer units, and predicts that the final result may be a draw, with neither locker plants nor home units replacing the other.

				<u>Item</u>					<u>Item</u>
Aaberg H C	12	230	231	909	Baker L N				1362
				910	Banter N				1535
Abrahamsen M A				152	Barber R S				823
Abrahamson A E				414	Barlow E S				198
Adams P G				319	Barnebey T				1566
Alberta Federation of					Barnicoat C R				135
Agriculture Calgary				970	Barrett J P				766
Alden R				1232	Barrick E				15
Allred C E	232	1022	1023	1136	Bauder K J				1363
Almack R B				911	Bauer P T				978
Alspaugh H P				3	Baughman E				424
American Meat Institute				525	Baum M D				733
526	912			913	Beamer E A		234		1110
Committee on Textbooks				729	Beard F				674
Committee on Recording				4	Beard F J	549	572	640	641
American Public Health									673
Association Food and Nutri-					Beckman H J				996
tion Sect Committee on					Beckman M				1527
Foods (Except Milk)				1565	Beecham H A				1018
Anderson A L				391	Been R O		997		998
Anderson E S				1233	Beier F W Jr				16
Anderson H G		642		642	Belsly M				1235
Anderson I M C				604	Bell J R				121
Anderson J D				628	Bennett K R				1138
Anderson J J				1005	Benson E T				235
Anderson N				468	Benton A H		642		643
Anderson P A		649		653	Bernstein I				17
Anderson R H		1024		1025	Bierer B W				723
Anderson T				533	Bierly I R				1236
Anderson W T				730	Birnkrant W B				792
Arant W D				914	Bjorka K	18-	20	37	156
Archibald E S				119	158	223	324	353-	355
Arkell H S				1099	368	393	416	417	999
Armentrout W W				233	Black A G				21
Armour and Co Livestock					Black D			685	861
Br				731	Blagburn C H				979
Arnason B N				120	Blakeslee L H	418	1526	1536	
Arndt L E				732			1449	1450	
Arthur I W		5	645	716	Blank M H				1167
				1137	Bletz M H				1007
Ashby R C	6-	13	153-	155	Bluck W L				236
190	195	196	320	342	Boggs M				1527
351	352	392	693-	695	Boggs M M				1524
717	718	831	1352		Bohstedt G				750
Askew R P				858	Böker H				131
Atkinson I				520	Boley L E				1567
Atkinson L J				14	Bonham E R				97
Avery H G				63	Bonini J				470
Ayres J C				37	Borg W T				916
					Bothe A				1451
Backman J		852		853	Bottomley J W				1584
Bailey N A				915	Botts R				1452
Baker A Z				321	Botts Locker Plant Valley				
Baker J				469	Center Kansas				1452
Baker J M	197	322		323					

				<u>Item</u>					<u>Item</u>
Bottum J C				1139	Canada National Advisory				
Bowles C E				237	Beef Committee				676
Boyd A G			734	735	Canada Parliament House of				
Brady D E	471	1237	1453	1454	Commons Select Standing				
				1455	Committee on Agriculture				
					and Colonization				610
Brandt A E				550	Canada Parliament House of				
Brannan C F				836	Commons Special Committee				
Bratzler L J			484	1537	on Price Spreads and Mass				
Braun W Q				1210	Buying				1100
Bray R W				750	Cannell H S				998
Bredo W				998	Caparoon C D				173
Breimeyer H F				1026	Carl F L				1540
Brennen C A				22	Carlton H	1243	1244		1367
Brereton C				862	Carnell J				1409
Briggs H M				23	Carpenter E L				1245
Briggs R C				24	Carpenter G A				1066
Broadbent D A				1000	Carr A K				740
Brookbank E B				472	Carroll W E				646
Brooker M A				238	Carson J B				451
Brown A J	157	199	200	1115	Carver W	1246-1248			1368
				1116		1410	1521		1568
Brownfield A D				917	Carver W H		1249		1522
Brownlee O H				1156	Cary C A		741		742
Brunington G				239	Cassell S K				1119
Brunk M E				1072	Cauley T P				698
Bryan J E				479	Chapman P W				1250
Buchanan M T				25	Chastain E D Jr				1029
Buechel F A				369	Chattaway G D				126
Bull S		419	646	693	Childress G L				420
695- 697	1238	1239	1364	1364	Chown W F				366
				1456	Christeson R R				1032
				736	Christopherson W				918
Bunde H J				26	Clafin C F		240		241
Burch L N				1118	Clark A R				214
Burdick R T				555	Clark C E				1458
Burgess J A			555	557	Clark R L				27
Burk L B		551	552	573	Clarkson M R	743	1569		1570
Burke M V				737	Clawson M	28	1030		1031
Burkitt W				1538	Cleland S B				373
Burkitt W H			1527	1539	Cochran R				1369
Burmeister C A				1027	Cockerill P W		370		1032
Burns R J				1240	Cohen R				1178
Burns V H				1520	Cohen R L		865		866
Burroughs F S			1365	1366	Coke J				1101
Butler J W				738	Colby L B				528
Butler K D				1409	Cole W R				1459
Butterfield J P				232	Coleman G C				548
Butz E L				1140	Coles J V				699
Butz V			647	648	Collins C E				421
					Collins G P				1141
Cady E L			356	527	Colvard D W				29
Calder A				863	Conacher H M				136
Calt R P				1242	Converse P D				30
Cameron T W M				724	Conyers L N				242
Campbell E H				739	Cook L J				408
Campbell J S				1028	Cook M J				325
Canada Dominion Marketing					Cook S V				1545
Board				837					

	Item				Item
Cooper M O	326	Dillon C E	1255	1463	1464
Co-operative Union Ltd	980			1465	1571
Coppock K	1130	Dipman C			477
Corey L	438	Dobie J			1467
Corn Belt Livestock Market-		Dodsworth E			826
ing Research Committee	158	Doll R J			36
	371	Dotter M J			1572
Cornell University Research		Dowell A A	37	156	162
Committee on Food Process-			203	204	247
ing and Storage	1460		374	394	649
Corns J B	31			1256-1258	1466
Cornwall M	1411	Downey L A			619
Cotton W P	32 159	Drabble J			819
Council Group on Livestock	1251	Drabenstott H			932
Production and Meat		Drayton L E		317	1448
Distribution	33	Dressler G			1187
Cover J H	1033	DuBois C W	1259	1508	1523
Cox R W	1095	Duddy E A	38	331	332
Crabb R	1252	DuMars M L			1336
Crampton E W	612	Dunbar J O			1143
Crew W C	327 1186	DuRant A L			249
Crickman C W	1034	Dvoracek D C	39	227	1256
Crist T	1461				
Crouch H E	191	Easterbrook L F		868	869
Cruess W V	474 475	Eckert P S	163	205	211
Cudahy Packing Co	357		212	754	1041
Cullity M	618	Edelmann R H			747
Cully M J	34	Edge G A			814
Cummings F D	476	Edinger A T	441-	444	478
Curtis N	316			479	1001
Curtiss C C	998	Edward J D		40	480
Curtiss W M	35 160 161	Eggert R J	41 394	1069	1144
201 202 338 919	1462		1258 1260-1262	1296	1586
		Elkinton C M			920
Dack G M	796	Elling C G			42
D'Agostino P	533	Ellis N R		568	1208
Daniel C	1180	Elsworth R H			250
Daniels F	1032	Emergency Conference of			
Danner M J	328- 330	Meat Packers			921
Darraah L B	1072 1416-1418	Engelman G	156	162	192
	1553 1554		203 204	649-	654
Davidson H R	137 412 626	Ensminger M E		1467	1524
Davidson J A	1450	Erdman H E			922
Davies J L	138	Erikson A			673
Davis I	244	Espe K			1036
Davis R B 529	530 532 581	Ettesvold W E		43	164
Davis W C	553- 558 606	Euler R S			1264
Davison H R	559	Eve Sir H T			870
Dawson W M	584	Evers C F			1322
Deatherage F E	560 1142	Ewing C A			44
Denman C B	245 246 1035				
Dennett L C	1481	Faircloth D D			251
Derflinger E R	744	Fankhanel W R		387	388
Des Autels G F	1541	Fargo J M			1468
Dickey E S	745	Farm Credit Admin of			
Diehl H C	1253 1254	Columbia Div of Research			252
Dildine S C	746	Farnsworth H C			973

			Item			Item
Farquhar R			1265	Ginsberg A	5 6	824
Farrell M W			838	Gleason H		1469
Farstad E	1002	1003		Gorman T C		334
Faulder E T			748	Gornall W B		141
Fenn F U	1251	1370		Gougler F		1470
Fenn College Cleveland Bur of Business Research			481	Gougler F A	1413	1471
Fenske L J	1258	1466		Gowland J S		484
Fenton F			1543	Grace L B A		825
Ferrin E F	637	649	653	Graham H A		208
Ferris J P			1587	Grant C		1391
Fetrow W W			253	Grant R		684
Fife T W			254	Gt Brit Bacon Development Board		413
Filinger G A	1266	1525		Gt Brit Imperial Economic Committee Intelligence Br		1215 1216
Filley H C			206	Gt Brit Livestock Commission		142
Finner W F			19	Gt Brit Ministry of Agricul- ture and Fisheries	873 -	875
Firor H			24	Scottish Off	876	877
Fisher F E			749	Gt Brit Ministry of Food		981
FitzGerald D A	45	832		Gt Brit Pigs Marketing Board		982
Fledderjohn H			1412	Gt Brit Second Inter-Depart- mental Committee on the Grading and Marking of Beef	634	
Fletcher P L	46	1004		Grebenik E		1111
Flory J			1540	Greenberg M		792
Flower H			318	Greenshields E		335
Fluharty L W			98	Greer H C		423
Food Manufacturers' Federa- tion Inc Bacon Curer's Sect			871	Grether E T		449
Foote F A			998	Griffiths E		1214
Forbes E F	47	833		Griffiths F P		1459
Foster G M			533	Griswold R M	1450	1526
Foster M T	445	551	562	Gross I H		1038
	566	567	591	Grummer R H		750
			872	Guest W E		1371
Fox J A			872	Guggedahl A	924 1270	1472
Fox R L	655	1425		Guin M	50	51
Frank A R			998	Gunderson N O		751
Franklin E R			54	Haag H M	375	376
Franklin N L			1573	Haak P J		1473
Fraser A H H			139	Hackedorn H	1527 1538	1539
Fraser W O	563	656	923	Hacker C		1516
Frazer A W			422	Hall H W		257
Frederick J H	48	1268		Hall W P S		752
Fribley Mrs W E			700	Hallmer F		658
Fullilove W T			207	Hamilton H G		238
Furman A			1293	Hamilton L H		543
				Hammans C W		236
Gage J B			49	Hammond J	626 635	636
Gardner B W Jr			1269	Hancock L		677
Gardner C			255	Handley R D		485
Gardner W D			256	Hankins O G	565 - 573	575
Garey L F			337	Hanks F E		258
Garrison E E			1037	Hannay A M		925
Garrity E J			657			
Gerrard F	140	633				
Gettinger D Q			333			
Gibbons C E	551	564				
Gibson E T	447	448				
Gilchrist F W	482	483				
Gill A J			542			
Gilling A T			1361			

				Item				Item
Hansen H L				361	Hollamby E R			621
Hardenbergh W				533	Hollands H F			214
Harlan C L 18	878	1145		1146	Holmes J			56
Harper J D				259	Holmes N E			1214
Harrell D N			1271	1272	Holt W A			63
Harries H W				678	Honan J E			1043
Harrington A H				1162	Hope E C			1102a
Harrington R M				1595	Hoppe J L			1395
Harris C M				556	Hopper W C	1103	1104	1171
Harris R B				53			1194	1195
Harrison E W				1361	Horlacher L J			57
Harry E L				1112	Horne L W			1210
Hartman G G		1414		1596	Hotchkiss O D			169
Hasebroock W H				1273	Howe F C			436b
Hawley W R				260	Howe P E	565	569	1208
Hayes J B				1481	Howes E W			1475
Hayner G A				1545	Hoyt E E			1053
Heck M C		1274		1474	Hucker G J			500
Hedges H				389	Hudson S C			366
Hedges T R				343	Huebner R A			754
Hedlin R				679	Hulbert H H	170	265	266
Hedlund E C	693	695		696			267	268
Heinemann C B				336	Hunt G E			646
Hemming R V				261	Hunt W E		58	59
Henderson G				360	Hunzicker B			1044
Henderson R				1231	Hurst F J		1276	1476
Hendrickson R F	926	927	1039	1039	Hurt L C			60
Henney H J	52	209	1120	929	Hussmann Refrigeration Inc			491
Henning E G				929	Hutchinson W H			1277
Henning G F	166	193	205	205				
210-	213	262	263	377	Inskeep J J			63
378	379	574	753	930	Insko W M Jr			1473
		1005	1040-1042		Institute of American Meat			
Henry D L			167	168	Packers Committee on Record-			
Henry J				1275	ing			61
Herring C L				931	International Association of			
Hertel N				1360	Milk and Food Sanitarians			
Hetzer H O				575	Committee on Sanitary			
Heywood R H				983	Engineering and Environment			1576
Hickman C W				95				
Hightower G				486	International Institute of			
Hilby M		487		488	Agriculture			1217
Hilder M H				1392	Iowa State Dept of Agricul-			
Hill C V and Co Inc				450	ture			1278
Hill H				826	Ireland (Eire) Bacon Market-			
Hill J E				1589	ing Board			847
Hiner R L				572	Ireland (Eire) Dept of Agricul-			
Hinman R B				53	ture			848
Hinton C L				821	Ireland (Eire) Pigs and Bacon			
Hirsch J				995	Commission			849
Hoadley W E Jr				424	Ireland (Eire) Pigs Marketing			
Hoag W G				264	Board			850
Hochmuth H R				54	Irish Free State Pig Industries			
Hockman R O				489	Tribunal			132
Hoey J J		1574	1575	1575	Ives J R		1073	1147
Hoffman A C				55				
					Jackson W			661
					Jackson W C			662

