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UNITED STATES DEPARTMENT OF AGRICULTURE

Bureau of Agricultural Economics



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Agricultural Economics Bibliography No. 80

THE PEANUT INDUSTRY

A Selected List of References on the Economic Aspects
of the Industry, 1920-1939

Compiled by Helen E. Hennefrund
Under the Direction of Mary G. Lacy, Librarian
Bureau of Agricultural Economics

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FOREWORD

This bibliography supersedes and brings to date a typewritten list by Vajen E. Hitz issued in 1931 entitled "The Peanut Industry; Selected References on the Economic Aspects of the Industry...1920 to Date." It contains references to books, pamphlets and periodical articles relating to the economic aspects of the peanut industry in the United States and in foreign countries, from 1920 through the first five months of 1939. It includes references on the Agricultural Adjustment program for peanuts, cost of production and labor requirements, grading and standardization, legislation, markets and marketing, mechanization of the industry, statistics, storage of the crop, and its utilization as feed, in peanut butter and as an oil. A few references on oil extraction and on the nutritive value of the nut have been included.

Except when they occur in publications included for other reasons, references on culture, diseases and pests, and analyses of commercial feeding stuffs have been omitted.

Periodicals which are organs of the peanut trade have been cited in a special periodicals section. Articles in these periodicals have been listed only when specific reference to them was found in the sources checked, since they contain articles and current notices which are too numerous or too slight to include. Other periodicals, which had sections given over to the peanut trade, are classified under the type of information they give.

The bibliography is in three main sections: The first is a general section including references to both foreign and domestic publications; the second contains references relating to the United States, classified according to subject, and a section on the Philippine Islands; and the third contains foreign references, arranged by country. The section on foreign countries is not complete, but an attempt has been made to include the more outstanding references to foreign publications in the libraries consulted. A number of statistical reports have been included, but no attempt has been made to search all general statistical publications which may contain peanut statistics. Grateful acknowledgment is made to Miss Gertrude K. Caseley of the Division of Statistical and Historical Research of this Bureau for her valuable suggestions, to Mr. Harold J. Clay of the Division of Fruits and Vegetables of the Agricultural Marketing Service, and to Mr. W. H. Nemir of the Foodstuffs Division of the U. S. Department of Commerce.

Call numbers following the citations are those of the U. S. Department of Agriculture Library, unless otherwise noted. "Libr. Cong." preceding a call number indicates that the publication is in the Library of Congress. An author and subject index is appended.

Mary G. Lacy, Librarian
Bureau of Agricultural Economics,
U. S. Department of Agriculture

November 1939.

SOURCES CONSULTED

Card catalogues of the following libraries:

- U. S. Department of Agriculture
- U. S. Department of Agriculture, Bureau of Agricultural Economics
- U. S. Department of Commerce
- U. S. Library of Congress

Indexes:

- Agricultural Economics Literature, v. 1, 1927 to v. 13, no. 5, May 1939. Published by U. S. Department of Agriculture, Bureau of Agricultural Economics, Washington, D. C.
 - Agricultural Index, 1919 to v. 24, no. 5, May 1939. Published by the H. W. Wilson Co., New York, N. Y.
 - Experiment Station Record, v. 42, January 1920 to v. 80, no. 5, May 1939. Published by U. S. Department of Agriculture, Office of Experiment Stations, Washington, D. C.
 - Industrial Arts Index, 1920 to v. 27, no. 6, May 1939. Published by the H. W. Wilson Co., New York, N. Y.
 - International Index to Periodicals, 1920 to v. 27, no. 1, May 1939. Published by the H. W. Wilson Co., New York, N. Y.
 - Public Affairs Information Service. Bulletin, 1920 to v. 25, no. 35, May 27, 1939. Published by Public Affairs Information Service, New York, N. Y.
 - Readers' Guide to Periodical Literature, 1919 to v. 38, no. 20, May 10, 1939. Published by the H. W. Wilson Co., New York, N. Y.
- U. S. Department of Agriculture, Yearbook of Agriculture, 1920-1938. Washington, D. C., 1921-1938.

THE PEANUT INDUSTRY

A Selected List of References on the Economic Aspects of the Industry, 1920-1939

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GENERAL

1. Amargós, José L. El cultivo del maní. Revista de Agricultura [Cuba] 13(1): 44-48. July 1931. 8 Ag88Re
Harvesting, drying, cost of production, and uses are given.
2. André, Émile. L'arachide. Académie d'Agriculture de France. Comptes Rendus 18(15): 552-561. Apr. 27, 1932. 14 P215Bc
The writer gives an account of the history of the peanut since the discovery of America, with the purpose of showing how, since then, it has become a plant extensively cultivated in the world, and even, at the present time, too extensively cultivated.
3. Bahl, J. C. The oilseed trade of India; foreword by Dewan Bahadur Sir T. Vijayaraghavacharya; introduction by G. N. Chapman. 314pp. Bombay, New book co., 1938. 286.377 B14
This is a very detailed study of the oilseed trade, with particular attention to India. Chapters cover the world production and trade in oilseeds, oilseeds in India, the marketing of the product - including the organization of primary markets, the transport of oilseeds and railway rates, terminal markets, and the Bombay oilseed market - , exports of oilseeds, the finance of the oilseed trade, the vegetable oil industry, and the principal needs of the oilseeds trade.
Certain passages are given over specifically to groundnuts. Their history in brief, chief producing countries, world production, trade and prices, and tables showing the leading producing, importing and exporting countries are given, pp. 8-13; and their history in India, area under crop, yield and trade varieties are briefly outlined, pp. 43-45. A table, p. 143, shows imports of shelled and unshelled groundnuts into France, 1913, 1914, 1929-1936, by country of origin. Mention is made of groundnuts being classified separately from the common seeds for transportation purposes, p. 93.
4. Baillaud, Émile. L'aspect international et national de la production des matières grasses d'origine tropicale. Marseille. Institut Colonial Bulletin des Matières Grasses 21(9): 205-218. 1937. 77.9 M35
The writer outlines the present situation with regard to produc-

9. Fauchère, A. Guide pratique d'agriculture tropicale. v. 1-2. Paris, A. Challamel, 1918-22. (Bibliothèque d'agriculture coloniale) 38 F27
Volume II. Les Grandes Cultures, contains a section on the peanut, pp. 3-94, which takes up its history and origin, varieties, cultural methods, yields, amount of production in various countries, harvesting and preparation for marketing, (in the United States), returns per hectare, cost of production and profits, uses for the nut (in human nutrition, and animal nutrition), peanut trade (its importance for France, the importance of shelled (décortiquée) nuts in West Africa because of transportation difficulties, methods of selling the crop in East Africa, prices and benefits, and machines used for shelling peanuts).
10. Harris, William. Pea nut or ground nut. Jamaica Agr. Soc. Jour. 34(9): 471-472, 474. September 1930. 8 J223
"Reprinted from a former issue."
Harvesting methods in the United States, yields in the Barbados, Virginia and North Carolina, and uses are touched upon.
11. Henry, Yves. Éléments d'agriculture coloniale. Plantes à huile. 219pp. Paris, Armand Colin. [cop. 1921] (Collection Armand Colin (Section d'Agriculture) no. 5) 77 H395E
Arachide, pp. 11-57. In this section, the author takes up the principal centers of production of the peanut, its characteristics, varieties, culture, yields, deterioration of production, cultivation in Senegal, in India, and in the United States, and utilization of peanut straw, oil and cake.
12. International institute of agriculture. The first world agricultural census. Bulletin no. 1-38, 40-41. Rome, 1932-1938. 251 In8F
French and English editions for some bulletins.
In general, information is given for area cultivated, quantity and yield of groundnuts (occasionally value). The following contain peanut data: No. 5. Union of South Africa (figures for European holdings and by provinces); No. 6. Commonwealth of Australia (figures also given by territories); No. 8. United States (gives acreage of peanuts grown alone and with other crops in 1929, quantity harvested yield per acre and value of production); No. 12. Outlying territories and possessions of the United States (The section on Puerto Rico includes peanuts, as does the one on Hawaii); No. 17. French West Africa (figures for both European and native holdings); No. 18. India (figures for India, with details according to provinces and states); No. 22. Mauritius (figures for Indian and non-Indian holdings); No. 25. Mozambique (groundnut production for the entire colony and for territories administered by the Government, distribution of areas of groundnuts grown for food and for industrial purposes with intercalary crops, quantity of groundnuts sold during the agricultural year, consumption of shelled groundnuts, and machinery used in harvesting the crop); No. 26. Kenya; No. 32. Spain (includes

value of the crop for industrial purposes); No. 33. Italy; No. 34. Egypt (figures given by districts for acreage, production and yield of unshelled groundnuts); No. 40. Mexico. (includes value of production, as well as acreage, production and yield of groundnuts); No. 41. Uruguay (gives figures for value of the crop, as well as acreage, production and yield).

13. International institute of agriculture. International yearbook of agricultural statistics, 1937-38. 1013pp. Rome, 1938. 251 In84
Gives statistics for area, production and yield per hectare, 1927/31-1937, of peanuts, pp. 338-341; imports and exports of peanuts, pp. 532-537, and of peanut oil, pp. 616-619, for the same years; prices of peanuts by months, 1932-1937, p. 838, and of peanut oil, for the same years by months, p. 846; and average monthly prices in gold francs per quintal for peanuts, July 1932-December 1937, p. 888.

Earlier yearbooks should also be consulted.

14. International institute of agriculture. Monthly crop report and agricultural statistics, v. 1, Jan. 1910-date. Rome, 1910-date. 251 In8B
Vol. 1-4 have title: Bulletin of agricultural statistics; Vol. 5-6, Bulletin of agricultural and commercial statistics; v. 7-19, International crop report and agricultural statistics; v. 20-21 issued as pt. III of International review of agriculture; v. 22-date reprinted from International review of agriculture.

The recent issues of this publication which were examined contained current information on the groundnut situation in various countries. The April 1939 issue gave average monthly prices by countries, under most of which groundnut cake is listed.

15. International institute of agriculture. Oils and fats: production and international trade. Part I. 345pp. Rome, 1939. (Studies of Principal Agricultural Products on the World Market, No. 4)
280.39 In8 no. 4

Ch. II of the first section, Groundnuts and groundnut oil, pp. 13-39, takes up groundnut products and their utilization, the area of production throughout the world, production in India, China, French West Africa, Nigeria, the Netherlands Indies, the Belgian Congo, and in Manchukuo, the principal countries exporting groundnuts, and the chief countries importing them, the chief countries exporting and importing groundnut oil. Future development in the industry "depends in large part on the selling prices and on the possibilities of further growth in consumption in both the producing countries and the importing countries. For the time being, while production tends once more to increase, there has been an appreciable recovery on the world market, favoured by the rise in prices of animal fats, especially butter, in the principal countries that consume groundnuts, France, Germany and the United Kingdom, and by the cheapness of these seeds in relation to other oilseeds."

Tables show the world area of groundnuts, by countries; world production of groundnuts (in shell) by countries; net exports of groundnuts (in shell) by countries; net imports of groundnuts (in shell); exports of groundnut oil, by countries; imports of groundnut oil, by countries; all given for 1909/13, 1924/28, 1929-1936.

The final section of this report is concerned with "Trends of World Production of and Trade in Oleaginous Vegetal Raw Materials and their Derivatives." Ch. I. World production of oil-yielding crops, pp. 263-288; Ch. II. World trade in oilseeds, oleaginous fruits and vegetal oils, pp. 289-333; Ch. III. Conclusion, pp. 334-345, include groundnuts and groundnut oil in the general discussion and in the numerous statistical tables.

16. International institute of agriculture. Oils and fats; production and international trade. Part II. 423pp. Rome, 1939. (Studies of Principal Agricultural Products of the World Market, No. 5)
280.39 In8 No. 5

Section IV. Production and consumption of fats and oils in certain countries, pp. 173-360, includes a brief summary of the groundnut oil situation in the United States, its history, production and diversion under the program of the Agricultural Adjustment Administration, and statistics of consumption, amounts used in manufacture of compounds and vegetable cooking fats, amounts used in the manufacture of margarine, production of groundnut cake and meal, tariff rates and excise taxes on groundnut oil and shelled and unshelled groundnuts under the Tariff Acts of 1913, 1921, 1922 and 1930, and Revenue Acts of 1934 and 1936; the United Kingdom: net imports of groundnut oil, and of groundnuts, activity of United Kingdom oil mills with groundnuts, exports of groundnut oil from the United Kingdom, apparent home consumption of groundnut oil, groundnut oil used in the manufacture of margarine and lard compound, use in the soap industry, Government policy with regard to oils and fats including the tariff duty on groundnuts and oil, duties on groundnut oil imposed or raised by the Ottawa Agreements, and "pledged" by the Ottawa Agreements; France: production, consumption and foreign trade in groundnut oil, tariff policy with regard to shelled and unshelled groundnuts; Italy: figures on foreign trade in groundnuts and groundnut oil; Czechoslovakia: duty established for groundnut oil; Netherlands: production, consumption and foreign trade in groundnut oil; Denmark: foreign trade in groundnuts, groundnut oil used in the manufacture of soap, groundnut oil used in the manufacture of margarine, and customs duties on oils and fats, including groundnut oil.

Section V. Utilisation of fats and oils, pp. 361-413, includes the following statistics: groundnut oil used in the manufacture of soap in the United States, United Kingdom, Germany and Denmark; factory consumption of groundnut oil in the United States, expressed as percentage of total oils in compounds and vegetable shortenings; groundnut oil used in the margarine and artificial food fat industry in Germany.

Section VI. Prices of oils and fats, pp. 415-423, has the following diagrams appended: Movement of index numbers (base 1928) of prices of groundnuts, groundnut cake and groundnut oil and of that of wholesale products in general; Movements of prices of certain vegetable oleaginous products in London [copra, cotton seed, and groundnuts]; Movements of prices of certain oils, used for the manufacture of margarine, in London [coconut oil, cotton oil, and groundnut oil].

17. International institute of agriculture. Service de la statistique générale. Production et commerce des produits oléagineux et huiles végétales. Oleaginous products and vegetable oils - production and trade. 192pp. Rome, Imprimerie de l'Institut International d'Agriculture, 1926. 307 In80

This study may "be considered as linking up the monographs published in French in 1921 and in English in 1923 [see item 6], with the statistical tables of production of, and trade in, oilseeds and vegetable oils, intended to appear in the Yearbook from 1926 onwards."

Table 1, pp. 104-107, gives area, production and yield per hectare of groundnuts for the producing countries; table 14, pp. 130-133, exports and imports of groundnuts by countries (figures given by continents in table 31, pp. 174-175); and table 15, pp. 134-135, exports and imports of groundnut oil by countries (by continents, table 32, pp. 174-175).

Groundnuts, pp. 64-68, discusses the production of groundnuts in various countries, trade in the product, and trade in groundnut oil.

18. Lynch, D. F. J. The peanut industry. Jour. Chem. Ed. 7(4-8): 794-811, 1037-1050, 1277-1290, 1617-1631, 1859-1868. April-August 1930. 381 J826

Part I. Peanut culture. Takes up the name and origin of the peanut, the characteristics of the plant, its culture and harvesting, hogging off the crop, and disposal of farmers' goods.

Part II. Preparation of peanuts for the market. Includes the cleaning process, shelling, shelled grades, roasting, and the salted peanut industry.

Part III. Peanut products. This includes a discussion of peanut butter industry, peanut candy, peanut flour, nutritional value of peanuts and peanut products.

Part IV. Peanut oil. Describes the French peanut oil industry, the American peanut oil industry, growing peanuts for peanut oil, refining the oil, peanut oil research, application of results of research, nutritive value of peanut oil, irradiated peanut oil, possible future uses for it and present uses.

Part V. Peanut by-products. Takes up the by-products of the peanut vine, peanut hay, peanut meal, peanut hulls, the uses for these products.

19. MacClenny, Wilbur E. History of the peanut. 22pp. Suffolk, Va., The Commercial press, inc. [1935] Libr. Cong. Pam. Coll. Annex Deck 7.
The history of the peanut is traced in this pamphlet from its probable earliest beginnings to the present time, including the peanuts grown on American soil in early times, the possible carrying of the peanut from ancient Egypt to South America, early peanuts in Virginia, prices of the nuts in 1858 and later, methods of cultivating the plant in 1869 and later advances in these methods, peanut cleaning machinery, and the introduction of peanuts into China from the United States. Tables show the world crop of peanuts, 1931-1933, and acreage, yield and production of peanuts in the producing states of the United States, 1932-34.
20. Marques de Souza, João. Cultura do amendoim. 14pp. Rio de Janeiro, Typ. Villas-Boas & c., 1920. 77B 1920 Pam. Coll.
At head of title: Ministerio da agricultura, industria e commercio. Serviço de informações e divulgação.
"Obras consultadas": 1 leaf at end.
The author outlines the origin and history of the peanut plant and describes its harvesting, commercial and medicinal value, and industrial exploration, including oil extraction and uses for the cake.
21. Montel, D. Essai d'une bibliographie récente de la production des matières grasses. Institut Colonial de Marseille. Bulletin des Matières Grasses, 1922, no. 9-10, pp. [237]-300.
Arachide, pp. 242-247. References to material on peanuts, their culture, enemies, parasites, diseases, cultural conditions in various countries, trade and statistics, peanut oil and the peanut as feed.
22. [Reid, William Alfred] Peanuts in the Americas...17[3]pp. Washington, D. C. [Baltimore, R. L. Polk printing co.] 1931. ([Pan American union] Commodities of commerce series, no. 8) 150.9 C732 no. 8
Signed W. A. R.
An earlier edition of this work was written by Edward Albes and published in 1926.
23. Review of the peanut industry. Spice Mill 52(1): 176-178; (2): 367-369. January, February 1929. 339.8 Sp4
Based on U. S. Dept. of Commerce. Bureau of Foreign and Domestic Commerce, Foodstuffs Division. General information on peanuts. (See item 26)
Prints the grades adopted by the National Peanut Cleaners and Shellers Association as amended January 24, 1928, information on harvesting and curing, picking, cleaning, shelling, grading and the uses for peanuts as roasting and salting, roasting unshelled, peanut butter, candy, in pastry, as oil and as flour. Domestic

distribution channels, competition, domestic prices, production, acreage and farm value in the United States, consumption imports, ocean freight rates, United States import duties, Chinese production and trade, world production are also discussed.

Sources of information on peanuts, p.369.

24. Richert, T.G. Oils, their production and consumption. Oil and Soap 12(7):148-152. July 1935. 307.8 J82
Peanuts and peanut oil are included. A table shows the world production of peanuts, by countries, 1932-1934. The great increase in sending of U.S. peanuts to mills because of the "AAA oil mill bonus" is indicated, as well as the peanut's increasing importance in other countries.
25. Tréhard, André. Une grande culture coloniale: l'arachide. La Nature 58(pt.2) (2847):529-532. Dec. 15, 1930. U.S. Natl. Museum 505.44
Describes the cultivation of the peanut in Senegal and in the United States, the yields obtained, and the uses to which the nut is put.
26. U.S. Department of commerce, Bureau of foreign and domestic commerce, Foodstuffs division. General information on peanuts. 12pp., processed. [Washington, D.C.] 1931. 157.55 G28 Pe
The following topics are taken up: varieties of peanuts; harvesting and curing; picking; cleaning; processes for shelling and grading; grades; uses; domestic distribution channels; competition; domestic prices; production, acreage and farm value in the United States 1922-1930; production by states 1926-1930; consumption 1920-1930; the United States export trade; import duty in the United States 1912, 1913, 1922, and 1929 for shelled and unshelled nuts; China's production and trade; and world production by countries.
Sources of information on peanuts, pp.11-12, includes a list of trade associations and trade journals.
27. U.S. Tariff commission. Survey of the American peanut industry. 32pp. Washington, Govt. print. off. 1920. 173 T17Sp
This survey takes up the description and uses of the peanut, domestic production, geographical distribution, domestic consumption, domestic exports, foreign production, imports, prices, tariff history, competitive conditions, tariff considerations, and the peanut butter industry. Tables at the close of the study show peanut production in the United States (1899 and 1909); in the principal foreign countries (1910-1920); exports from leading countries, (1910-1920); peanuts not shelled and shelled, imports by countries, 1910 through the first four months of 1921; peanuts not shelled, imports by countries, 1912-1920; peanuts shelled, imports by countries, 1912-1920; peanuts shelled, imports for consumption, revenue, 1907-1920; peanuts unshelled, imports for consumption, revenue, 1907-1919; domestic exports of peanuts, 1910-1920; prices of Virginia peanuts, monthly averages actually paid to farmers at factory door, Suffolk, Va., 1913/14 - 1919/20; prices of

white Spanish peanuts, monthly averages actually paid to farmers at factory door, Texas, 1912/13-1919/20; rates of duty under various acts, 1883-1913; crop movement, farm to factory, 1916/17-1918/19; international trade, exports and imports, 1910/14, 1917-1919; exports from British India, fiscal year ending Mar. 31, 1909/10-1918/19 and April-October 1919; unshelled peanuts, exports from Senegal, 1910-1914; Chinese exports of groundnuts, shelled and unshelled, 1910-1918; Chinese imports of groundnuts, 1909-1913; exports from Java and Madura, shelled and unshelled, 1910-1918 and January-September 1919; exports and imports of Japanese groundnuts, 1909-1918; peanuts and peanut oil, Hongkong trade, calendar year 1918; peanuts, shelled and unshelled, railroad freight rates; and ocean freight rates.

28. Valdivia, Miguel A. El maní o cacahuete. La Hacienda 28(4):148-149. April 1933. 6 H11

It is pointed out that the peanut plant acquires greater industrial importance each year, and has, according to laboratory experiments, produced 145 distinct products. These include peanut hay, products used in human consumption, peanut butter, oil, and cake. Reference is made to tests made in various countries, by the United States Department of Agriculture, and by Dr. G.W. Carver of Tuskegee Institute.

29. Vieira Scuto, Paulo. A cultura do amendoim. 58pp. Rio de Janeiro, Typ. de Revista Floreal, 1922. 77 V67A 1922.

At head of title: Ministerio da Agricultura, industria e commercio, Serviço de informações.

In addition to cultural method and composition of the peanut, this bulletin takes up the time and method of harvesting, drying of the branches and fruit - methods used in the United States and Brazil, yields, domestic and foreign trade in the product, and the importance of industrial and agricultural applications (uses) of the peanut seed and plant (including the value and uses of the extracted oil).

UNITED STATES

General

30. A., G.H. Facts for peanut growers. Prog. Farmer (Miss. Valley ed.) 35(3):165. Jan. 17, 1920. 6 So81

The value of peanuts as feed for livestock and as soil improver is brought out.

31. Alabama. Agricultural experiment station. Peanuts. Ala. Agr. Expt. Sta. Leaflet 5, 4pp. Auburn, 1934.

Includes directions for harvesting, picking, storage and hogging-off of peanuts, and mentions their value in soil improvement and use as a vegetable oil in industry.

32. *Arachis hypogaea*. Business Week, no. 446, p. 52. March 19, 1938. 280.8 Sy8

Brief figures on acreage and value of peanut production in the United States are given. The current value of peanut oil, and the standard trading unit of the Produce Exchange are discussed. A table gives production in pounds and average price per pound on farm of peanuts, and consumption, production and net imports in pounds of peanut oil, 1929 to 1937.

33. Barry, Bob. Importance of the peanut crop in the Nation's food supply. Mfrs. Rec. 102(6): 42. June 1933. 297.8 M31

Brings out the aggregate annual value of the peanut crop, the increase in peanut production since 1900, and the food value of the peanut.

34. Barry, Bob. Peanut. Articles & addresses. 50pp., processed. [n.p.] 1938. 77 B27

Partial contents: Peanut exhibit at the Chattanooga valley exposition, October, 1932; Peanut exhibit at the National recovery exposition, Macon, Ga., week ending March 24th, 1934; "Peanutology ...", pp. 1-4 (reprints of a series of three articles in the Peanut Journal); Tom Huston Peanut Co. builds modern shelling plant, pp. 4-5 (reprint from Industrial Index); Importance of the peanut crop in the nation's food supply, pp. 5-6 (reprint from Manufacturers Record); Georgia peanut industry steps ahead, pp. 6-7; Peanutology, pp. 7-18 (Nos. 4-11 in the series of reprints from the Peanut Journal); Peanutology, pp. 21-24 (No. 12 of the series); Rise of the peanut industry in America. Its genealogy and history, pp. 24-26 (Reprint from The Peanut Journal); Value as food is established. Tom Huston Peanut Company is an important and interesting industry, pp. 28-29 (reprint from The Columbus Ledger); "Lowly Peanut" becomes backbone of an industry meaning much to Columbus, pp. 29-31 (reprint from Columbus Ledger); Food value of peanuts causes annual world production to now reach 12,000,000,000 pounds, pp. 31-32 (reprint from The Columbus Ledger); History of the peanut proves its food value, pp. 32-33 (reprint from The Columbus Ledger); All are helped as peanut industry becomes greater, pp. 33-34 (reprint from The Columbus Ledger); All bodily functions cooperate with peanuts, pp. 34-35 (reprint from The Columbus Ledger); Peanuts are 1438 points better than average food, local expert maintains, pp. 35-36 (reprint from The Columbus Ledger); Low water content in peanuts makes food cost less, expert explains,

- pp.36-38 (reprint from The Columbus Ledger); Past, present and peanuts discussed by local expert, pp.38-39 (reprint from The Atlanta Journal); Tom Huston Co. big purchaser. Spanish peanuts converted into many products enjoying wide sale, pp.39-40; Four vitamins of six found in peanuts, p.41 (reprint from The Columbus Ledger); Barry talks about peanut, pp.42-43 (reprints from the Columbus Ledger and the Columbus Enquirer); Barry talks about peanuts, pp.43-45 (Address delivered before the Lions Club and reprinted from The Columbus Enquirer); Barry talks about peanuts. Gives history of industry from the ancient days of the Inca Tribes in America, pp.45-46 (reprint from The Columbus Ledger); Barry talks on peanuts, pp.46-47 (reprint from The Columbus Ledger of an account of a talk before the Rotary Club); Peanuts popular, says club guest, p.47 (reprint from Macon Evening News); Peanut history given by Barry, pp.47-48 (reprint from Macon Telegraph); Barry babbles wisely to Kiwanians about herbaceous plant, suborder of Leguminosae, pp.48-49 (reprint from The Lynchburg News); Peanuts popular, says club guest, p.49 (reprint from Macon Telegraph); Rotary Club hears Barry on peanut. History of peanut is reviewed by Bob Barry, pp.49-50 (reprint from Columbus Enquirer).
35. Batten, E.T. Experiments with cotton and peanuts and crops grown in rotation with them in Nansemond county. Va. Agr. Expt. Sta. Bull. 229, 28pp. Blacksburg, 1922.
Has a brief passage on the importance of the peanut crop in Virginia and its money value.
36. Batten, E.T., and Poos, F.W. Spraying and dusting to control the potato leafhopper on peanuts in Virginia. Va. Agr. Expt. Sta. Bull. 316, 26pp. Blacksburg, 1938.
Includes a brief discussion of the value of the peanut crop in Virginia and the varieties planted.
37. Beattie, J.H., Jackson, A.M., and Currin, R.E. Effect of cold storage and age of seed on germination and yield of peanuts. U.S. Dept. Agr. Circ. 233, 12pp. Washington, D.C., July 1932. 1 Ag84C
Experiments conducted at Arlington Experiment Farm, Rosslyn, Va., and Pee Dee Experiment Station of the State Agricultural Experiment Station at Florence, S.C.
38. Beattie, J.H., Hunn, C.J., Miller, F.E., Currin, R.E., and Kyzer, E.D. Effect of planting distances and time of shelling seed on peanut yields. U.S. Dept. Agr., Dept. Bull. 1478, 12pp. Washington, D.C. March 1927. 1 Ag84B
Contents: Effect of planting distances on yield of peanuts, by J.H. Beattie, F.E. Miller, and R.E. Currin, pp.1-4; and Effect of time of shelling peanut seed on germination and yield, by J.H. Beattie, C.J. Hunn, R.E. Currin, and E.D. Kyzer, pp.4-11.