AUTHOR INDEX

199

			<u>Item</u>				<u>Item</u>
Jacob A W	171		1121	Lacey J	1458	1480	1484
			1148	Lacey J J			1481
Jacob I H	270		271	Lacy W S Jr			1281
Jaffe S			1396	Laguardia F H			941
Jensen H			932	Laing A D M G			409
Jesness O B			62	Laing M L			766
Jirdon J R			933	Lambrecht G H			337
Johnson E C	227	272	380	Lanctot J B			1357
Johnson H E			628	Landquist V			1528
Johnson I B			273	Lange H K			1282
Johnson L E			663	Laoghaire S U			851
Johnson R F			95	Larson A L			174
Johnson R G Jr			63	Larson J S	1283		1589
Johnson W M			64	Lattimer J E	905		1172
Johnston C I	1104		1105	Lattin T			1485
	1106	1171	1195	Lattin T E			451
			1197	Lavers C G			493
Johnston J			820	Lawrence W A			767
Johnston W C			408	Lazo H			1007
Johnstone J T			755	Learned E P			453
Jones A			143	Leckie H K	839	904	1019
Jones D D			880				1173
Jones H W			934	Lee J R			1179
Jones J M	172	534	935	Lefebvre J G			613
Jordan R			1210	Leitch J M			881
Joss E C	756	757	758	Levinson C A			768
				Lewis G M	452	650	1045
Kable G w			1279	Lewis J N			366
Kaiser A J			701	Lewis W L			782
Kalecki M			984	Libeau C P			1557
Kansas State Board of				Liles J L Jr			381
Agriculture			65	Lindgren H A		63	67
Kaplan J J			936	Lipman W H			769
Keen C A			1477	Lodin L			751
Kelley J B			1473	Loeffel W J			1544
Kenney C H			390	Long W H			1180
Kerr K B			759	Longwill A		545	627
Ketner F G			664	Lorie J H			1046
Kilpatrick W C			760	Lovell F S			1415
King E D Jr			761				
King F G			1211	McArthur I			1174
King J X			575	MacAuley C P			144
Kitchen C W			719	McAuliffe W S	127	622-	624
Kline A B			274	McCallum D H			1358
Kline B H			1588	McCammon R			911
Kline E A	1478		1479	McCandlish F I			1393
Klinefelter H E			275	McCarthy B F	557	577-	580
Knapp B Jr			576			702-	706
Kneebone H			628	McCarty H H			425
Knickerbocker M E			66	McCormick T C			1047
Koen J C			762	McCoy D C		495	1545
Koen J S	763-		765	McCoy J H			375
Kraft A A			492	MacGregor J J		145	349
Kramer R C			1280	McIntosh J			1528
Krause O E			173	McIntosh J A	1467	1487	1488
Kraybill H R	517		1211			1524	1534
Kristjanson B H			1006	McIntyre E R			536
Kunkle L E	1482		1483	McKee D			680

			<u>Item</u>				<u>Item</u>
McKim O E			773	Milton J			533
Mackintosh D L	516	1266	1533	Minoli R F			971
McLaughlin L			1053	Mitchell J W			286
McLellan J D			815	Mitchell M P	80	81	1123
McLeod A N		1416	1420			1124	1126
MacManus R D			1008	Mitchell T	1399	1400	1493
McMeekan C P	546	547	628	Mixon J A		1283	1589
			631	Moffett A G			707
McNair M P	361	453	995	Mohler J R			780
			1284	Moake I A			133
McNulty J B			272	Mollin F E		340	581
Macy R M			1048	Moninger J			537
Madnick M			1157	Moore C H			82
Maher F J			1285	Moore H K			781
Mallmann W L			1577	Moore S H			828
Malone C C			1122	Morgan E C			1053
Malott D W			70	Morris E T			884
Mandt P H			1398	Morris W E			1296
Manion J			496	Morrison W H		1297	1298
Manitoba Power Commission			1359	Morrissey W J			940
			221	Mors W P			424
Mann L B	71-75	216	221	Morse J B			582
	277-283	425a	1286-1290	Moser A M			1052
	1372	1420-1429	1443	Mosher F D			1401
			1446	Moskovits I			1220
Manning E S			122	Motts G N			382
Manor J			687	Moulton C R			782
Marsh A E			884	Mulhearn F S			995
Marshall C F tr			727	Mumford H D			479
Marshall D A B			1219	Munn R S			1107
Martin B F			70	Murray F			1009
Martin C R A			827	Murray G N		635	636
Masciuch W J			1017	Murray K A H	147	866	885
Masterman N K	497	1291	1293		886-889	1113	1114
Mather E		76	77				1181
Matlack M B			1489				1182-1184
Matzen E H	160	177	201	Muth O H			63
		338	339	Myers W I			1054
Maxton J L			1049	Nash L			1299
Maybee H J			123	National Association of Food			
Mayer G C			24	Chains Washington D C			538
Mayer O G		774	1050	National Farmers Union			890
Meat Merchandising			498	National Frozen Food Locker			
Meiks S			284	Association			1300
Meisenbach R			1491	National Live Stock and Meat			
Merchant I A			775	Board		539	1209
Merrit F			628	Dept of Meat		454-	456
Metcalf D			500	Merchandising			457
Mewis B H			479	National Live Stock Loss			
Miley D G			79	Prevention Board		397	398
Miller A R	773	774	777-779			399	400
Miller E			1492	National Provisioner Inc			426
Miller H G			146	Nelson K			299
Miller I C			1294	Nelson P M			1053
Miller J I		605	1529	Neskaug S R			232
Miller J S			1295	New York (City)			941
Miller P L		285	305	New York (State) Dept of Agri-			
Milligan O			1210	culture and Markets			1578

	<u>Item</u>			<u>Item</u>	
New York State Frozen Food Locker Association	1373		Pearson F A	1054	1055
New York (State) Trichinosis Commission	783	784	Pearson J H		86
New Zealand Dept of Agriculture	629		Peirson H M	628	630
Newell H M	501		Pennington M E		1530
Newton J T	209		Perring C		892
Nicholas J E	502		Perry R W		666
Nicholls W H	427	428 429	Peters R A		24
		430 942	Pettee J C		384
Nichols L E		1402	Phelps E B		1301
Nickerson J		503	Phillips C D	87 157	178
Nielander W A		943		199 200 385	1188
Nodland T R		83	Phillips R A		1056
Noonan J E		785	Phillips R W		584
North Central Livestock Marketing Research Committee		1149	Phipenny R L		504
Northern Ireland Ministry of Agriculture	148	149	Pierce J C		585
Northern Ireland Pigs Marketing Board		150	Pierce L		1579
Norton L J		342	Piper E H	1303 1498	1553
O'Brien J E	1403	1404			1554
Ochojski C		1546	Plager C		667
Oliver A W	63 67 458	1494	Poling E B	213 262 377	1042
		1495	Pollock R C	1057 1189	1190
Olney A J		1473	Pond J		1038
Olson F C		646	Poole J		944
Olson R E		1256	Poole J E	88 1058	1125
Oranger L D		1496	Potter A F		288 586
Oregon Dept of Agriculture			Potter E L	67 458	587
Div of Animal Industry		383	Powell J C	668 1022	1023
Orr N	1590	1597	Praskie J		1017
Osgood O T	217	343	Prewett F J		1133
Ostertag R von		727	Pritchett W M		89
Otto M L		1301	Producers Live Stock Commission Association		289
Oxford University Agricultural Economics Research Institute		891	Producers Livestock Cooperative Association		290
			Prouty C C	1467	1524
Palmer R A		893	Punter A W		689
Pals C H		786	Purcell M H		90
Papet P		1430	Purnell R G		1499
Parke H H	84	287	Quackenbush G G		1224
Parker J R		63	Queensland Meat Industry Board		128
Parr K	998	1010	Quick Frozen Foods and the Locker Plant		1304
Parsons F L	375	1150	Quidnunc A N	1517 1518	1583
Parvin D W	218 219	220			
Paterson G R		986	Ramsbottom J M	513	588
Patridge J J		1497	Randell C G	91 221	291
Patterson D G		650		292 293 294	295
Paul J W		1374	Ranney H F		1591
Peake O B		85	Raskopf B D	328 329	330
Pearsall D		682			346
Pearsall L W		681	Rath R A	533	540
Pearson A M		1529	Rather A W		899
			Rauth W		1430
			Ray V B		683
			Raymond J		367
			Redeker P B		1376

			<u>Item</u>					<u>Item</u>
Reed E G			401	Schultz T W	101	1154	1155	
Reed H E	341	589	669				1156	1226
	671	720	843	Schwartz B				789
Rehnberg R D			92	Scobel S				1377
Reid E B			946	Scotland Fat Stock Marketing				
Reiman W			560	Reorganization Commission				900
Reimers D H			93	Scott G A				1201
Reiner G E			787	Scott R C		1067	1068	
Reiss F J			1151	Scott Watson J A		147	1114	
Revzan D A		38	94	Scottish National Development				
Revzan D R			331	Council Sheep Subcommittee				151
Richards P.		362	1060	Searls E N		1310	1378	
	1062	1063	1152	1225	1228			1311
Richardson P P			1185	Seaton H L				625
Richter J H			976a	Seddon H R				790
Riley G W			788	Seher O W				517
Rinehart E F			95	Sellar R F				402
Ringer I W			708	Seltzer R E				1069
Ringham F E			1431	Senn E				1176
Roberts H E			690	Severson A				590
Roberts J			1524	Shafer W S				506
Roberts J F			363	Shaffer A W				548
Robertson A		725	824	Shannon A T				134
Robertson L		97	1126	Shaul J R H				1134
Robinson J M			1555	Shaw E B				791
Rochford L H		98	1153	Shaw T				901
Rodenwold B W			458	Shealy A L		102	403	
Rogers M T			1547	Shellabarger L C				1312
Roper E			1064	Shelor E				520
Rose G A			816	Shelton E J				129
Ross W D		410	411	Shepherd E M				103
Rowan W S		345	346	Shepherd G 103	179	194	285	
Rudd R W			1188	299	638	639	640	641
Rudolph W		1405	1406	673	674	834	942	948
Rueckert D E			505					1070
Rusk H P			351	Shepherd G S	104	947	949	
Russell G			431	Shepperd J H				590
Russell J S			672	Shera G				1230
Russell R			1305	Sherman R W	1313	1314	1315	
Russell R S			840		1503	1558	1559	
Russell S F			296	Shoemaker W W		1071	1227	
Rutherford M E E			989	Shookhoff H B				792
Rutherford R S G			989	Shrewsbury C L		1210	1211	
				Shuman C B				300
Salisbury G			297	Shuttleworth P O				1549
Salvatore P D			1065	Silvester P B				793
Sampier J			298	Simmons W M				1072
Sant P T			1136	Sims G J		1073	1191	
Sauder O			1598	Skilbeck D				350
Saunderson M H		99	100	Slack A J				817
Schaars M A		650	1306	Slagsvold P L				163
		1308	1556	Slater D J	563	591	592	
Schickele R		1154	1155	Slotkin H				459
Schlageter G O			1309	Smith C E				460
Schmals C N			1011	Smith C M				1136
Schmidt W C			1502	Smith E B				186
Schneider J B			1066	Smith F C				1316
Schrader F M		1131	1132	1175	Smith F E			593

AUTHOR INDEX

173

	<u>Item</u>				<u>Item</u>
Smith H K	1242				1221
Smith H R	404				1161
Smith Mrs J	1317				797
Smith L J	1318				995
Smith M A	949			453	512
Smith P C	594			511	1381
Smith R	1599				1321
Smith R Q	364				721
Snapp R R	595				24
Snow J C	1592				425
Snyder R W	1504				182
Sorrells J H	1037			180 181	182
Sotola J	1467 1524			183 184 185	223 304
Spafford W J	408			306	597 1012
Spann R N	990			Thomsen F L	18 186 387
Sparkman H C	1408				388
Specht F W	509 510			Thorne G B	835 1079 1228
Spencer E G	1319			Thornton H	830 829
Spooner H	1560			Timmons D E	71
Spooner H L	1505			Tobin B F	1013
Spooner J H	793			Todd F A	822
Spring A W	1561			Todd S E	124 125
Sprunger S C	222			Todoroff A	1382
Spurrell F A	794			Tontz R L	1162
Squire E G	1580			Tracey M B	106
Staehle H	1074			Tressler D K	1322 1323 1532
Stanley J E	1432				1507 1508
Stark D H	1157			Trewhitt L C	224
Starr G W	105			Truscott J H L	1519
Staub A F	795			Tucker H	347
Steele W	1581			Tucker M	1245
Steinkraus K H	737			Tucker R	225
Stephens F B	135			Turley L	1550
Stewart A	126			Turner H	1324 1383
Stine O C	1158 1192			U S Agricultural Adjustment	
Stokes D R	479 998			Admin	108 1163-1169
Stokes E C	1283 1589			U S Agricultural Marketing	
Stothart J G	614			Serv	598 599 710 1080
Stout W B	574 1127 1159 1193			U S Agricultural Research	
Stover H J	1160			Admin	107
Strand N	179			U S Bur of Agricultural	
Strand N V	194			Economics	109 365 600
Strandine E J	588				950 1081-1086 1202 1203
Straus S F	1320			U S Bur of Animal Industry	798
Strohm D B	480				799- 803
Strong C L	596			U S Bur of Human Nutrition	
Stubbs C	301			and Home Economics	1087-1091
Sulzbacher W L	1212			U S Bur of Reclamation	1325
Super Market Merchandising	461			U S Congress House Committee	
Surgalla M	796			on Agriculture	110 111 804
Swain J B	626				951
Swanson D L	302 303 1076			U S Congress Senate Committee	
	1077			on Banking and Currency	836
Swift and Co	1078				952
Switzer D	1380			U S Dept of Agriculture	1204
				War Board	953
Tapley J H	1198			U S Employment Serv Div of	
				Standards and Research	433
					434