39. Beattie, W. R. El cacahuete. La Hacienda 16(1): 22-25; (2): 46-47; (3): 79; (4): 109-111; (5): 152-153. October-December 1920; January-February 1921. 6 H11
The writer describes the methods for cultivation of the peanut, its harvesting, separating and cleaning, and uses.
40. Beattie, W. R., and Beattie, J. H. Peanut growing. U. S. Dept. Agr. Farmers' Bull. 1656, 29pp. Washington, D. C. [February 1931]
1 Ag84F
Supersedes and revises Peanut Growing for Profit, by W. R. Beattie, issued in 1920 as U. S. Dept. Agr. Farmers' Bull. 1127. Harvesting and curing, pp. 14-19; Preparation for market, pp. 19-22 (includes picking, bagging, cleaning and grading); Varieties for the market, pp. 22-24; Marketing, pp. 24-25; Peanuts and by-products as a stock feed, pp. 25-27; Value as a money crop, pp. 27-28.
41. Blackwell, C. P. Peanuts. Clemson Agr. Col., S. C., Ext. Div. Bull. 45, 14pp. Clemson College, 1920. Off. Expt. Sta. Libr.
Discusses peanuts as a cash crop, what can reasonably be expected of the peanut (in yield and value of the crop) in South Carolina, planting, harvesting, stacking and curing, picking and threshing, the hay, rotations for peanuts, the future of the peanut industry, pasturing the crop with hogs, and the machinery needed to produce the crop.
42. Blanton, Annie Webb, Davis, C. L., Hinds, J. H., and Rutland, J. B. Project study outlines. Tex. Dept. Ed. Bull. 121, 69pp. Sept. 1, 1920. Libr. Cong. LB1027.T4 1920
Project study outline for peanuts, pp. 24-27. Gives study questions and references for finding the answers.
43. Braunton, Ernest. California peanut industry. Calif. Cult. 54(15): 624. April 10, 1920. 6 C12
This article is devoted chiefly to cultural methods, particularly as followed by A. B. Miller, Fontana, San Bernardino County, California, the largest grower of peanuts in the state. The uses to which these nuts are put, are outlined.
44. Braunton, Ernest. A California peanut story. Calif. Cult. 55(22): 697. Nov. 27, 1920. 6 C12
An outline of the methods in peanut cultivation followed on the A. B. Miller Farm, Fontana, San Bernardino County, California, including curing and threshing the nuts, and the purposes for which the various grades are sold.
45. Browne, T. E. When peanut growing depletes soil. Amer. Fert. 52(10): 134, 138. May 8, 1920. 57.8 Am3

Following a review of the effects upon the soil of growing peanuts without a fertilizer, it is pointed out that "what we need is to reduce our acreage so as to allow a better rotation; produce and put on the market a nut of better quality, deriving therefrom as much profit as from a larger crop of inferior quality, and at the same time take care of our farming lands."

46. Burmeister, Gustave. Trend of the peanut industry. What it means to candy men. Internatl. Confectioner 44(1):42,55. January 1935.
389.8 In214
47. Cauthen, E.F. Increasing the yield of peanuts. Prog. Farmer and Farm Woman. [Miss. Valley ed.] 35(18):918. May 1, 1920. 6 So81
Gives the average yield of peanuts for Alabama, Georgia and Mississippi, the value of a good acre of peanuts over an average acre, and the amount of acid phosphate per acre needed as fertilizer.
48. Chamberlin, Jo, and Shaw, Harry. That burrowing bean. Rev. of Reviews 93(1):34-36,62. January 1936. 110 Am32
"Pertinent facts and figures on the nut [peanut] which is not a nut, and how the AAA is endeavoring to help the peanut industry."
49. Clay, Harold J. Government suggests moderate increase in peanut acreage. Peanut Jour. and Nut World 10(5):13,14. March 1931. 77.8 P313
50. Corbett, L.C., [and others.] Fruit and vegetable production. U.S. Dept. Agr. Yearbook 1925:151-452. Washington, 1926. 1 Ag84Y
This section of the Yearbook of Agriculture is compiled by L.C. Corbett, H.P. Gould, T.R. Robinson, G.M. Darrow, George C. Husmann, C.A. Reed, D.W. Shoemaker, C.J. Hunn, J.H. Beattie, W.R. Beattie, J.B. Kincer, and L.B. Flohr.
Peanuts, pp.403-411. Traces the history of peanuts, and discusses the distribution of the industry in the United States, the importance of high-yielding seed, the uses of the nut, and the handling of the crop.
51. Experiences in growing peanuts. Prog. Farmer and Farm Woman [Miss. Valley ed.] 41(19):536. May 8, 1926. 6 So81
This is a page of letters from readers, which takes up cultural methods chiefly but includes profits and yields.
52. Ferris, E.B. Peanuts. Miss. Agr. Expt. Sta. Bull. 208, 14pp. A. and M. College, 1922.
A revision of Bulletin 130.
The origin and extent of peanut production in the United States, harvesting, yields, value as soil builders, improved methods of handling, uses, and adaptation to southern Mississippi conditions are described.

53. For marked expansion in peanut handling. Amer. Nut Jour. 28(3): 52.
March 1928. 80 Am335
"The Planters Nut & Chocolate Co., largest handlers of peanuts, will construct in Albany, Ga., a plant for the white Spanish peanut business which the company is pushing."
54. \$44,000,000 peanut crop ranks with big business. Mfrs. Rec. 106(5): 78.
May 1937. 297.8 M31
A discussion of the Dawson, Georgia, peanut industry, which "claims to be the 'Spanish Peanut Center of the World.'"
55. Gray, Lewis Cecil. History of agriculture in the southern United States to 1860. By Lewis Cecil Gray, assisted by Esther Katherine Thompson. Volume I. Washington, Carnegie institution of Washington, 1933. 30.9 G79
The following statement is made on page 4:
"Peanuts, probably originally from Brazil, were early introduced to Europe, and soon came to be extensively grown in Africa, whence it is probable they were introduced into the Colonies by slave ships. Groundnuts were found growing in Virginia by the English colonists. They are also listed in the account of Gosnold's expedition in 1602."
On page 194, the following is given: "Various other crops were sporadically grown. Groundnuts, or peanuts, were said to have been introduced by Negroes from Guinea, who used them raw, roasted or boiled in soup. They were also employed in the Colonies as a source of oil."
56. Grinstead, H. F. Peanuts as a farm crop. Calif. Cult. 54(20): 838-839.
May 15, 1920. 6 Cl2
"By H. F. Grinstead in Farm and Ranch."
Harvesting and stacking, and the advantages of growing peanuts for hogging off are briefly discussed.
57. The ground-nut as food. Pan-Amer. Mag. 32(5): 279-281. April 1921.
110 P19
The writer brings out the value of peanuts as a soil-builder and as a food, imports into the United States and the countries from which they come, the quality of nuts imported from Japan, and the uses to which Japanese and Chinese peanuts are put.
58. Harper, J. N. Money in peanut growing. Amer. Fert. 52(3): 67-69.
Jan. 31, 1920. 57.8 Am3
"The demand for peanuts is steadily increasing. Many farmers of the South, especially those living in the boll weevil section, have found it a most profitable cash crop when grown for the oil mills. The oil mills of the South need millions of tons of peanuts to supply the demand for vegetable oils and to keep their plants operating full time. They are paying good prices for all they can buy."

The article deals chiefly with cultural methods, but includes directions for harvesting.

59. Harper, J. N. Peanuts. A good substitute for cotton in boll weevil territory. South. Fert. Assoc. Soil Impr. Com. Bull. 16, 8pp. Atlanta, Ga. [n.d.] 57.9 So8S

"While cotton will doubtless always be the great money crop of the South it has been found that the peanut is a good substitute for it, especially on light, sandy soils. A number of farmers on the coastal plains of the Carolinas and Georgia are obtaining as much as 50 to 100 bushels of nuts per acre with proper cultivation and fertilization.

"The demand for peanuts is steadily increasing. Many millions of bushels are used by the candy trade of this country. A great and rapidly increasing quantity is being crushed for the production of oil for which there is a ready market. Considerable quantities of this oil and other products of the peanut have been coming from foreign countries but now the cotton-seed oil mills of the South are preparing to manufacture peanut oil, and are on the market for nuts, at good prices."

Harvesting (including costs), yields, and a word on marketing, are given.

60. Harrison, W. H. Culture of peanuts. Rural New Yorker 87(500): 678. April 28, 1928. 6 R88

A brief article which takes up, among other things, the origin and history of the peanut, prices, and labor requirement for cultivation.

61. Importance of the South's peanut crop in American trade. Mfrs. Rec. 89(5): 100. Feb. 4, 1926. 297.8 M31

This note, which is based upon a publication of the Foodstuffs Division of the U. S. Department of Commerce (see item no. 26), outlines the production of peanuts in the South in 1924 and 1925, imports, trends in competition and centers of peanut demand in the United States.

62. Jackson, W. L. California peanut prospects. Calif. Cult. 77(5): 85, 93. Aug. 1, 1931. 6 C12

"Many California farmers are again looking toward peanuts as a possible cash crop, which may be depended upon to return a reasonable profit. The crop fits in well as a legume in the rotation program of the cotton farmers. California growers have had some experience with peanut production and have been successful so far as yields and quality are concerned. Cost of production under California conditions, however, has been the big drawback. High priced land, labor, and water charges add materially to production costs in California. Growers have found that they could not compete with low priced peanuts brought in from the Orient and also with those produced in our southern states. With Oriental imports

effectively blocked out of the picture, some believe that the California growers have a better chance of meeting the competition of southern grown nuts. This may hold true especially if we can produce materially greater yields per acre."

Previous California experience in peanut production, and the methods used in the southern peanut-producing belt are discussed. These latter include the share agreement for tenants, production under the plantation system and credit for financing production. In conclusion, consumption and prices on the Los Angeles market are taken up.

63. Jester, W.B. *Arachis hypogea*. [4]pp. Richmond, Virginia State Chamber of Commerce [193?] Pam. Coll.

Reprint from the Chesapeake and Ohio Pere Marquette Employees Magazine.

Outlines briefly the history of the peanut, its food value, uses, and extent of cultivation and production.

64. Jester, W.B. Story of the Suffolk Peanut company. *Peanut Jour. and Nut World* 18(4):9-10. Feb. 7, 1939. 77.8 P313

This is the first of a series of articles "descriptive of shelling plants in the Virginia-North Carolina section. In addition to being historical, tracing the progress of each plant, covered from its inception, they will be illustrated. Short biographical sketches of the chief executives will accompany each article." (Editorial note, p.7 of Feb. 7, 1939 issue)

Jester, W.B. Story of the American Peanut Corporation. *Peanut Jour. and Nut World* 18(5):9-10. March 7, 1939, is next in the series.

65. Jodidi, Samuel L. Preliminary biochemical studies on effects of certain environmental factors on development and composition of the peanut. *U.S. Dept. Agr. Jour. Agr. Res.* 57(4):301-311. August 15, 1938. 1 Ag84J

"The present paper reports the results of chemical examination of kernels and shells from six preliminary lots of peanut plants, which varied markedly in yields and appearance and which grew on soils of different texture or received different fertilizer or other chemical treatment. The object of this preliminary examination was to determine whether markedly different development and yield responses were accompanied by marked and easily determinable differences in physiological condition as revealed by estimation of certain chemical constituents of the fruits."

66. Krauss, F.G. El cultivo del cacahuete en Hawaii. *La Hacienda* 20(10): 302-305. October 1925. 6 H11

This article on the cultivation of the peanut in Hawaii contains material on harvesting, per acre yields for different varieties, and the peanut as a feed for livestock.

67. McClelland, C.K. Growing peanuts in Arkansas. Ark. Agr. Col. Ext. Serv., Ext. Circ. 316, 2pp. Little Rock, 1933. Off. Expt. Sta. Libr.

It is pointed out that the peanut is a minor crop in Arkansas, that "It is of value for grazing, for hay, for human food, and to some degree for soil improvement. In so far as small amounts of seed or hay may be sold, it has some value as a cash crop."

Harvesting, picking, and utilization of the crop are outlined briefly.

68. McClelland, C.K. The peanut crop in Arkansas. Ark. Agr. Expt. Sta. Bull. 263, 15pp. Fayetteville, 1931.

"Peanuts are an important secondary crop in Arkansas. They are of high value in a diversification program, since they serve as a source of feed and food, and also for soil improvement purposes.

"Their importance in Arkansas varies with the rise and decline in values of cotton and of cottonseed oil. The highest value was reached in 1919 in a period of high production and prices, and the lowest, of recent years, in 1925 when the farm value reached the low point of 3.1 cents per pound.

"The experiments reported were on spacing of rows and hills, and on varieties." Results are given for yield of nuts, yields of hay, weight per bushel, percentage of meat in nuts, etc.

69. McNess, George T. Peanuts in Texas. Tex. Agr. Expt. Sta. Bull. 381, 23pp. College Station. May 1928.

Harvesting, stacking and curing, yields, feeding to livestock, and marketing are discussed, among other things.

70. May, D.W. The peanut: a staple crop... Puerto Rico Agr. Expt. Sta. [Mayaguez], Agr. Ext. Notes, no. 44, 2pp., processed. (Eng. ed.) San Juan, P.R., March 15, 1922.

There is also a Spanish edition.

The writer brings out the grades of peanut oil and their uses, other uses for the nuts, and expected yields. Advice for growing the crop in Puerto Rico is given.

71. Mooers, C.A. A select list of varieties of farm crops. Tenn. Agr. Expt. Sta. Circ. 10, 4pp. Knoxville, 1927.

Includes yields and approximate harvesting dates of Spanish, Red and Virginia White-peanuts.

72. Mooney, Booth. Peanuts in Texas. Tex. Weekly 12(2):8-9. Jan. 11, 1936.

An article regarding the value to Texas farmers of its peanut crop. "In 1935 it was worth more than four million dollars to them."

73. Norton, Edward J. Edible nut industry grows up. Food Indus. 4(7): 236-239. July 1932. 339.8 F737

Various nuts are discussed in this article, but it is pointed out that the peanut, which is not really a nut, holds "the place of distinction in the nut dish," and that "it is estimated that there is invested more than \$125,000,000 in the peanut industry which gives direct employment to 150,000 people, and that upward of 2,000,000 acres of land in the Southern States is devoted to the cultivation of peanuts."

74. Only an adequate tariff can save American peanut growers. Mfrs. Rec. 90(25):52. Dec. 23, 1926. 297.8 M31

"Peanut growers have petitioned for an increase in tariff and investigation is under way by the Tariff Commission which is compiling data for a public hearing. It is up to the Southern peanut growers to save themselves from being driven out of business and to save this valuable source of homegrown food supply to the American people."

75. Osborne, D.B. Peanuts as a cash crop. South. Fert. Assoc., Soil Impr. Com. Circ. 1, 5pp. Atlanta, Ga. [n.d.] 57.9 So8

The writer outlines the five avenues of profit in the peanut crop and compares the profitability of peanuts with cotton, in which connection he says: "The profit value of an acre of well cultivated and fertilized peanuts is equal to the profit value of an acre of cotton producing two-thirds of a bale to the acre."

A table is given showing comparative costs per acre of cotton and peanuts, and comparative returns from the two crops.

76. The peanut. Distinguished Negro's plea. Amer. Nut Jour. 14(4):48. April 1921. 80 Am335

The author describes the Congressional Committee Hearing at Washington, D.C. at which a plea was made for a higher duty on peanuts. Particular attention is given to the testimony of Dr. G.W. Carver of Tuskegee Institute, who "wafted them [the Committee] on the wings of unlimited possibilities for the peanut, if the American grower was only given such protection as would insure a full development of the industry."

77. The peanut a world crop. Amer. Fert. 51(9):54-55. Oct. 25, 1919. 57.8 Am5

Article taken from the "Fertilizer and Feeding Stuffs Journal" of London.

A summary of the chief peanut exporting countries, importing countries, composition of the nut, industrial uses, and feed value.

78. Peanuts as a summer crop in California. Pacific Rural Press 99(10):395. March 6, 1920. 6 P112
"As a crop justifying the planting of a number of acres, peanuts seem like a good thing locally, and this would doubtless be true over most of California, and Spanish nuts are the favorite. The limiting factor is ability to get the crop into a marketable condition."
79. Peanuts plus personality - the basis of a successful enterprise. Mfrs. Rec. 96(2):58-59. July 11, 1929. 297.8 M31
An account of the rapid rise of the Tom Huston Peanut Company, of Columbus, Georgia.
80. Pickett, John E. Feeds and pastures; a new oil and feed industry. Pacific Rural Press 132(9):210, 211. Aug. 29, 1936. 6 P112
The writer discusses the advantages in growing sunflowers and peanuts. They will, he says, produce at home vegetable oils now imported; produce valuable protein feeds; put acres to work; keep the oil mills of the coast busy; and set up in a business of their own some of the people turned out by agricultural schools.
81. Pope, J.D. An economic study of farms in the peanut area of Alabama with reference to hog production. Ala. Agr. Expt. Sta. Rept. (1930) 41:8-9. Auburn, 1930.
The study for 1927 and 1928 includes ratios between size of farms and area devoted to peanuts; area in peanuts and proportion sold for cash; receipts per acre when sold for cash and through hogs.
82. Pope, J.D. A study of the organization of farms in the peanut area of Alabama. Ala. Agr. Expt. Sta. Rept. (1931)42:10. Auburn, 1931.
Summarizes the results of a study, showing increase in average farm incomes in 1927 and 1928; proportions planted to Spanish type peanuts, hogged off, and income from hogs; and corn acreage interplanted with peanuts.
83. Prolific peanuts: "Mr. Peanut" grows up, becomes symbol of huge industry. Lit. Digest 123(10):40-42. March 6, 1937. 110L
"The monocle and cane are evidence that he is no longer the lowly goober of several decades ago, ridiculed as the 'monkey nut' and dispensed hot or miss from corner fruit-stands. Now he is the symbol of a \$10,000,000 industry: The Planters Nut and Chocolate Co. More than 100,000,000 pounds of him go into Pennant salted peanuts, into Jumbo nut bars, into peanut butter, peanut flour, kosher oil, and some twenty other products.
"Soon he will go into house insulation as well."
A history of the firm, its production methods, and its warehouses in Suffolk which made that city the "peanut capital of the world" are discussed.

84. Purdon, R.L. United States trade in peanuts. Peanuts occupy large place in industry and dietary of the United States - Imports triple pre-war average - China's chief source of supply. U.S. Dept. Com., Bur. Foreign and Dom. Com. Com. Repts. no.5, pp.260-261. Feb. 1, 1926. 157.7 C76D
Domestic marketing methods, United States imports and post-war changes in them; the Chinese export trade, and comparative prices of domestic and foreign nuts are given.
85. Reid, Allen. The peanut business that grew to million-dollar size. Sales Management 21(5):212, 224. Feb. 1, 1930. Libr. Cong. HF5438.A34
"The sales policies that built the [Tom Huston peanut] company are outlined here by the sales manager." - Ed. note.
86. Ryckman, John R. Peanuts - a money crop. South. Cult. 85(17, whole no. 3412): 7. Sept. 1, 1927. 6 So84
A brief summary of the acreage of the peanut in the southern states, its history and commercial uses.
87. Saunders, W.O. An adventure in peanuts. Nation's Business 16(13): 80, 82-84. December 1928. 286.8 N212
The author recounts the life of Amadeo Obici, President of the Planters Nut and Chocolate Company.
88. Scott, John M. Growing peanuts in Florida. Fla. Dept. Agr. Bull. 9, (n.s.), 23pp. Gainesville, 1928. 2 F66B
Harvesting, pp.13-14; Method of stacking peanuts to cure, pp. 14-17; Yield, p.18; Sacking and handling after picking, pp. 18-20; Marketing, pp.20-21; Weight of peanuts, p.21; Uses of peanuts, pp. 21-23.
89. Smith, Alfred G. Peanuts a plenty. They help many farmers to beat the boll weevil. Country Gent. 88(18):9. May 5, 1923. 6 C833
The acreages of peanuts in the producing states, the market outlets, fluctuations in the peanut market, and methods of stacking and threshing the nuts are described. The writer considers also the probable effect of the tariff upon peanut prices and production.
90. Smith, Alfred G. Peanuts and prohibition. Country Gent. 89(17):8. April 26, 1924. 6 C833
The Eighteenth Amendment caused an increase in candy consumption, which in turn called for more peanuts. The enactment of the tariff on peanuts saved the farmer from losses brought about by the flooding of the market with cheaper Oriental peanuts. The chances of overproduction of peanuts are considered, and experiences of farmers with the crop are brought out.

91. Southeastern peanut association, Information dept. Peanuts. 23pp. Atlanta, Ga. [n.d.] Pam. Coll.
Includes a description of the importance of the crop, harvesting, stacking, peanuts as a cash crop, and comparative food value of the nut.
92. Southern cotton oil company. Agricultural service bureau. Peanut culture. 14pp. [n.d.] Pam. Coll. 77 So
Fertilizers lessen cost of production, pp.11-12; harvesting, pp. 13-14.
93. Spice mill; devoted to the interests of the coffee, tea and spice trades [monthly], v.26, July 1903-date. New York, 1903-date. 389.8 Sp.4
v.35-36,48-49 have each a convention extra; v.26-35 have title: Spice Mill; v.36-43 have title: Simmons' Spice Mill...
With v.54, no.5, May 1931 absorbed Flavoring Extract Journal.
This publication in 1920 was running a regular section of information and statistics pertaining to peanuts. Beginning in volume 49 (January to June issues) there is a monthly report of the peanut situation, by Harold J. Clay. This report continues through March 1937, volume 60, no.3.
94. Stansel, R.H. Peanut growing in the Gulf Coast Prairie of Texas. Tex. Agr. Expt. Sta. Bull. 503, 16pp. College Station. 1935.
Gives yields in nuts and forage in variety tests, and the composition and uses of peanuts.
95. Stephens, P.H., Sanders, J.T., Herrmann, O.W., Duncan, O.D., and Nelson, Peter. Agricultural outlook for Oklahoma, 1930. Okla. Agr. Expt. Sta. Circ. 76, 20pp. Stillwater, 1930.
Peanuts, by P.H. Stephens and William Kirch, pp.16-17.
96. The story of "Mister Peanut." Fifth District Banker 2(5):22-23,32-33. October 1930. 284.8 F46
History of the growth of the Planters Nut and Chocolate company. It is pointed out that every part of the peanut plant is utilized for some purpose.
97. Tabor, Paul. Peanuts for the Piedmont section of Georgia. Ga. Agr. Col. Ext. Div. Bull. 249, [4]pp. Athens, 1922. (Vol.10, no.10)
Off. Expt. Sta. Libr.
"Peanuts have been used as a substitute crop for cotton over nearly every part of the South, where the boll weevil damage has been serious. The success of the crop has been varied... In southwest Georgia, peanuts largely replaced cotton when the boll weevil first came and are still grown extensively there. The average yield has been about one-third of a ton per acre and the prices have varied from forty to one hundred and twenty dollars per ton."
Includes brief paragraphs on the machinery needed for peanut cultivation, labor required, harvesting, picking and marketing.

98. Taylor, W.S. Accounting in the peanut industry. Jour. Accountancy 29(2):113-117. February 1920. 325.8 J82
"A thesis presented at the November, 1919, examinations of the American Institute of Accountants."
99. \$10,000,000 worth of peanuts...were sold by Messrs. Obici and Peruzzi, who own Planters Nut & Chocolate Co. Profits were small - but big enough for them. Fortune 17(4):73-85, 142, 144, 146, 148. April 1938.
100. Through the statistician's eyes. Peanuts. Dun's Rev. 47(2129):38-39. January 1939. 286.8 D92
This is a brief notice on peanut production and uses for the peanut. A diagram illustrates peanut production biennially 1925 to 1937.
101. U.S. Congress. House. Committee on ways and means. Tariff information, 1921. Hearings on general tariff revision, 66th Cong., 3d sess. ... Indexed. 7 pts. Washington, Govt. print. off., 1921. 285 Un37Ta
Part III, Schedule G, pp.2048-2083. Peanuts or Ground Beans. [Paragraph 225.] This includes the statement of D. Lawrence Groner, representing the United Peanut Association of America, Norfolk, Va., pp.2048-2057. In this statement is a Brief of the United Peanut Association of America, Norfolk, Va., which brings out the need for a duty on peanuts and peanut oil, the cost of production of peanuts in China and Japan, the uses of the peanut, domestic peanut production, source of our imports, United States imports and exports, and the suitability of peanuts as a crop for the boll-weevil infested sections.
Statement of J. Frank Foochee, secretary-manager of the Cooperative Peanut Exchange, pp.2057-2070. This contains a Brief of the Virginia-Carolina Cooperative Peanut Exchange, pp.2059-2070, which discusses the extent of the peanut industry in the United States, the production and export of Oriental peanuts, shipments from China and their method of grading, the quality of the 1920 Chinese peanut crop, and urges the Committee on Ways and Means "to impose upon imported peanuts and peanut products specific tariffs suggested in the first paragraph of this brief."
Statement of George W. Carver, representing the United Peanut Association of America, Tuskegee, Ala., pp.2070-2078. Dr. Carver demonstrated numerous uses for the peanut, its possibilities, and possible extension. His brief summarizes the food value of the product and its commercial possibilities.
Statement of Allen De Ford, representing Musher & Co., New York City, pp.2078-2083, contained his brief in which he set forth his views why there should be no increased tariff on peanuts.

102. U.S. Congress. House. Committee on ways and means. Tariff readjustment - 1929. Hearings... 70th Congress, 2d sess. ... Indexed. 18 v. Washington, D.C., 1929. 285 Un37Trf
v.7, Schedule 7, Agricultural products and provisions, contains information about peanuts on the following pages: 3609, 3682, 3742, 3783, 3787, 3842, 4758-4799, 4831.
Par. 757, pp.4758-4799, Peanuts, contains briefs by Charles R. Crisp (which discusses the proposed duties on peanuts and peanut products, domestic production and imports, cost of production and the inadequacy of the present tariff.), the National Confectioners' Association of the United States, submitted by Walter C. Hughes (describes peanut usage in the candy industry and the effect of the proposed increase on candy and salted peanut costs.), certain candy manufacturers represented by Ernest E. Marks (presenting data to show why the tariff should be lowered.), Joseph T. Deal (showing cost of production, yield and vegetable oils as competitors of peanut oil.), domestic peanut growers, submitted by J. Rives Worsham (includes production costs, conditions of competition, varieties and grades of peanuts, uses and by-products, and importance of the industry.), Georgia State Farmers' Union (brings out the importance of the peanut to southern agriculture, size and importance of the industry, its capacity for expansion, and foreign costs of production compared with American costs.), and the Seattle Chamber of Commerce.
103. U.S. Congress. Senate. Committee on finance. Tariff act of 1929. Hearings... 71st Congress, 1st sess. on H.R.2667... 18v. Washington, D.C. 1929. 285 Un3T 1929
v.7, schedule 7, Agricultural products and provisions contains information relative to peanuts on pages 60, 529-536.
Includes pp.532-535, a Brief of the Kelly Co., Cleveland, Ohio (urging that the duty on shelled peanuts be restored to 6 cents per pound, and that there should be a difference of two cents or more per pound between the duty on raw shelled peanuts and that on blanched, salted and prepared peanuts.), and a letter from the Falkenburg Trading Co., Seattle, Wash.
104. U.S. Department of agriculture, Bureau of agricultural economics. The agricultural outlook 1939. variously paged. Washington, D.C., November 1938. 1.9 Ec7Agr
"Prepared by the Bureau of Agricultural Economics, assisted by Representatives of The Agricultural Adjustment Administration, The Extension Service, The Bureau of Home Economics, And the State Agricultural Colleges and Extension Services."
Includes the Peanut Outlook for 1939.
The Farm Outlook for 1939 (U.S. Dept. Agr., Bur. Agr. Econ. Misc. Pub. 333. Washington, D.C., 1938.) is a condensed report of the Agricultural Outlook, and includes peanuts, p.24.
Earlier editions of the Outlook have appeared, 1923-1938.

105. U.S. Department of agriculture, Bureau of agricultural economics. Agricultural outlook charts 1939. Oil seeds. Flax, soy beans, peanuts and cottonseed. 19pp., processed, Washington, D.C., October 1938. 1.9 Ec70f1
Earlier chartbooks were published for 1933/34 to 1938. The titles vary, and the chartbooks 1933/34-1935 have title: Rice, peanuts, soybeans, dry beans, and broomcorn outlook charts. (1.9 Ec70rp)
106. U.S. Department of agriculture, Bureau of agricultural economics. The agricultural outlook for the southern states, 1931-32. U.S. Dept. Agr. Misc. Pub. 137, 56pp. Washington, D.C., December 1931. 1 Ag84M
An earlier volume was published as U.S. Dept. Agr. Misc. Pub. 102, 56pp. Washington, D.C., December 1930.
Peanuts are included.
107. U.S. Tariff commission. Summary of tariff information, 1920; prepared for the use of the Committee on ways and means, House of representatives. 1004pp. Washington, Govt. print. off., 1920. 173 T17Su
Paragraph 225, pp.363-364, gives the tariff on peanuts, acts of 1909 and 1913. Description and uses of the peanut crop, production in the United States, and imports and exports.
Peanut cake is held free of duty under provisions of Paragraph 499. (see page 678).
108. U.S. Tariff commission. Summary of tariff information, 1921, relative to the bill H.R. 7456. 1625pp. Washington, Govt. print. off., 1922. 173 T17Su
Paragraph 50 contains a section on peanut oil, pp.156-157, which gives a description of and the uses for the oil, production in the United States, and imports and exports. Duties from oil are shown for 1918, 1919, 1920 and 9 months of 1921.
Paragraph 757, has a section on peanuts, pp.759-761, which describes and indicates the uses for peanuts, production, imports, exports, and changes in classification.
109. [U.S. Treasury Department, Procurement division] Federal standard stock catalogue. [Washington, D.C., 1930-36] 151.641 [U]
Loose-leaf.
Section III, part 7, group Y, div. s, class 56, Peanuts. 12pp. Issued April 1936. Among other things, this catalogue includes a discussion of the sources of peanut supply (world production, domestic production and foreign trade), the production processes (manufacturing or processing methods and periodical variations in production), marketing, competition and prices (including methods of distribution, grades, storage, farmers' cooperative organizations and preparation for the retail market - all for peanuts in the shell; and distribution, grades, Federal inspection, shelling and bagging for shelled peanuts; secondary distribution in the shell,

selling, storage, selling of shelled and of cleaned peanuts, transportation, geographical distribution and character of receipts in principal markets; and the peanut as it reaches the consumer.) scope or extent of competition, prices (average, fluctuations, etc.) uses, (including the various peanut products), and substitutes.

Section III, part 7, group Z, div. u, class 56, Oil, Peanut. 7pp. Issued April 1936. This outlines the sources of peanut oil supply (world and domestic production and trade), production processes, marketing, competition, and prices (this includes the geographic position of the industry, the development of the industry, grades, and adulteration), the scope or method of competition, prices (average and seasonal fluctuations) uses, and substitutes.

110. Westbrook, E.C. Results with special crops in the Piedmont section in 1922. Ga. Agr. Col. Ext. Div. Circ. 89, 4pp. Athens, 1923. 275.29 G29C

"Peanuts gave better returns in 1922 generally than any other special crop. On sixteen farms with a total of 1,353 acres an average of 27 1/2 bushels of peanuts and 1/3 of a ton of peanut hay were produced per acre. Yields ranged from 14 to 40 bushels per acre. The selling price ranged from \$90.00 to \$125.00 per ton..."

111. Westwood, Richard W. "Get your hot roasted peanuts." Nature Mag. 10 (3):181-183. September 1927. 409.6 N214

The importance of the peanut in the boll-weevil sections of the country, and the value of the crop to the farmer, the uses for the vine and oil are mentioned.

112. Whitney, D.J. Peanuts again an established crop. Calif. Cult. 85 (20):581, 593. Sept. 24, 1933. 6 C12

"The peanuts now being grown are the Spanish bunch peanuts, a small variety, which is used primarily for oil..."

"They are being grown on contract, not at a fixed price, but at the San Francisco price according to government reports at the period in the fall when most of them would naturally move to market..."

"The grading is done by the State Department of Agriculture at a cost of \$2 per ton, half of the cost being paid by the producer and half by the purchaser..."

"When the industry is well established and better methods are worked out, yields of 1200 to 1500 pounds per acre should be about the minimum production with good crops running well over a ton. The value of the straw from such crops is sufficient to help out appreciably."

113. Williams, Matt J. Peanuts in the crop rotation on light sandy soils. Pacific Rural Press 136(12):263. Sept. 17, 1938. 6 P112

The writer points out briefly the uses for peanuts and says that from the "standpoint here in Merced county the chief value of the peanut is as a soil-builder to be used in crop rotations with potatoes."

114. Wright, Philip G. The tariff on animal and vegetable oils. 347pp. New York, The Macmillan co., 1928. (Institute of Economics. Investigations on International Commercial Policies) 285 W93T

"With the Aid of the Council and Staff of the Institute of Economics."

Ch. II, Section IX, Peanut Oil, pp.46-50. Discusses peanuts as a raw material, the composition, properties and uses of the oil, methods of production, and imports.

Ch. VII, Section VII, Peanut Oil: Peanuts, pp.209-217, describes the effects of recent tariff changes on peanut prices, production and trade, and contains tables giving the domestic and foreign prices of peanuts by months, 1920-1927, and domestic and foreign prices of crude peanut oil, 1920-1927, by months.

Ch.VIII, What shall we do with the Oil Duties? pp.220-254, takes up peanut oil, p.237.

The appendices contain tables showing domestic production of principal oils and fats, 1914 and 1919-1926, including peanut oil, crude and virgin, p.260; imports of the principal animal and vegetable oils and fats, 1914, 1919-1926, including peanut oil, p.262; exports of the principal animal and vegetable oils and fats, 1914, 1919-1926, including peanut oil, p.264; domestic consumption of oils, including peanut, 1914, 1919-1926, p.266; data indicating extent to which the United States is self-sufficient in the fatty oils, including peanut oil, p.268; domestic production and foreign trade of the United States in raw materials of the vegetable oils, 1914 and 1919-1926, including peanuts; revenue derived from imports of principal animal and vegetable oils and fats, 1914 and 1919-1926, including peanut oil, p.274. Price data are given for oils including peanut oil, pp.278-285.

Agricultural Adjustment Program

115. Peanut crop shift to oil from regular trade planned. Oil, Paint & Drug Repr. 123 (12):24, 50. Sept. 16, 1935. 306.8 O15

"The AAA Proposal...[made Sept. 11, 1935 at a hearing on the proposed new peanut adjustment program] is in two parts. One of these would provide for removing from the regular channels of trade and diverting into oil a portion of the 1935 peanut crop. The other would establish an acreage control program for the next four years."

116. Peanut millers' license fixes minimum prices. Oil, Paint & Drug Repr. 125(5):42. Jan. 29, 1934. 306.8 O15

"A schedule of minimum prices to be paid peanut growers is set up by the marketing agreement for peanut millers approved by the Secretary of Agriculture January 23. The terms of the agreement will be enforced by a license signed by the Secretary. Both the marketing agreement and license became effective January 27."

"A control board, consisting of ten members, is established to supervise adherence of millers to the terms of the license and the agreement, and to investigate and make recommendations upon methods for control of marketing and production...

"According to the license, minimum prices may be changed from time to time, with prior approval of the secretary, by the vote of not less than seven members of the control board.

"Also included in this license is a schedule of minimum charges for storage..."

See also under U.S. Dept. of agriculture, Agricultural adjustment administration. Marketing agreement and license for peanut millers.

117. The problem of peanuts. U.S. Dept. Agr., Agr. Adjust. Admin. Consumers' Counsel, Consumers Guide 2(5):3-6, 12. Dec. 17, 1934. 1.94 Ad4220

An outline of the methods tried to obtain better prices for farmers for their peanuts, including the marketing agreement in 1934 under the AAA, contract shelling, production control under the Agricultural Adjustment Act, and the Government's payments for peanut crop diversion.

118. U.S. Department of agriculture. Agricultural adjustment administration. Agricultural adjustment, 1937-38... 385pp. Washington, U.S. Govt. print. off., 1939. (G-36) 1.4 Ad4Ge

Considers the factors involved in the peanut diversion program, pp.182-183.

An earlier report, entitled Agricultural Conservation, 1936 (G71) contains references to peanuts, pp. 10, 12, 29, 30-31, 39, 41, 43-44, 47, 52, 78, 130, 134, 138, 139, 179, 193 and 194.

Agricultural Adjustment 1933-35; a report of administration of the Agricultural Adjustment Act, May 12, 1933, to December 31, 1935 (G-55) has a chapter on peanuts, pp.243-248.

Brief information on peanuts is also to be found in the Report for May 1933 to February 1934 (G-8) (Consult index); and chapter 11, pp.191-195, of the Report for February 15, 1934 to December 31, 1934 (G-32) is devoted to peanuts.

119. U.S. Department of agriculture, Agricultural adjustment administration. Marketing agreement and license for peanut millers. Marketing agreement approved and executed by the Secretary of agriculture, January 23, 1934. Effective, 12:01 a.m. eastern standard time, January 27, 1934. License issued by the Secretary of agriculture, January 23, 1934. Effective, 12:01 a.m. eastern standard time, January 27, 1934. U.S. Dept. Agr., Agr. Adjust. Admin. Marketing agreement series - Agreement no.35. License series - License no. 29, 19pp. (Form M47) 1.4 Ad47M

Provides for a schedule of minimum prices to be paid to peanut growers and a control board of ten members to supervise the carrying out of the license and marketing agreement and to make recommendations for the control of marketing and production.

120. [U.S. Department of agriculture. Agricultural adjustment administration.] Marketing agreement for peanut millers. 15pp., processed. [Washington, D.C., 1933] 1.94 Sp5M Peanut Millers.
Article III fixes minimum prices to growers; Article IV, defines the grades; Article V, provides for reports and investigations; Article VI, establishes a control Board; Article VII lists the terms of sale.
121. U.S. Department of agriculture. Agricultural adjustment administration. Order of procedure for hearing at Washington, D.C., on September 11, 1935, relating to the proposed peanut diversion and adjustment programs... 3pp., processed. [Washington, D.C., Sept. 7, 1935] 1.94 T5520
122. U.S. Department of agriculture. Agricultural adjustment administration. Order of procedure for hearings on August 31, 1934, upon the processing tax on peanuts generally and on peanuts used for the manufacture of peanut oils, low value peanut products... 5pp., processed. [Washington, D.C., 1934] 1.94 Sp30
"These are hearings with relation to the processing tax on peanuts generally and on peanuts used for the manufacture of peanut oils, low value peanut products, under Title I, Sections 9(b) and 15(a) of the Agricultural Adjustment Act, as amended."
Sections 9(b) and 15(a) are reproduced.
123. U.S. Department of agriculture. Agricultural adjustment administration. Peanut regulations, series 1, no.1., Sept. 25, 1934. 3pp. [Washington, U.S. Govt. print. off., 1934] 1.4 Sp3P
No more published.
Title of series 1, no. 1 is: Marketing year, rate of processing tax, definitions, and conversion factors with respect to peanuts. Peanut regulations made by the Secretary of Agriculture, with the approval of the President, under the Agricultural Adjustment Act.
124. U.S. Department of agriculture. Agricultural adjustment administration. Proposed amendment to marketing agreement for peanut millers. 24pp., processed. [Washington, D.C., 1934?] 1.94 Sp3M Peanut Millers.
Provisions are made for definitions, minimum prices to growers, grades, sales, surplus control, reports, a control board, expenses, licensing, duration of immunities, agents, amendments, etc.
125. U.S. Department of agriculture. Agricultural adjustment administration. Proposed marketing agreement for raw peanut milling industry. 20pp., processed. [Washington, D.C., 1933?] 1.94 Sp3M Raw peanuts.
This proposed agreement makes provision for definitions, minimum prices to producers, grades, reports and investigations, a control board, sales, expenses, licensing, duration of immunities, agents, and amendments.

126. U.S. Department of agriculture. Agricultural adjustment administration, Division of marketing and marketing agreements. Directions authorizing diversion, pursuant to the offer by the Secretary of Agriculture in connection with the diversion of peanuts (fiscal year 1938), or Spanish type peanuts grown in the states of North Carolina and Virginia. lp., processed. Washington, D.C., November 22, 1937. 1.94 Ad47Di
127. U.S. Department of agriculture. Agricultural adjustment administration, Division of marketing and marketing agreements. Schedule no. 1 of prices for farmers' stock peanuts. For use in connection with the peanut diversion program (1938). lp., processed. Washington, D.C., September 29, 1937. 1.94 Ad47Ps

Cost of Production and Labor Requirements

128. [Alabama. Department of agriculture and industry] Cost of growing peanuts in 1920. Ala. Markets Jour. and Crop Rept. 5(7):3-4. April 1921. 280.39 AllA
"The net cost of growing peanuts in Alabama in 1920 averaged \$1.17 per bushel, according to a summary just compiled of the reports of forty-six growers, who grew 761 acres, made to the State markets division."
129. Forster, G.W., and Saville, R.J. Profitable farm combinations adapted to the lower coastal plain of North Carolina. N. C. Agr. Expt. Sta. Bull. 252, 46pp. Raleigh, 1927.
"This bulletin has been prepared for the purpose of illustrating how the organization of the farm business may affect the net returns. To show this in a concrete manner, definite combinations of crop and livestock enterprises were developed and presented in detail." Peanuts were included among the crops grown.
130. Greene, R.E.L. Cost of producing farm products in North Carolina. N.C. Agr. Expt. Sta. Bull. 305, 127pp. State College Station, Raleigh, 1936.
Part 4. Cost of producing farm products in selected areas of North Carolina, pp.55-119.
"This study was begun in 1924 when detailed enterprise cost account records were kept on a number of farms located in Cumberland and Johnston Counties. Similar records were kept in Craven County in 1925, Macon County in 1926, and Northampton County in 1927. The original purpose of this study was to gather information on the organization and management of farms in each area. The records collected, however, were enterprise records, which contained the necessary information for calculating the cost of crop and livestock products produced." - p.55.
Cost of producing peanuts, pp.72-76. Includes tables showing 1) Labor and material requirements per acre for the production of peanuts, 2) Cost per acre of producing peanuts, 3) Average labor

and material requirements per acre for peanuts, 4) Average cost per acre of production, and 5) Labor requirements by operations per acre of peanuts.

131. Hungerford, DeF., and Westbrook, E.C. Systems of farming for South Georgia. Ga. State Coll. Agr. Ext. Div. Bull. v.11, no.13 (whole no.273), 32pp. Athens, 1923. 276 G29B
Peanuts are included in the systems. The appendix contains tables giving man and mule labor required by months for peanuts, and man and mule labor for harvesting peanuts.
132. Jensen, W.C. The cost of production of farm products. Clemson Agr. Col., S.C. Ext. Div., Bull. 49, 29pp. Clemson College, 1921. Off. Expt. Sta. Libr.
Peanuts, pp.10-12. The cost elements to be considered and discussed in this section are labor cost, land rent, seed, fertilizer, and miscellaneous. Acre costs for an 800-pound yield and the method of obtaining cost per acre when yields other than 800 pounds are obtained are taken up. Table 4 shows costs and profits with peanuts.
133. McNair, A.D. Labor requirements of Arkansas crops. U.S. Dept. Agr. Bull. 1181, 64pp. Washington, D.C., 1924. 1 Ag84B
"This bulletin presents, both in chart and in tabular form, the quantity of man and horse labor expended on each of the important crops raised in Arkansas, distributed by months and by operations. All charts and tables are made on the basis of 10 acres except those for a few fruit and vegetable crops and for rice..."-pp.1-2.
Spanish peanuts, p.18.
134. Nicholls, W.D., Jett, C.U., and Galloway, Z.L. A study of farm organization and management in Mason and Fleming counties. Ky. Agr. Expt. Sta. Bull. 253, pp.39-84. Lexington, 1924.
Table 5, pp.47-48, gives "Approximate work units [man labor and horse work units] needed for various farm enterprises, including peanut production."
135. Nuckolls, W.J., and Talbot, R.C. Cost of producing peanuts in southeast Virginia, crop year 1931. Va. Polytech. Inst. Dept. Agr. Econ. and Rural Sociology, Virginia Farm Economics, no.14, pp. 199-200. October 1932.
136. Reynoldson, L.A. Field and crop labor on Georgia farms (coastal plain area). U.S. Dept. Agr. Bull. 1292, 28pp. Washington, 1925. 1 Ag84B
"This bulletin is based upon data obtained from nearly 600 farmers in the coastal plain area of Georgia who were interviewed personally. From each of these farmers a complete record was obtained covering the acreages and yields of the crops which he grew, the average time used by men and mules in different-sized crews, with different implements, width of rows, and number of furrows

for various field and crop operations, the hours per day and per month available for field work, and the dates of performing different operations on cotton, corn, peanuts, sweet potatoes, sugar cane, cowpeas, watermelons, oats, wheat, and rye...

"Information was collected in three different sections of the area. (Fig. 1) The differences between the three sections are so slight that the data were combined and are presented as being representative of the entire area.

"Although studies were made only in the one State, the data should be applicable to those parts of Mississippi, Alabama, Florida, North Carolina, and South Carolina which lie within the coastal plain where soil, climate, types of farming, and farm practices are similar." - pp.1-2.

137. U.S. Tariff commission. Peanuts not shelled and shelled; report to the President of the United States. Differences in costs of production of peanuts, not shelled and shelled, in the United States and in the principal competing country, as ascertained pursuant to the provisions of section 315 of title III of the Tariff Act of 1922. With appendix proclamation by the President. 88pp. Washington, Govt. print. off., 1929. 173 T17Pe

"Pages 1 to 31 present information with respect to domestic and foreign peanuts. Part I (pp.32-41) presents data with respect to costs of production. Part II (pp.42-51) shows costs of cleaned and graded peanuts, not shelled. Part III (pp.52-86) presents costs of production of shelled peanuts. Accompanying the report is a statistical appendix." - Letter of transmittal, p.viii.

Appendix A. Costs of producing Spanish peanuts in the United States, pp.71-76. Analyzes farm costs, and mill costs of Spanish peanuts, and summarizes costs F.O.B. mill, per pound, of farm stock, and costs of milled peanuts, by grades, F.O.B. mill.

Appendix B. Data on farm costs of production in China, pp. 77-81.

Appendix C. Mill selling expenses and other data, pp.82-86.

A proclamation by the President of the United States of America. Increasing rates of duty on peanuts, pp.87-88.

Grading and Standardization

138. Barry, Bob. Peanuts; correct method of sampling and grading white Spanish farmer's stock, 1929-1930; comp. by Bob Barry. 4pp., processed. [Columbus, Ga., Tom Huston peanut co., Shelling dept. 1930] 280.377 H96

These are the Southeastern Peanut Association rules.

139. U.S. Department of agriculture, Bureau of agricultural economics. National standards for farm products. U.S. Dept. Agr. Circ. 8, 55pp., rev. Washington, D.C., issued August 1927, Revised September 1935. 1 Ag84C
Peanuts, pp.25-26.
140. U.S. Department of agriculture, Bureau of agricultural economics. United States grades for shelled runner peanuts (1925). Effective Sept. 1, 1925. 2pp., processed. [Washington, D.C.] July 26, 1925. 1.9 Ec74Pa
141. U.S. Department of agriculture, Bureau of agricultural economics. United States grades for shelled white Spanish peanuts (1925). Effective Sept. 1, 1925. 3pp., processed. [Washington, D.C.] July 26, 1925. 1.9 Ec74P
Earlier grades published as U.S. Dept. Agr. Dept. Circ. 304, 2pp. Washington, D.C., July 1924. 1 Ag84D
Tentative grades issued by Bureau of Markets and Crop Estimates. [Washington, D.C., n.d.] 1.9 Ec74P
142. U.S. Department of agriculture, Bureau of agricultural economics. U.S. standards for cleaned (unshelled) Virginia type peanuts (effective November 1, 1935) 4pp., processed. Washington, D.C., Oct. 10, 1935. 1.9 Ec71Peu
Earlier standards were published [Apr. 8, 1932] and [Oct. 3, 1934]
143. U.S. Department of agriculture, Bureau of agricultural economics. U.S. standards for farmers stock runner peanuts (1931). 4pp., processed. [Washington, D.C.] Sept. 1, 1931. 1.9 Ec74Per
Former grades published as: U.S. standards for runner, bunch, or mixed type farmers' stock peanuts (1926): 2pp., processed. Washington, D.C., Dept. 15, 1926.
Also published [Nov. 28, 1928]
144. U.S. Department of agriculture, Bureau of agricultural economics. U.S. standards for farmers' stock Virginia type peanuts (effective November 1, 1934) 4pp., processed. [Washington, D.C.] Oct. 3, 1934. 1.9 Ec71Pev
Earlier standards issued: [Aug. 13, 1932] and [Oct. 21, 1929]
145. U.S. Department of agriculture, Bureau of agricultural economics. U.S. standards for farmers' stock white Spanish peanuts (1928). 3pp., processed. [Washington, D.C.] Oct. 11, 1928. 1.9 Ec74Pe
Supersedes leaflet with same title issued June 8, 1928.
Previous tentative grades issued by Warehouse Division of the Bureau of Agricultural Economics, [1923], and revised Sept. 30, 1925.

146. U.S. Department of agriculture, Bureau of agricultural economics. U.S. standards for jumbo type farmers' stock peanuts (1928). 2pp., processed. [Washington, D.C.] Nov. 28, 1928. 1.9 Ec74Pej 1928
1926 standards issued Sept. 15, 1926.
147. U.S. Department of agriculture, Bureau of agricultural economics. U.S. standards for shelled Virginia type peanuts (effective Nov. 1, 1935); 5pp., processed. Washington, D.C., October 10, 1935. 1.9 Ec71Pes
Earlier editions were issued [Apr. 8, 1932] and October 3, 1934 (effective November 1, 1934).
148. U.S. Department of agriculture, Bureau of agricultural economics, Fruit and vegetable inspection service. Inspection of peanuts. 16pp., processed. [Washington, D.C., June 15, 1932] 1.9 M341H
Specifies the types of peanuts, procedure in making inspection, separating and classifying defects, and procedure in appeal inspections. Samples are given.
149. U.S. Department of labor. Consumers' project. Analysis of condition, quality, and size requirements of United States and state standards for fresh fruits and vegetables and legal standards for dairy products. 19pp. Washington, U.S. Govt. print. off., 1937. 158.241 An1
"In the following 25 charts an attempt is made to provide students, graders, buyers for institutions and cooperatives, consumers, and other interested persons, with a graphic presentation of the chief requirements of Federal and State standards for fresh fruits, vegetables, nuts, and legal standards for dairy products.
Chart 5 analyzes peanuts.
150. Virginia. Department of agriculture and immigration, Division of markets. Inspection of Virginia type farmers' peanuts. Va. Agr. and Immigr. Dept. Bull. 286, pp.7-8. October 1931.
Methods of inspection by the U.S. Bureau of Agricultural Economics (Federal-State Inspection Service) are outlined, as well as the benefits of inspection to farmer and cleaner.
151. Youngblood, B. Commercial feeding stuffs. Tex. Agr. Expt. Sta. Bull. 281, pp.5-204. College Station, 1921.
Gives standards and definitions adopted for peanut products, including choice peanut meal, prime peanut meal, ordinary peanut meal, peanut cake, choice whole pressed peanuts, prime whole pressed peanuts, and ground whole pressed peanuts, p.13.

Legislation

152. Herb, Mamie I., and Wheeler, Marion E. Legislation relating to peanuts. 2pp., typewritten. [Washington, D.C.] U.S. Dept. of Agriculture, Bur. of Agricultural Economics, Library [Jan. 27, 1938] Vert. File. Bibliographies.
153. Lewis, Elmer A., comp. Laws relating to agriculture. 479pp. Washington, U.S. Govt. print. off., 1937. 30.5 Un3A
[Public - No. 775 - 74th Congress] [S.81] An act to provide for the collection and publication of statistics of peanuts by the Department of Agriculture, pp.246-247.
This act, with amendments, approved May 12, 1938 is published in processed form by the U.S. Department of Agriculture, Bureau of Agricultural Economics, as [The Peanut Statistics Act...] 1p. Washington, D.C. [1938] 1.9 Ec741Pea
154. U.S. Congress. House. Committee on agriculture. Reforestation act amendment, peanut statistics, farm and unemployment relief, agricultural credit corporations, experimental farm in Mobile county, Alabama, national arboretum appropriations; hearing...seventy-first Congress, third session, January 26, 27, 28 and February 2, 1931. Serial U. 102pp. Washington, Govt. print. off., 1931. 99.47 Un32
The session of Tuesday, January 27, 1931, devoted to the hearing on the bills providing for the collection and publication of statistics of peanuts by the Department of Agriculture, is printed on pp.25-39. Includes statements by William W. Larsen, M. Lankford, C.W. Kitchin, and J. Rives Worsham.
155. Virginia. Laws, statutes, etc. An act to provide for the licensing of persons engaged in peanut picking by or with any machine; to require all such persons to keep records and make reports to commissioners of the revenue as to acreage and quantity of peanuts picked; to require commissioners of the revenue to make reports thereof to the Commissioner of Agriculture and Immigration; and to prescribe penalties for violations. Approved March 30, 1936. [H B 347] Virginia. Laws, statutes, etc. Acts of the General Assembly...1936, pp.750-751. Richmond, 1936. 274.89 G28A 1936

Markets and Marketing

156. Barry, Bob, and Porter, Grady. Peanuts; culture and marketing of the white Spanish variety in the southeastern states. Third edition. Columbus, Ga. Tom Huston Peanut co., 1932. 32pp. 77 H96 Ed. 3
Lists the twelve points of correct peanut grading, pp.27-29.

157. Browne, T.E. Peanut market situation. Prog. Farmer (Miss. Valley ed.) 35(3):163. Jan. 17, 1920. 6 So81

The writer outlines the current market situation, and points out that there is urgent need for the building of bonded warehouses in each county to take care of "distress" peanuts and cotton, in order to avoid drops in prices.

158. Clay, Harold J., and Williams, Paul M. Marketing peanuts. Modern School Store 17(4):11,12,25; (5):10-11; (6):10-11, 13. April - June, 1934. 94.68 N21

This series was not completed.

This series of articles on the history of peanut marketing contains an historical sketch of the peanut, preparation for market, leading and less important varieties of peanuts, peanut imports, harvesting and curing, digging of peanuts, picking or threshing, marketing of nuts in the shell, outlets and uses for the shelled nuts, uses for the oil, peanuts as a feed for hogs, special methods of distribution, geographical distribution of peanuts, the character of receipts in the principal markets, the Market News Reports of the U.S. Bureau of Agricultural Economics and the sources upon which their price quotations are based, reports of movement of the product, news of imports and exports, and crop production statistics; the method of roasting peanuts in the shell, roasting by special firms and their charges, the demand for these roasted peanuts, the various peanut products, the method used for salting peanuts and their sale through vending machines.

159. Clay, Harold J., and Williams, Paul M. Marketing peanuts. U.S. Dept. Agr. Dept. Bull. 1401, 99pp. Washington, D.C., May 1926. 1 Ag84B

Publications of the United States Department of agriculture relating to peanuts and peanut products, p.98.

Includes an historical sketch, leading varieties and commercial types of peanuts, harvesting and curing, picking or threshing, how production is financed, marketing methods, secondary distribution, Federal Market News Reports, peanut products, and imports and exports.

160. Clay, Harold J. Peanuts: how they reach the consumer. U.S. Dept. Agr. Yearbook 1926:569-571. Washington, 1927. 1 Ag84Y

Traces what happens to the peanut from the time the plants are pulled from the ground to their shelling and preparation for sale.

161. Clay, Harold J. Peanuts go to market. U.S. Dept. Agr. Bur. Agr. Econ., Agr. Situation 22(10):19-20. October 1938. 1 Ec7Ag

A brief discussion of the 1938 peanut crop, and the uses to which peanuts are being put.

162. Crisis in peanuts. Flurry on London exchange calls attention to peanut shortage, forces prices up here and abroad. Business Week, no.284, p.16. Feb. 9, 1935. 280.8 Sy8

In addition to telling of the difficulties of Strauss & Co., London, in covering its future sales of peanuts when weather conditions created a shortage in the peanut crop, the article describes briefly the attempts to assist the American peanut industry, including the "Hoover" Tariff, the plan in 1934, whereby the millers who cleaned and shelled the crop would pay the farmers a minimum price, and the giving to farmers of a bonus for acreage cuts and for diverting part of their crop into oil.