	<u>Item</u>			<u>Item</u>
U S Extension Serv	112 954	Vrooman C W	126	463
	1326 1327			
U S Federal Trade Commis- sion	113 462 1015	Wade W		523
U S Food Distribution Admin	955- 957	Waite W C	1094	1095
U S Forest Serv	114	Walker D E		631
U S Livestock Sanitary Association	807	Walker R		906
Committee on Community		Walker V R		1384
Auction Sale	805	Wallace J K	604	1128
Committee on Meat and Milk Hygiene	806	Wallace W D	961	962
Special Committee on Community Auction Sales	808 809	Walsh R M		1229
Special Committee on Operation of Livestock Auction Markets	226	Walworth G	467 902	903
U S Navy Dept Bur of Supplies and Accounts	435	Wanderstock J J	492	605
U S Off of Administrator of Research and Marketing Act Livestock Advisory Committee	115	Wang H		812
U S Off of Foreign Agricul- tural Relations	1222	Ward G H	307 1329	1330
U S Off of Marketing Serv	810	Warman W H		692
U S Off of Price Admin	958	Warner K F	1331-1338	1385
U S Production and Market- ing Admin	601		1582	1593
Livestock Br	602 811 1205-1207	Warrington S T	227 247	1258
U S Rural Electrification Admin	1509		1296 1339 1340 1341-1349	1349
U S Tariff Commission	1223		1386-1388 1433-1440	1466
U S War Dept	436		1562 1563 1564	1600
U S War Food Admin	959 1092	Washington (State) State Plan- ning Council		1096
U S War Meat Board	1206	Waterbury E S		1097
U S War Production Board Foods Requirements Commit- tee	960	Watkins G		121
Urbain W M	513	Watt D B		516
Urton D	514	Waugh F V		116
Vail G E	1533	Weaver A D		1552
Valentine D	1394	Webb B H		517
Valz A M	515	Webb J		228
Van Cleve R	1166	Webb R J		695
Van Eseltine W P	500	Weitkamp N E		1210
Vaughan H W	603	Wellington G H		1533
Vennes L A	1093	Welliver W		1389
Vestal C M	1210 1211	Wells O V		1168
Vial EE	1055	Wendt B S		389
Vickery J R	1214	Wentworth E N	308	1098
Viguerie P de	1109	Whalin C V	552 554 606	607
Vollertsen J J	1213		711 712 713	1014
Voorhies E C	1167	Whitacre W R		1350
		White A E		813
		White E D		309
		White J M		1441
		White J W		217
		Whitmore R A		517
		Wickard C R	963-	966
		Wiley J R	167 405 406	1264
		Wilford E J		1473
		Wilkins P C	1286 1342	1420
			1424 1425 1428 1433	1435
			1436 1439 1442 1443-	1446
		Williams C P		375
		Williams E E		464
		Williams J R	548 616	1177
		Williams R J		1407
		Williamson F		1447
		Wills W J	187 188 1016	1169
			1352	1594

AUTHOR INDEX

175

			<u>Item</u>				<u>Item</u>
Wilson A F			348	Woodruff S			1512
Wilson F R			1353	Woods E L			63
Wilson P O	117	189	310	Working E J	969	1170	
	311 - 313	608	967	Wright N			818
Wilson R			118	Wright N L			626
Wilson and Co Chicago			609	Wycoff E			1377
Winans W E			518	Wynne G			1355
Wing W P			541				
Winsor K			497	Young E			1528
Winter J D			519	Young E J			1534
Wishart S			1377	Young T D	727	728	
Witte J W	465	1390	1510	Yung F			1544
Wood A			714	Zeller J H			575
Wood G B			1264	Zi			844
Wood G W			121	Ziegler P T	1356	1513	1514
Wood R O			1199				1515
Woodcock A H			615	Ziembra J V	521	522	
Woodroof J G	520	1354	1511				

	<u>Item</u>		<u>Item</u>	
Agricultural Adjustment Act	365	833	Bacon--Cont.	
Agricultural Development Act (Gt Brit)	855		international trade--cont.	
Agricultural Marketing Act (Gt Brit)	871	894	Eire	849
Alderson [West Virginia]			England	436a
Food Lockers	1379		Government regulation	
American Farm Bur Federation	2		Canada	839
American Meat Institute	426		Eire	847
526 528 533 537	1064		Gt Brit	862
Committee on Recording	415		Gt Brit	904 905
American National Livestock Association	340		Netherlands	1219
American Society of Animal Production	25		New Zealand	1185
American Steak Co	499		United Kingdom	1185 1219
Anti-trust laws	716		marketing	
Bacon			Canada	141
Anglo-Dutch agreement	1219		costs	
Canadian			Gt Brit	1018
international trade	1176		Eire	132
carcasses. <u>See</u> Hogs, carcasses and Pigs, carcasses.			margins	
consumer attitudes and preferences			Canada	1017
England	542		Gt Brit	1018
consumption			United Kingdom	141 875
Canada	1102 1104	1171	marketing control programs	
Gt Brit		1173	Canada	839 840
United Kingdom		1111	Eire	847- 849 851
educational and advertising programs			Gt Brit	856 857 859
Eire	847		860 860a 871 873 876	877 882 884 893 894
Government purchase			897 898 902 903	993
Canada	840		Ireland	845
Government regulation			Northern Ireland	891
Eire	848		United Kingdom	879
Gt Brit	122	466	packaging and prepackaging	
grades and grading				486
Australia	542		packaging materials	486 513
Canada	611	615	packing	
Gt Brit	689	881	inspection and sanitation	415
industry			price control	
cooperatives			Canada	904 905
Denmark		436a	Eire	849 851
international trade	1185	1228	Gt Brit	856 881 889
Australia		1185	894 897 904	905
Canada	904	905 1135	Ireland	845
		1173 1185	price relationships	
Denmark		436a 1185	Canada	1107a 1135 1175
			Europe	1135
			Gt Brit	1181
			international trade	1086
			prices	
			Canada	1173
			Gt Brit	862 886 891 1018
			Netherlands	1219
			United Kingdom	141 1219
			processing	426

	<u>Item</u>		<u>Item</u>
Bacon--Cont.			
production control programs			
Eire	850		
quality	11		
Denmark	542		
Gt Brit	413		
North Dakota	590		
rationing			
Gt Brit	980	988	
United Kingdom	141	981	
standardization			
Australia	542		
storage			
Canada	1173		
United Kingdom	141		
supply and demand			
Gt Brit	897		
wholesaling and retailing			
California	449		
yields	575		
Bacon Industry Act (Gt Brit)	860		
872 881 893	896		
Baker [Oregon] Cooperative			
Shipping Association	260		
Barrows			
carcasses			
grades	648		
standards	602		
Baton Rouge Abattoir	322		
Beef			
Argentine Republic			
restrictions on U S			
importation	791		
boning	4		
canned			
bacteria	796		
chilling	4		
conservation	17		
consumption	90 832 1020		
1021 1030 1074			
Arkansas	1047		
Australia	1020 1021		
Belgium	1020 1021		
Canada	1020 1021 1102		
1104 1129 1198			
economic and social factors	1094		
France	1020 1021		
Germany	1020 1021		
Gt Brit	147 1134		
Indiana	1127		
Netherlands	1020		
New Zealand	1020 1021		
South Carolina	1052		
United Kingdom	1020 1021		
Washington	1096		
cuts	554 599 1522		
Beef--Cont.			
cuts--cont.			
grading	567 569	588	
cutting	4 454	465	
dried			
packaging and prepackaging		470	
packaging materials		513	
educational and advertising			
programs	526 529-	532	
Gt Brit		634	
effect of aging		418	
fat			
effect of storage		1208	
freezing		1529	
frozen			
effect of storage		418	
packaging materials		489	
499			
quality			
Australia		128	
Government regulation		581	
grades and grading		553	
554 558 561 573	577		
578- 581 585 598	599		
606 608	710		
advantages	559 580	598	
Australia		620	
consumer attitudes and			
preferences			
Illinois	693-	695	
costs			
Gt Brit		634	
effect of feeding		605	
Gt Brit	634	715	
history		578	
Indiana		1123	
legislation			
New York		713	
international trade	40	1215	
1217			
Government regulation		832	
Gt Brit		862	
market statistics		1202	
marketing		4 107	
Florida		71	
margins	832 962	998	
1009			
Indiana		1123	
Ohio		1005	
marketing control programs			
Gt Brit		883	
markets			
postwar			
Canada		1130	
price control	40 920	962	
968			

	<u>Item</u>		<u>Item</u>	
Beef--Cont.			Calves--Cont.	
price control--cont.			cooperatives	
Germany	873 975		Michigan	297
price relationships	1074 1186		Tennessee	232
			direct marketing	353 354
Canada	1102a		farm income	1082 1085
Gt Brit	1133 1134		grades and grading	552 591
price trends				599
Canada	1132		North Dakota	643
prices	1098		international trade	90
England	1215		market statistics	1202 1203
Gt Brit	147 891 1113			1206 1207
processing	4 433		Iowa	45
Gt Brit	140		Kentucky	200
U S Navy	435		Texas	369
production	1215		marketing	
rationing	40		costs	1002
sarcosporidiosis			terminal markets	
Illinois	812		New Jersey	338
shrinkage			New York	338
Michigan	1537		England	145
stewing			margins	1015
price relationships			price relationships	1116
Canada	1131		Arkansas	
supply and demand	36 1031		West Fort Smith	343
	1066 1094		Kentucky	1115-1117
Indiana	1123		prices	1083 1116
types			Kentucky	1116
consumer attitudes and preferences			production	1082 1085
Gt Brit	1133		public markets	
wholesaling and retailing	461		Oklahoma	
Illinois	695		Oklahoma City	335
Beef extract			Washington	
processing	4		Spokane	347
Bellows Falls [Vermont]			sale by carcass weight and grade	651
Locker Plant	1415		slaughter	4 90 416
Black Pact	862		1203 1206 1207 1356	1522
British Columbia Sheep Breeders' Marketing Scheme	837		transportation	90
			rail	
			costs	1002
California Farm Bur Marketing Association	224		Michigan	382
Calves			Texas	369
auctions			truck	
Kentucky	200		costs	1002
carcasses			Michigan	382
cuts	443 1336		Cattle	
grades and grading	556		carcasses	
pricing	443		composition	567 609
classes	552 591		cuts	
North Dakota	643		percentages	443
commission companies			grading	4 569 571
New Jersey			572 582 588	601
Jersey City	338		pricing	443
New York			transportation	4
Buffalo	338		central markets	
			Colorado	
			Denver	1153

SUBJECT INDEX

179

	<u>Item</u>			<u>Item</u>	
Cattle--Cont.			Cattle--Cont.		
central markets--cont.			marketing--cont.		
Montana		163	channels		
classes 552 563	603		Montana		163
Montana		604	Colorado		85
North Dakota	642	643	Corn Belt		103
cooperatives	246	286	costs	1002	1007
Canada			England		145
Saskatchewan		317	Florida		102
Iowa		239	income		91
Tennessee		232	Kansas		65
direct marketing	353-	355	Kentucky		1093
England		858	margins	832 962	1007
Iowa		239			1015
distribution			Indiana		1123
costs		832	Ohio		1005
farm income	1082	1085	Minnesota		156
Government purchase		832	Mississippi		79
Gt Brit		878	Montana		163
grades and grading	552 563	563	Northern Ireland		148
	573 606	607	Oklahoma		1121
Canada		679	policies and programs		22
Florida		102	Canada		119
Gt Brit	687	878	trends		
Indiana		15	Western States		99
Montana		604	West Coast		76
North Dakota	642	643	World War II	950	953
relation to beef grades		579	Wyoming		77
industry			marketing control programs		
outlook		36			832
policies and programs		36	Gt Brit	858 864	878
inspection and sanitation			Oklahoma		595
California		740	price control	920 940 961	961
New Zealand	409	410		962	1200
terminology		731	Canada		970
Wyoming		76	Gt Brit		864
international trade	90	1066	price relationships	1030	1046
	1215	1217		1058 1065	1119 1125
Ireland		1230	Arkansas		
live weight			West Fort Smith		343
relation to yield			Colorado	1118	1153
Gt Brit		687	Indiana	1123	1124 1126
losses					1127
experiments		407	Iowa		1036 1122
New Zealand	409	410	Oklahoma		1121
market news			price support		917
Wyoming		77	price trends		
market statistics	1202	1203	Canada		1132
	1206	1207	Oklahoma		1121
Corn Belt		20	prices		1083
Iowa		45	Canada		126
Minnesota		156	Gt Brit		878
South Dakota		159	Kentucky		1093
Texas		369	Virginia		1029
marketing	12	90	processing tax		832
California		98	production	1082 1085	1215
Canada		126	Kentucky		1093