163. The farmers' experience meeting. There is a right way to market corn and peanuts. Prog. Farmer and Farm Woman [Miss. Valley ed.] 36 (7):194. Feb. 12, 1921. 6 So81

A page of letters from readers.

164. Gibson, A.E. Marketing peanuts cooperatively [in Georgia] Amer. Inst. Coop., Amer. Coop. (1933) 9:389-397. [1934] 280.29 Am3a, 9th, 1933

Discussion, pp.396-397.

165. Gist, F.W. Solution for marketing the present peanut crop. Prog. Farmer and Farm Woman [Miss. Valley ed.] 35(35):1447. Aug. 28, 1920. 6 So81

"Some complaints have already begun to be heard concerning the prospective price of peanuts... A proposition is on foot to attempt to place a tariff on peanut and oil importations for the protection of the American grower against foreign competition with coolie labor...

"The peanut growers of Alabama have in their own hands a measure of protection which is practicable, profitable, easy of application, and for which they do not need to ask the aid of Congress, the permission of anybody, or the cooperation of merchant or banker to apply. It has been determined that two pounds of peanuts consumed by hogs produce one pound of meat. A pound of live hog meat at present is worth 15 cents, and will certainly not fall lower than peanuts themselves. Therefore a pound of peanuts fed to a hog is worth seven and one-half cents; at the same time the hog feeds himself and saves...at least one cent per pound in the harvesting of the nuts. A ton of peanuts harvested by hogs is, therefore, worth \$175, or eight and one-half cents per pound, as against the market price for peanuts, whatever that price may be."

166. Imported peanuts large factor in domestic market. Orient dominant as chief source of supply, and orientals replace Virginias in the West. In a single year imports amount to one-fourth of domestic production--Great quantities of peanut oil also imported--Emergency tariff increases duties. U.S. Dept. Agr. Weekly News Letter 9(9):1-2. Sept. 28, 1921. 1 Ag84W

168. New York Produce exchange. Shelled peanuts - a new futures market on the New York Produce exchange. [6]pp., processed. New York [1938] 280.377 F48
Includes announcement of new trading contracts in shelled peanuts, New York Produce Exchange; Features of new contracts; Delivery on contract and carrying charges; Increasing production; Production; Prices; Consumption; Features of contract; Commissions; and Why futures markets have grown in commercial importance.
169. No questionable practices in peanut industry says the F.T.C. Chemicals 37(24):14. July 11, 1932. 306.8 C42
"Finding no evidence of section-wide or state-wide organizations which attempt to fix the price of farmers' stock peanuts, the Federal Trade Commission today sent to the Senate a report on its investigation of the peanut industry as carried on under Senate Resolution.
"The Commission reported, however, that 'activities of certain groups of mills have undoubtedly been factors which contributed to the depression of the prices'....
"No questionable practices were developed in an investigation of all the shelling plants in the Southwest section, comprising Texas, Oklahoma, Louisiana and Arkansas..."
170. The peanut. Amer. Nut Jour. 13(5):66. November 1920. 80 Am335
A review of the peanut market for the Georgia, Florida and Alabama sections, and its prospects. It is pointed out that "the only uncertain condition from the growers' standpoint is the price. Growers assert that they can not cover cost of production if obliged to sell at less than \$100 per ton for farmers' grade Spanish... Farmers say that it costs at least \$20 per ton to harvest peanuts, and with runners bringing \$40 to \$65 per ton at shipping points they argue that they can better afford to 'hog off' their peanuts, the runners particularly, than to incur the expense of harvesting."
171. Southeastern peanut association. Rules (effective Oct. 1st, 1921)... 29pp. Atlanta, Ga., Southeastern Peanut Association. [1921?] 77.9 S08
Contract forms are given for shelled and farmers' stock peanuts, pp.28-29.
172. U.S. Department of agriculture, Bureau of agricultural economics, Division of cooperative marketing. Farmers' business associations; lists prepared from reports received by the Division of

cooperative marketing... July 1, 1929. Key to selling activities, pt.8, Nuts, 3pp., processed. Washington, D.C., July 1, 1929.
1.9 Ec722

Includes names of organizations selling peanuts.

173. U.S. Department of agriculture, Bureau of agricultural economics, Foreign section. Imported peanuts in the domestic market. Orient dominant as chief source of supply. Orientals replace Virginias in the West. [Report F.S. no.3] 4pp., processed. [Washington, D.C., 1921] 1.9 Ec752 [no.3]
The tariff on peanuts and its effect are mentioned, and a table is given to show the trend in imports and exports of peanuts during the fiscal years 1911-12 to 1920-21.
174. U.S. Department of agriculture, Bureau of markets. Marketing of peanuts in the Virginia-North Carolina section, season of 1919-1920. 13pp., processed. Washington, D.C., May 1, 1920. 1.9 M341M
Signed: Paul M. Williams, Assistant in Marketing.
Includes listing of grades of peanuts, graphs showing prices paid to growers for farmers' grade Virginias per 100-lb. bag, 1912/13-1919/1920, discussion of peanut by-products, and the retailing of peanuts.
175. U.S. District court. Virginia (Eastern district) In equity, no.109. In the District court of the United States for the Eastern district of Virginia. United States of America, Petitioner v. The National peanut cleaners and shellers association et al. Final decree (entered June 15, 1925) 12pp. Washington, Govt. print. off., 1925. 284.377 Un3
The decree, as handed down by D. Lawrence Groner, District Judge, specified in part "That the defendants... are hereby... prohibited from... entering into... any practice... restraining interstate trade and commerce in peanuts," but that the defendant may "Openly and fairly gather and disseminate information as to costs, volume of past production, prices in past transactions, stocks on hand; and freight rates; and to meet and discuss such information and statistics so long as no attempt is made to reach any agreement or any concerted action with respect to prices or production or restraining competition," and may "Adopt, establish and maintain specifications defining the minimum sizes and minimum degree of quality that shall constitute the various grades of peanuts, provided such specifications do not result in the lessening of competition among defendants."
176. U.S. District court. Virginia (Eastern district) In the District court of the United States for the Eastern district of Virginia. In equity No.109. United States of America, Plaintiff, v. National peanut cleaners and shellers association, et al., defendants. Reply brief in behalf of defendants, upon petition to dissolve

the consent decree. Christopher B. Garnett, Theodore J. Wool, Philip F. Herrick, Counsel for defendants. 25pp. Washington, D.C., Press of Byron S. Adams, [n.d.] 284.377 G18

The points made in the conclusion of this brief are that, due to changes in the industry, the defendants are unable to control farmers' or manufacturers' prices of peanuts, that farmers' prices are controlled by the Department of Agriculture and the federally financed farmers' cooperatives, that the decree is oppressive, and that the chief defendant, the National Peanut Cleaners and Shellers Association, has been dissolved for more than five years and has been succeeded by the Virginia-Carolina Peanut Association, watched over by the U.S. Department of Agriculture and the Federal Trade Commission.

The Library of the Bureau of Agricultural Economics has also the following typewritten material in its pamphlet collection (Peanuts):

U.S. District court. Virginia (Eastern district). Petition for the dissolution of the consent decree entered June 15th, 1925 as amended. 20pp., typewritten. [n.p., 1939?] This includes the history of the case, outlines the original consent decree and its two modifications and gives the reasons for the present petition to dissolve the decree of June 15, 1925.

U.S. District court. Virginia (Eastern district). Decree dissolving decree and dismissing original petition for injunction. 2pp., typewritten. [n.p., Feb. 6, 1939]

These have at head of title: In the District court of the United States for the eastern district of Virginia, Norfolk division. United States of America, plaintiff, v. National peanut cleaners and shellers association, et al. defendants. In equity no. 109.

177. U.S. Federal trade commission. Prices and competition among peanut mills. Letter from the chairman of the Federal trade commission transmitting, in response to Senate resolution no. 139 (Seventy-first Congress), a report on the peanut industry... 72d Cong., 1st sess. Senate. Doc. 132, 78pp. Washington, U.S. Govt. print. off., 1932. 173 F32Pea

"List of peanut cleaning and shelling companies by sections and states": pp.73-76.

"Alphabetical list of peanut cleaning and shelling companies, with subsidiaries or plants controlled": pp.76-78.

Also in Senate Misc. Docs. II., Senate Docs. 58-138. 148 9521

"The steady, industry-wide decline in price of farmers' stock peanuts since 1928 has followed the same general course of practically all other farm products and all other commodities during the period of extraordinary depression through which this country is passing. Such widespread decline is not found to be due to a combination of peanut crushers and mills acting for the purpose of fixing such prices or of arbitrarily forcing them down. No

evidence has been developed showing the existence of a section-wide or even a state-wide organization which has attempted to fix the price of farmers' stock peanuts, although the activities of certain groups of mills have undoubtedly been factors which contributed to the depression of the prices.

"Those peanut mills which this inquiry shows to have participated in such practices as discussions and exchanges of present and prospective prices, price agreements, and division of territory have in so doing laid a restraint upon competition, the natural effect of which is to impede advancing and accelerate declining prices.

"Such practices were found to originate in groups of companies, operating within different, circumscribed territories, the activities of these groups not being related, neither extending across State lines nor laying a burden upon commerce between States..." - Letter of Submittal. Conclusions, pp.xi-xii.

178. U.S. National recovery administration. Code of fair competition for the raw peanut milling industry, as approved on January 12, 1934, by President Roosevelt. pp.99-115. Washington, U.S. Govt. print. off., 1934. 173.2 N21C

At head of title: Approved Code No. 203... National Recovery Administration. Registry No. 136-01.

Includes the Executive Order, the letters of transmittal, and the code itself. Rulings are made on hours, wages, general labor provisions, unfair methods of competition, grades, supervisory bodies, and expenses.

179. U.S. Shipping board. Docket No. 24. American peanut corporation v. Merchants & miners transportation company, Old Dominion transportation company, and Philadelphia & Norfolk steamship company. 85pp. Washington, Govt. print. off., 1925. AE Pam. Coll.

"Rates on peanuts from Norfolk to Baltimore, Philadelphia, New York, and Boston not shown to be unduly prejudicial, but certain of said rates unjust and unreasonable. Reasonable maximum rates for the future prescribed."

Mechanization

180. Cauthen, E.F. Peanut planters - types and how to use them. Prog. Farmer and Farm Woman [Miss Valley ed.] 35(10):509. March 6, 1920. 6 S081
Mechanical planters.

181. Clegg, W.A. Production of peanuts with power machinery. Agr. Engin. 10(6):199-200. June 1929. 53.8 Ag83
Paper presented at a joint meeting of the Southern and Southwest Sections of the American Society of Agricultural Engineers at

Houston, Texas, February, 1929.

"A recent demonstration in the lowering of the unit cost of production of peanuts through the use of tractor-drawn equipment exclusively was successfully conducted cooperatively at Albany, Georgia, by the Yancy Tractor Company as operators and J.P. Champion as landowner, with the division of agricultural engineering of the Georgia State College of Agriculture, the county agent and assistant county agent supervising the project...

"This peanut demonstration was conducted for the following five reasons: 1. To utilize a large farm that has been idle since 1918. 2. To find out if it was practical to handle every operation in the growing of peanuts with a track-type tractor. 3. To get a comparison between the cost of growing peanuts using tractor power and the cost when horse power is used. 4. To find a cheaper method of growing and harvesting peanuts. 5. To find out the approximate area that can be handled with a tractor."

182. Davis, J. Irwin. Tractor production of peanuts. Country Gent. 94(4): 39. April 1929 6 C833
Describes the methods, labor, costs, savings in labor, and the per acre profit in producing peanuts by tractor.

Periodicals

183. Georgia peanut grower [monthly] v.1 - v.3, no. 11. March 29, 1923 - June 1926. 280.28 G29
Wanting: v.1, no.3, June (?) 1923.
Ceased publication with v.3, no.11.
Published by the Georgia Peanut Growers' Cooperative Association.
184. The Kernel, v.2, no.2-3, December 1938-January 1939-date [monthly] Decatur, Ill., 1939-date. Per. Room.
This periodical has for subtitle: The Business Magazine of the Pop Corn Industry, Incorporating National Nut News. The issue for March-April 1939 which was examined, contained article II of a series by J.D. Pirtle on "Oil Roasting or Cooking of Peanuts", and a page "Peanut Stocks and Processing Report for February, with Comparisons". There is also a note, p.11, on a "New Peanut Products Firm" which notes the organization of the Peanut Products Company in Tuskegee, Alabama, whose purpose is to put on the market new products made from Alabama peanuts. The Buyer's Guide at the end of the issue, lists firms selling peanut roasters.
185. Modern school store [monthly], v.10, no.4 - v.17, no.6, April 1927 - June 1934. Chicago, 1927-34. 94.63 N21
Volume 10, no.4 - v.17, no.3, April 1927 - March 1934 have the title: National Nut News.

Formed by consolidation of the American Nut Grower, the Pecan News, and the Peanut Promoter. It assumed the volume numbering of the Peanut Promoter. It ceased publication. (Letter, March 28, 1935).

Includes brief notices as well as a few articles on peanuts. The issue for May 1934 contains, p.10, a column "Milwaukee Nut Market" having information on peanuts, and a report, p.3, by Harold J. Clay on the peanut situation entitled: "Little Demand for Peanuts Everywhere Results in Very Dull Market".

186. National nut news, v.10, no.4, April 1927 - v.17, no.3, March 1934.

[monthly] Chicago, Ill., 1927-34. 94.68 N21

Contains a monthly peanut section through October 1932. A monthly column, appearing from April 1933 on, entitled the "Nut Market" gives prices for various grades of peanuts; and each issue from June 1933 on, contains a monthly review of the peanut situation, by Harold J. Clay. The title of this review varies.

Consolidated with "Modern Confectioner & Ice Cream Trade" beginning with v.17, no.4, April 1934. Now has title "Modern School Store."

187. Peanut grower [monthly] Nov. 11, 1919 - Nov. 1, 1925. Folio 280.28 P31

Ceased publication with Nov. 1, 1925.

Semi-weekly, v.1, no.1-26; Nov. 11, 1919 - Mar. 16, 1920; Weekly, v.1, no.27 - v.2, no.4, Mar. 23 - Dec. 15, 1920, Oct. 2-21, 1922.

Nov. 11, 1919 - Dec. 15, 1920 are [v.1] no.1 - v.2, no.4; June 1923 - November 1925 are [n.s.] v.1, no.2 - v.2, no.6.

188. Peanut journal and nut world [monthly] v.1, no.1 - date. Nov. 15, 1921 - date. Suffolk, Va., 1921 - date. 77.8 P313

v.1-10, no.3, Nov. 15, 1921 - Jan. 7, 1931 have title: The Peanut Journal.

The issue for April 1939 (v.18, no.6) contains the following:

Government regulation or discrimination?, p.7; Congress and the peanut industry, by W. B. Jester, pp.9, 19, 26; Everbody would profit, by B.M. Birdsong, p.11 [urging the use of grade 1 peanuts only, for edible purposes]; Peanut king in America fifty years, by Daisy Murney, p.13 [the story of Amadeo Obici of the Planters Nut and Chocolate company]; Virginia-Carolina Peanut Association takes action to have peanut butter placed on list of surplus food commodities, pp.13-14; Peanuts recognized as major agricultural commodity, p.27.

There are also short notes of interest to the trade, as well as Peanut Market Reports, a monthly series of reports from the leading markets, and a monthly report on the market situation by Harold J. Clay.

189. Peanut promoter [monthly] v.1 - v.10, no.3. December 1917 - March 1927.

Norfolk, Va., [etc.] 1917-1927. 77.8 P 31
Consolidated with Pecan News and American Nut Grower to form
National Nut News. 77.8 N21

190. Peanut world [monthly] v.1-2; (n.s.) v.1, no.1-3. August 1919 - October 1920; April - June 1931. Suffolk, Va., 1919-1931. 77.8 P312
Ceased publication.

Philippine Islands

191. Battung, Angel T. Variety tests and cost of production of seven varieties of peanut. Philippine Agr. 24(4):341. September 1935.
25 P542
This is an abstract of a thesis made by Crispulo U. Pangramuyen.
192. Cruz, Aurelio O., and West, Augustus P. Composition of Philippine peanut oil. Philippine Jour. Science 46(2):199-207. October 1931.
475 P53
"The composition of Philippine peanut oil has been determined and the results... indicate that the Philippine oil has a composition very similar to that of American peanut oil...
"Peanuts can be grown easily in the Philippines. Since Philippine peanuts yield an oil of high quality and about the same composition as American peanut oil; it would seem that there are promising prospects for the development of peanut cultivation in the Philippines."
193. Ejercito, Juan M. Peanut culture. Philippine Jour. Agr. 8(1):97-103. First quarter 1937. 25 P543
"Farmers' Circular 9."
Includes directions for harvesting, curing, picking and shelling peanuts, and gives yields, expected profits and cost of production in the Philippines.
194. Ejercito, Juan M. Peanuts in the Philippines. Philippine Jour. Agr. 5(2):47-67, second quarter, 1934. 25 P543
Contains information on uses, adaptation and distribution, production, export and import, varieties, soil and climatic requirements, care and selection of seed, fertilizers, preparation of the soil, planting methods and cultivation, harvesting, curing, picking and shelling, marketing, cost of production, etc.
195. Fajardo, Abelardo J. A study of peanut and *Indigofera hendecaphylla* Jacq. as forage crops. Philippine Agr. 23(2):140-155. July 1934. 25 P542
Bibliography, p.150.
"The objects of the investigation here reported were: (a) to determine the yield in nuts and forage of three Philippine varieties of peanuts, and the forage yield of *Indigofera hendecaphylla* Jacq.: (b) to ascertain the relative palatability of the hays as

forage crops for horses; (c) to find out the comparative nutritive value of these hays as shown by chemical analysis.

"The work was carried out at the College of Agriculture, University of the Philippines."

196. Philippine Islands. Department of agriculture and commerce, Division of statistics. Bulletin of Philippine statistics. (Formerly, The Philippine Statistical Review), v.1, no.1 - date. [quarterly] Manila, 1934-date. 273 Ag8B

The 1938 issues examined contained comparative average wholesale prices of peanuts (shelled) in Manila: peanuts, area planted, production, and value for year ending June 20, 1938 compared with a similar period in 1936, by provinces (this last in 1st and 2d quarters, 1938).

Economic and Social Conditions of the Philippine Islands, 1935; Special Supplement to The Philippine Statistical Review, volume 2, 84pp. Manila, 1935, contains figures on the value of peanut production for the Philippine Islands and for each province, 1934. 273 P534 Spec. suppl. v.2. 1935

197. Philippine Islands. Department of agriculture and commerce, Division of statistics. Statistical handbook of the Philippine Islands, 1932, first number. 287pp. Manila, Bureau of printing, 1933. 273 Ag8 1932

A table, pp.114-115, shows area under cultivation, production and value for the year ending June 30, 1932, by provinces, for peanuts.

198. Philippine Islands. Department of commerce and communications, Bureau of commerce and industry, Manila. Peanuts as a money crop. Why we should raise peanuts here. 6pp. Manila, P.I. [1924?] Pam. Coll.

"1. There is a big demand for the product in this country.
2. There is also a big demand for it in the United States.
3. Philippine peanuts are admitted free into the United States while those from other countries have to pay duty. 4. Soil and climatic conditions in the Philippines are favorable to the cultivation of peanuts. 5. Peanuts can be raised in rotation with other crops. 6. Compared with other crops, its cultivation is easy, requiring but the equipment of an ordinary farmer."

199. Philippine Islands. Department of commerce and communications, Bureau of commerce and industry. Statistical bulletin of the Philippine Islands, 1929, Twelfth number...239pp. Manila, Bureau of printing, 1930. 273 P532 no.12.

Table 46, p.58. Area cultivated and production of minor agricultural products, 1903 and 1918, gives area in hectares and production of peanuts in the Philippine Islands, 1903 and 1918.

200. Philippine Islands. Department of finance, Bureau of customs. Annual report of the Insular collector of customs...1937. 362pp. Manila, Bureau of printing, 1938. 273 C96A
Gives imports and exports of peanuts (quantity and value), and imports of peanut oil, by countries, 1937 and 1936.
See also earlier reports.
201. West, A.P., and Brown, W.H. Philippine resins, gums, seed oils, and essential oils. [Philippine Islands] Bureau of Forestry, Bull.20, 230pp. Manila, 1920. 99.9 P535B
"...Certain cultivated plants, such as the coconut palm, peanut, etc., are included for the sake of completeness. The different species are considered from a botanical standpoint, but emphasis is placed upon the products, their properties and uses." - Expt. Sta. Record, v.44, pp.640-641. 1921.
Peanut oil, pp.106-107.

Statistics

202. Baker, O.E., and Genung, A.B. A graphic summary of farm crops (based largely on the Census of 1930 and 1935) U.S. Dept. Agr., Misc. Pub. 267, 129pp. Washington, D.C., 1938. 1 Ag84M
Annual Legumes and Sugar Crops, pp.68-82, contains maps showing ripe field beans and peanuts, harvested acreage, 1929; ripe field beans and peanuts, increase in acreage, 1919-24; ripe field beans and peanuts, decrease in acreage, 1919-24; ripe field beans and peanuts, increase in acreage, 1924-29; ripe field beans and peanuts, decrease in acreage, 1924-29; ripe field beans and peanuts, increase in acreage, 1929-34; ripe field beans and peanuts, decrease in acreage, 1929-34; peanuts, production, 1929; peanuts sold or to be sold, 1929.
203. Birgfeld, Clarence E. United States foreign trade in peanuts. U.S. Dept. com., Bur. Foreign and Dom. Com., Com. Repts. no.4, pp. 231-232. Jan. 28, 1929. 157.7 C76D
Tables show U.S. consumption of peanuts, 1920-1927; imports of peanuts by country of origin, first eleven months of 1927 and 1928; imports of peanuts by quantity 1920/24-1927 by country of origin; U.S. exports of peanuts by country of destination 1926-1927 (quantity and value); and production and acreage in leading producing countries.
204. Colvin, Esther M. List of periodicals containing prices and other statistical and economic information on fruits, vegetables and nuts. U.S. Dept. of Agr. Bur. Agr. Econ. Agr. Econ. Bibliog. 55, 238pp. Washington, D.C., Jan. 1935.
A part of C.W.A. Project F-1.
Consult index under "peanuts" for references to material on that subject.

205. Domestic production and imports of peanuts. Econ. World (o.s.) 117; (n.s.) 31(6):196. Feb. 6, 1926. 236.8 M34
Types of peanuts and areas where grown, domestic production, imports, competition trend, Chinese exports, manufacturing centers for peanuts, and centers of distribution are given.
206. Gries, Caroline G. Foreign trade of the United States, annual, 1790-1929. Nuts, domestic exports, reexports, and net balance, quantity and value, U.S. Dept. Agr., Bur. Agr. Econ., Div. Statis. and Historical Research, Report F.S. 51, 35pp., processed. Washington, D.C. July 1930. 1.9 Ec752 no.51
Figure 1, p.5: Peanuts: domestic exports and imports, quantity 1900-1929.
Table IV, pp.18-22: Peanuts: Foreign trade of the United States, 1880-1929.
Table IX, p.33: Peanuts: Shipments from the United States to Alaska, Hawaii and Porto Rico, 1906-1929.
207. Imports of peanuts. Amer. Fert. 53(7):134. Sept. 25, 1920. 57.8 Am3
A brief summary of figures on imports of peanuts and peanut oil into the United States during 1920.
208. Lumkis & Co. [Peanut prices] 1913-1921. [Philadelphia? 1913-21] Pam. Coll.
Philadelphia and Suffolk prices are listed for the various grades and types of shelled and unshelled peanuts.
209. McCormick, James H. United States trade in peanuts during 1929: production and consumption increase; imports decrease. U.S. Dept. Com., Bur. Foreign & Dom. Com., Com. Repts. no.4, pp.246-247. Jan. 27, 1930. 157.7 C76D
Gives figures for U.S. consumption of peanuts 1920/24-1928, imports 1927-1929 by country of origin, estimated world production of peanuts by countries, and U.S. exports 1926-1928 and first eleven months of 1929, by country of destination.
210. Nemir, Albert S. The candy industry. An analysis of industry trends with selected list of references. 18pp., processed. U.S. Dept. Commerce, Bur. of Foreign and Domestic Commerce, Foodstuffs Div. July 1937.
Table 8, p.11, gives purchase of edible nuts, including peanuts, by 52 confectionery manufacturers, 1932 and 1933.
211. Nemir, Albert S. Edible nuts: United States foreign trade in 1938. U.S. Dept. Com., Bur. Foreign and Dom. Com., Foodstuffs Round the World 3(16):1-3. April 21, 1939. 157.54 F73
Includes total quantity and value of United States exports of peanuts by principal countries of destination, 1937 and 1938, and imports by country of shipment.

212. Nemir, Albert S. 1936 Review of export trade in sugar, confectionery and nuts. 24pp., processed. [Washington, D.C.] U.S. Dept. of Commerce, Bur. of Foreign and Domestic Commerce, Foodstuffs Div., February 1937. 157.55 R323

Peanuts, pp.18-23, describes the factors affecting the export trade in peanuts, the increased diversion of peanuts to peanut oil, manufactured quantity of peanut butter, and the position of the United States as a world producer and exporter of peanuts. There are numerous tables showing exports of peanuts; exports of all edible nuts compared with exports of peanuts, production of peanuts and prices of peanuts, peanut oil and peanut butter; production of crude and virgin peanut oil, quantity of peanuts used and percent of commercial extraction; quantity and proportion of peanut crop gathered diverted to oil production; U.S. imports of peanuts; world export production of peanuts by countries.

213. Nemir, Albert S. 1937 Review of United States foreign trade in edible nuts. 16pp., processed. [Washington, D.C.] U.S. Dept. of Commerce, Bur. of Foreign and Domestic Commerce, Foodstuffs Div., June 1938. 157.55 R3223

Includes figures on U.S. production of peanuts used for food, 1919/32, 1923/27, 1928/32, 1933/37 and 1937; quantity and value of imports 1921/25, 1926/30, 1931/35, 1936, 1937; quantity and value of exports 1936 and 1937; quantity of U.S. exports by country of destination, 1935, 1936, and 1937; and imports by country of origin for the same years.

214. Nemir, Albert S. Review of export trade in edible nuts. 9pp., processed. [Washington, D.C.] U.S. Dept. of Commerce, Bureau of Foreign and Domestic Commerce, Foodstuffs Division, [1936?] 157.55 R32

Peanuts, pp.5-8, takes up the decline in the export peanut trade, the share of the United States in the world export peanut trade. There are the following tables: Exports of all edible nuts compared with exports of peanuts, 1913-35 (quantity and value), 1914-17 omitted from figures; Exports of peanuts, 1935 and 1934, by countries; Production of peanuts, quantity gathered, farm value, and prices of peanuts and peanut oil, annual 1929-35, average 1919-28 and 1929-35; World exports of peanuts, in quintals, 1930, 1931, 1932 and 1933, by exporting countries.

215. The oil miller and cotton ginner [monthly] v.1-v.47, no.5. Sept. 1912 - Jan. 1936. Atlanta, Ga. [etc.] 1912-1936. 307.8 O15
v.1-22, no.5, Sept. 1912-Jan. 1926 have title: The Oil miller, and are devoted exclusively to the interests of the crude vegetable and oil milling industry. The publication was the official organ of the Southeastern Peanut Association among other associations.
Feb. 1926 - Jan. 1936 devoted to the interests of the cotton oil milling and ginning industries.

v.24, no.2 - v.29, no.1 omitted in numbering.

v.44, no.2 - v.47, no.5, April 1934 - Jan. 1936, official organ of Alabama ginners association, Georgia cotton ginners association, North Carolina-Virginia ginners association, Ginners association of South Carolina.

Absorbed Feb. 1936 by American Ginner and Cotton Oil Miller (see p. [3], Feb. 1936 of American Ginner).