				<u>Item</u>					<u>Item</u>
Cattle--Cont.									Cattle--Cont.
public markets									tuberculous-exposed
Oklahoma									transportation
Oklahoma City				335					California
Washington									740
Spokane				347					types
60	64								603
marketing				114					Cattle Industry (Emergency
				1128					Provisions) Act (Gt Brit)
Colorado				85					864
sale by carcass weight and									Central Cooperative Associa-
grade				651					tion South St Paul
Australia				684					256
Canada				676					Central Livestock Associa-
Gt Brit				691					tion Inc South St Paul
Minnesota		649		650					301
Ohio									Chicago Producers' Com-
Cleveland				658					mission Association
sale on live weight basis									287
Australia				684					Chicago Stock Yards
sales									812
as measures of business									Clarkesville [Georgia] Com-
conditions									munity Freezer Locker
Indiana				105					Plant
shrinkage									1402
Florida				102					Clinton County [Ohio] Lamb
slaughter	4	90	416	433					and Fleece Improvement
1203	1206	1207	1356	1522					Association
Gt Brit				634					236
Illinois				1594					Consumer attitudes and
standardization				606					preferences
subsidies	917	940		961					5 24 53
Gt Brit				858					448 460 468 477- 479
United Kingdom				879					503 512 535 539 645
supply and demand									659 664 666 700 1037
California				1153					1044 1057 1064 1075 1091
Colorado				1153					1187 1189 1142 1244 1317
Eastern States				1153					1326
Iowa				1036					California
transportation				90					482
Florida				102					Canada
losses									1198
New Zealand		409		410					Montreal
Montana				163					1196
rail									Saint John
costs				1002					Vancouver
Michigan				382					1196
Oklahoma				335					England
rates									542
Missouri				387					Gt Brit
Texas				369					1133
truck									Illinois
costs				1002					646 695
Michigan				382					Decatur
Florida				102					693 694
Oklahoma				335					Stark County
rates									1166
Missouri				387					Indiana
Texas				369					1264
truck									Iowa
costs				1002					597 1398
Michigan				382					Kansas
Florida				102					1261 1262
Oklahoma				335					Minnesota
rates									1258
Missouri				387					Mississippi Valley
Texas				369					1190
truck									Missouri
costs				1002					911
Michigan				382					Montana
Florida				102					604
Oklahoma				335					Nebraska
rates									1097
Missouri				387					New York
Texas				369					1068 1291
truck									Syracuse
costs				1002					1024 1025
Michigan				382					Ohio
Florida				102					1313 1503
Oklahoma				335					Cleveland
rates									481
Missouri				387					Pennsylvania
Texas				369					1595
truck									Virginia
costs				1002					1330
Michigan				382					Cooperative Grange League
Florida				102					1414
Oklahoma				335					Cooperatives
rates									Gt Brit
Missouri				387					980
Texas				369					Cry O Vac
truck									490 524 1547
costs				1002					
Michigan				382					
Florida				102					
Oklahoma				335					
rates									
Missouri				387					

	<u>Item</u>		<u>Item</u>
Eastern Livestock Co-operative Marketing Association	279	Frozen-food lockers--Cont. as a side line--cont.	
Eastern Order Buying Co	290	Arkansas	1403
El Paso Union Stockyards	89	California	1396
Empire Livestock Marketing Cooperative	244 261 267	Canada	
Equity Cooperative Livestock Sales Association Milwaukee	240	Ontario	1408
Farmers' Union of Kansas	275	Denmark	1360
Fats and oils		Georgia	1402
consumption		Illinois	1396
Germany	844	Iowa	1299 1397 1398
marketing control programs		Kansas	1261
Germany	844	Midwestern States	1404
processing	4	Minnesota	1256 1260
rationing		New York	1303 1396
Germany	976	Ohio	1396 1407
Florida Frozen Food Products Inc Tampa	1451	Pennsylvania	1400 1401 1405 1406
Food for Freedom Program	953	Southern States	1250
Foot and mouth disease		West Virginia	1400
Argentine Republic	791	branch plants	1242 1246 1247 1341 1381 1382 1387 1423 1471 1499 1562
Fort Worth Stockyards	89	California	1491
Frozen Food Locker Institute Inc	1265	Illinois	1413 1422 1445 1446
Frozen-food lockers	37 1346 1356	Iowa	1249
advantages and disadvantages		Midwestern States	1437
1242 1243 1246 1248 1251		Minnesota	1437
1252 1269 1279 1294 1302		Wisconsin	1308
1306 1323 1325 1331 1332		California	
1337 1339 1343 1344 1345		Los Angeles	1396
1348 1353 1362 1377 1385		South Gate	1486
1387 1392 1456 1564 1590		Canada	
1593 1598 1599 1600		British Columbia	1516
Arkansas	1274 1474	Colorado	
Canada	1357 1448	Fort Collins	1561
Manitoba	1359	competition	1247 1265 1341 1381 1384
Indiana	1430	cooperatives	1339 1420 1423 1425-1429 1433 1440 1448
Kansas	1261 1262	Canada	1357 1448
Michigan	1280	Illinois	1410 1413 1421 1422 1431 1438 1442-1445 1470
Minnesota	1256 1296 1347	Indiana	1412 1430
Mississippi	1499	Louisiana	1447
North Carolina	1237	Midwestern States	1437
Ohio	1313	Minnesota	1347 1435-1437 1439
Southern States	1587	Mississippi	1432 1435 1476
Utah	1328	New York	1414 1416 1419
Wisconsin	1556	Oklahoma	1441
and rationing	1234 1336 1506	Texas	1435
Indiana	1264 1295	Vermont	1411 1415
Ohio	1315	Virginia	1435
Arkansas		Wisconsin	1308
Earle	1403 1797	Denmark	1360
as a side line	1239 1265 1286	directories	1300
1290 1294 1331 1395 1399		Virginia	1320
	1440		

	<u>Item</u>		<u>Item</u>
Frozen-food lockers--Cont.			Frozen-food lockers--Cont.
discounts	1233	1584	Georgia
educational and advertising			Clarkesville
programs	1309	1316	Tifton
1364	1371	1376	1382
		1391	1392-1394
		1480	Government regulation
Southern States		1250	1568
Vermont		1415	1576
effect of home freezers		1239	California
1244	1248	1265	1574
1289	1323		Canada
1333	1343	1369	1583
1377	1381		New York
1383	1550	1596-1600	Oregon
California		1491	1579
Iowa		1277	Virginia
1285		1285	1573
Midwestern States		1330	Illinois
Minnesota		1296	Chicago
New York	1292	1409	1396
		1417	1419
		1419	Galesburg
Ohio	1297	1313	1330
Pennsylvania		1314	Lacon
1595		1595	Morton
Wisconsin		1307	1505
effect of wartime conditions			income
1248	1303		1268
1252	1424	1590	1271
1598		1598	1289
effect on meat consumption			1399
1252	1424	1590	1420
1598		1598	1425
Georgia		1271	1427
Illinois		1594	1427
Kansas		1261	Illinois
Minnesota	1258	1585	1310
Southern States		1587	1378
effect on meat distribution			1410
1248	1337	1427	1438
1456	1584	1584	1438
1586	1591	1593	Michigan
1593		1589	1280
Arizona		1589	Minnesota
Illinois		1352	1258
Pennsylvania	1351	1588	New York
Tennessee		1592	1553
Florida			1554
Tampa		1451	Southern States
freezing	1279	1283	1250
1323	1332	1334	1375
1338	1348	1348	Virginia
1371	1475	1478	1329
1479	1483	1483	Indiana
1487	1489	1504	Lafayette
1514	1515	1515	1295
1515	1529	1529	Wabash
1486		1486	1412
California			industry
Canada			and frozen-food packers
Manitoba		1359	1253
Denmark		1360	and refrigerated warehouses
Georgia		1354	1253
Illinois		1421	development and size
Iowa		1278	1234
Kansas		1278	1236
1232		1232	1238
Kentucky		1473	1241
Michigan		1536	1242
Mississippi		1432	1244
New York	1409	1417	1246-1248
Ohio		1482	1252
Wisconsin		1461	1263
			1265
			1267
			1281
			1283
			1290
			1294
			1302
			1310
			1311
			1316
			1322
			1323
			1327
			1335
			1337
			1338-1340
			1343
			1345
			1348
			1355
			1386
			1420
			1424
			1427
			1428
			1429
			1433-1435
			1440
			1476
			1507
			1562
			Arkansas
			1274
			Canada
			1357
			Alberta
			1358
			Denmark
			1360
			Georgia
			1271
			1272
			Illinois
			1310
			1422
			1445
			1446
			Iowa
			1240
			1249
			1275
			1278
			1282
			1285
			1312
			1368
			1472
			Kansas
			1232
			1261
			1262
			1301
			1525
			Michigan
			1311
			Mississippi
			1256
			1258
			1260
			1347
			Mississippi
			1276
			1476

	<u>Item</u>				<u>Item</u>		
Frozen-food lockers--Cont.				Frozen-food lockers--Cont.			
industry--cont.				Mississippi			
development and size--cont.				Chickasaw County			1499
New York	1259	1303	1462	Leake County			1476
			1498	Lee County			1499
North Carolina	1237	1454	1455	Rankin County			1476
			1315	Nebraska			
Ohio			1275	Custer County			1552
Oregon			1351	New Jersey			
Pennsylvania	1350		1251	Newton			1366
South Dakota			1328	Salem County			1493
Utah			1330	New York			1508
Virginia	1281	1320	1308	Ithaca	1292	1409	1414
Wisconsin	918	1307	1308			1416-	1419
			1461	New York City			1396
Wyoming			1321	Ohio			
effect on farm economy			1242	Cleveland			1396
outlook	1289	1290	1355	Lima			1407
			1427	Mansfield			1297
Wisconsin			1307	Oklahoma			
trends	1288	1289	1304	Greer County			1441
inspection and sanitation			1283	operating costs		1289	1294
1317	1319	1322	1332	1306	1359	1388	1420
1355	1365	1425	1427				1427
1478	1479	1487	1496	Canada			1448
1513	1565	1566	1567	Georgia			1383
1570	1571	1572	1576	Illinois	1310	1378	1410
			1580				1438
California			1574	Michigan			1280
Canada			1583	Minnesota		1439	1563
Alberta			1358	New York		1553	1554
Illinois			1470	Southeastern States			1375
Kentucky			1473	organization and operation			
New York			1578	1254	1267	1268	1273
Ohio			1482	1289	1290	1293	1298
Oregon		1579	1581	1319	1322	1346	1355
South Dakota			1251	1364	1370	1372-	1374
Virginia			1573	1380	1384-	1386	1388
Wisconsin			1308	1420	1425	1427	1429
investment	1316	1331	1359	1448	1456	1460	1464
			1388				1471
Georgia			1383				1490
Illinois		1378	1438	Alabama			1284
Minnesota	1258	1466	1563	Arkansas			1403
New York			1553	Canada			1448
Iowa				Georgia			1383
Gowrie			1397	Illinois	1378	1431	1438
Oskaloosa			1299			1442-	1444
Ottumwa			1299	Iowa			1398
Louisiana				Minnesota	1347	1436	1466
Natchitoches			1447	New York			1292
margins			1306	Ohio	1297	1558	1559
Illinois			1352	postwar			1288
South Dakota			1251	South Dakota			1251
Midwestern States			1508	Southeastern States			1367
Minnesota							1375
Meeker County			1437	Virginia			1329
Wright County	1436	1439		Washington			1318
				Wisconsin			1557

	<u>Item</u>					<u>Item</u>			
Frozen-food lockers--Cont.					Frozen-food lockers--Cont.				
organization and operation--					patron attitudes and preferences				
cont.					--cont.				
World War II	1344	1349			Ohio	1313	1503		
	1387	1593			Pennsylvania		1595		
Virginia		1330			Virginia		1330		
outlook					patrons and patronage		1239		
Illinois		1444			1241-1242	1246	1248	1267	
ownership	1268	1322	1331		1268 1273	1286	1293	1302	
1339 1342-1343	1348	1423			1331 1338	1340-1342	1345		
1424					1420 1427	1429	1490	1535	
Canada		1357						1586	
Georgia		1324			Georgia			1272	
Iowa		1278			Illinois			1594	
Kansas		1261			Iowa	1249	1278	1299	
Minnesota	1256	1260	1347		Kansas		1261	1301	
New York		1236			Minnesota		1256	1347	
Ohio		1314			New York	1291-1292	1416		
Virginia		1281						1419	
packaging and packaging ma-					Ohio		1314	1407	
terials	1239	1269	1283	1293	Pennsylvania			1351	
1317 1319	1322-1323	1332			Wisconsin	918	1308	1556	
1338 1348	1364	1369	1382		Pennsylvania				
1392 1449	1450	1475	1478		Erie	1401	1405-1406		
1479 1483	1489	1490	1495		plants				
1504 1507	1509	1513-1515			capacity	1244	1286	1289	
1523 1535	1540	1542	1543			1340-1342	1420		
		1545-1551			Kansas			1301	
Arizona		1589			Minnesota			1260	
California	1486	1491			Wisconsin			1307	
Canada		1519			distance from patrons				
Illinois	1389	1457	1541		Denmark			1360	
Iowa		1312	1472		Minnesota			1585	
Kansas		1266	1533		New York		1291	1416	
Kentucky			1473		Ohio		1313-1314		
Michigan	1526	1536	1537		location	1242	1268	1270	
Mississippi			1476		1283 1286	1290	1294	1316	
Nebraska		1544	1552		1339	1341-1342	1355		
New York	1291	1414	1462		Denmark			1360	
		1508	1532		Georgia			1271	
North Carolina			1455		Illinois		1378	1594	
Ohio		1482	1503		Iowa			1249	
Oregon			1494		Kansas			1262	
Pennsylvania			1350		Michigan			1536	
Utah			1492		Minnesota			1256	
Washington	1305	1524	1527		New York			1236	
		1538-1539			size	1234	1240	1268	1270
Wisconsin		1458	1461			1322	1331	1345	
Wyoming			1321		Arkansas			1274	
patron attitudes and prefer-					Denmark			1360	
ences	1306	1317	1326	1586	Georgia		1271-1272		
				1590	Iowa			1240	
Denmark			1360		New York			1553	
Indiana			1264		Virginia			1330	
Iowa			1398		Wisconsin		1307-1308		
Kansas		1261-1262			postwar period			1239	
Minnesota			1258		processing	1234	1239	1263	
New York			1291		1289 1293	1302	1306	1317	