216. Olcott, Margaret T. Alabama; an index to the state official sources of agricultural statistics. U.S. Dept. Agr., Bur. Agr. Econ., Agr. Econ. Bibliog. 15, 96pp., processed. Washington, 1926
Peanuts, pp.41-43.
217. Peterson, Arthur G. Historical study of prices received by producers of farm products in Virginia, 1801-1927. Va. Agr. Expt. Sta. Tech. Bull. 37, 218pp. [Blacksburg?] 1929.
Literature cited, pp.217-218.
Peanuts, p.56.
Fig. 14, p.31, shows the trend of prices of Virginia and Spanish peanuts, crop years, 1867-1926; Fig. 37, p.57, acreage in peanuts in 1923; Table 13, p.87, Average price per pound received by producers of Virginia peanuts, by months, 1867-1927; Table 14, p.88, Average price per bushel received by producers of Spanish peanuts, by months, 1882-1927; Table 95a, pp.188-189, shows relative prices of farm products in Virginia, 1801-1927, including Virginia and Spanish peanuts.
218. Peterson, Arthur G. Peanuts: prices, production, and foreign trade since the Civil War. Econ. Geog. 7(1): 59-68. January 1931. 278.3 Ec7
Reprint also in AE Pam. Coll.
Reprinted in Peanut Journal and Nut World, May 1931, pp. 7, 9, 11, 13.
Included are the history, sources and description of price data, and an analysis of prices and trade in the peanut industry. Graphs show the average price received by producers in Virginia, crop year 1867-1928; and prices and imports (1864-1929): average price of Virginia peanuts received by producers in Virginia deflated by the Bureau of Labor Statistics all commodity index. In this latter graph, net imports are for the fiscal year beginning July 1. Tables show the peanut tariff history and duty on peanuts, 1864-1929, and world peanut production, average 1925-28.
219. Shively, Eva Thayer. Index to some sources of current prices. U. S. Dept. Agr. Library, Bibliog. Contrib. no. 5, 124pp., processed. Washington, 1923. 1.9 L61Bi no. 5.
Contributed by the Bureau of Agricultural Economics.
Peanuts, p. 80.

220. U.S. Department of agriculture. Agricultural statistics, 1938. 544pp. Washington, U.S. Govt. print. off., 1938. 1 Ag84Yas
Contains statistics on exports, imports, production and international trade of peanut oil; and acreage, yield and production of peanuts, peanuts crushed, imports, farm and market prices, imports of shelled nuts, international trade, and value.
Earlier information of the same type is to be found in Agricultural Statistics, 1936 and 1937, and prior to that in U.S. Dept. of Agriculture. Yearbook, 1909-1935.
221. U.S. Department of agriculture. Crops and markets, v.1, Jan. 5, 1924 - date. Washington [Govt. print. off.] 1924 - date. 1 Ag84Wc
This publication which continues the weekly "Weather, Crops and Markets" (see item 223) was published weekly, v.1, Jan. 5, 1924 - Dec. 31, 1926 with a monthly supplement (see under U.S. Department of Agriculture. Crops and Markets. Monthly Supplement. item no. 222). It has appeared monthly, v.4, January 1927 - date. 1 Ag84Wcm. This monthly issue contains the data previously appearing in the weekly edition and the Monthly supplement, and continues the volume numbering of the Monthly supplement.
Consult index for references to information on peanuts. Includes references to such material as acreage intentions; condition reports; acreage harvested for hay and yield of hay per acre; acreage harvested, cash income and yield per acre for nuts; peanuts grazed or plowed under; acreage grown alone and interplanted; U.S. averages of monthly figures received by farmers; and summaries of these monthly figures.
222. U.S. Department of agriculture. Crops and markets. Monthly supplement, v.1, no. 1 - v.3, no.12. Washington, D.C., January 1924 - December 1926. 1 Ag84Wcm
The index to each volume contains under "Peanuts" references to statistics on peanuts, such as acreage, production, prices and brief articles on the peanut situation.
223. U.S. Department of agriculture. Weather, crops and markets. v.1, no.1, Jan. 7, 1922 - v.4, no.26, Dec. 29, 1923. Washington, D.C. [Govt. print. off.] 1922-23. 1 Ag84We
Combination of Market Reporter, the National Weather and Crop Bulletin, and the Monthly Crop Reporter.
Continued by Crops and Markets.
Consult index in each volume for references to statistics on peanuts and brief articles on the peanut situation.
224. U.S. Department of agriculture, Agricultural adjustment administration, Division of marketing and marketing agreements. Peanut data (Preliminary). [9pp.] Washington, D.C., Price Conference, September 10, 1938. (Form MS-18. Rev. to 9/10/38) 1.94 Ad47Ms
This includes the following tables: 1. Peanuts harvested for nuts, by areas, 1928-29 to 1933-39; 2. Peanuts: Acreage harvested

for nuts, by areas and states, crops of 1928-38; 3. Peanuts: Yield per acre by areas and states, weighted averages 1933-1938; 4. Peanuts: Harvested for nuts and percent change from previous year. Average 1928-32, 1937 and 1938; 5. Peanuts: Estimated production by types, 1938-39; 6. Peanuts: Farm consumption, 1928-29 to 1937-38; 7. Peanuts: Crushed for oil, 1928-29 to 1937-38; 8. Production of fats and oils from domestic and imported materials, 1928-37; 9. Peanuts: Average prices paid growers, by types and grades, 1924-37.

225. U.S. Department of agriculture, Bureau of agricultural economics. Acreage, yield per acre and production of peanuts harvested for nuts, 1924-1937 (Revised estimates of the Crop reporting board) 2pp., processed. Washington, D.C., January 19, 1938. 1.9 Ec71Ayi
The same type of statistics for 1924-36, 2pp., processed, was issued February 17, 1937. 1.9 Ec71Ai. The Crop Reporting Board of the Bureau of Agricultural Economics in August 1937 issued "Peanut Revisions, 1916-1923", 3pp., processed. These give the "revised estimates of acreage, yield and production of peanuts harvested for nuts for the years 1916 to 1923. These revisions were necessary to make the series consistent with enumerations of the Bureau of the Census and are comparable with the 1924-1935 revisions of peanuts harvested for nuts published in January 1937." 1.9 Ec71Per
226. U.S. Department of agriculture, Bureau of agricultural economics. Cleaned and shelled peanuts: monthly average prices for prompt shipment F.O.B. important shipping points, 1920-1938. 6pp., processed. Washington, D.C., 1938. 1.9 Ec710s
227. U.S. Department of agriculture, Bureau of agricultural economics. Fruits and nuts, 1938. Agricultural outlook charts. 45pp., processed. Washington, D.C., October 1937. 1.9 Ec70fr
Includes, p.37, Peanuts harvested for nuts: production, imports, and seasonal farm price. Similar information in outlooks for 1936-1937.
228. U.S. Department of agriculture, Bureau of agricultural economics. Peanuts; revised estimates, acreage, yield, production and disposition by states and estimated commercial production by areas, 1919-1938. 18pp., processed. Washington, D.C., May 1939. 1.9 Ec71Pea
"The Crop Reporting Board of the Bureau of Agricultural Economics published herewith revised estimates of the acreage, yield per acre, production and disposition of peanuts. The purpose of these revised estimates is to provide a comparable series of statistics for as many years as available data will justify, and to establish a new series of production statistics more in line with the quantity of peanuts sold and utilized on the farm where grown after removal from the vines. This new series is designated 'picked and threshed'

and is substituted for the old series under the designation 'harvested for nuts', which included peanuts harvested and fed on the vines as well as a portion of the crop otherwise utilized. The basis for the revisions was established through a study of recently available statistics covering peanuts milled over a period of years, shipment data, special utilization surveys, and acreage, yield and production indications compiled currently over the period of years covered."

229. U.S. Department of agriculture, Bureau of agricultural economics. Prices of farm products received by producers. 3. South Atlantic and South Central States. Monthly prices through 1925 and other data by states with comparable data for earlier years. U.S. Dept. Agr. Statis. Bull. 16, 241pp. Washington, 1927. 1 Ag84St
Includes prices of peanuts for most of the states.

230. U.S. Department of agriculture, Bureau of agricultural economics. Statistics of fats, oils, and oleaginous raw materials. U.S. Dept. Agr. Statis. Bull. 24, 88pp. Washington, D.C., 1928. 1 Ag84St
Selected referonces, p.14.

Tables include statistics for peanuts and peanut oil as follows: International trade, including domestic exports and reexports from the U.S., 1913, 1919-1926, etc.; revenue derived from tariff on imports into the U.S., 1913-1926; and factory and warehouse stocks held in the U.S. on Dec. 31, 1924-1926.

Also the following: Monthly prices of peanut oil at N.Y. 1917-1926 and Gt. Brit. 1913-1927; annual production of peanuts by principal countries, 1909/13, 1922-1926, and of peanut oil, 1912, 1914, 1916-1926; in the U.S.; and estimated disappearance 1920-1926 and factory consumption 1922-1926 of peanut oil in the U.S.

231. U.S. Department of agriculture, Bureau of agricultural economics. Weekly peanut report, no.1, Nov. 14, 1919- date. Washington, D.C., Nov. 14, 1919 - date. 1.9 Ec742P

Gives local prices and conditions in shipping sections, March 7. Diversions of peanuts by cooperative associations and stocks on March 8, 1930, telegraphic imports from important markets, peanut shipments by cleaners, shellers and crushers, by sections; U.S. exports and imports.

232. U.S. Department of agriculture, Bureau of agricultural economics, Division of statistical and historical research. [Foreign section] Foreign news on peanuts, June 13, 1927 - May 17, 1930, nos.1-33, Processed. Washington, D.C., 1927-1930. (F.S. - P.N. 1-33)
1.9 Ec752F

"Contains monthly reports during the shipping season on exports of Chinese peanuts to the United States and other special releases on foreign peanut production and trade." - Agricultural Economic Reports and Services of the Bureau of Agricultural Economics, Feb., 1931, p.19.

Nos. 1 - 3 entitled: Foreign News on Nuts.

Ceased publication. Most of the information formerly contained in this publication now appears in Weekly Report on Peanuts issued by the Market News Service.

233. U.S. Department of agriculture, Bureau of markets. Seed reporter, v.1, no.1 - v.3, no.4. Washington, D.C., November 1917 - October 11, 1919. 1 M348

Discontinued after Oct. 11, 1919.

Seed reports continued in the U.S. Dept. of Agriculture, Bureau of Markets, Market Reporter.

Oct. 11, 1919, p.10 has a table giving estimated requirements and sources of supply of peanuts.

234. U.S. Department of agriculture, Bureau of markets and crop estimates. The market reporter, v.1-4, Jan.3, 1920 - Dec. 31, 1921. 4 v. [Washington, Govt. print. off.] 1920-21. 1 M34M

v.1-3, 1920 - June 1921, issued by Bureau of Markets.

"The Market Reporter is an outgrowth of earlier publications in more limited fields issued by the Bureau of Markets. The periodicals formerly issued under the titles of 'Seed Reporter' and 'Food Surveys' have been merged into this more comprehensive publication." - v.1, no.1, p.1.

In January, 1922, combined with Monthly Crop Reporter and the National Weather and Crop Bulletin to form Weather, Crops and Markets.

Consult index under "Peanuts" and "Peanut oil" for statistics on production, consumption, prices, etc.

235. U.S. Department of commerce, Bureau of foreign and domestic commerce. Foreign commerce and navigation of the United States, 1849/50 - date. Washington, Govt. print. off., 1851 - date. 157.9 F76
1865/66 is earliest in the Library of Congress.

1915-1918 report year ends June 30. 1918 - date issued for calendar year.

The report for 1937 contains the following figures by country: imports of peanut oilcake for consumption, p.50; imports of shelled and unshelled peanuts for consumption, p.62; imports of blanched, roasted, prepared or preserved peanuts, p.63; imports of peanut butter, p.63; quantity and value of peanut oil imports, p.64; quantity and value of peanut exports, p.427; exports of foreign peanut oil, p.727. The following are given by customs district: shelled and unshelled peanuts, quantity and value, p.317; quantity and value of peanut oil imports, p.319; quantity and value of peanut exports, p.630.

236. U.S. Department of commerce, Bureau of foreign and domestic commerce. Imports of olives, coconut meat and coconut oil, peanuts and peanut oil, and olive oil, edible, into the United States, by countries. January 1925 - Dec. 1931, processed. [monthly]. Washington, D.C., 1925 - Dec. 1931. 157.54 [Im] no.1-150.

At head of title: Statement no. 1-150.

Gives figures for both shelled and unshelled peanuts and for peanut oil, quantity and value, by countries.

237. U.S. Department of commerce, Bureau of foreign and domestic commerce. Imports of walnuts and peanuts, into the United States by countries, 1925-1931. [monthly] Statement no. 1-1368, processed. [Washington, D.C., 1925-31] 157.54 [Im] no.1-1368.

238. U.S. Department of commerce, Bureau of foreign and domestic commerce. Monthly summary of the foreign commerce of the United States, 1893 - date. Washington, Govt. print. off., 1893 - date. 157.9 M76

Consult index for page references to figures on exports of peanuts, imports of shelled and unshelled peanuts, and peanut oil.

239. U.S. Department of commerce, Bureau of foreign and domestic commerce. Foodstuffs division. United States imports of edible nuts, 1933 - date. [monthly] processed. [Washington, D.C., 1933 - date] 157.54 [Im] no.3054

At head of title: Statement no. 3054... Preliminary statistics.

Gives quantities of shelled and unshelled peanuts imported, by country of origin.

Current issues have title: United States Foreign Trade Statistics. Imports of Edible Nuts. Advance Official Data Subject to Revision.

240. U.S. Department of commerce, Bureau of the census. Biennial census of manufactures, 1935. 1279pp. Washington, U.S. Govt. print. off., 1938. 157.41 Sp3Mf 1935

Under the section: Food Preparations Not Elsewhere Classified, pp.144-148, the quantity in pounds and value of peanut butter produced in 1935, 1931, and 1929 are given in Table 4, p.148. The "Miscellaneous Food Products" listed at the end of this same table, according to a footnote, "Includes value of peanut oil, peanut cake and meal, blanched peanuts, and other peanut products made by establishments classified in the former 'Peanuts, Walnuts, and Other Nuts Processed or Shelled' industry, which is not now covered by the Census of Manufactures." These figures are not given in the Biennial Census of Manufactures for 1933, but are included in the volume for 1931, which, p.140, gives quantity and value of peanut butter, blanched peanuts, peanut oil, peanut cake and meal, other peanut products and total peanut products for 1931 and 1929. Peanut butter sandwiches are included in a total figure for miscellaneous food products given in this table.

The information given under this heading varies in earlier issues of the Census. The 1929 one includes quantity and value for 1929 and 1927 and value for 1927, of peanut products as a whole, peanut butter, peanut oil, peanut cake and meal, and other peanut products.

The peanut butter sandwich figures are also given in a figure which includes other products.

The 1927 Census gives value only of these various peanut products.

The 1925 Census includes figures for 1925 and 1923 on peanut butter: number of establishments, wage earners, wages, cost of materials, value of products, value added by manufacture and horsepower used. The 1923 and 1921 volumes have similar statistics.

Statistics on the peanut grading, cleaning and shelling industry are last given in the 1931 Census of Manufactures in the group "Food and Kindred Products", under the heading - "Peanuts, Walnuts, and Other Nuts, Processed or Shelled", pp.176-178. Included are summary figures for all these nut industries of the number of establishments, wage earners, wages, cost of materials, value of products, and value added by manufacture, 1927-1931, and by states, 1931; wage earners by months in these industries, 1931 and 1929, and for states 1931; quantity and value of shelled and cleaned and graded peanuts, 1931, 1929, and 1927; and quantity and value of shelled and cleaned and graded peanuts, by states, 1931.

The Fifteenth Census of the United States, 1930, contains The Census of Manufactures, 1929, vol. 2 of which, Reports by Industries, has the section "Peanuts, Walnuts, and Other Nuts, Processed or Shelled", giving figures similar to the above for 1927 and 1929. These are the number of establishments, salaried officers and employees, wage earners, horsepower, salaries, wages, cost of materials, value of products and value added by manufacture (In these, figures for peanuts are not separate from other nuts); quantity and value of peanuts shelled and cleaned and graded, 1927, 1929; quantity of peanuts shelled and cleaned and graded, by states, 1929. 1927 figures are also given in the Census of Manufactures, 1927.

The Biennial Census of Manufactures, 1925, contains a section - "Food and Kindred Products", in which figures are given, on the peanut grading, roasting, cleaning and shelling industry: decrease in number of establishments from 1923 to 1925, and showing for these establishments in 1914, 1919, 1921, 1923, and 1925 the number of wage earners, their wages, cost of materials, value of products, value added by manufacture, horsepower used, and per cent of increase or decrease for all these; wage earners, by months, for the United States, 1919 to 1925, and for selected states, 1925; and statistics by states for 1925 of total persons engaged in the industry, proprietors and firm members, salaried officers and employees, wage earners, and horsepower.

The Biennial report for 1923 and 1921 contain similar statistics.

Consult index for statistics on acreage, production and value of peanuts, farm income from peanuts, farm prices, wholesale prices and foreign trade.

See also earlier issues.

242. U.S. Department of commerce, Bureau of the census. United States census of agriculture: 1935, 3v. Washington, Govt. print. off., 1936. 157.41 C3322

V.2. Reports for States with Statistics for Counties and a Summary for the United States, second series, includes, table XII, p.XXIII, statistics on peanuts harvested for nuts or hay, or grazed, acreage grown alone, acreage grown with other crops, acreage and bushels harvested for nuts, and value in dollars for the United States, 1934, 1929, 1919, 1909, 1899, and 1889. Table XV, pp. XXXIV-XL, summarizes statistics of peanuts grown alone, grown with other crops and harvested for nuts, by divisions and states, 1934 and 1929, and the same statistics are given by counties for each state (Title: Miscellaneous crops - annual legumes...Jan. 1, 1935); also gives for each state: acreage, quantity and value of miscellaneous crops harvested, 1909 to 1934 (including peanut total acreage, acres grown alone and with other crops, quantity harvested for nuts, and value of nuts harvested, 1934, 1929, 1924, 1919 and 1909).

V.3. General Report. Statistics by Subjects, has a table, no.25, pp.338-339: Peanuts harvested for nuts or hay, or grazed - farms reporting and acreage, with quantity and value of nuts harvested, by divisions and states: 1934 and 1929. Peanut figures are also included in table 1, p.295: Farms reporting, acreage harvested, production, and value of crops in the United States: 1934 and 1929; and in table 2, p.299, Specified crops - summary for the United States: 1839 to 1934 [peanuts harvested for nuts, in 1934, 1929, 1919, 1909, 1899 and 1889]; and in table 66, p.396, Rank of divisions and states in the acreage, production, and value of specified crops, 1934 and 1929... [peanuts harvested for all purposes and nuts harvested.]

For earlier figures see reports as follows: The Fifteenth Census of the United States: 1930. Agriculture, Volume IV, General Report, Statistics by Subjects. Washington, Govt. print. off., 1932. 157.4 C153 Includes, Ch. XI, statistics on individual crops. Table 40, p.768, gives statistics of peanuts; acreage grown alone and with other crops, bushels and value harvested, 1929, by divisions and states; and a map, p.769, shows peanut acreage grown alone and with other crops in 1929. V.II, 3 pts., gives reports by states, with statistics for counties and a summary for the United States. Table 41, pt. 1, p.84, shows farms reporting peanuts, acreage grown alone and with other crops, and quantity harvested for geographic divisions and states; county tables VII include for counties in each state, farms reporting peanuts, acreage grown alone and with other crops, and bushels for 1929.

The United States Census of Agriculture, 1925, 3 pts. Washington, Govt. print. off., 1927. 157.41 C332 Pt. 1 has Summary for the United States, pp.1-77. State table VI, pp.60-67, includes number of farms reporting peanuts for the United States and divisions, 1924. County tables are given for each state for the same information.

The Fourteenth Census of the United States taken in the Year 1920. Volume V. Agriculture. General Report and Analytical Tables. Washington, Govt. print. off., 1922. 157.4 C14 Table 62, p.780, is as follows: Peanuts - Summary for the United States, 1809 to 1919; Table 63, p.781: Peanuts - Farms reporting and value, 1919 and 1909, and acreage and production, 1899-1919, by divisions and states; Table 64, p.782: Peanuts - Percentages and averages, by divisions and states: 1899 to 1919. Ch. XI. Summary for all crops, has a table, no.1, p.700, which shows acreage, production, and value of all crops in the United States: 1919 and 1909, including peanuts. Table 2, p.710; shows peanut acreage in percent of total improved farm land occupied and of total acreage of crops with acreage reports, 1919 and 1909. Table 9, States leading in the production of each crop: 1919, includes peanuts.

243. U.S. Department of commerce, Library. Price sources. Index of commercial and economic publications currently received in the libraries of the Department of Commerce which contain current market commodity prices; compiled by Elizabeth M. Carmack... 320pp. Washington, Govt. print. off., 1931. 157.1 P93
Peanuts, p.206. See also under Oils, pp.192-198; Nuts, pp.188-189; Groundnut oil, p.129; Groundnuts, pp.129-130
244. U.S. Department of labor, Bureau of labor statistics. Retail prices, [monthly] March 1932-date. Washington, Govt. print. off., 1932-date. 158.6 P93R
Beginning with February 1934, quotations are given under "Miscellaneous Foods", for peanut butter.
245. U.S. Department of labor, Bureau of labor statistics. Wholesale prices, Dec. 1928-date. [monthly] Washington, Govt. print. off., 1928-date. 158.6 P93
Gives monthly wholesale prices of peanuts at Norfolk, and prices of peanut butter and oil. 1935-36 has figures only in the June and December issues.
Dec. 1928-Feb. 1932 have title: Prices Wholesale and Retail. This does not, however, contain peanut figures.
246. U. S. Department of labor, Bureau of labor statistics. Wholesale prices of commodities, [monthly] Apr. 1922-Feb. 1932. Washington, Govt. print. off., 1922-1932. 158.6 W62
Ceased publication with Feb. 1932; continued by Wholesale Prices.
Gives prices of peanuts, per pound, at Norfolk, and prices of peanut oil, and (January 1932 on) peanut butter.

247. Williams, C.B. What one-third of the counties of North Carolina have done and are doing. N.C. Agr. Expt. Sta. Agron. Inform. Circ. 19, 7pp. State College Station, Raleigh, 1929. 100 N81A
A table on p.7, shows the percentage of total cultivated acreage planted to peanuts, by counties.
248. Wright, Icelle W. Oklahoma; an index to the state official sources of agricultural statistics... including a list of the unofficial sources of Oklahoma agricultural statistics, compiled by Margaret Walters... U.S. Dept. Agr., Bur. Agr. Econ., Agr. Econ. Bibliog. 21, 46Opp., processed. Washington, D.C., 1927.
Peanuts: pp.222-228.

Storage

249. Beattie, J.H. Peanut seed may be kept for several years under proper conditions. U.S. Dept. Agr. Yearbook 1931: 426-427. Washington, 1931. 1 Ag84Y
The writer refers to experiments on effects of age and storage upon the vitality of peanut seed, and discusses the cold storage of peanut seed, which he says does not seem to be injurious.
250. U.S. Department of agriculture, Bureau of agricultural economics. Regulations for warehousemen storing nuts. Approved October 22, 1929, amended June 29, 1931. Issued August 1937. U.S. Dept. Agr., Bur. Agr. Econ. Serv. and Regulat. Announc. 119, 21pp. Washington, D.C., 1937. 1 M34S no.119
Supersedes Service and Regulatory Announcements, no.81, entitled: Regulations of the Secretary of Agriculture under the United States Warehouse Act of August 1916 as amended. Regulations for Peanut Warehouses. Approved September 29, 1923.
Amendments nos. 1 and 2 to Service and regulatory announcements no.119 were issued by the Bureau of Agricultural Economics, [June 10, 1938] 1 M34S
251. U.S. Department of agriculture, Bureau of plant industry. Office of horticulture. Cooperative peanut and sweet potato work between Bureau of plant industry and Pee Dee experiment station. Report covering work for 1926. 12pp., processed. [Washington, D.C., 1927] 1.9 P77Co
Includes summary of work on the effect of cold storage of peanut seed on germination and yield, and effect of age of seed on germination and yield.

Utilization

General

252. Black Man's miracles. The story of a great and good American. Liberty 15(2):19-21. Jan. 8, 1938. Libr. Cong. AP2.L541
The story of Dr. George Washington Carver and his work in developing uses for the peanut.
A Spanish translation of this article "Historia de un gran Americano. La industrialización del maní," is to be found in the Revista de Agricultura [Cuba] 21(4):33-42. April 1938. 8 Ag88Re
253. Carver, George W. Food value of peanuts leads all vegetables. Spice Mill 44(3):529-530. March 1921. 389.8 Sp4
Includes a list of 107 products developed at Tuskegee Institute from the peanut.
254. Carver, George W. How to grow the peanut and 105 ways of preparing it for human consumption. 3d ed. Tuskegee Normal and Industrial Inst. Expt. Sta. Bull. 31, 35pp. Tuskegee Institute, Ala., 1921.
Includes harvesting, preparation for market, feed value of peanut hay, value as a food for human beings, and recipes.
255. Carver, George W. Possibilities of peanut culture in the south. Mfrs. Rec. 86(24,pt.2):227-228. Dec.11,1924. 297.8 M31 (bound separately)
"Since all business is governed practically by the law of supply and demand, a new vista opens up to the South, revealing a number of possibilities along lines stressed but little or not at all heretofore. Thanks to the many new and unique advertising mediums to increase the consumption of the peanut, there must be greater and more concerted action before the goal of our highest hopes is attained. The people of the South, where the peanut thrives better than in any other spot in the United States, should be foremost in this advertising campaign. It is nothing short of startling when we think, or better see, 167 products made from this remarkable little nut... I am appending a few of the products in order that the reader may get at least a glimpse into the almost limitless future for this great crop." These include sprouts, dyes, oil, margarine, breakfast food, punches, cleansing cream, etc.
256. Cates, J. Sidney. Making more of peanuts. Country Gent. 87(35):6. Oct. 7, 1922. 6 C833
"Both state and national market bureau people have seemed more concerned with statistics on price and tonnage and crop movements than they have been about this very fundamental question of why we do not eat more peanuts... I have been particularly interested in this phase of the peanut problem for the reason that therein seemed to lie a way out from the periodic up and down flare of prices.

"The great bulk of our peanut crop never reaches the consumer as such. Untold thousands of acres are fed to hogs on farms where grown. Of the commercial crop by far the greater part is crushed for oil. The oil price really sets the price the farmer gets for nuts... The price of peanut oil is determined by the price and production of other competing oils scattered in foreign lands all over the world...

"A lot of this periodic slack would be taken up could the American people be induced to extend this holiday peanut eating habit to the work days throughout the year, thus making the fresh-trade market wag the oil end of the crop, instead of the other way around, as at present." The ways to accomplish this are considered.

257. Clay, Harold J. *Productos del maní*. 25 pp. Washington, D.C. [Govt. print. off., 1937] (Unión Panamericana. Serie de Agricultura, no. 121.) 150.9 Ag8 no.121.

Series published under the direction of the Office of Agricultural Cooperation.

A discussion of peanut products, which includes the salted peanut industry, the peanut butter industry, peanut oil (methods of extraction, yield of oil, and its use in preparing oleomargarine and peanut butter), and uses for the peanut hulls.

Also published in *Boletín de la Unión Panamericana* 71(4-5):363-378, 438-446. April-May 1937. 150.9 M76B

258. Fred, E.B., Peterson, W.H., and Anderson, J.A. Production of acetone, alcohol, and acids from oat and peanut hulls. *Indus. and Engin. Chem.* 15(2):126. February 1923. 381 J825

"In the manufacture of oatmeal and of peanut butter and oil, an enormous quantity of oat hulls and peanut hulls are obtained as by-products. These by-products are used as filler for stock feed, burned as fuel, or discarded as waste products.

"Because of the large quantity of these materials and the ease with which they may be collected, it was deemed advisable to test their value in the preparation of acids, alcohol, and acetone by means of microorganisms. The general procedure and the cultures of bacteria used are the same as those given in former papers on corncobs."

259. Georgia Cotton seed crushers' association. Report of proceedings of the Sixteenth annual convention held at Savannah, Georgia, May thirty-first and June first, Nineteen hundred and twenty. 144pp. [Savannah, 1920] 72.9 C822-1920

The report of the Traffic Committee is given, pp.53-55, and contains discussion of rates on peanuts, pp.54-55.

Official rules governing transactions in cotton seed and its products and other seed and their products, as amended and adopted by the Cotton Seed Crushers' Association of Georgia, at Savannah, Ga., May 31 and June 1, 1920, pp.75-119. Rules for transactions in peanut oil, refined peanut oil, peanut oil soap stock, and peanut cake and meal are included, pp.85-87, and specifications for

quality of peanut oil, pp.114-115.

Official methods adopted by the Chemists Committee and the Rules Committee of the Cotton Seed Crushers' Association of Georgia, pp.120-134. The refining process for crude peanut oil is outlined, p.132.

260. Goober wizard: Negro scientist turns peanuts into vital crop for Dixie farmers. Lit. Digest 123(24):20-21. June 12, 1937. 110 L
Describes the work of Dr. George Washington Carver of Tuskegee Institute, who "has produced 300 by-products of the lowly goober - from cheese to axle-grease." The article further describes the area of the South's peanut belt.
261. The growing importance of the versatile goober. Current Opinion 71(4):531-532. October 1921. Libr. Cong. AP2-C95
This is a brief account of the numerous uses for the peanut.
262. Hall, W.L., Slater, C.S., and Acree, S.F. Preliminary investigations upon two cellulosic wastes as sources for xylose. U.S. Natl. Bur. Standards, Jour. Res. 4(3):329-343. March 1930. 157.88 J82
"In this paper are set forth some of the preliminary analyses and work done on the hydrolysis of peanut hulls and cottonseed-hull bran, chiefly to devise methods for production of xylose and xylose molasses without materially injuring the plant fiber for use by the cellulose technologist. These raw materials are available in tonnage lots at central plants. It has been estimated that the peanut industry could readily collect annually 50,000 tons of hulls, and the cottonseed-oil plants can furnish yearly over 1,000,000 tons of cottonseed-hull bran."
263. Lynch, D.F.J., and Goss, Marshall J. Peanut-hull cellulose. Indus. and Engin. Chem. 22(8):903-907. August 1930. 381 J825
Bibliography, pp.906-907.
Presented before the Division of Cellulose Chemistry at the 77th Meeting of the American Chemical Society, Columbus, Ohio, April 29 to May 3, 1929.
"An analytical study of peanut hulls was made to determine a possible commercial use for this farm waste. The results agree with those of other investigators in that this waste would be an uneconomical source for pentosans. The comparatively high crude-fiber content would indicate that the hulls might be used as a source for high-grade cellulose. The optimum conditions were determined for the production of cellulose from peanut hulls by the use of the soda method, the neutral sulfite method, and the sulfate method... There are collected annually at a few points in this country some 70,000 tons of peanut hulls available at a cost of \$4 to \$5 a ton, which might serve as a supplemental source for approximately 20,000 tons of alpha-cellulose." - Ed. note.

264. Moss, W.W. Processing the peanut. Food Indus. 8(3):123-125. March 1936. 389.8 F737
In addition to a detailed description of the process, there is a diagram showing each step which the peanut takes in becoming processed.
265. Oil, paint and drug reporter. Green book-buyers directory...1938-39. 988pp. New York, Oil, Paint and Drug Reporter, Inc. [c.1938]. 225 0i5 1938/39
Peanut cake, peanut meal, and peanut oil, p.528, and peanut oil acid, pp.528-529.
266. Peanut flour. Mfrs. Rec. 99(6):76. Feb. 5, 1931. 297.8 M31
"A new peanut product is being developed as a result of chemical research, according to the December issue of the Industrial Bulletin issued by Arthur D. Little, Inc., Cambridge, Mass. The new product is a flour, so-called, which mixed in proper proportions with wheat flour, gives a bread or cake that contains a large proportion of digestible protein...
"Some 260 different products, most of them not yet on a commercial basis, are reported to have been developed from the peanut, its shells and skins...
"All these activities have resulted in the establishment of the peanut growing industry as one of the important farming industries of the South."
267. Reed, J.B. By-products from crushing peanuts. U.S. Dept. Agr. Bull. 1096, 12pp. Washington, D.C., Aug. 12, 1922. 1 Ag 84B
Describes the various processes for crushing peanuts, and the products obtained from crushing, and gives definitions of peanut products. These products are peanut-oil cake, peanut-oil meal, and unhulled peanut-oil feed.
268. Science raises the lowly peanut to eminence. Current Opinion 75(1): 92-93. July 1923. Libr. Cong. AP2.C95
An account of the uses which Dr. George W. Carver, of Tuskegee Institute, has found for the peanut, and which have resulted in "returning a profitable money crop to thousands of acres of unprofitable farmland in the southern states." Peanut milk, in particular, is described.
269. Siri, Ricardo J. El cacahuete - sus múltiples usos - su industrialización. La Hacienda 32(5):174-175. May 1937. 6 H11
A discussion of the uses of the peanut in the United States and its industrialization. Uses include those for peanut cake (the residue remaining from oil extraction), peanut butter, peanut meal, peanut shells, and peanut oil.
270. Washington Carver, genio milagroso de la ciencia, sirve a la humanidad. Revista de Agricultura, Industria y Comercio [Puerto Rico] 31(2):

286-288. April-June 1939. 8 R325

Reprinted from "Aqui Está" April 1938.

The story of the life and work in developing uses for the peanut of George Washington Carver of Tuskegee Institute.

271. Yanovsky, E. Extraction of hemi-celluloses from plant materials; quantitative study. Indus. and Engin. Chem. 31(1):95-100. January 1939. 381 J825

Literature cited, p.100.

"This paper gives results of the extraction of three typical farm and factory waste materials with various concentrations of acid and alkali at several different temperatures." These are beet pulp, rice hulls, and peanut shells.

Feed

272. Barnett, E., and Goodell, C.J. Grazing and feeding trials with hogs. Miss. Agr. Expt. Sta. Bull. 218, 32pp. State College, 1923.

The results of grazing trials with peanuts are to be found, pp. 6-7; and in the study on protein supplements with corn for fattening hogs, pp.15-17, results are included for a lot fed corn and peanut meal.

273. Bryant, Reece L. The use of peanut meal as a source of protein in starting mashers for chicks. Va. Agr. Expt. Sta. Bull. 281, 13pp. Blacksburg, 1931.

"Since protein concentrates are, with relation to grain prices always high in price per pound, the poultry-man is naturally interested in all of the available sources of protein feeds in order that he may be able to take advantage of price differentials. Virginia produces annually about 140,000,000 pounds of peanuts valued at \$6,000,000. It is estimated that from this crop there is produced approximately 12,000,000 pounds of peanut meal. This meal constitutes a fresh, readily available, and cheap source of protein to the farmers and poultrymen of the state provided that it is suitable for poultry feeding. It was to aid in determining the value of peanut meal in chick rations that the following experiments were conducted."

Table 10, p.12, gives a summary of weight, mortality, and cost of feed for producing one pound of chicks in each lot of all trials.

274. Burns, John C. Rations for fattening steers. Tex. Agr. Expt. Sta. Bull. 263, pp.3-19. College Station, 1920.

"The steer feeding tests reported in this bulletin are those conducted at this Station in 1916-17 and 1919-20." - p.[3].

"Choice peanut meal proved fully equal to cotton seed meal in respect to the production of gain, but apparently was less palatable. 2. Ground-whole pressed peanuts were not so satisfactory

as cold-pressed cotton seed either in the production of gain or in the palatability. 3. Neither peanut meal nor ground-whole pressed peanuts caused any bad effects on the quality of the carcass..." - Summary, p.19.

275. Cottier, G.J., and King, D.F. The supplemental value of peanuts to the chick and laying rations. Ala. Agr. Expt. Sta. Rept. (1937) 48:24. Auburn [1938?]

"The object of this experiment was to study the effect of peanut products on interior egg quality... No correlation existed between the amount of fat in the feed and associated measurements of interior quality of eggs. Incubated eggs had slightly higher readings than eggs not incubated."

276. Eddy, Walter H., and Eckman, Rena S. The supplementary protein value of peanut flour. Jour. Biol. Chem. 55(2):119-129. February, 1923. 381 J824

"When the protein-supplementing power of peanut flour is compared with that of muscle protein by feeding rations so constituted as to contain only about 10 per cent of protein, 6 to 7 per cent of this protein being contributed by wheat flour and the rest by peanut flour or meat residue, respectively, and when these rations are further supplemented with 3 per cent of butter fat, 4 per cent salts, and brought to nearly equal calorie value per gram, the peanut flour proves slightly superior to the meat as a growth producer and markedly superior for promoting reproduction..." - Summary, pp.128-129.

277. Ellis, N.R. Changes in quantity and composition of fat in hogs fed a peanut ration followed by a corn ration. U.S. Dept. Agr. Tech. Bull. 368, 14pp. Washington, 1933. 1 Ag84Te

"Two groups of hogs averaging approximately 100 pounds and 40 pounds in initial weights were compared in a study of the quantitative relationship of storage of fat to firmness as influenced by the use of peanuts and of corn in successive feeding periods..."

"Analyses of fat samples showed marked decreases in saturation as a result of peanut feeding and an increase in saturation or firmness after the feeding of the corn ration..."

278. Foster, J.E., and Hostetler, Earl H. Comparison of protein supplements for fattening pigs. N.C. Agr. Expt. Sta. Tech. Bull. 56, 84pp. Raleigh, 1938.

Literature cited, pp.82-84.

"This bulletin is based upon a thesis presented by J.E. Foster in August, 1937 to the Faculty of the Graduate School of Cornell University in partial fulfillment of the requirements for the degree of Doctor of Philosophy."

"The broad subject of protein supplements for fattening pigs is presented in this bulletin in two phases, both of which should be of interest and value to swine feeders:

"The subject matter includes:

"(1) A brief summary of previous investigations, and

"(2) A report of a series of experiments and studies conducted by the authors from January 1928, to September 1937, in which various protein supplements for fattening pigs were compared. This report includes in addition a few similar tests conducted by Earl H. Hostetler at the North Carolina Station from 1924 to 1928. The average of the summaries of the various trials are given in the bulletin proper and the summaries of each individual trial are given in the appendix."

"Peanut oil meal studies. Fish meal produced more rapid gains on less feed and at less cost than peanut oil meal and returned \$1.34 more per pig over feed cost. The mineral requirement was also greater in the peanut oil meal group. In feed replacement each 100 pounds of peanut oil meal replaced only approximately 43 pounds of shelled corn and 32 pounds of fish meal. Here, as with the soybean oil meal, the peanut oil meal was very palatable and the pigs ate considerably more of it than would have been required to furnish sufficient quantity of protein. Their consumption of it was nearly three times that of the fish meal in the check group and the crude protein eaten nearly twice that in the check group." - Summary, p.40.

279. Fraps, G.S. Digestion experiments. Tex. Agr. Expt. Sta. Bull. 291, 16pp. College Station, 1922.
Peanut hulls, p.13, has a line on the results of digestion experiments with these hulls.
280. Fuller, F.D. Commercial feeding stuffs. Tex. Agr. Expt. Sta. Bull. 268, 233pp; College Station, 1920.
Standards and definitions for peanut products are given on p.14.
281. Georgia. Coastal plain experiment station. Beef cattle. Ga. Coastal Plain Expt. Sta. Rept. (1936-37) 17:46-64. Tifton [1937?]
Includes summaries of the results of feeding tests upon steers, which were divided into lots A to F, and H, J and K. Lots B, C and D represent a comparison of velvet beans, cottonseed meal and peanut meal as a source of protein in dry lot rations, and lot E were fed ground snapped corn, cottonseed meal and peanut hay. Peanut hay was used in the diet of lots H, J and K which was to compare blackstrap molasses and corn in the fattening ration.
282. Georgia. Coastal plain experiment station. Dairy cattle. Ga. Coastal Plain Expt. Sta. Rept. (1936-37) 17:69-71. Tifton [1937?]
"During 1936 a study was made to determine the comparative value of cottonseed meal and peanut meal as a protein supplement in the ration of dairy cows."

283. Georgia. Experiment station. Corn, sorghum silage, and peanut hay for beef cattle. Ga. Expt. Sta. Rept. (1937-38) 50: 49. Experiment, 1938.
"An experiment was conducted to determine the comparative values of corn and sorghum silage and No. 1 Spanish peanut hay as roughages for fattening beef cattle. This test covered a period of 112 days, starting November 3, 1937...Lot I received silage, Lot II, the check group, cottonseed hulls, Lot III peanut hay ground, Lot IV peanut hay unground. Lot III, receiving ground peanut hay, gave the highest average daily gain per steer and the lowest average feed cost per pound gain...Results from the four lots are summarized in Table XV [p. 50]."
284. Georgia. Experiment station. Cottonseed meal and peanut meal for beef cattle. Ga. Expt. Sta. Rept. (1935-36) 48: 17. Experiment, 1936.
Gives the results of a test in which three lots of cattle were fed as a protein supplement, cotton seed meal alone, cottonseed and peanut meal, and peanut meal alone. Under "conditions of the test, the peanut meal was best as regards gains and economy."
"A comparison of peanut meal and cottonseed meal for fattening cattle" reports tests begun Nov. 3, 1937, and is to be found in Ga. Expt. Sta. Rept. (1937-38) 50: 49-50.
285. Georgia. Experiment station. Peanut feed for dairy cows. Ga. Expt. Sta. Rept. (1921) 34: 9; (1922) 35: 9. Experiment, 1921-22.
286. Georgia. Experiment station. Peanut hay for fattening beef cattle. Ga. Expt. Sta. Rept. (1936-37) 49: 22-23. Experiment, 1937.
Gives the results of tests with peanut hay and cowpea hay in which it was found that the peanut hay was less efficient than the cowpea hay.
287. Georgia. Experiment station. Peanut meal for swine. Ga. Expt. Sta. Rept. (1936-37) 49: 25-26. Experiment, 1937.
"An experiment was conducted to determine the possibilities of peanut meal as a fattening feed for swine." The test was repeated and reported in the Report (1937-38) 50: 51-52.
288. Georgia. Experiment station. Protein supplements for swine. Ga. Expt. Sta. Rept. (1932) 45: 27-28. Experiment, 1932.
Summarizes results of tests showing feed consumed per head daily, average daily gain per head, and total daily feed cost per head, for each of three lots of hogs getting 1) tankage as protein supplement, 2) tankage and cottonseed meal for protein supplement, and 3) tankage and peanut oil meal for protein supplement.
289. Georgia. Experiment station. Roughages for fattening beef cattle. Ga. Expt. Sta. Rept. (1932) 45: 29-30. Experiment, 1932.
Summary of the results of steer feeding tests carried on in cooperation with the U. S. Bureau of Animal Industry and Swift and company of Moultrie, Georgia, whose purpose was to compare alfalfa hay, cowpea hay, peanut hay and cottonseed hulls as

roughages for fattening the cattle. It is pointed out that the cattle receiving peanut hay showed the greatest profit.

290. Georgia. Experiment station. Toxicity of peanut meal for swine. Ga. Expt. Sta. Rept. (1937-38) 50:64. Experiment, 1938.

"Feeding peanut meal to swine at high levels for several days results in a severe toxicity or illness and sometimes in the death of the animal. Preliminary results of an investigation of this problem indicate that the effects are due, at least in part, to the comparatively high potential benzoic acid content of peanut meal..."

291. Gill, Augustus H. and Vaala, Gordon T. Do peanut or arachis nut fed hogs yield lards containing arachidic acid? Science (n.s.) 74 (1926):548. Nov. 27, 1931. 470 Sci2

"Five hundred grams of lard, obtained from a famous Virginia producer of hams made from peanut-fed hogs, were saponified and treated to obtain arachidic acid by the well-known method of Renaud modified by Tolman. The resulting fatty acids were changed to their methyl esters and distilled in vacuo. Two fractions were obtained, one on recrystallization gave an acid which melted at 61° corresponding to palmitic acid, and another on acid melting at 67°-69° indicating stearic acid. No trace of a high boiling methyl arachidate was found."

292. Godbey, E.G., and Starkey, L.V. Dry lot rations for fattening hogs. S.C. Agr. Expt. Sta. Bull. 281, 15pp. Clemson College, 1931. References, p.14.

One of the objects of the experiment described in this paper is "To compare soybean meal, cottonseed meal, and peanut meal when used as one-half of the protein supplement for fattening hogs in dry lot." In the summary it is said that "A mixture of equal parts of fishmeal and peanut meal produced a faster gain than fishmeal alone but the gain was more expensive."

293. Godbey, E.G., and Durant, A.L. Protein supplements to corn in dry lot for fattening pigs. S.C. Agr. Expt. Sta. Bull. 234, 14pp. Clemson College, 1926.

"3. Corn and soybean oil meal produce faster and more economical gains than corn and peanut oil feed (with hulls). 4. A combination of plant and animal proteins is a more efficient supplement to corn than either of these supplements fed alone. 5. The addition of peanut oil feed (with hulls) to a ration of corn and fish meal reduces the cost of producing pork but does not increase the rate of gain." - Conclusions, pp.13-14.

294. Goff, Ollia E., and Penquite, Robert. Cottonseed meal and peanut meal have a place in baby chick feeds in South. Okla. Agr. Expt. Sta. Bienn. Rept. 1930/32:112-115. Stillwater [1932?]

"Details of the peanut meal trials are in the thesis of Elmo Hendrickson which was accepted for his M.S. degree in June, 1932."
[Copy in Agricultural and Mechanical College Library.]

"These results are that peanut meal can replace either the meat scraps, corn gluten meal or dried buttermilk in the rations used with no detrimental results."

295. Grimes, J.C. Peanut hay as a roughage for fattening steers. Ala. Agr. Expt. Sta. Rept. (1937) 48:17-18. Auburn [1938?]

"Peanut hay and cottonseed meal as used in this experiment gave very good results for fattening steers. The gains were considered very satisfactory in both the ground and unground hay lots. While the relationship of the price of feed to the price of cattle which existed during this experiment was more favorable to the cattle feeder than can usually be expected, the results suggest that farmers who raise peanut hay should be able to feed it to steers at a profit during the average year."

296. Grimes, J.C. Peanut hay for wintering beef breeding cows. Ala. Agr. Expt. Sta. Rept. (1937) 48:18-19. Auburn [1938?]

"In order to determine the value of peanut hay for wintering beef cows, 18 cows were divided into three lots of six cows each and fed as follows from December 4, 1936 to March 1, 1937, inclusive.

"Lot I. Peanut hay alone. Lot II. Peanut hay and one pound of cottonseed meal per head daily. Lot III. Sorghum silage and one pound of cottonseed meal per head daily (check)."

297. Grimes, J.C., and Salmon, W.D. Peanut meal as a protein supplement to corn for fattening hogs in the dry lot. Ala. Agr. Expt. Sta. Bull. 224, 16pp. Auburn, 1924.

"The objects of the several experiments reported in this bulletin were: 1. To determine the influence of peanut meal on the quality of pork. 2. To study the value of peanut meal as a supplement to corn for fattening hogs in the dry lot."

298. Grimes, J.C., and Burleson, G.L. Peanuts as a feed for hogs. Ala. Agr. Expt. Sta. Press Bull. 105, 2pp. Auburn, 1921. Off. Expt. Sta. Libr.

"The objects of this experiment were: 1. To determine the amount of picked runner peanuts required to produce 100 pounds of live pork. 2. To determine the relative feeding value of runner peanuts alone, peanuts with corn, peanuts with tankage, and peanuts with corn and tankage. 3. To test the influence of the foregoing rations on the carcasses of the hogs in the different lots."

299. Grimes, J.C., and Salmon, W.D. Peanuts for fattening hogs in dry lot. Ala. Agr. Expt. Sta. Bull. 223, 12pp. Auburn, 1924.

A description of an experiment the objects of which were:

"1. To determine the amount of picked runner peanuts required to produce 100 pounds of gain on fattening hogs in the dry lot. 2. To compare the relative feeding value of runner peanuts alone; peanuts and corn; peanuts and tankage; and peanuts, corn and tankage. 3. To test the influence of the above rations on the quality of the carcass."

Includes a section on the value of peanuts compared with corn and tankage at varying prices, pp.10-11.

300. Grinnells, C.D., and Moore, J.L. The comparative values of peanut and soybean hay for milk production. Assoc. South. Agr. Workers' Proc. 37-38 (1936-1937):235. 4 C82

This is a table showing digestible nutrients in peanut and soybean hay; the average feed consumed per unit of production (3 trials); the average feed consumed daily per cow (3 trials); average milk and butterfat produced daily per cow (3 trials); and average changes in body weight (3 trials).

301. Grinnells, C.D., and Moore, J.L. The comparative values of peanut and soybean hay for milk production. N.C. Agr. Expt. Sta. Bull. 312, 28pp. State College Station, Raleigh, 1937.

Bibliography, p.25.

Gives the results of three trials. In their discussion of the results, the writers point out that "In studying the preceding data, the quality of hays used should be kept in mind. Peanut hay of good quality was compared with soybean hay of like quality. Peanut hay of poor quality will not give the results herein reported. It is possible, however, to improve the quality of peanut hay by using greater care in harvesting and storing..."

"However, we should keep in mind that this study was made to determine the use that can be made of peanut hay as a by-product of the peanut industry.

"We do not think dairymen should turn away from other legumes and raise peanuts for their hay alone. Market conditions may at times, however, give one cause to consider utilizing part of the entire crop for feeding purposes. This is a problem which is now being studied."

302. Grinnells, C.D., and Moore, J.L. Peanut versus soybean hay for dairy cattle. Assoc. South. Agr. Workers' Proc. 37-38 (1936-1937):225. 4 C82

Abstract of paper.

"Three feeding trials have been conducted comparing peanut and soybean hay of equal quality. The double reversal system with three thirty-day periods was used."

303. Grinnells, C.D., Moore, J.L., and Nixon, L.M. Whole peanut plant studies, Central Station. N.C. Agr. Expt. Sta. Repts. (1936) 59:47; (1937) 60:63-64. Raleigh [1937-38?]

"This is a study of the entire peanut plant in the dairy ration. It is being made with the idea of determining the possibility of marketing a part of the peanut crop as feed for dairy cattle during years of over-production."

The second report is entitled: "Whole Peanut Plant for Dairy Cattle," by C.D. Grinnells and J.L. Moore.

304. Halverson, J.O., Hostetler, Earl H., and Sherwood, F.W. The value of peanuts for growing pigs. N.C. Agr. Expt. Sta. Tech. Bull. 41, 27pp. State College Station, Raleigh, 1931.

"The importance of the peanut as a feed for pigs and the paucity of data on its nutritive value for growth made it desirable to study the peanut feeding experiments conducted at this Experiment Station with these points in mind. Experiments at this Station, in coöperation with other State Experiment Stations and the Bureau of Animal Industry, have been in progress since 1920 in which peanuts have been used as a feed for pigs in the study of the soft pork problem. However, the data to be presented in this bulletin do not deal with the quality of pork produced from feeding peanuts, but on the other hand show the better utilization of peanuts when fed in combination with other feeds."

305. Hankins, O.G., and Zeller, J.H. Correcting the inefficiency of peanuts for growth in pigs. U.S. Dept. Agr. Tech. Bull. 110, 12pp. Washington, D.C., 1929. 1 Ag84Te

"The primary object was to study the hardening requirements of pigs having an initial weight of between 30 and 60 pounds when fed corn, tankage and minerals as a hardening ration following the peanut ration..."

"Very few pigs in the peanut-growing sections of the country are fed protein supplemental feeds with peanuts. The question arose as to whether the hog producer in the peanut-growing section was actually getting the best results from his method of feeding peanuts, or whether the addition of a protein supplement to the peanut ration for growing pigs would enable the feeder to make a more efficient use of peanuts. In order to determine this the series of three experiments reported in this bulletin was conducted."

306. Hankins, O.G., Ellis, N.R., and others. Some results of soft-pork investigations. U.S. Dept. Agr. Dept. Bull. 1407, 68pp. Washington, D.C., 1926. 1 Ag84B

"Conducted jointly by the United States Department of Agriculture and the Agricultural Experiment Stations of Alabama, Arkansas, Georgia, Indiana, Kentucky, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas."

"This bulletin is a report on the results of cooperative soft-pork investigations for a period of five years, from July 1, 1919 to June 30, 1924..." - p.ii.

Literature cited, pp.66-67.

Peanuts, pp.21-28, gives the results of cooperative efforts in feeding peanuts in various ways to hogs.

307. Henley, W.W. Comparison of various grazing crops with dry lot feeding for pork production. Fla. Agr. Expt. Sta. Rept. (1936):50. Gainesville [1936]
Hatch Project 136.
Gives results of tests using Spanish peanuts, plus sweet potatoes, Spanish peanuts alone, Spanish peanuts with corn, and corn alone. Earlier reports on this project which was completed February 1, 1936, are to be found in the Fla. Agr. Expt. Sta. Repts. 1932:53-54 (A.L. Shealy, leader); 1933:60-61; 1934:38 (W.W. Henley); 1935:51 (W.W. Henley).
State Project 136 is entitled "Comparison of Various Grazing Crops with Dry Lot Feeding for Pork Production." Fla. Agr. Expt. Sta. Rept. 1934:117.
Report of progress of a 5-year experiment under the same project is published as Supplement A. Comparison of the Gains Made by Swine on Various Grazing Crops at the North Florida Experiment Station, Quincy, in Fla. Agr. Expt. Sta. Rept. 1936:143. The experiment is under the leadership of L.O. Gratz. An earlier report is in the Annual Report 1935:134-136 (L.O. Gratz and R.M. Crown).
308. Henley, W.W. Fattening fall pigs for spring market. Fla. Agr. Expt. Sta. Rept. 1936:50. Gainesville [1936]
This is a progress report of 5-year experiments which included the feeding of peanuts, and which were concluded February 1, 1936. The project was State Project 160. Earlier reports are found in the Station Reports 1932:55-56 (A.L. Shealy, leader); 1933:63 (A.L. Shealy, leader); 1934:39-40 (W.W. Henley, leader); 1935:52 (W.W. Henley, leader).
There is also a report by L.O. Gratz and R.M. Crown in the Fla. Agr. Expt. Sta. Rept. 1935:136 entitled: Fattening Fall Pigs for Spring Market. Supplement A. and by L.O. Gratz in Rept. 1936: 143-144.
309. Holdaway, C.W., Ellett, W.B., and Harris, W.G. The comparative value of peanut meal, cottonseed meal, and soybean meal as sources of protein for milk production. Va. Agr. Expt. Sta. Tech. Bull 28, 54pp. Blacksburg, 1925.
Literature cited, p.43.
Experiments with Peanut Meal, pp.9-21. In this bulletin two methods were used to compare the products, and in both, peanut meal produced more milk protein from each pound of total crude protein than did soybean or cottonseed meal.
310. Jacob, M., and Duncan, H.R. A comparison of cottonseed meal, cottonseed meal and tankage, peanut oil meal, and soybean oil meal, fed with corn silage for fattening two-year-old steers. Tenn. Agr. Expt. Sta. Bull. 167, 7pp. Knoxville, 1938.

One of the objects of this experiment is "To compare peanut and soybean oil meals with cottonseed meal when each is fed in the same amount with silage for fattening 2-year-old steers." It is said in conclusion that "Peanut oil meal was somewhat less efficient in producing gains than the other supplements."

311. Jones, D. Breese, Finks, A.J., and Johns, Carl O. Nutritive value of mixtures of proteins from corn and various concentrates. U.S. Dept. Agr., Jour. Agr. Res. 24(11):971-978. June 16, 1923.
1 Ag34J

Literature cited, pp.977-978.

Includes experiments with corn and peanut meal. The following is said in partial summary:"From experiments in which the mixtures of corn meal and concentrates furnished 7.2 per cent of the protein, it is concluded from the gain in weight per gram of protein consumed, that the comparative growth-promoting value of the proteins of tomato seed, peanut and soy bean, as a supplement to corn proteins, is in order: Soy bean, peanut and tomato seed."

312. Kaupp, B.F., and Ivey, J.E. Digestible nutrients of poultry feeds as determined by laboratory feeding tests. Poultry Sci. 2(1):1-9. January 1922. 47.8 Am33P

Also in Natl. Poultry Jour. 3(137):454,455,456. January 19, 1923. 47.8 N218

This article contains a table showing the composition of poultry feeds in all analyses to date (including peanut meal with fat) and two Kaupp-Ivey tables showing the average digestion coefficients with poultry to date of feeds, and the digestive nutrients in 100 pounds of various feeds, including peanut meal with fat unextracted.

313. King, D.F., and Cottier, G.J. The supplementary value of peanuts to the laying ration. Assoc. South. Agr. Workers Proc. (1933-35) 34-36:593-593. 4 C82

Abstract of an address, describing the results of a project whose object was "to study the supplementary value of whole peanuts, ground peanuts with and without shells, and peanut meal in farm flock rations for laying hens. Four hundred Single Comb White Leghorn pullets, divided into 10 lots, were used."