	<u>Item</u>					<u>Item</u>			
Frozen-food lockers--Cont.					Frozen-food lockers--Cont.				
services and service charges					storage--cont.				
--cont.					Oregon				1494
Mississippi				1276	Pennsylvania	1350			1351
New Jersey				1493					1588
New York	1236	1259		1291	South Dakota				1251
1292	1414	1508	1553	1554	Washington	1467	1524		1527
North Carolina				1555		1528	1538		1539
Ohio	1297	1314	1407	1503	Wisconsin		1307		1481
Pennsylvania			1350	1351	Western States				1508
				1588	Vermont				
Southern States		1250		1375	Bellows Falls				1415
Utah				1328	Middleburg				1411
Virginia	1281	1320		1330	West Virginia				
Washington				1305	Alderson				1379
West Virginia				1379	wholesaling and retailing				1283
Wisconsin	918	1308	1461	1556-1557	1309	1341	1342	1369	1376
						1377	1428	1485	1584
slaughter	1234	1239		1241	California				1491
1255	1279	1283	1286	1288	Illinois	1352	1389		1560
1293	1322	1323	1331	1336	Minnesota				1564
1338	1342	1348	1382	1399	New Jersey				1366
1425	1426	1449	1450	1460					
1463-1465	1469	1471	1478		Gaskill's Frosted Food Locker				
1480	1489	1496	1502		Plant, Elmer N J				1493
Georgia			1402	1511	Gay's Refrigerated Lockers				
Illinois	1352	1421	1422		Iowa City and Oxford Iowa				1282
1444-1445	1457	1470	1505		General Motors Corporation				
Indiana			1264		Frigidaire Div				1545
Iowa	1277	1312	1397	1472	Gilbert F Spath Frozen Food Lock- er Plant Erie				1401
Kansas			1266	1301	Gilts				
Mississippi			1476	1499	standards				602
New Jersey				1493	Gobel Adolf Inc				446
New York	1409	1414	1417		Gulf Co-operative Marketing Association Inc				251
North Carolina				1455					
Ohio		1315	1482		Ham				
South Dakota				1251	consumption				
Virginia			1329	1330	Canada	1102	1104		1171
storage	1269	1287	1290	1306	South Carolina				1052
1334	1348	1354	1371	1381	inspection and sanitation				
1435	1449	1450	1456	1475	New Jersey				793
1478-1480	1482	1483	1488		international trade	1185			1228
1490	1495	1506	1509	1512	Government regulation				847
1520-1523	1525	1529	1530	1534	marketing control program				
			1534	1540	Eire				847
Alabama				1284	Gt Brit	857	871		993
Arkansas				1274	packaging materials				
California				1486	effect on quality				513
Illinois	1352	1457	1531	1560	price relationships				
				1533	international trade				1086
Iowa	1278	1299	1472	1473	rationing				
Kansas				1537	Gt Brit				988
Kentucky				1256	United Kingdom				981
Michigan	1526	1536	1537	1499	wholesaling and retailing				
Minnesota				1432	California				
Mississippi				1499	San Francisco				449
New York	1236	1409	1414	1414					
North Carolina				1454					

SUBJECT INDEX

187

	Item			Item	
Ham--Cont.			Hogs--Cont.		
yield		575	inspection and sanitation		
Hammond J		617	terminology		31
Harris (Ipswich) Ltd Bacon Fac-		689	international trade	1066	1167
tory					1223
Hinman Locker Plant Gowrie			Netherlands		854
Iowa		1397	live weight		
Hogs			relation to yield	669—	671
auctions			Illinois		
Kentucky		200	Chicago	661	662
carcasses			local marketing		
bacon			Iowa		194
grades and grading			losses		407
New Zealand		629	market statistics	1202	1203
cuts		1336		1206	1207
grades and grading		641	Iowa		45
Canada	612	641	Kentucky		200
Iowa	681—	683	South Dakota		159
Minnesota		648	Texas		369
Ohio		574	marketing	7	1163
yield		393			1165
central markets		5			1168
commission companies			California		98
Minnesota			Canada		1176
South St Paul		380	Chicago		1160
Nebraska			Corn Belt		103
Omaha		337	costs	1002	1007
cooperatives		306	Indiana		996
Canada			Iowa		1012
Quebec		314	Nebraska		
Iowa	274	299	Omaha		337
Minnesota			Eastern States		118
South St Paul		301	Illinois	109	187
Ohio	263	288	Indiana	109	118
South Carolina		249	Iowa		109
Tennessee		232	Irish Free State		132
direct marketing		55	Kentucky		1093
354	360	361	margins	832	1007
Iowa		356			1015
direct payment		834			1048
distribution			Ohio		1005
costs		832	methods		664
farm income	1082	1085	Canada		638
Illinois		1151	Denmark		638
Government purchase		832	Gt Brit		638
Government regulation		365	Wisconsin		173
Missouri		186	Minnesota	83	109
South Carolina		51	Mississippi		79
grades and grading	552	592	Missouri	109	186
659	660	664	Nebraska		109
Canada	542	610	Ohio	109	263
Minnesota		675	Oklahoma		1148
industry			research		101
competitive position			South Carolina	50	51
South Carolina		51	Wisconsin		109
			World War II		950
			marketing control programs		
			832	834	947
					959
					1163-1165
			Canada		838

	<u>Item</u>		<u>Item</u>
Hogs--Cont.		Hogs--Cont.	
marketing control programs--		price relationships--cont.	
cont.		Corn Belt	103 1161
Gt Brit	897	Europe	1135
Netherlands	854	Illinois	1151 1170
markets		Indiana	1140
California		Iowa	1036 1156
Los Angeles	38	Ohio	1042
competition	38	Oklahoma	1141 1148
Illinois	187	South Carolina	50
Iowa		Southeastern States	1162
Sioux City	38	price support	834 959 969
Minnesota		price trends	1054
St Paul	38	prices	18 942 1083 1139
Missouri		and election years	1150
Kansas City	38	Canada	1173
Nebraska		Illinois	
Omaha	38	Chicago	1138
Oregon		Kentucky	1093
Portland	38	Minnesota	83
Pacific Coast	38	South St Paul	380
Pennsylvania		Oregon	67
Pittsburgh	38	relation to grade	
Texas		Iowa	1137
Fort Worth	38	Virginia	1029
Wisconsin	173	processing	415
price control	916 920 942	processing tax	832 1048
947 948 959 969	1200	production	1082 1085 1168
Canada	908		1223
France	907	Kentucky	1093
Germany	843 907	production control programs	
Gt Brit	897 908		831
Netherlands	852—854 907	public markets	393
United Kingdom	907 994	Nebraska	
price differentials	1136 1164	Omaha	337
Illinois		quality	
Chicago	342 1157	Canada	1176
East St Louis	342	sale by carcass weight and	
Indiana	1159	grade	58 641 644 645
Indianapolis	342	651 654 656 659 660	
Iowa	597 1012 1137		666 667 673
Michigan	1157	Canada	637 638 640
New York		641 654 680 681 683	
Buffalo	1157	Denmark	637 638 654
North Central States	1149	England	637
Ohio		Gt Brit	638 654
Cincinnati	342	Iowa	274 640
Tennessee	1136	Minnesota	650 652 653
terminal markets			657 672
Iowa	1137	Sweden	654
price relationships	7 654	Virginia	655
1030 1056 1058 1065	1145	sale on live-weight basis	637
1146 1150 1152 1160	1161		641 674
	1165 1168—1170	sales	
Alabama	1162	as measures of business con-	
Arkansas	343	ditions	
Canada	1107a 1172 1174	Indiana	105
	1175		

	Item				Item		
Hogs--Cont.				Iowa Live Stock Marketing Cor-			
shrinkage			393	poration			239
Illinois			392	Ithaca Experiment			1409
Chicago			405				
Indiana				Jones M			581
Indianapolis			405				
slaughter	415	416	433	Lacon [Ill] Locker Plant			1235
1145	1147	1203	1206	Lafayette [Ind] Food Lockers			
Illinois			1594	Inc			1295
supply and demand		1036	1160	Lamb			
		1167	1170	competition			
Canada			1172	Gt Brit			146
Gt Brit			897	conservation			17
Illinois			1170	consumer attitudes and prefer-			
Iowa			1036	ences	535	1075	1187
Oregon			67	Canada		1195	1196
South Carolina			50	Mississippi Valley			1190
Western States			38	consumption	89	1021	1074
Wisconsin			173		1187	1189	1191
tariff			1223	Australia			1021
transportation	5		415	Belgium			1021
losses				Canada	1021	1102	1104
Indiana			406		1194-1196		1198
rail				economic and social factors			
costs			1002				1094
Michigan			382	Canada	1194	1195	1197
effect on prices				France			1021
Minnesota			380	Germany			1021
rates				Mississippi Valley			1190
Missouri			387	New Zealand			1021
Texas			369	United Kingdom			1021
truck				U S Army			535
costs			1002	Washington			1096
Michigan			382	cuts			599
effect on prices				consumer attitudes and pref-			
Minnesota			380	erences			
rates				Canada		1196	1198
Missouri			387	grades and grading			555
tuberculous					565	566	570
inspection and sanitation			745	Illinois			696
types	5	596	666	pricing			455
consumer attitudes and pref-			1050	cutting		455	465
erences	645	659	664	distribution			
			666	Eastern States			439
Illinois			646	educational and advertising			
Oregon			67	programs		526	535
Home Town Locker Galesburg				California			
Ill			1560	San Joaquin Valley			541
Hormel Geo A & Co	649		657	Missouri			
Houston Packing Co			420	Kansas City			534
				factors affecting market			
Illinois Livestock Marketing				Eastern States			439
Association	268		303	fat			
Illinois Locker Service Chicago			1421	effect of storage			1208
				frozen			
Institute of American Meat Pack-				bacteria			1212
ers	93		528				

	<u>Item</u>		<u>Item</u>
Lamb--Cont.			
frozen--cont.			
packaging materials			
Missouri			
Kansas City	499		
Government regulation	431		
grades and grading	549 555		
	599 705 935		
Illinois	696		
legislation			
New York	713		
Wales	692		
international trade	89 1216		
market statistics	1202		
marketing	431 1216		
Australia	1216		
Belgium	1216		
Canada	1216		
Denmark	1216		
France	1216		
Germany	1216		
Irish Free State	1216		
margins	998		
Netherlands	1216		
New Zealand	1216		
Norway	1216		
Sweden	1216		
United Kingdom	1216		
marketing control program			
England	867		
packaging materials	1212		
price control	933 935 1187		
Germany	843		
price relationships	1074		
	1186 1191		
prices	431		
Gt Brit	1113		
Illinois			
Chicago	437		
United Kingdom	1216		
processing	4		
U S Navy	435		
production	1216		
rationing	937 1187		
supply and demand	1066 1094		
types			
consumer attitudes and preferences			
Canada	1198		
wholesaling and retailing	437		
	445 451 461		
Massachusetts			
Boston	439		
New York			
New York City	439		
Lamb Industry Committee	1189		
Lambs			
auctions			
Kentucky	57		
Lambs--Cont.			
auctions--cont.			
Texas		89	
carcasses			
composition	565	566	
cuts	443	1336	
freezing			
New Zealand		1214	
grades and grading		543	
	549 555 562	570	572
Australia		543	
Canada	123	543	
Gt Brit		543	
New Zealand	543	631	
South Dakota		663	
pricing		443	
storage			
New Zealand		1214	
transportation			
New Zealand		1214	
yield			
Australia		408	
Canada		123	
central markets		321	
classes		551	552
commission companies			
New Jersey			
Jersey City		46	
Texas		89	
cooperatives		246	286
Idaho		269	
Iowa		239	
New York			
Schuyler County		244	
World War II		284	
direct marketing		353	354
Iowa		239	
distribution		88	
farm income	1082 1085	1192	
farm-slaughtered			
Gt Brit		1180	
grades and grading	551	552	
		586	
Kansas		665	
Kentucky		57	
South Dakota		663	
Southern States		171	
Tennessee		668	
Texas		89	
international trade		1066	
Ireland		1230	
local dealers			
Texas		89	
market statistics	1202	1203	1207
			45
Iowa			200
Kentucky			88
marketing		23	

SUBJECT INDEX

191

	<u>Item</u>				<u>Item</u>		
Lambs--Cont				Lambs--Cont.			
marketing--cont.				transportation			
California			98	costs			
Canada			123	New Jersey			46
costs	23	1002	1007	Idaho			95
New Jersey				losses			23
Jersey City			46	rail			
Utah			1000	costs			1002
Idaho			95	Texas			89
Illinois			188	truck			
income			91	costs			1002
Kansas			42	Lard			
Kentucky			1093	competition	666	1154	1226
margins			1007	consumer attitudes and prefer-			
Maryland			59	ences			1142
methods				Tennessee			
Scotland			151	Knoxville			1037
Mississippi			79	consumption	1	426	832
needs			26	1021	1056	1144	1155
New Jersey						1204	1225
Jersey City			46				1226
Northern Ireland			148	Arkansas			
trends				Faulkner County			1047
Texas			89	Australia			1021
markets			172	Belgium			1021
price control			949	California			1167
price relationships				Canada			1021
Arkansas				economic and social factors			1094
West Fort Smith			343	France			1021
Indiana			1193	Germany			1021
Kentucky			1188	Gt Brit			1111
Texas			89	New Zealand			1021
price trends				United Kingdom			1021
Canada				Washington			1096
Toronto			1101	distribution			445
prices	26	88	1083	effect of tariff			1226
auctions				farm income			1158
Kentucky			1188	Government purchase			1206
central markets			321	grades and grading			11
Kentucky			1093	international trade	1		1036
production	1082		1085	1217	1223	1225	1226
Indiana			1193				1228
Kentucky	1093		1188				1229
sale by carcass weight and				Government regulation			832
grade			651	market statistics	1202		1204
Canada			123				1206
sale by grade				marketing	1	1050	1223
Tennessee			668	Corn Belt			1161
shrinkage				packaging and prepackaging			415
Australia			408				445
New Jersey				price relationships	1074		1086
Jersey City			46	1154	1155	1169	1229
slaughter	4	416	1203	international trade			1086
		1207	1356	prices	1	1050	1055
Illinois			188	production			1147
Texas			89	rationing			
standardization	551		586	bibliographies			925
			711	France			
				Paris			971

	<u>Item</u>			<u>Item</u>	
Lard--Cont.					
relation to slaughter weight	14				
standardization		11			
supply and demand	1094	1167			
		1229			
tariff		1223			
Leake County [Miss] Cold Storage Curing and Locker Plant					
		1476			
Leonard Niederriter Frosted Food Locker Plant Erie Pa					
	1405	1406			
Lindley Locker-Pak		1535			
Liver					
consumption					
Canada	1104	1171			
South Carolina		1052			
Livestock					
auctions	37	62	170		
185	195	196	216	218	
221	223	225	228		
advantages and disadvantages					
210—213	225	228			
and transportation		199			
		206	217		
Arkansas		217			
California	224	264			
development	210	221			
Arkansas		217			
Iowa		223			
Kentucky		199			
Louisiana		197			
Mississippi	219	220			
Montana		214			
New Jersey		215			
Ohio	205	222			
farmer attitudes	211—	213			
	219	221			
Georgia		207			
Sumter County		276			
Government regulation		198			
	219	221	222		
Iowa		223			
Minnesota		204			
Nebraska		228			
Illinois		196			
Indiana		168			
inspection and sanitation		198			
222	226	805	809		
Nebraska		206			
Ohio		753			
Iowa		185			
Kansas		209			
Kentucky		199			
Louisiana		197			
Midwestern States		191			
Minnesota	203	204	227		
Livestock--Cont.					
auctions--cont.			218—	220	
Montana				214	
Nebraska		206		228	
needs		216		226	
New Jersey				215	
New York	160	177		191	
201	202	261		267	
Ohio	166	205	211—	213	
Oklahoma				208	
operating expenses				210	
outlook					
Nebraska				228	
price differentials					
Kentucky				200	
Ohio				213	
prices					
Mississippi				219	
Ohio				213	
rates	206	210		216	
South Dakota				32	
Southern States				381	
Virginia				229	
West Virginia				152	
carcasses					
grades and grading				587	
				1370	
Canada				678	
Manitoba				121	
effect on prices					
Gt Brit				636	
quality				1484	
central markets		70		334	
advantages and disadvantages				348	
development		334		348	
Oregon				334	
Government regulation				321	
Illinois				320	
importance		331		348	
methods				302	
Oregon				334	
price differentials				155	
rates				348	
centralized marketing				6	
		74	245	352	
advantages and disadvantages				364	
Illinois				351	
Canada					
Manitoba				121	
Gt Brit				979	
Indiana					
Sullivan County				333	
commission companies				37	
Missouri				387	

	<u>Item</u>			<u>Item</u>	
Livestock--Cont.			Livestock--Cont.		
commission selling			cooperatives--cont.		
Government regulation	719		North Dakota		256
	721		Ohio	242 257	288
community sales			Cincinnati		265
inspection and sanitation	807		Clinton County		236
competition		62	Oregon		260
concentration yards	7	37	organization and management		
		295	238 240 247 248 251		
Ohio		166	266 268 272 296 302		
cooperatives	37 62	71	307 309		
74 75 113 170 184			outlook	283 293	294
250 253 259 270 281			policies and programs		234
285 290 295 298 303				292—	295
		311— 313	Illinois		296
advantages and disadvantages			West Virginia		243
234 243 254 264 277			Western States		231
		307 309	postwar outlook		280
Arkansas		309	Range States	271	278
Australia		318	South Carolina		50
California		264	Southern States	171 178	
Canada	120	316		256 273	291
Central States		273	Texas		237
Corn Belt	130 230	254	Virginia		307
development	245	255	West Virginia	152	243
Virginia		307			307
West Virginia		243	Western States		282
Eastern States		279	Wisconsin	176 240	241
economics		289			256
effect on margins		258	direct marketing		6 19
effectiveness			37 49 58 62 70		
Iowa		305	74 75 94 170 259		
efficiency			283 295 303 352 353		
West Virginia		233	362 424 1200 1306		
farmer attitudes			advantages and disadvantages		351 364
Ohio		262	Canada		366
Florida		238	Manitoba		121
Trenton		251	competition		357
Georgia			Corn Belt		103
Sumter County		276	costs		
Idaho		235	Canada		366
Illinois	268 296	300	development		358
Chicago		287	Canada		366
Indiana		257	Gt Brit		367
Iowa	185	304	Eastern States		363
Guthrie County		181	effect on packers		6
Worth County		183	farm income		
Wright County		182	Canada		366
Kansas		275	Government regulation		716
Midwestern States		310	Western States		359
Minnesota	247 248	256	Gt Brit		367
		272	Illinois	268	351
South St Paul		301	Iowa	356	425
Missouri		275	Minnesota		192
Montana		256	New York		160
needs	259	294	South Dakota		32
New York	261	267			

	<u>Item</u>		<u>Item</u>	
Livestock--Cont.			Livestock--Cont.	
direct marketing--cont.			industry--cont.	
Southern States	381		policies and programs--cont.	
Western States	282		Oregon	66
distance to market	62		trends	
Minnesota	374		Montana	100
Martin County	373		Western States	1079
distribution	68 1205		inspection and sanitation	11
costs	74		80 401 402 788	805
Government regulation	927		Canada	818
Gt Brit	990 991		Idaho	66
Scotland	136		in interstate transportation	
educational and advertising			799	803
programs	11 83		Missouri	736
exchanges	344		North Dakota	732
effect on prices	319		Oregon	66
inspection and sanitation	319		international trade	1200 1224
organization and management	319			1225
farm income	68 1056 1062		Canada	121 122
	1063		Germany	131
Canada	366		Scotland	136 900
farm-slaughtered	417		World War II	1110
prices			United Kingdom	1110
Oregon	458		local assembly	37
Government purchase	835		Corn Belt	372
	944		local dealers	37
Government regulation	37		Minnesota	192
49 73 80 113 716			New York	177
	720 1040		Ohio	166
and Range livestock industry			West Virginia	152
World War II	28		Wisconsin	176
Canada	722		local marketing	6
effect on Portland Ore mar-			Southern States	381
ket	463		local markets	70 170
England	367		Corn Belt	190
Gt Brit	901		local shipping associations	37
hearings	117		losses	391 402
Iowa	179 185		Minnesota	394
Southern States	178		market news	1205
Wales	690		Tennessee	
grades and grading	11 21		Nashville	330
37 73 94 589	932		market sharing	429
Canada	120		market statistics	155 1200
hearings	110			1204 1205
Iowa	185		California	98 1201
South Dakota	32		Kentucky	157
income			Ohio	213
Iowa	185		marketing	8 9 19
industry			30 37 53 73 104	
effect of foreign demand	1224		108 285 336 341 1046	
financing	93		agencies	94 189 303
Gt Brit	901		Corn Belt	158
Oregon	169		Mississippi	218
outlook			New York	35 177
Southeastern States	29		South Dakota	159
policies and programs			associations	
Idaho	66		Kansas	52

	<u>Item</u>					<u>Item</u>			
Livestock--Cont.					Livestock--Cont.				
marketing--cont.					marketing--cont.				
California	16		1201		margins--cont.				
Canada	120		1100		Canada				1100
channels					methods	41	362		720
Illinois	153		154		Canada		124		639
Indiana	167		168		Corn Belt				158
Iowa	180		299		Denmark				639
Kentucky			157		effect on prices				352
Louisiana					Gt Brit				639
New Orleans			323		Minnesota				192
Minnesota			162		North Central States				92
Faribault County			165		Ohio				377
Mississippi			218		Oklahoma				174
North Dakota			164		Oregon				169
Ohio			166		Minnesota				
Wisconsin			175		Faribault County				165
Corn Belt	58	103	158		Montana				100
costs	7	9	10	21	needs	10	44	84	283
			999	1013	Idaho				235
Arkansas			309		South Dakota				32
Corn Belt			190		Southern States				291
Missouri			387		West Virginia				152
New Jersey					New York	35	160		161
Jersey City			1004						177
Ohio			377		New Zealand				134
Virginia			1004		North Dakota				164
development					Ohio				166
Gt Brit			350		Oregon		63		78
educational and advertising					Portland				463
programs	86	87	112		policies and programs				21
effect of truck transportation					27	56	170	189	295
Southern States			381		New York			161	191
efficiency			21		Southern States				291
Iowa			185		postwar			72	75
Government regulation					research	25		87	108
Scotland			900					115	116
Government services			716		Central States				273
Corn Belt			103		cooperative				84
Gt Brit			142		Scotland				136
hearings	110		111		South Dakota			32	159
Idaho			95		Southeastern States			69	178
Illinois			13		trends	75	82		184
income	91		184		Iowa				185
Indiana			81		Ohio				193
Minnesota			83		Southern States				171
Montana			100		West Virginia				152
Indiana	97	167	168		Western States			2	28
Iowa			179	425	World War II			39	1110
Guthrie County			181		North Dakota				43
Worth County			183		Ohio				930
Wright County			182		marketing control programs				
Kansas			52		England			870	874
Kentucky			157		Germany	842	843		974
margins	11	37	113	362	Gt Brit	903	990		991
	999	1001	1003	1010	Wales			870	874
and cooperatives				258					

	<u>Item</u>		<u>Item</u>
Livestock--Cont.		Livestock--Cont.	
markets	6 48	price trends--cont.	
competition		New Mexico	1032
Indiana	167	prices	9 27 37 62
development	289	94 113 362 920	929
excess	10	1001 1076 1080 1081	1084
Government regulation	717	and meat margins	1014
	718	California	98
Indiana	167 168	Canada	122
Iowa	180	forecasts	
location		Kansas	1069
Ohio	193	Gt Brit	1114
New Zealand	134	hearings	111
price relationships	155	Louisiana	
regional		New Orleans	323
Midwestern States	191	Oregon	
New York	191	Portland	463
Southeastern States	29	public markets	
types	155	Illinois	
Indiana	167 168	Chicago	342
Kentucky	157	East St Louis	342
price control	49 909 910	Indiana	
912 915 921 928	932	Indianapolis	342
939 944 956	967	Ohio	
and Range livestock industry		Cincinnati	342
	28	Washington	
England	870	Spokane	347
Germany	842 974	Scotland	136
Gt Brit	979	South Dakota	32
hearings	117	terminal markets	
United Kingdom	986 994	New York	339
Wales	870	Virginia	1029
price differentials		Western States	1079
Illinois		processing	18
Chicago	1042	processing tax	833
Ohio		production	1043 1046 1221
Cincinnati	1041 1042	public markets	37 283
Cleveland	1042		336
Columbus	1042	Arkansas	
Dayton	1041 1042	West Fort Smith	343
price relationships	6 155	distributive function	
189 295 303 352 1013		Illinois	
1028 1035 1043 1046 1060		Chicago	332
1062 1063 1077		England	349 350
Canada	1099	estimate of receipts	324
Corn Belt	190	Government regulation	325 326
Illinois		Louisiana	
Chicago	342	New Orleans	323
Indiana		Nebraska	
Indianapolis	342	Omaha	340
Kansas	52 1045 1069	organization and management	
New Mexico	1032		323
Ohio		rates	325 326 340
Cincinnati	342	Southern States	171
price trends		Tennessee	
Kansas	52	Knoxville	345 346
Montana	100	Nashville	328—330

	<u>Item</u>		<u>Item</u>
Livestock--Cont.		Livestock--Cont.	
quality		subsidies	967
Kansas	1525	supply and demand	27 92
Wisconsin	1481	100 189 920	1031
sale by carcass weight and		Scotland	134
grade	37	Wisconsin	176
Gt Brit	686—688	terminal markets	62 225
Wales	690		327
sale in transit		Corn Belt	190
Colorado		Illinois	268
Denver	386	Chicago	287
Missouri Valley	386	importance	327
Utah		New York	160 177 339
Ogden	386	Ohio	166
Salt Lake City	386	rates	
shipping associations		New York	339
Minnesota	247	South Dakota	32
West Virginia	233	Southern States	171 381
Wisconsin	240	transportation	18 19
shrinkage	37	37 311 312	
Arkansas	309	and auctions	
Minnesota	272	Arkansas	217
slaughter	37 70 312	Kentucky	199
416 417 422 434 727		Nebraska	206
920 1200 1204 1205 1220		Arkansas	309
1234 1239 1241 1255 1279		West Fort Smith	343
1283 1286 1288 1293 1322		efficiency	
1323 1331 1336 1338 1342		Corn Belt	371
1348 1382 1399 1425 1426		Missouri	
1449 1450 1460 1463—1465		Boone County	376
1469 1471 1478 1480 1489		inspection and sanitation	198
1496 1502		Iowa	425
Australia	128	losses	37 390 391 394
California	98 1201		395—402
Canada	122	Canada	390
England	828	Florida	403
Georgia	1402 1511	Minnesota	394
Government regulation	958	policies and programs	404
Illinois	1352 1421 1422	South Dakota	383
1444 1445 1457 1470 1505		Minnesota	
Indiana	1264	Faribault County	165
Iowa	45 185 425 1277	Martin County	373
1312 1397 1472		Missouri	376
Kansas	1266 1301	New York	339
Mississippi	1476 1499	rail	
New Jersey	1493	Canada	
New York	1409 1414 1417	Manitoba	121
North Carolina	1455	costs	
Ohio	1315 1482	Missouri	388
Oregon	78	Nebraska	389
Scotland	136	effect on prices	
South Dakota	1251	Illinois	342
Virginia	1329 1330	Indiana	342
Wales	828	Ohio	342
standardization	21 37	facilities	
advantages	564	Corn Belt	368 372
bibliographies	600	Government regulation	
Iowa	185	South Dakota	383