314. King, D.F., and Cottier, G.J. The value of peanuts and peanut meal in rations for chickens. Ala. Agr. Expt. Sta. Circ. 80, 13pp. Auburn, 1937.

"In 1932 work was started at the Alabama Agricultural Experiment Station to determine the value of whole peanuts, ground peanuts with shells, ground peanuts without shells, and peanut meal in farm-flock rations for laying hens. After the completion of this work, the value of peanut products fed alone and in combination with meatscraps or buttermilk was determined for use in chick rations. Each of these experiments is presented separately in this circular."

315. Kirk, W.G. Deficiencies of peanuts when used as a feed for swine. Fla. Agr. Expt. Sta. Rept. 1937:61-62. Gainesville [1937]
State project 310.
"Most pigs raised in Florida are fattened on peanuts, which are deficient in certain mineral elements necessary for growth and the development of strong bones...
"The following table gives the rations fed, average daily gains and amount of peanuts required per pound of gain for both the 140 and 48-day periods."
Report of project continued in the Report for 1938, p.70.
An unnumbered project is reported in Fla. Agr. Expt. Sta. Rept. 1936:57, entitled "Deficiencies of Peanuts When Used as a Basal Ration for Swine", by W.G. Kirk. The account reads in part as follows:
"Growing hogs, pregnant and lactating sows fed entirely on peanuts for several months often develop a serious bone condition which results in posterior paralysis.
"Studies are being made to determine the cause of this condition and the means for correcting it."
316. Lindsey, J.B., Beals, C.L., Smith, P.H., and Archibald, J.G. Digestion experiment with cattle feeds. Mass. Agr. Expt. Sta. Bull. 216, pp.53-62. Amherst, 1923.
Peanut by-products, pp.60-61, describes a study made with peanut meal, peanut shells, and peanut skins. Tables give an analysis of these products, and their coefficients of digestability.
317. McCambell, C.W., and Aicher, L.C. Beef cattle investigations, 1935-36. The comparative values of eight protein supplements in stock cattle winter rations. Kans. Agr. Expt. Sta. (Fort Hays Substation) Twenty-Fourth Annual Cattlemen's Round-Up, Saturday, April 25, 1936. 4pp. Off. Expt. Sta. Libr.
Peanut oilmeal was included in the rations. No significant difference was found in this test in the feeding value of cottonseed meal, linseed meal, soybean oilmeal, peanut oilmeal, corn gluten meal, and tankage.
318. McCandlish, Andrew C., and Weaver, Earl. Coconut meal, gluten feed, peanut meal, and soybean meal as protein supplements for dairy cows. Jour. Dairy Sci. 5(1):27-38. January 1922. 44.8 J822
Bibliography, p.38.
"Old process linseed oil meal, peanut meal, soybean meal and gluten feed are probably of about equal value as protein supplements in the ration of the dairy cow...
"Coconut meal may have a higher value...
"In palatability the feeds studied rank as follows: linseed oil meal, soybean meal, gluten feed, peanut meal and coconut meal."

319. Mehrhof, N.R., Emmel, M.W., and Ward, W.F. A comparative study of the value of milk solids, ground peanuts with hulls, meat meal and fish meal in fattening broilers and fryers. Fla. Agr. Expt. Sta. Rept. 1938:160. Gainesville [1938]
State project 228.
Other reports of this study in Report for 1934, p.132; 1935, p.151; 1936, p.160; and 1937, p.183.
320. Mehrhof, N.R., Emmel, M.W., and Ward, W.F. The use of peanuts and peanut products in rearing turkeys. Fla. Agr. Expt. Sta. Rept. 1938:196. Gainesville [1938]
State Project 224.
Data are given for the third trial which was begun April 1937. Earlier reports on the same experiment were as follows: Fla. Agr. Expt. Sta. Repts. 1933:209. [West Central Florida Station], by E.F. Thomas, N.R. Mehrhof, and W.F. Ward; 1934:130; 1935:149-150; 1936:158; 1937:182; 1938:196, by Mehrhof, Emmel and Ward. The project as set up in 1934 kept records on weight, feed consumption, feed costs and mortality.
321. Miller, Robert F. Sesame meal vs. cottonseed meal and peanut meal for lambs. Amer. Soc. Animal Produc. Proc. (24)1931:223-226.
389.9 Am3R
322. Mitchell, Frank E., Bell, J.C., Boughton, Donald C., and Forney, W.B. Poultry research. I. Nutritional studies. Georgia Univ. Bull. 38 (10):56-59. June 1938. (Serial no.708) Off. Expt. Sta. Libr.
Section A, pp.56-58, gives the results of experiments substituting peanut meal for various quantities of meat scrap and fish meal in starting and laying rations.
323. Morris, Samuel, and Wright, Norman C. The nutritive value of proteins for milk production. II. A comparison of the proteins of blood meal, pea meal, decorticated earth-nut cake, and a mixture of decorticated earth-nut cake and flaked maize. Jour. Dairy Res. [London] 5(1):1-14. December 1933. 44.8 J823
"A new formula has been devised for calculating the relative biological values of different proteins for milk production. By applying this formula to the experiments reported in this and the previous price, the following biological values were found: Decorticated earth-nut cake plus flaked maize, 52; Decorticated earth-nut cake, 50." - Summary, p.13.
324. Morrison, F.B. Feeds and feeding. A handbook for the student and stockman, Ed. 20., unabr., 1050pp. Ithaca, New York, The Morrison pub. co., 1936. 389.7 M833 Ed.20.
"First to Ninth Editions by the late W.A. Henry...Tenth to Fourteenth Editions by W.A. Henry, assisted by F.B. Morrison. Fifteenth to Nineteenth Editions revised and rewritten by F.B. Morrison."

The book makes the following references to peanuts: Use of the peanut as feed, p.273; definitions of terms peanut oilmeal and cake and unhulled peanut oil feed, and gives their feed value for different animals, and uses for peanut hulls and skins, pp.373-375; peanut hulls used for bedding, p.419; peanut meal for horses, p.453, and peanut oilmeal and oil feed for hogs, pp.891-892.

325. Patten, A.J., Winter, O.B., Grettenberger, M.L., and O'Meara, P. Commercial feeding stuffs. Mich. Agr. Expt. Sta. Bull. 238, 75pp. East Lansing, 1920.
Contains definitions of peanut products, p.11.
326. Pickel, J.M. Commercial feeds, 1920. N.C. Dept. Agr. Bull. February 1921, 73pp. Raleigh, 1921. 2 N81B
Definitions of the terms peanut oil cake, peanut oil meal, unhulled peanut oil feed, and peanut meal and hulls are given, p.13, and analyses of peanut feeds, pp.64-67, 70-73.
327. Scott, John M. Soft-pork investigations. Fla. Agr. Expt. Sta. Rept. 1922:26-33. Gainesville [1922]
Table 4, p.30R, gives the results of soft pork studies, for 1921-1922, on Lot II, fed peanuts for 63 days.
328. Shealy, A.L., and Gratz, L.O. A comparison of sorghum silage, peanut hay, and cottonseed hulls as roughages for fattening steers. Fla. Agr. Expt. Sta. Bull. 320, 10pp. Gainesville, 1938.
"It is observed...that there was little difference in the feeding value of sorghum silage, peanut hay and cottonseed hulls as roughages in the rations of steers on the basis of average daily gain.
"Since the feeding value of...[these feeds] is approximately the same, the cost of these roughages should determine which should be used in the rations of steers...There is considerable variation in the grade of peanut hay, depending upon the rainfall during the curing period. The price of peanut hay varies with the grade and amount produced annually."
329. South Carolina. Agricultural experiment station. Hogging down peanuts, sweet potatoes, and corn at the Pee Dee Station. S.C. Agr. Expt. Sta. Rept. (1926)39:53-54. Clemson, 1926.
Repetition of a test started the previous year (Rept.(1925)38:90), which contains a table showing average daily gain in pounds and cost per hundred pounds gain of hogs fed, among other things, peanuts alone hogged down, peanuts hogged down plus 2% corn, peanuts hogged down plus 2% corn and tankage.
330. Steanson, O., Massey, Z.A., and Elrod, J.C. Hogs in Georgia, with special reference to production in the peanut area. Ga. Expt. Sta. Bull. 198, 44pp. Experiment, 1938.

Feed resources, pp.10-14, has a brief description of peanut production. The statement is made that "peanut production, which is poorly adapted to north Georgia soils, is the big factor that gives south Georgia the advantage in hog production over all other parts of the state. In studying the production of peanuts several considerations must be kept in mind - the type of peanuts, the method of planting and the method of harvesting."

331. Templeton, George S. Improving the quality of peanut fed hogs by finishing in dry lot on corn and tankage; corn and cotton seed meal; corn and velvet beans. Ala. Agr. Expt. Sta. Bull. 213, pp.81-96. Auburn, 1920.

Report of a series of three experiments.

332. Texas. Agricultural experiment station. Swine feeding experiments. Tex. Agr. Expt. Sta. Bull. 305, 41pp. College Station, 1923.

Experiment IV, pp.28-35, is entitled: Peanut Grazing and Self-Feeders for Fattening Pigs, by G.R. Warren. "The principal objects of this experiment were: 1. To determine the firmness of pork produced by finishing pigs sixty days on the rations given herein. 2. To determine whether cottonseed meal can be safely fed for sixty days with milo chops in a free-choice self-feeder. 3. To determine the proportion of cottonseed meal, tankage, or peanut meal that swine will consume when fed with milo chops or corn chops in a free-choice self-feeder."

333. Tomhave, A.E. Soybean meal and ground soybeans as protein supplements for dairy cattle. Del. Agr. Expt. Sta. Bull. 148, 19pp. Newark, 1927.

Reference to literature, p.19.

These tests compare soybean meal and ground soybeans with peanut meal. The conclusions are as follows:

"1. Soybean meal when fed with a basal ration of 200 pounds hominy, 200 pounds bran and 5 pounds of salt, in such proportion as to give a mixture with a nutritive ratio of 1:3.52, was found to be about 3 per cent less efficient than peanut meal. 2. Soybean meal gave as good physiological results as peanut meal. 3. When peanut meal is selling for \$50.00 per ton, soybean meal is worth \$53.00 per ton. 4. When substituted pound for pound, ground soybeans were found to be about 2 per cent less efficient than peanut meal for milk production... 6. Ground soybeans gave better physiological results than peanut meal. 7. When peanut meal is worth \$50.00 per ton, ground soybeans are worth \$49.00 per ton for dairy cows."

334. Woodward, T.E., Converse, H.T., Hale, W.R., and McNulty, J.B. Values of various new feeds for dairy cows. U.S. Dept. Agr. Bull. 1272, 16pp. Washington, D.C., 1924. 1 Ag84B

One of the tests compared peanut feed with cottonseed meal, and it was found that "Peanut feed containing 27.25 per cent crude

protein possesses a nutritive value not exceeding 74 per cent of that of prime cottonseed meal. It is thought that the protein content affords a fairly reliable guide in estimating the value of this feed in comparison with cottonseed meal."

Nutritive Value

335. Ascham, Leah. Peanut meal: food value and uses. Ga. Expt. Sta. Bull. 195, 18pp. Experiment, 1936.
336. Coward, Katharine Hope, and Drummond, Jack Cecil. Researches on the fat-soluble accessory substance. IV: Nuts as a source of vitamin A. Biochem. Jour. 14(5):665-667. October 1920. 382 B52
"The nuts examined, Brazil, Barcelona, pea, walnuts, almonds, and butter nuts, although containing large percentages of fats, possess a relatively low food value as sources of the vitamin A often associated with fats." - conclusions.
337. The food value of the peanut. Amer. Fert. 52(7):64-65. March 27, 1920. 57.8 Am3
338. Food value of peanut have increased its popularity. Hygeia 11(1):84. January 1933. 449.8 H993
"The food value of the peanut is exceptional, for it has a high protein, fat and vitamin B content."
339. Fraps, G.S., and Treichler, Ralf. Vitamin A content of foods and feeds. Tex. Agr. Expt. Sta. Bull. 477, 34pp. College Station, 1933. References, pp.31-34.
Table 3, pp.13-18, includes the approximate number of units of vitamin A in peanut meal.
340. Great discovery that peanut is a complete protein possessing the vitamins of eggs and milk. Fla. Dept. Agr., Fla. Quart. Bull. 31(2): 12-17. April 1921. 2 F66M
"It is most comforting and reassuring to know that in the peanut, and we may add the soy bean, we have crop foods by means of which in a single season, through the organized effort in the farming communities of the Southern and Southwestern States, a sufficient amount of fat and proteins could be produced to more than equal our annual production of meat and animal fats."
This general article is made up of four notes, the first of which, pp.12-14, is taken from the Good Health Magazine. The second is entitled Lowly Peanut Heads List, pp.14-15, showing the value of peanuts per acre in the producing states compared with cotton, corn, wheat and oats. The third is entitled: The Nutritive Value of Peanut Hay, p.15; and the last, Peanuts, by Frank Crane, pp.16-17. In this the food value, relative cheapness, and acreage yields of peanuts are indicated.

341. Holmes, Arthur D. Digestibility of steam-cooked soy beans and peanuts. Amer. Med. Assoc. Jour. 74(12):798-801. March 20, 1920. 448.9 Am37 also in Pam.Coll. 389.1 H
"The results of the investigation, considered in connection with the previously reported data regarding the nutritive and biologic values of these two legumes, gives evidence to justify the belief that soy beans and peanuts are especially valuable for human food, as compared with other legumes that have been studied with the same thoroughness."
342. Johns, Carl O., and Finks, A.J. Studies in nutrition. IV. The nutritive value of peanut flour as a supplement to wheat flour. Jour. Biol Chem. 42(3):569-579. July 1920. 381 J824
Bibliography, p.579.
Gives the results of experiments on albino rats, which showed that "4. The proteins in the peanut bread were utilized almost twice as well as those contained in the wheat bread."
343. Jones [i.e. Johns], Carl O., and Finks, A.J. The nutritive value of peanut flour as a supplement to wheat flour. Peanut Promoter 3 (12):71-75. November 1920. 77.8 P31
Bibliography, p.75.
344. Jones, D. Breese. Peanuts a valuable food for man and feed for livestock. U.S. Dept. Agr. Yearbook 1927:503-504. Washington, 1928. 1 Ag84Y
Emphasizes the nutritive value of the peanut.
345. Kline, O.L., Bird, E.R., Elvehjem, C.A., and Hart, E.B. The distribution of vitamin B₄ in some plant and animal products. Jour. Nutrition 12(5):455-460. Nov. 10, 1936. 389.3 J82
Literature cited, p.460.
Peanuts are included among the other products.
346. Little, Arthur D., Inc. Peanut products. Arthur D. Little, Inc., Industrial Bull., no.48, p.[1]. December 1930. Libr. Cong. T21.L5
Describes a new peanut flour, which is recommended for use in the diet of diabetics, and which might provide vitamins and digestible protein in the diet of the poorer classes of the South.
347. Neale, Margaret Kennedy Mumford. The composition of peanut meal and its uses as a diabetic food. Amer. Dietet. Assoc. Jour. 2(2):73-85. September 1926. 389.8 Am34
"Submitted to the Faculty of the Ogden Graduate School of Science in Candidacy for the degree of Master of Science, Department of Home Economics, University of Chicago, 1920."
"The purpose of this thesis is to study the value of peanut meal as a food for diabetics. Detailed analyses of the meal, especially of the carbohydrate, are included, and also recipes for

various foods made from it with discussion of the amount of carbohydrate available from them."

348. Pien, Jina Hsueh Chin. Biological value of the proteins of mung bean, peanut, and bean curd. Chinese Jour. Physiology 4(4):431-436. November 1930. 447.8 C44
"The biological values of the proteins of mung bean, peanut and soy bean curd are 58, 59 and 65, respectively. The coefficient of digestibility of mung bean, peanut and soy bean curd are 86, 95 and 96, respectively."
349. Schneider, B.H. Studies of fecal nitrogen will help evaluate food. Ill. Agr. Expt. Sta. Rept. (1933)46:76-77. Urbana, 1933.
Project 406. Animal Husbandry.
It is found that peanut protein is less nutritious than beef protein.
350. Sherwood, F.W., and Halverson, J.O. Distribution of Vitamin B complex and its components in the peanut. U.S. Dept. Agr., Jour. Agr. Research 44(11):849-860. June 1, 1932. 1 Ag64J
Abstract in Amer. Jour. Public Health 22:1004. September 1932. 449.9 Am3J
"Read before the biological section of the American Chemical Society at the Atlanta, Ga., meeting, April 8, 1930." - Note.
Literature cited, pp.859-860.
"Commercially blanched peanut splits (cotyledons), hearts (plumules and hypocotyls), and red skins (seed coats), and the corresponding raw products from selected Virginia Runner peanuts were tested for the presence of vitamin B complex by a method which does not differentiate between the components, but in general favors the detection of the antineuritic fraction.
"The raw red skins were found to contain the highest concentration of vitamin B complex, but there are appreciable quantities present in the hearts and splits.
"The process of commercial blanching (heating in oil for a short time at approximately 300° F.) destroys a large part of the vitamin present in the outer exposed red skins but does not have so marked an effect on that in the hearts and splits."
351. Sherwood, F.W., and Halverson, J.O. Vitamin G in peanut meal. N.C. Agr. Expt. Sta. Rept. (1933) 56:45. Raleigh [1934?]
Three of the samples of peanut meal tested contained from 12 to 15% as much vitamin G as does yeast; the fourth contained nearly 25% as much as yeast.
352. Wheeler, G.A., and Hunt, D.J. The pellagra-preventive value of green onions, lettuce leaves, pork shoulder, and peanut meal. U.S. Treasury Dept. Pub. Health Repts. 49(25):732-736. June 22, 1934. 151.65 P96
References, p.736.
Among the conclusions, it is said that "Peanut meal is a good source of the pellagra-preventive factor."

Peanut Butter

353. Baird, R.O. Commercial feeding stuffs: analysis of peanut butter. N.D. Office of State Food Contr. & Chemist, Bull. 3, Spp. Fargo, 1923. 389.9 N814
"The large spread in the price of the various brands of Peanut Butter suggested to the writer that an adulteration might be found in this food product. Fifteen samples of Peanut Butter were purchased by the Food Inspectors representing the different brands placed on the market in North Dakota...
"Extraction was also made of the oil and a determination made of the Refractive Index and Iodine Number."
354. Beattie, W.R. Making and using peanut butter. U.S. Dept. Agr. Circ. 384, 14pp. Washington, D.C., 1936. 1 Ag84C no.384
Supersedes U.S. Dept. of Agriculture, Bureau of Plant Industry, Circular 98, Peanut butter, by W.R. Beattie; and U.S. Dept. of Agriculture, Department Circular 128, The Manufacture and Use of peanut butter.
Includes passages on the development of the peanut butter industry, the commercial manufacture of the product, stock, factory and equipment, bottling and packing, the home manufacture of peanut butter, and food value and ways of using it.
355. La elaboración de manteca de cacahuete. La Hacienda 25(5):204-205. May 1930. 6 H11
Describes the manufacture of peanut butter and places its annual consumption in the United States at 25,000,000 lbs.
356. Grohens, Albert P. History and development of the peanut butter industry. Spice Mill 43(6):976, 978-980. June 1920. 389.8 Sp4
357. The growth of the peanut butter industry in the United States. Spice Mill 44(5):897-898, 900. May 1921. 389.8 Sp4
"Courtesy of Export American Industries."
Includes process of making the butter.
358. Kuentz, L. L'industrie du beurre d'arachide aux États-Unis. La Nature 52(pt.2) (2627):92-95. Aug. 9, 1924. Libr. Cong. Q2.N2
A description of the processes involved in the manufacture of peanut butter in the United States.
359. Manufacture of peanut butter. Canad. Chem. and Metall. 18(4):80. April 1934. 381 C16
The various steps in the process are described, as well as the food value of the product.
360. Peanut butter manufacture. Spice Mill. 44(10):1850-1854; (11):2118-2120. October, November 1921. 389.8 Sp4

"This exhaustive essay forms the introductory chapter in a catalog on peanut machinery issued by a leading firm of manufacturers and engineers." - Ed. note.

361. U.S. National recovery administration. Code of fair competition for the peanut butter industry, as approved on April 4, 1934. Includes Amendment no.1. pp.55-70. Washington, Govt. print. off., 1934. 173.2 N210
At head of title: Approved Code No. 378... National Recovery Administration. Registry No. 136-02.

Includes the Order approving Code of Fair Competition for the Peanut Butter Industry, the Report to the President on the Hearing of the Code, and the Code itself.

Rulings are laid down for hours, wages, general labor provisions, organization, powers and duties of the Code Authority, prices and discounts, unfair trade practices, monopolies, and price increases.

362. Wikoff, Helen L., Busey, Maribodine, and Kaplan, A.M. Analytical constants of peanut butter. Indus. and Engin. Chem. 26(5):291-292. March 1934. 381 J325

"Although peanut butters have been manufactured for a number of years, little information concerning their analytical constants is available. No standards for the composition of peanut butter have been established by the Government. Therefore a study of the analytical constants of samples purchased on the market was made to determine whether variations exist between products prepared by different manufacturers and whether adulterations can be readily detected."

Peanut Oil

363. American farm bureau federation. Interchangeability of oils and fats. Report. 71st Congress, 2d sess., Senate doc. 82, 115pp. Washington, Govt. print off., 1930. Pam. Coll.

"Prepared by W.R. Ogg... in collaboration with G.S. Jamieson..." - p.ii.

"This investigation is confined to one general purpose, namely, to ascertain the extent and the possibilities of substitution and interchangeability among oils and fats for various uses.

"In order that the data obtained might be as authoritative and reliable as possible, diligent search has been made through the published findings of the most eminent authorities in the field of oil chemistry and technology..." - pp.5-6.

Peanut Oil (Arachis Oil), pp.30-33. The uses are given as being for edible purposes, soap making, as a burning oil, and in the manufacture of rubber substitutes.

364. Bailey, Herbert S. What of our peanut oil industry? Reached its peak in 1919 - 87,000,000 pounds produced that year may not be duplicated soon. Amer. Food. Jour. 16(6):9-10. June 1921. 339.8 Am33

"To maintain a peanut oil industry we must have an assured

supply of peanuts as few crushers can afford to go into the business unless they can count on sufficient raw material to supply any demand they may create for peanut oil. Without the oil mills the peanut growers are restricted to a comparatively narrow outlet for their peanuts and the shellers must either install oil presses or dispose of their by-products at a very low price. Perhaps most important of all to the ultimate consumer, the existence of peanut oil mills guarantees to him better grades of whole peanut products at more reasonable figures than if there were no outlet for the poorer grades."

365. Coleman, D.A., and Fellows, H.C. A simple method for determining the oil content of seeds and other oil-bearing materials. U.S. Dept. Agr. Tech. Bull. 71, 14pp. Washington, D.C., 1928. 1 Ag84Te
The method may be used for determining the oil content of peanuts.
366. Deuel, Harry J., Jr., and Holmes, Arthur D. Digestibility of cod-liver, Java-almond, tea-seed, and watermelon-seed oils, deer fat, and some blended hydrogenated fats. U.S. Dept. Agr. Bull. 1035, 15pp. Washington, D.C., 1922. 1 Ag84B
Gives the results of experiments with blended peanut fats, pp.12-13. Figures are given for the digestibility of the entire ration in which the fat was used and the digestibility of the blended peanut fat alone.
367. Dewees, Anne. Fats, oils, and oleaginous raw materials - production, price, trade, disappearance in the United States 1912-35 and available data for earlier years. U.S. Dept. Agr. Statis. Bull. 59, 123pp. Washington, D.C., May 1937. 1 Ag84St
Includes peanut oil.
368. Haslett, Robert R. Demand widens for coconut and peanut oils. N.Y. Daily Investment News, April 30, 1936, p.6. Pam. Coll.
369. Holman, Charles W. The tariff on oils and fats; brief of Charles W. Holman and associates representing allied agricultural organizations and independent crushers of oil materials, before the Committee on Ways and Means of the United States House of Representatives. In regard to changes of rates of duties on vegetable, animal and fish oils, fats and greases, and the raw materials from which any of them are derived, now included in Paragraphs 53, 54, 55, 57, 58, 701, 703, 760, 1626, 1630, 1632, and 1691 of the Tariff act of 1922. 107pp. [Baltimore, the Lord Baltimore Press, 1929] 285 H73
Table 1, pp.3-7, shows proposed rates and comparison with rates in the Tariff Act of 1922, including those for peanut oil; Table 2, pp.8-12, gives specific rates per unit computed as 45 per cent of average unit prices as determined by declared invoice values of

imports for consumption for fats and oils, including peanut oil, 1927; Table 15, p.33, has figures for use of domestic peanut oil 1916 to 1928 annually. (Source Reports of U.S. Bureau of Internal Revenue summarized by U.S. Department of Agriculture.)

370. Holmes, Arthur D., and Deuel, Harry J. Digestibility of some hydrogenated oils. Amer. Jour. Physiol. 54(3):479-488. Jan. 1, 1921. 447.8 Am3

Bibliography, pp.487-488.

"The present paper reports a series of digestion experiments with hydrogenated cottonseed, peanut and corn oils in which the entire sample was subjected to the hydrogenation process."

371. Jamieson, George S. Vegetable fats and oils. The chemistry, production and utilization of vegetable fats and oils for edible, medicinal and technical purposes. 444pp. New York, The Chemical Catalog Co., Inc., 1932. (American Chemical Society, Monograph Series.) 307 J24

Consult index under Peanut Oil for such things as characteristics, expression, tests and uses of peanut oil, grades and neutral oil content of the crude oil, grades for refined oil, and refining method; and under Peanuts for references to the history of the peanut (introduction into America, Africa and China), its oil content, uses for the shells, and yield of oil and cakes.

372. Koehne, Martha, and Mendel, Lafayette B. The utilization of fatty oils given parenterally. Jour. Nutrition 1(5):399-443. May, 1929. 389.8 J82

Data taken from a dissertation submitted by Martha Koehne to the Graduate School of Yale University.

Bibliography, pp.442-443.

"That the adult rats may be able to utilize some of the peanut oil administered parenterally is indicated by experiments in Series C, D, and E."

373. Lund, Charles E. Fats & oils trade of the United States in 1938. 28pp., processed. [Washington] U.S. Dept. of Commerce, Bur. of Foreign and Domestic Commerce, [February 1939.] 157.55 F26 1938

There are the following statistics in this bulletin: imports of peanut oil into the United States, 1938, 1937 and 1932/36; imports of peanut oil by country of shipment, 1936, 1937 and 1938; and average yearly prices of peanut oil, 1930-1938, and wholesale prices of crude peanut oil, monthly, 1937 and 1938.

Similar statistics are given in these earlier publications by the author: Fats and Oils Trade of the United States in 1937. 157.55 F26; and 1936 Review of vegetable and competing oils. 157.55 R322

374. McAmis, Ava Josephine, Anderson, William E.; and Mendel, Lafayette B. Growth of rats on "fat-free" diets. Jour. Biol. Chem. 82(2):247-262. May, 1929. 381 J824
Contains graphs illustrating growth of rats on a "fat-free" diet with a concentrate of cod liver oil and peanut oil and growth on the diet with peanut oil alone.
375. Peanut oil. Amer. Food Jour. 15(3):19. March 1920. 389.8 Am33
A description of the three types of peanut oil - virgin oil, crude oil, and refined or neutralized oil - found on the American market, and the methods of producing the virgin and crude oils.
376. Thompson, H.C., and Bailey, H.S. Peanut oil. U.S. Dept. Agr. Farmers' Bull. 751, 18pp., rev. Washington, 1920. 1 Ag84F
"Peanut oil is one of the most important of the world's food oils.
"High-grade peanut oil is an excellent salad oil. The various grades of this oil are used for making oleomargarine and soap and for industrial purposes.
"Within the last few years the manufacture of peanut oil has attained considerable importance in the United States. Large quantities are imported, for the most part from China, Japan, and Europe.
"Peanut oil can be made in cottonseed-oil plants without many changes in the equipment.
"High-grade peanut oil can be made only from sound well-selected stock, and the manufacturing methods must be of the best.
"Peanut meal, the leading by-product of peanut-oil manufacture, is a valuable material, rich in protein and oil. The better grades may be used for human food and the poorer grades for stock feeds.
"Peanut oil and peanut meal should be correctly labeled and advertised for just what they are."
377. U.S. Congress. House. Committee on agriculture. Oleomargarine. Hearing... 71st Cong., 3d. session on H.R. 15934, by Mr. Brigham ... Serial T, part 1, 2. 272pp. Washington, Govt. print. off., 1931. 44 Un31 Olg
Contains the statements of M.M. Osborn, editor and manager of the Peanut Journal (p.163); Philip H. Eve, representing Suffolk Oil Mills. [manufacturers of crude peanut oil] (pp.163-164); Gary Grant, including the use of peanut oil in margarine (pp.171-173).
The statement of Charles W. Holman, pp.50-75, has tables showing extent of materials used in oleomargarine manufacture 1917-1930, including peanut oil; trend of percentage to whole of these ingredients, 1917-1930; monthly prices of materials, including refined peanut oil, for 1930; imports of peanut oil, by country of origin, 1914, 1921, and 1929. Prices of refined peanut oil 1919-24 are contained (p.121) in the statement of W.M. Steele, pp.101-154.