	<u>Item</u>		<u>Item</u>
Livestock--Cont.		Livestock--Cont.	
transportation--cont.		transportation--cont.	
rail--cont.		truck--cont.	
losses	391	Nebraska	
Nebraska		Omaha	389
Omaha	389	Ohio	377
rates	384	rates	
rates	6 49 84	Kentucky	385
Corn Belt	352	Nebraska	389
Iowa	185	Ohio	377 378
New Mexico	370	regional differences	
relation to meat rates	384	Missouri	388
South Dakota	32	World War II	
Southern States	171	Corn Belt	371
statistics		North Dakota	43
Iowa	45	value	68
Tennessee		weighing	
Knoxville	346	at auctions	
Nashville	330	Virginia	229
truck	62 74	Livestock Auction Market	
advantages and disadvantages		Sumter Co Ga	276
Kentucky	385	Livestock Production and Marketing Conference	112
Ohio	379	Locker Stamp Plan	1241
and cooperatives		Mac-Van Frigid Locker Company Fort Collins Colo	1561
Wisconsin	240	Manchester Cooperatives Frozen Food Locker Wabash County Ind	1412
Canada		Mansfield [Ohio] Frosted Foods Inc	1297
Manitoba	121	Maple Lake Cooperative Processing and Locker Plant Wright County Minn	1436 1439
Corn Belt	372	Meat	727 768
costs		bacteria	
Missouri	388	Canada	814
Nebraska	389	canned	
Ohio	378	bacteria	796
development		consumption	
Missouri	388	Wales	1112
Nebraska	389	educational and advertising programs	526
economic aspects		rationing	
Kentucky	385	Gt Brit	987
effect on marketing		United Kingdom	981
Southern States	381	wholesaling and retailing	461
effect on price level	303	chilled	
efficiency		packaging materials	
Minnesota	374	England	524
facilities		competition	28
Corn Belt	372	consumer attitudes and preferences	53 460 539 1057
Government regulation			1064 1091
Kentucky	385	Missouri	911
South Dakota	383		
Kansas			
Kansas City	375		
Kentucky	385		
losses	391		
Kentucky	385		
Michigan	382		
Minnesota	272 374		
Missouri			
Boone County	376		

SUBJECT INDEX

199

	<u>Item</u>					<u>Item</u>			
Meat--Cont.					Meat--Cont.				
consumer attitudes and prefer-					consumption--cont.				
ences--cont.					trends	68	1070		
Montana				604	New York	1072			
Nebraska				1097	United Kingdom	875			
New York					1018a	1218	1222		
Syracuse	1024			1025	Wales	989			1112
Tennessee					World War II	1092			
Knoxville				1037	contaminated				
consumption	28	31			rehandling	811			
93	98	426	440	939	cooperatives	308			
949	1018a	1019	1034	1039	Florida	238			
1040	1051	1061	1073	1074	Gt Brit	988			
1079	1090	1128	1139	1204	costs	441—443			457
1205	1218	1220	1222	1225		465			
and farm income				1062	country-dressed				
and health				1059	Oregon				
Australia				1222	Portland	458			
Belgium	1018a	1019	1218		cured				
				1222	consumption				
California					Wales				1112
San Francisco				1089	processing	4			
Canada	122	1018a	1019		cuts	465	509	703	1473
1105	1106	1108	1129	1218					1488
Manitoba				121	consumer attitudes and pref-				
Denmark	1018a	1218	1222		erences	700			
economic and social factors					cutting	19	'280	443	451
70	1026	1027	1056	1078	decomposed				
Canada	1103	1106	1107		prevention of sale	70			
Michigan				1038	dehydrated				
Minnesota				1095	packaging materials	517			
Pennsylvania				1033	discoloration	503			
Tennessee				1022	distribution	32	82	440	
economic principles				1224	452	453	462	919	945
Eire				1222	Canada	125			
England				989	costs	74	995	1013	
Leicester County				143	Netherlands	995			
France	1018a	1019	1109		Eastern States	363			
				1222	England	135			
Germany	131	844	1018a		Leicester County	143			
				1019	Government regulation	836			
				1222		927			
Gt Brit				1111	Gt Brit	979	985	990	
Iowa				1053	Gt Brit	140			
Minnesota					dried				
Minneapolis	1088			1095	processing	4			
St Paul				1088	educational and advertising				
Missouri				911	programs	33	93	451	
Netherlands	1018a	1019			460	525—528			533
	1218	1222			536	537	539	540	698
New York	35	161							1071
Buffalo				1087	freezing	1283	1322	1323	
Syracuse	1024	1025	1072		1332	1334	1338	1348	1371
New Zealand				1222	1475	1478	1483	1487	1489
Norway	1018a	1218	1222			1504			1514
Southeastern States				29	California	1486			
Sweden	1018a	1222			Canada	1359			
Tennessee	1022	1023							

	<u>Item</u>		<u>Item</u>
Meat--Cont.		Meat--Cont.	
freezing--cont.		grades and grading	21 33
Denmark	1360	37 53 280 503	509
Illinois	1421	548 589 594 698	699
Iowa	1312	701—703 711—714	1356
Kentucky	1473		1370
Michigan	1536	advantages	577 587 593
New York 1409 1417	1508	704 706 708 709	738
	1532	Australia	548
Ohio	1482	consumer attitudes and pref-	
Wisconsin 1307 1461	1481	erences	700 708
frozen		Gt Brit	827
consumer attitudes and pref-		history	577 593
erences 448 468	1244	Illinois	697
New York	1068	New Zealand	548
consumption	106 1232	Virginia	583
New York	1067	hygiene	
distribution	106 448	Europe	725
educational and advertising		industry	
programs	106	efficiency	308
Georgia	1354	Gt Brit	901
keeping quality	472 497	outlook	1056
California	475	policies and programs	
packaging and prepackaging		Germany	131
448 464 472 485 488		inspection and sanitation	7
	494 495 509	53 426 451 495 699	
trends	487	723 727—730 737 741	
packaging materials	474	742 747 752 754—758	
485 494 495 500		762 765 767 769 771	
	522 1209	772—776 778 782 786	
California	475	788 801 802 813 929	
England	524		1356 1567
Missouri	499	advantages	734 738 774
North Carolina	471		780 789 797
postwar outlook	280	Australia	819 820
prices	106	California	734 735 787
quality		Canada	723 814—818
New York	1532	Colorado	733
standardization	106	conferences and congresses	798
storage	106 1209		804
transportation	106	costs	
vs fresh-cut	464	educational and advertising	
Washington	1527	programs	767
wholesaling and retailing	447	England	828
	448 464	Europe	726
New York		France	130 821
Brooklyn	446	Germany	726
Government purchase	923	Gt Brit	140 726 823
927 939 944 1092	1206		825—827 830
Canada	840	Illinois	751
Government regulation	28	in international trade	799
	49 113 1040 1073	label requirements	777
France	130		779 800
Gt Brit	901	Gt Brit	823
New Zealand	133	Missouri	
Oregon		St Louis	763
Portland	463	New York 748 783	784
		New York City	795

	<u>Item</u>					<u>Item</u>			
Meat--Cont.					Meat--Cont.				
inspection and sanitation--cont.					minced--cont.				
New Zealand				409	inspection and sanitation--cont.				
North America	723			724	Scotland				824
Oregon				797	molds				730
relation to pathology					nutritive value				1057
Gt Brit				829	packaged				
relation to veterinary pro-					grade labeling				
fession			61	794	Virginia				707
U S Army	436		746	764	postwar outlook				280
	773		781	785	wholesaling and retailing				
U S Navy				435					461 479
Wales				828	packaging and prepackaging				
Washington			739	760	468 469 479 480 490				
World War II			743	764	491 496 501 503 505				
	779	790	806	810	506 508 510 512 521				
international trade			33	70	by meat packers				510 521
122 128 131 133 135					consumer attitudes and pref-				
900 979 1040 1051 1060					erences				468 479 481
1071 1109 1128 1203 1205									503
1217 1218 1220-1222 1225					California				482
				1227	Ohio				481
keeping quality				1211	effect on retailing costs				
luncheon					California				482
educational and advertising					trends				487
programs				526	packaging materials				476
packaging and prepackaging					479 480 484 489 490				
				491	492 493 496 502 505				
packaging materials				489	508 515 518-520 777				
				491	packing and packing industry				7
market statistics	711		1203		53 70 352 416 422				
				1204	423 424 426 431-434				
marketing	3		19	68	agreements				421
				70 104	as monopoly				55
costs	55	999	1007	1008	bibliographies				426
				1011	cooperatives				292 425a
Gt Brit				147	Denmark				436b
improvements				74	Corn Belt				190
Kansas				52	costs				462
margins		441	443	457	Eastern States				
465 997 999 1001 1007					effect on Corn Belt				58
1010 1011 1014 1028					educational and advertising				
New Zealand			133	135	programs				41
Western States				47	financing				93
marketing control programs					Government regulation				37
				833 836					716 942
Canada				840	hog-processing tax				1048
Germany		843	844	974	imperfect competition				427
Gt Brit		862	985	990					430
			991	993	inspection and sanitation				
markets									723 766
Government regulation					Canada				723
Canada				722	Indiana				49
inspection and sanitation					Iowa				425
Oregon				744	labor productivity				428
minced					livestock purchase practices				354
inspection and sanitation									
Gt Brit				823					

	<u>Item</u>					<u>Item</u>			
Meat--Cont.					Meat--Cont.				
packing and packing industry--					production--cont.				
cont.					and farm income				1062
location				5	quality	1480	1487	1504	1513
margins	41			55	identification			10	1485
Nebraska					rationing		913	914	922
Omaha			429		923	926	927	929	934
organization			55		936	943	945	946	952
price manipulation			55		954—958	960		963—	966
Texas	89		420		and cooperatives				
trends			82		Gt Brit				980
volume concentration			74		and frozen-food lockers				938
Corn Belt			190		Wisconsin				918
price control	49	836	910		bibliographies				925
912—915	919	921—	923		Canada				908
926	928	929	931	933	effect on farmers				954
934	939	944—	946	949	England				989
		955—	958	965	Europe				906
and Range livestock industry				28	France				
Canada				908	Paris				971
France				130	Germany	972	973		976
Germany	841	842	974						976a
Gt Brit	908	991	992		Gt Brit	908	984	988	992
New York			941		Missouri				911
United Kingdom			994		New York				941
price relationships	41		53		Norway				977
70	1008	1027	1028	1040	United Kingdom		981		983
1046	1049	1050	1061	1077	Wales				986
Canada				1107	self-service	469	473		477
Corn Belt				190	483	484	491	498	503
Kansas				1045	506	507	510—	513	515
prices	28	93	440	442	California			482	504
929	1039	1055	1079—	1081	consumer attitudes and pref-				
and distributors' margins				1014	erences	477	481		482
consumer attitudes and pref-				1057	costs		482		512
erences				1057	discoloration				512
effect on consumption					Ohio				481
Canada				1107	postwar outlook				280
effect on international trade					shrinkage		503		1306
Canada				1107	Illinois				1531
France				1109	Nebraska				1544
Minnesota					New York				1414
Minneapolis				1095	Washington				1538
Oregon					smoked				
Portland				463	processing			4	426
trends				1001	standardization			21	33
United Kingdom				875			37	699	711
pricing	53	441	444	457	advantages				564
				465	bibliographies				600
processing		312	414	778	storage				1213
Canada				125	supply and demand		33		939
cooperative				425a	944	956	1028	1040	1043
costs				1013				1056	1128
Iowa				425	Corn Belt				103
U S Army				436					
U S Navy				435					
production	1046	1220	1222						

	<u>Item</u>		<u>Item</u>
Meat--Cont.			Mutton--Cont.
terminology	714		marketing control programs
transportation	19 33		England
Gt Brit	140		Gt Brit
rates	384		price control
U S Army	31		Germany
value	68		prices
variety			Gt Brit
processing	4		United Kingdom
wholesaling and retailing	461		production
wholesaling and retailing	37		supply and demand
53 311 312 438	440		
450 451 453 457	459		National Association of Market-
460 462 527 701	711		ing Officials
California	482		National Duroc Congress
San Francisco	449		National Frozen Food Locker
costs	462 482		Association
England	135		National Frozen Foods
Gt Brit	467		National Live Stock and Meat
history	452		Board
Illinois	697		529 531 532 535
Oregon			537 1059
Portland	463		National Live Stock Loss Pre-
postwar outlook	280		vention Board
Meat Inspection Act	748		National Live Stock Marketing
Meat products. <u>See Meat and</u>			Association
specific names of products.			National Live Stock Producers
Middlebury [Vt] Cooperative			Association
Freeze Locker	1411		National Mark Beef Scheme
Midland Marts Limited Banbury			National Order Buying Co
Oxon	350		National Stockyards
Missouri Farmers' Association			National Wool Growers Associa-
275			tion
Morrell John and Co	745		Natural Products Marketing Act
Mother Zero Locker Plant			(Canada)
Ithaca	1292 1409 1414 1416		N J State Dept of Health
1417-1419			NoAir
Mutton			North Dakota Stockmen's Asso-
competition			ciation
Gt Brit	146		Northeastern Michigan Here-
conservation	17		ford Calf Association
consumption	89 1020 1021		Northern Ireland Pigs Marketing
Arkansas			Board
Faulkner County	1047		Northern Michigan Beef Breed-
Washington	1096		ers' Association
educational and advertising			
programs			Orangeburg [S C] Live Stock As-
Scotland	138		sociation
grading	549 555 599 935		
Illinois	696		Pacific Frozen Food Lockers In-
New York	713		corporated South Gate Calif
Scotland	138		1486
Wales	692		Packaging materials
international trade	89 862		474 476
1216 1217			479 480 484-486 489
market statistics	1202		490-498 502 508 513
marketing	138 1216		514-520 522 778 1209

	<u>Item</u>					<u>Item</u>			
Packaging materials--Cont.					Pigs--Cont.				
1212 1239 1283 1293 1317					carcasses--cont.				
1319 1322 1323 1392 1449					quality				
1450 1479 1489 1504 1513					Australia	618		621	
1514 1515 1535 1540 1542					Gt Brit			633	
			1543 1545-1551		yield				
Arizona				1589	Gt Brit			413	
California				475	classes	552		592	
Canada				1519	distribution				1185
England				524	United Kingdom				
Germany				523	farm-slaughtered				
Illinois		1389	1457	1541	Gt Brit				1180
Iowa				1312	Government regulation				
Kansas				1533	Eire			848	
Michigan		1526	1536	1537	Northern Ireland	144		149	
Nebraska				1544				150	
Custer County				1552	grades and grading	552		592	
New York			1508	1532	Australia	129		616	
Ithaca				1414	Eire			849	
North Carolina			471	1455	Gt Brit	685	863	881	
Ohio				1482			895	982	
Utah				1492	Northern Ireland			144	
Washington		1305	1527	1538	inspection and sanitation				
				1539	Australia	129		411	
Wisconsin				1481	international trade			1217	
Wyoming				1321	Government regulation				
Packers and Stockyards Act				80	Australia			1177	
325 326 716 717 719				720	Eire	847		849	
				49	losses				
Packers' Consent Decree				49	New Zealand			411	
Pat's Frozen Food Locker					marketing				
Elaine Ark				1497	Australia	127		129	
Perry [Iowa] Locker Plant				1277	England			145	
Picnic shoulder yield				575	Gt Brit			137	
Pigs					Northern Ireland	144		148	
body measurements					marketing control programs				
Gt Brit				895	Australia			1177	
carcasses					Canada			839	
bacon					Eire		847-	851	
Australia	544	621	622		Gt Brit	856	857	860	
Gt Brit		544	635		861 863 865	868	872		
New Zealand		545	546		876 877 882	884	886		
		626-628	630		888 890 891	894	895		
United Kingdom			632		898 899 902	903	982		
effect of sex					Ireland	845	846	891	
Canada				613	United Kingdom		875	879	
Gt Brit				635	price control				
grades and grading				557	Eire		850	851	
Australia	544	617-619			Gt Brit	856	860	863	
		622-624			865 866 881	885	887		
Canada		545			889 891 894-896	897	978		
Denmark		545	547			982	993		
Eire				849	Ireland			845	
Gt Brit	544	547	633		price differentials				
			635		England			1178	
New Zealand		545	546		price relationships				
			626		Gt Brit	1179		1181	
United Kingdom		546	632						

	<u>Item</u>		<u>Item</u>
Pigs--Cont.			
price trends			
Canada			
Toronto	1101		
prices			
England	1182-1184		
Gt Brit	886-889 1113		
Wales	1182-1184		
production			
Australia	1177		
production control programs			
Gt Brit	863		
sale by carcass weight and grade			
Gt Brit	685		
sale on live-weight basis			
Gt Brit	412		
shrinkage			
Gt Brit	412 413 635 895		
Northern Ireland	144		
slaughter			
Government regulation			
Gt Brit	982		
supply and demand			
Australia	1177		
Gt Brit	885		
transportation			
Australia	129		
Gt Brit	895		
United Kingdom	875		
types			
Gt Brit	1018		
Pigs and Bacon Acts (Eire)	847 848		
Pigs and Bacon Marketing			
Schemes (Gt Brit)	856 860		
860a	861 863 865 868		
869	872 873 876 877		
879	882 884 885 887		
889	891 893-895 897		
898	899 903 978 982		
(Northern Ireland)	891		
Pork			
composition	568		
conservation	17		
consumer attitudes and preferences	5 666 1044		
Illinois			
Stark County	1166		
consumption	5 832 1020		
1021 1030 1074 1164 1167			
Arkansas			
Faulkner Co	1047		
California	1167		
Canada	1102 1104 1171		
economic and social factors	1094		
Pork--Cont.			
consumption--cont.			
South Carolina	1052		
United Kingdom	1185		
Washington	1096		
contamination	750		
costs	442		
cuts	432 443 557 568		
consumer attitudes and preferences			
Iowa	597		
cutting	442 456 465		
educational and advertising programs	526 538		
Corn Belt	538		
effect of freezing	419 1209		
embargoes			
Gt Brit	1231		
farm income	1158		
fat			
effect of storage	1208		
frozen			
effect of storage	1210		
Michigan	1526		
packaging materials			
Missouri	499		
grades and grading	557		
Canada	615		
inspection and sanitation			
Germany	822		
New York			
New York City	792		
international trade	40 1036		
1167 1185 1217 1223	1228		
Government regulation	1231 832		
keeping quality			
Indiana	1211		
loin			
yield	575		
market statistics	1202		
marketing	107 1223		
Corn Belt	1161		
Eastern States	118		
margins	832 998		
Ohio	1005		
marketing control programs			
Gt Brit	1231		
nutritive value			
United States	568		
packaging materials			
Kansas	1533		
packing industry			
margins			
Canada	1017		
price control	40 920 942		
Denmark	907		

	<u>Item</u>		<u>Item</u>
Pork--Cont.		Safety-Rite Food Bank	Tifton Ga
price control--cont.			1511
France	907	St Louis National Stock Yards	289
Germany	843	Sarcosporidiosis	
Sweden	907	Illinois	
United Kingdom	994	Chicago	812
price relationships	1074 1167	Sausage	
	1186 1191	consumer attitudes and prefer-	
California	1167	ences	24
Canada	1102a	consumption	
Gt Brit	1231	Canada	1104 1171
prices	442 1167	South Carolina	1052
California	1167	educational and advertising	
Gt Brit	862 886	programs	61 526
pricing	443	inspection and sanitation	
processing	432—433	Gt Brit	823
New York	783	packaging and prepackaging	24
U S Navy	435		470 491
production	1147 1223	packaging materials	491 516
Alabama	1162	Germany	523
quality	1521 1534	processing	1267
rationing	40 907	rationing	
relation to slaughter weight	14	Germany	976
shrinkage		wholesaling and retailing	61
Michigan	1526		459
standards	596	California	
supply and demand	1031 1066	San Francisco	449
	1094 1167	Schuyler County [N Y] Farm	
Gt Brit	1231	Bureau Livestock Committee	244
United Kingdom	1185	Share the Meat Campaign	911
tariff	1223		960
transportation	415	Sheep	
wholesaling and retailing	461	auctions	
Port City Stockyards Houston	89	Texas	89
Producers' Commission Asso-		carcasses	
ciation	405	grades and grading	555
Producers Cooperative Com-		central markets	321
mission Association Cincinna-		classes	551 552 603
ti	265	commission companies	
Producers Livestock Coopera-		Texas	89
tive Association	230 242	cooperatives	
	290	Tennessee	232
Producers Live-Stock Credit		World War II	284
Association	290	direct marketing	353—355
Producers' Marketing Co-op of		farm income	1082 1085 1192
Ohio	244	grades and grading	551 552
Queensland Primary Producers'			586
Co-operative Association Lim-		Australia	625
ited	318	Gt Brit	687
Rankin County Cooperative Cold		Texas	89
Storage Plant Brandon Miss		inspection and sanitation	
	1476	New Zealand	409 410
Research and Marketing Act of		terminology	731
1946	25 108 112 115	international trade	89 146
Rocke's Lockers and Food Mar-			1066 1217 1230
ket Morton Ill	1505		

	<u>Item</u>		<u>Item</u>
Sheep--Cont.		Sheep--Cont.	
international trade--cont.		production control programs	
Government regulation		United Kingdom	880
United Kingdom	892	sale by carcass weight and	
live weight		grade	
relation to yield		Canada	123
Gt Brit	687	slaughter	4 416 1203
local dealers			1206 1207 1356
Texas	89	Illinois	188
losses		Texas	87
New Zealand	409 410	standardization	551 586
market statistics	1202 1203	subsidies	
	1206	United Kingdom	855
Corn Belt	20	transportation	
Iowa	45	losses	23
Minnesota	156	New Zealand	409
South Dakota	159	rail	
Texas	369	costs	1002
marketing		Michigan	382
California	98	rates	
Canada	123	Missouri	387
costs	1002	rates	
North Dakota	1006	Scotland	151
England	145	Texas	89 369
Illinois	188	truck	
Intermountain Region	54	costs	1002
Kentucky	1093	Michigan	382
methods		rates	
Scotland	151	Missouri	387
Minnesota	83 156	types	603
Mississippi	79	Shen-Valley Meat Packers Inc	655
policies and programs		Shoulder butt	
Wales	138	yield	575
trends		Shoulders	
Texas	89	pork	
Wales	138	international trade	1228
marketing control programs		Slaughterhouses	727
Canada	837	Gt Brit	830
England	867	inspection and sanitation	747
United Kingdom	880	California	759
price control	892	Gt Brit	827
United Kingdom	880	Oregon	744
price relationships	1058	Louisiana	
Arkansas	343	Baton Rouge	322
Gt Brit	146 1199	West Virginia	152
Indiana	1193	Stark Locker Service	1166
Scotland	151	Steaks	
Texas	89	packaging materials	514
prices	1083	price relationships	
central markets	321	Canada	1131
Gt Brit	1113	Steers	
Kentucky	1093	body measurements	576
Minnesota	83	carcasses	
Virginia	1029	cuts	1336
production	1085	price relationships	
Indiana	1193	Canada	1131
Kentucky	1093		

	<u>Item</u>		<u>Item</u>
Steers--Cont.		Tupelo [Miss]	Locker Plant 1499
grades and grading	576		
marketing		Union Stock Yards	
margins	1120	Knoxville	346
price relationships	1120	Nashville	229 330
Arkansas	343	Omaha	337
Canada	1131	San Antonio	89
price trends		U S Agricultural Adjustment	
Canada		Admin	51 179 186 831
Toronto	1101	832 833 835	947 1048
weight	576		1164 1165
Stockyards	424	U S Bur of Animal Industry	
inspection and sanitation	747	80 754 755 762	765
Iowa	425	769 773	1336
rates	720	U S Dept of Agriculture	21 969
Sullivan Livestock Shipping		U S Farm Credit Admin	1339
Association	300	U S Federal Farm Board	245
Swift and Co	439 505	U S Market News Serv	80
Swine			1124
body measurements	575 584	U S Meat Inspection Act	801
carcasses		U S Meat Inspection Div	426
cuts	568		776 779
grades and grading		U S Meat Inspection Serv	743
Canada	614	753 755—758	764 769
weight	568	773 779 780 790	798
Iowa	550	801 810	813
yield	14 575	U S Off of Economic Stabiliza-	
classes	552 592 603	tion	961
grades and grading	552 592	U S Off of Price Admin	934
advantages and disadvantages	656	935 949 951 952	962
live weight			969
relation to yield	568	U S Production and Marketing	
marketing	1147	Admin	776
marketing control programs	831	U S Secretary of Agriculture	325
price relationships		U S War Food Admin	743 952
California	1167		956
Indiana	1143	U S War Meat Board	945
prices	1167		
California	1167	Veal	
slaughter	1167	consumer attitudes and pref-	
California	1167	erences	1044
types	603	consumption	90 832 1021
weight	568		1074
Szatrowski Z	1030	Arkansas	
		Faulkner County	1047
		Canada	1102 1104 1198
		Gt Brit	1134
		South Carolina	1052
		Washington	1096
		cuts	1522
		grades and grading	556
		cutting	465
		educational and advertising	
		programs	526
		grades and grading	599
		international trade	1217
Tenderay process	560		
Texas Livestock Marketing			
Association	237		
Thornewell's Locker Serv			
Ontario	1408		
Trichinosis			
California	759		
Germany	822		
New York	783 789		
New York City	792		
Tuberculosis	745		
California	740		

SUBJECT INDEX

209

	<u>Item</u>		<u>Item</u>
Veal--Cont.		Vita-Frost Food Lockers In-	
international trade--cont.		corporated Newton N J	1366
Government regulation	832	Von's Grocery Co	504
market statistics	1202		
price control		Western and Murray Bacon and	
Germany	843	Meat Packing Company Ltd	617
price relationships	1074	Western States Meat Packers	
Gt Brit	1134	Association	47
processing	4	Williamson's Locker Serv	1491
Gt Brit	138	Wilson and Company Chicago	
U S Navy	435	407 661 662	
quality		Yahl Bacon Factory	624
identification	1522		
supply and demand	1066		
wholesaling and retailing	461		

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