378. U.S. Congress. House. Committee on agriculture. Special subcommittee. Hearing... seventy-fourth Congress, first session, on H.R. 5586, prohibiting the shipment in interstate commerce of adulterated oleomargarine; H.R. 5587, for the taxation of oleomargarine containing any foreign-grown or foreign-produced fat or oil ingredient. May 14, 15, 16, 23; June 24 and 25; July 12, 1935. Serial L. 263pp. Washington, Govt. print. off., 1935. 286.344 Un3

Statement of J.B. Fearing and Thomas N. Peale, pp.74-76, "is primarily a peanut growers' statement dealing with and portraying the views of growers of peanuts as they affect the financial and social life on the farm..."

"We feel that if this bill, or similar legislation is enacted into law, the peanut growers will benefit materially by having an added outlet for their products in the form of peanut oil going into the manufacture of margarine."

Contains also statement, pp.145-184, of Charles W. Holman, which includes formulas for oleomargarine using peanut oil, and figures on factory consumption of peanut oil in the United States, total production of peanuts and amount crushed for oil, 1927-1934; cash income from peanuts, 1929, 1932-1934; prices of peanut oil, 1933-1935; imports of peanut oil, 1933-1935.

379. U.S. Congress. Senate. Committee on finance. Taxes on fats and oils. Hearings... seventy-sixth Congress, first session on proposed amendments to H.R. 3790, an act relating to the taxation of the compensation of public officers and employees, March 6, 7, 8, and 9, 1939. 363pp. Washington, Govt. print. off., 1939. 284.5 Un37Tf

The following pages are to be consulted for passing references to peanut oil: 110, 136, 181, 229, 275, 276, 332, 353. Tables which include information on peanuts and peanut oil are as follows: United States tariff rates on peanuts and peanut oil in effect on Mar. 1, 1939, p.85; domestic prices of peanut oil, p.97; factory consumption of peanut oil, p.163; prices received by farmers, for peanuts, percent of parity, p.212; production of peanut oil, 1938, p.214; imports of peanut oil, 1928/33, 1937 and 1938, p.214; primary factory production of peanut oil in the United States, specified years, p.247; exports of domestically produced peanut oil, specified years, p.249; imports for consumption of peanut oil, p.251; factory consumption of peanut oil, by classes of products, calendar year 1937, p.257; factory consumption of peanut oil of domestic origin in compounds and vegetable shortenings, 1929, 1931-1937, p.258; peanut oil used in the production of margarine, 1936-1938, p.259; factory consumption of peanut oil in soap, 1929, 1931-1937, p.261; factory consumption of peanut oil, by classes of products, calendar year, 1936, p.286; number of peanut producing farms, 1934, p.367.

380. U.S. Department of agriculture, Bureau of agricultural economics. The fats and oils situation, v.1, no.1, March 1937-date, processed. (FOS-1-date) 1.9 Ec752F

These reports contain material on peanut oil. In particular, the following are to be noted:

FOS-2, April 1935. Gives the outlook for peanuts, pp.14-15.

FOS-4, 16pp., June 1937. Featuring Peanut Oil. Describes the current situation, U.S. production and consumption, prices of peanuts and peanut oil, foreign and domestic production of peanuts, and trade in peanuts and peanut oil in the United States.

FOS-6, August 16, 1937. Contains tables showing peanut oil used in making of oleomargarine, p.32, and price per pound of peanut oil, p.33.

FOS-9, Nov. 15, 1937. Gives the "Peanut Outlook for 1938", pp.15-16.

FOS-19, Sept. 17, 1938, pp.3-10. Prices of peanut and cottonseed oils (crude) and farm prices of peanuts, 1926 to date. "The price of peanut oil in recent years has followed closely the price of cottonseed oil. These products have similar uses. The price of peanuts is determined both by the value of the oil and the value of the meal. Lower prices for feedstuffs in recent years is thus a factor in holding down the price of peanuts." The writer discusses in addition to peanut prices, the production, imports and disappearance of peanut oil, and stocks and prospective supplies of oils. There are numerous tables and graphs.

381. U.S. Department of agriculture, Bureau of agricultural economics, Division of statistical and historical research. Fats and oils. Statistics of United States production, trade and consumption, 1912-1933. [89]pp., processed. Washington, D.C., 1934.
1.9 Ec752 Fat

"These statistics are presented as a preliminary product of a study of the fats and oils situation."

Table 63. Peanut Oil, crude: Factory production, net imports, stocks as of December 31, and apparent disappearance, 1912, 1914, 1916 to date.

Various tables contain data on peanut oil, such as cash income from farm production of peanuts, p.[7]; imports of oil, p.[8]; tariff rates, p.[10]; tariff rates on peanuts, p.[12]; free and dutiable imports of oil, p.[13]; average price per pound of oil at New York, p.[14]; stocks in U.S. Dec. 31, 1923-date, p.[16]; price index, p.[20]; apparent disappearance, p.[27]; net imports or exports produced from domestic farm products, p.[33]; quantity used in lard substitutes, p.[36]; percentage in lard substitutes, p.[38]; quantity used in oleomargarine manufacture, p.[40]; and percentage, p.[42]; quantity used in soap manufacture, p.[44]; and percentage, p.[47].

382. U.S. Department of commerce, Bureau of foreign and domestic commerce, Foodstuffs division. United States imports of vegetable oils, oil fats, oil seed and soap... 1933-date. [monthly] processed. [Washington, D.C., 1933-date] 157.54 [Im] no.3062.

At head of title: Statement no. 3062. Preliminary statistics. Includes data on imports on peanut oil for consumption, by country of origin.

Current issues have the title: United States Foreign Trade Statistics. Imports of Vegetable Oils, Oil Fats, Oil Seed and Soap. Advance official Data Subject to Revision.

383. U.S. Department of commerce, Bureau of the census. Animal and vegetable fats and oils: production, consumption, imports, exports and stocks; quarterly for calendar years 1933 to 1937. 29pp. Washington, Govt. print. off., 1938. 157.41 An52

This report contains the following statistics by quarters for 1933-1937: production and consumption in pounds of crude and virgin and refined peanut oil, stocks of crude and virgin and refined peanut oil; peanuts hulled and unhulled used in producing vegetable oils by year and 3-month periods, and stocks at plants on specified dates; imports for consumption of peanut oil; exports of peanut oil; factory consumption of peanut oil for shortening, oleomargarine, other edible products, soap, paint and varnish, linoleum and oilcloth, printing inks, miscellaneous products, and loss, including foots.

This report comes out annually, the more recent covering five-year periods, the earlier ones as follows: 1919/22, 1919/23, 1923/24, 1924/25, 1925/26, 1926/27, 1927/28, 1927/29, 1927/30, 1927/31, 1928/32, 1929/33, 1930/34, etc.

384. U.S. Department of commerce, Bureau of the census. Statistics of fats and oils. [quarterly] processed. 1920-date. [Washington, D.C., 1920-date] 157.41 St24

A quarterly publication giving preliminary figures on production, consumption and stocks of fats and oils, including virgin and crude and refined peanut oil, hulled and unhulled peanuts used in the manufacture of oil, and exports and imports of peanut oil.

385. U.S. Tariff commission. Certain vegetable oils. 174pp. Washington, Govt. print. off., 1926. 173 T17Ce

Part 1. Costs of production. Preliminary statement of information obtained in the pending investigation, as ascertained pursuant to the provisions of Section 315, title III of the Tariff Act of 1922. Section 3. Peanut oil, pp.41-54. This gives rates of duty, uses of the oil, its sources in the world as a raw material, its joint products and by-products, domestic production and consumption, imports into U.S., principal competing country, exports of domestic and foreign oil, foreign production, costs of production in the United States, China, France, Great Britain and comparisons of these cost data.

Part 2. Economic study of the trade in and the prices and interchangeability of oils and fats. The subject of a public hearing to be held at the offices of the Tariff Commission on May 25, 1926, pp.85-174.

"The purpose of the study is to show the conditions affecting the competition of imported vegetable oils with domestic oils and fats. The data in this study thus supplement the Statement of Information on costs of production (Part I)."

Peanut oil is discussed, p.95; international supply and consumption of peanuts and peanut oil, pp.111-114; prices of peanut oil (in a table), p.125; price changes in peanut oil and peanuts, pp. 156-157; the interchangeability of oils and fats in the consuming industry (including peanut oil), pp.156-174.

386. U.S. Tariff commission. Production and transportation costs of certain oils. Letter... transcribing in response to Senate resolution no. 323 (Seventy-first Congress), certain information relative to the costs of production and transportation to the principal consuming markets of the United States of certain oils and the principal uses thereof. 72d. Cong., 1st Sess., Senate Doc. 72, 240pp. Washington, Govt. print off., 1932. 173 T17 [Pro]

The following information is given: uses for which peanuts are grown and the profitability of growing them for oil extraction, pp. 19-20; conditions of peanut oil supply, pp.59-60; technical position of peanut oil in the soap industry, p.148; position in the margarine industry, p.157; use and interchangeability of peanut oil in the lard-compound industry, p.163; in the salad-oil industry, p.166; and conditions of supply and demand affecting interchangeability, pp.230-231.

The report has numerous statistical tables.

It is also published as U.S. Tariff Commission, Report no.41, Second series. 175 T17Rs no.41

387. U.S. Tariff commission. Summary of tariff information, 1929 on Tariff Act of 1922. Schedule 1. Chemicals, oils, and paints, compiled by the United States Tariff Commission and printed for the use of the Committee on ways and means, House of representatives. 419, xvpp. Washington, Govt. print. off., 1929. 173 T17Su

Paragraph 55, Peanut Oil, pp. 281-282, notes the uses for the oil, production and trade in various countries, imports into the United States, prices of oil in the New York market January to October, 1922-1928, and competitive conditions.

388. U.S. Tariff commission. Survey of the American peanut oil industry. 18pp. Washington, Govt. print. off., 1920. 173 T17Ta

Gives information on the character, manufacture, geographical distribution, domestic production, domestic consumption, exports, foreign production, imports, prices, tariff history, competitive conditions, and Court and Treasury decisions relating to peanut oil.

FOREIGN COUNTRIES

General

389. International association of seed crushers. Copenhagen congress 1936. Reports from various countries... 51pp. London, William Brown & co. Ltd., printers, 1936. 307 In83

The following information is given for these countries:

Belgium: imports of shelled and unshelled groundnuts, imports and exports of groundnut oil, imports and exports of groundnut cake.

Denmark: imports of groundnuts.

Egypt: quantity and value of groundnut oil imports.

France: imports of shelled and unshelled groundnuts, imports and exports of groundnut oil, average prices of groundnuts and groundnut oil.

Germany: import surplus of shelled and unshelled groundnuts, imports and exports of groundnut oil, inland market supply of the oil, imports and exports of groundnut cake, and supply of cake on the inland market.

Great Britain: increases in imports of groundnuts, imports of the nuts; imports of groundnut cake into the United Kingdom.

Holland: imports of groundnuts, exports and imports of groundnut oil, and imports of groundnut cake and meal.

Japan: imports of groundnuts.

Sweden: imports of groundnuts.

Switzerland: imports of groundnuts.

This report is in both English and French.

390. M., G.V. Les huiles coloniales: arachide et palme. Revue Scientifique 74(17):535-536. Sept. 12, 1936. 473 R52

Following a brief outline of the history of the peanut, the writer points out the French sources of supply: West Africa, India and China, and the methods and types of oil extraction.

391. U.S. Department of agriculture, Bureau of agricultural economics, Foreign agricultural service. Foreign crops and markets, v.4, no.4-date, processed. Mar.1, 1922-date. 1.9 St2F

This is "a continuation of the Foreign Crop and Livestock Reports which was changed in title and to a weekly publication with the issue of Mar. 1, 1922. First issue was Vol. IV, no.4. (No issues were published labeled Vol. I to Vol. IV, No. 3, inclusive)." Note at beginning of v.4, no.4.

Information varies on peanuts. The 1938 volume gives exports of peanuts from China and Manchuria, prices in China, and peanut area in India; the 1939 volume as far as it has been published to May 20, 1939 gave Chinese and Manchurian exports of peanuts, 1937-38, and area, exports and production in India, 1934-38.

392. U.S. Department of commerce, Bureau of foreign and domestic commerce, Foodstuffs division. Foodstuffs round the world. Sugar, confectionery and nuts... [fortnightly] v.1, no.1, Aug. 5, 1935-v.4, no.5, Mar. 8, 1938, processed. [Washington, D.C., 1935-38] 157.54 F73 Sugar, conf. & nuts.

Ceased publication.

The following statistics are given: imports of green peanuts into Canada, v.1, no.4, p.5, Sept. 23, 1935; imports peanuts (except green) into Canada, v.1, no.4, p.6, Sept. 23, 1935; forecast of the groundnut crop in India, v.1, no.6, pp.9-10, Oct. 21, 1935; peanut crop forecast, Bombay consular district, 1935-1936, v.1, no.7, pp.12-13; Survey of the Tsingtao peanut market for quarter ended July 31, 1935, v.1, no.8, pp.7-10, Nov. 18, 1935; Third report of the peanut crop in the Madras Presidency during the season from January to October 1935, v.2, no.1, p.9, Jan. 13, 1936; Tsingtao peanut market for quarter ended October 31, 1935, v.2, no.3, pp.12-15, Feb. 10, 1936; Peanuts - the life of Senegal, v.2, no.4, pp.11-12, Feb. 24, 1936; Bombay Peanut crop forecast from final all-India forecast, 1935-36, v.2, no.7, pp.15-16, Apr. 28, 1936; Tsingtao peanut market for quarter ended January 31, 1936, v.2, no.8, pp.8-12, May 12, 1936; First peanut crop forecast in 1936 - India, v.2, no.10, pp.12-13, June 9, 1936; Production of peanuts in Cuba, v.2, no.12, p.13, July 14, 1936; Tsingtao peanut market for quarter ended April 30, 1936, v.2, no.14, pp.7-9, Aug. 11, 1936; Production of peanuts in Argentine increases, v.2, no.16, pp.11-12, Sept. 8, 1936; First groundnut forecast, 1936-37-India, v.2, no.18, p.9, Oct. 6, 1936; First forecast of the groundnut crop - Burma, v.2, no.19, p.10, Oct. 20, 1936; Survey of Tsingtao peanut market for quarter ended July 31, 1936, v.2, no.21, pp.608; Nov. 17, 1936; Exports of peanuts - French West Africa, v.2, no.23, p.12, Dec. 15, 1936; Second groundnut forecast India-1936-37, v.2, no.23, p.13, Dec. 15, 1936; Report on Nigerian groundnuts for 1936 season, v.2, no.24, p.5, Dec. 29, 1936; Peanut exports - French West Africa, v.3, no.3, p.11, Feb. 16, 1937; Opportunities for American nuts in Bergen [Norway] - walnuts, pecans, and peanuts, v.3, no.4, pp.10-11, Mar. 2, 1937; Annual report of the peanut industry and trade in the Bombay consular district for 1936, v.3, no.5, pp.6-10, Mar. 16, 1937; Survey of Tsingtao peanut market for quarter ended October 31, 1936, v.3, no.6, pp.9-11, Mar. 30, 1937; Groundnuts - Nigeria, v.3, no.7, p.8, Apr. 13, 1937; 1936 exports of shelled peanuts - Java, v.3, no.8, p.10, Apr. 27, 1937; Survey of Tsingtao peanut market for quarter ended January 31, 1937, v.3, no.8, pp.10-13, Apr. 27, 1937; Exports of peanuts - Senegal, v.3, no.11, p.12, June 8, 1937; Peanuts - French West Africa, v.3, no.14, pp.7-8, July 20, 1937; Peanuts exports from French West Africa, v.3, no.17, pp.6-7, Sept. 14, 1937; Peanut Crop - Burma, v.3, no.19, pp.13-14, Oct. 12, 1937; Survey of Tsingtao peanut market for quarter ended April 30, 1937, v.3, no.20, pp.8-12, Oct. 26, 1937; Increase in Belgian Congo exports of peanuts, v.3, no.22, p.12, Nov. 23, 1937; India - Peanut crop in the

Madras Presidency; third forecast, 1937-38, v.3, no.24, pp.8-10, Dec. 21, 1937; Burma - Increased groundnut production, v.4, no.3, p.7, Feb. 8, 1938.

Algeria

393. Algeria. Direction des douanes. Bulletin comparatif trimestriel du mouvement commercial et maritime de l'Algérie... Dec. 1916-date. Alger, 1916-date. 270 A13
Lists current imports of peanuts and peanut oil and exports of shelled and unshelled peanuts (quantities and value) with comparisons with the preceding year.
394. Algeria. Direction des douanes. Documents statistiques... sur le commerce de l'Algérie, année 1937. 347, XLI, 89, 6pp. Alger, Imprimerie P. Guiauchain, 1938. 270 A13D
Includes figures on the quantity and value of shelled and unshelled peanuts and oil imported, by countries and exports of unshelled peanuts and oil by countries of destination.
Earlier volumes of this publication should also be consulted.

Argentina

395. Argentine Republic. Ministerio de agricultura. Dirección de economía rural y estadística. Boletín estadística agropecuaria, año [6]-date. [monthly]. Buenos Aires, 1904-date. 255.1 Ag8B
Jan. 1904-Aug. 1907 have title: Boletín mensual de estadística y comercio. Sept. 1907-Dec. 1922 (v.24, no.12) have title: Boletín mensual de estadística agrícola. Vol. 25-28, 1923-1926 have title: Estadística agro-pecuaria. Boletín mensual. Año 29-37, 1927-1936 have title: Boletín mensual de estadística agropecuaria.
Jan. 1904-May 1913, v.18, no.5-v.24, April 1916-Dec. 1922 compiled by Dirección de economía rural y estadística. June 1913-Mar. 1916 (v.18, no.3) compiled by Dirección de estadística agrícola y economía rural (Ministerio de agricultura).
Vol. 25-28, no.9, Jan. 1923 - Sept. 1926 issued by Ministerio de agricultura - Sección propaganda e informes - Dirección de economía rural y estadística.
Jan. - Sept. 1933 reprinted from Argentine Republic, Ministerio de Agricultura. Boletín mensual (9 B633) Oct.-Dec. 1933 only in Argentine Republic, Ministerio de agricultura, Boletín mensual, v.35, parte 2 (9 B633).
Contains figures on production, area, imports and exports of peanuts (maní) and peanut oil.

396. Argentine Republic. Ministerio de agricultura. Dirección de economía rural y estadística. Informaciones estadísticas agropecuarias, año 1, no.1-date [irregular] Buenos Aires, 1937-date. 225.1 Ag8. In

The December 1938 issue which was examined had 1937 production figures of peanut oil; seed used in industrialization, and oil obtained with relative and absolute variations, 1937 and 1936, and total oil produced in 1937.

397. Argentine Republic. Ministerio de hacienda. Dirección general de estadística... Anuario del comercio exterior de la República Argentina, correspondiente a 1937 y noticia sumaria del periodo 1910-1937. CXIV, 977pp. Buenos Aires, Talleres S.A. Casa Jacobo Peuser, Ltda., 1938. 255.1 Es82A

Lists the customs duty on peanuts (maní); and quantity and value of exports of peanuts, by country of destination, 1935-1937. The latter section of the volume contains reports of imports and exports by country of origin and destination, in some of which exports of peanut cake and peanut oil are listed.

398. Girola, Carlos D. Apuntes del curso de agricultura especial... Grupo 1.- Plantas oleaginosas. Maní o cacahuete (*arachis hipogaea* L.) 24pp. Buenos Aires, Talleres Gráficos Ferrari Hnos. 1931. 77 G442A

From the "Revista del Centro Estudiantes de Agronomía y Veterinaria", no. 144, pp.291⁺. November 1931.

Bibliography, pp. 23-24.

Describes briefly the geographic distribution of the Argentine peanut crop, costs, sale, trade, exporting countries, the making of peanut oil, composition of the cake, and future of the Argentine peanut industry.

399. Girola, Carlos D. Cultivo del maní (cacahuete) (*Arachis hipogaea* L.) en la República Argentina. 107pp. Buenos Aires, Imp. Gadola, 1921. 77 G442Cu

Bibliography, p.104.

This is a study on the cultivation of peanuts in the Argentine Republic, which contains, among other things, the area in peanuts, the classification of the nuts, harvesting, yields, detailed costs of production, sale of the product, uses for the peanut, oil extraction, and the future of the crop.

400. Paulsen, Emilio F. Estudio sobre el estado actual de la industria de los aceites vegetales en el país. Buenos Aires (city) Universidad Nacional, Revista de la Facultad de Agronomía y Veterinaria 4(2): 397-440. November 1923. 9 B863

Bibliography, p.440.

Peanuts are included in this study of the present state of the vegetable oil industry in Argentina on the following pages: general description, area cultivated and value, industrial utilization,

future of the crop in Argentina, cost of production and profits, pp.401-402; extraction of the oil and the companies doing this in Argentina, p.420; peanut cake, its composition and value, pp. 427-428.

401. Schultz, Enrique F. El cultivo del maní en la Argentina. La Hacienda 28(7):234-235. July 1953. 6 H11

A description of peanut cultivation in Argentina, with some attention to harvesting, threshing, and yields, the last of which have, at the Tucumán Agricultural Experiment Station, varied from 700 to 2560 kilos per hectare, and giving in normal years a mean of 1620 kilos per hectare.

Australia

402. Australia. Northern territory investigation committee. Report of the Board of inquiry appointed to inquire into the land and land industries of the Northern territory of Australia. Dated 10th October, 1937. 101pp. Canberra, Government printer, 1937. (no.4.-F.5070) 280.1992 Au72

Paragraph 500, p.77, lists the number of peanut growers in the Territory, by nationality, and paragraph 501, p.78, mentions the heavy tariff protection on peanuts.

403. Kerle, W.D. Peanut growing. Agr. Gazette of New South Wales 46 (9): 503-508. September 1935. 23 N472

"No profitable export market exists at present for peanuts, and they must be absorbed on the local market, which, however, is a substantial one and has increased considerably in recent years owing to the greater use of peanuts in the confectionary trade, to the popularity of products such as peanut butter, etc., and to the greater utilization of the oil. It is essential that growers study the demands of the market and aim at marketing a high grade product, or the industry cannot be a profitable one, since the costs of production are comparatively high. The shells must be free from stain, both outside and in, the kernels well filled and plump with an absence of 'pops', and the consignment well graded."

Methods of harvesting, yields, and uses of the peanut are contained in the discussion.

404. Kerle, W.D. Production of peanuts. A neglected industry. Agr. Gazette of New South Wales 33 (12):855-858. December 1922. 23 N472

"The reasons why the peanut industry should be developed very considerably in Australia may be enumerated as follows:- 1. A good market exists locally for peanuts for all branches of the trade. 2. We are at present importing an article which we can produce locally and of equal quality. 3. We have large areas

of suitable land and ideal climatic conditions. 4. A substantial protective tariff for nuts and oil has been recently imposed constituting an offset to any comparatively high cost of production due to greater price of labour. 5. The crop has a wonderful variety of uses commercially, and as a stock food and soil renovator on the farm. 6. Machinery for the harvesting, cleaning and grading of the crop, and for the expressing of its oil, etc., is used very extensively in the United States and the importation of such machinery by co-operative effort is quite feasible. The establishment of co-operative peanut factories for the manufacture of oil and by-products is probably the surest means of setting up this industry locally, and giving peanuts the place in our primary products they deserve." - p.358.

405. A market for peanuts. Queensland Agr. Jour. 17(6):266-267. June 1922. 23 Q33

"One of the objections, from the producer's point of view, to the peanut as a crop has, up to now, been the impossibility of disposing of the culls - that is, the small, broken, discoloured, and shrivelled nuts unfit for either the roasting or confectionery trade; but this has been overcome now by the establishment of an oil mill at Marrickville, Sydney, which will provide an outlet for these culls, which can be used for oil crushing.

"The price for oil milling nuts will naturally be world's parity, as otherwise it would be impossible to successfully compete with imported oil."

Tariff protection is also discussed.

406. The peanut. Queensland Agr. Jour. 17(6):263-266. June 1922. 23 Q33

Peanut production in Queensland, the present commercial uses for the nut and its oil (the latter of which is said to be its chief value), and methods of extracting the oil are considered.

407. Peanut board levy regulations. Fund for providing storage facilities and treatment plant, and for research and advertising. Queensland Agr. Jour. 27(6):562. June 1927. 23 Q33

Text of the regulations empowering the Peanut Board to make a levy on all peanut growers of one farthing per pound weight of peanuts in shell delivered to the board, harvested January 1st, 1927 - June 30, 1932."

Rulings for taking a poll for or against this levy are given.

408. Peanut growing. Queensland Agr. Jour. 28(1):68-69. July 1927. 23 Q33

"From notes recently issued by the New South Wales Department of Agriculture." - Ed. note.

"The peanut-growing industry has always been retarded in Australia by the ineffective tariff on the nuts, which until recent years could be more cheaply imported from countries such as China, Africa, and Java... With the full protection given the industry,

the general prospects and market requirements are worthy of earnest consideration."

409. Peanut industry. A South Burnett co-operative enterprise. Queensland Agr. Jour. 42(1):85-95. July 1934. 23 Q33

"Dominating the whole town is the imposing storage and treatment plant of the Queensland Peanut Growers' Co-operative Association - that is the first impression of a visitor to Kingaroy, a thriving centre of the South Burnett, one of the most productive provinces in Australia."

The writer described this plant, the Queensland peanut industry, and the work of the Queensland Peanut Board.

410. Pollock, N.A.R. Cultivation of the peanut. Queensland Agr. Jour. 32(2): 185-194. August 1929. 23 Q33

Originally printed in the Journal, v.17, no.6, pp.257-263, June 1922, and reprinted in the Journal, v.24, no.2, pp.108-113, August 1925.

In addition to soils, type and amount of seed needed, and cultural methods, the writer gives directions for harvesting, curing, picking and marketing the crop, and the yields to be expected.

411. Pollock, N.A.R. Cultivation of the peanut. Queensland Agr. Jour. 41(2):148-164. February 1934. 23 Q33

The writer takes up harvesting, curing, picking and marketing of the peanut crop, marketing through the Peanut Pool Board, peanuts in the rotation, and uses for the crop, as hay, oil, and meal.

412. Queensland. Statistical office. Statistics of the State of Queensland for the year 1936-37. variously paged. Brisbane, David Whyte, Govt. printer. [193?] 271.3 R26S 1936/37

Areas under peanuts are given for 1936, pp.28B-31B; production of peanuts, 1936, pp.40B-43B; areas, yields and gross value of peanuts, p.47B.

Library of the U.S. Dept. of Agriculture has, with some exceptions, volumes for the years 1873-1936/37.

413. Queensland year book 1938, no.2. 334pp. Brisbane, Government statistician, 1938. 271.3 St2 1938

Ch. 7. Production, p.128, has a brief section on peanut production districts in Queensland, and Ch. 10. Marketing, pp.208-209, includes a discussion of the work of the Peanut Board, which processes and markets the crop. A table shows for the five years 1932-1936 the quantity received by the Board, the average price realized per pound, the average price per pound paid to growers, and the working expenses per pound. The Board "was established in 1924 when the commercial production of peanuts began under tariff protection."

Library of the U.S. Dept. of Agriculture has year books for the years 1905-1917, 1919-1922, 1925-1938.

414. Wenholz, H., and Nicholson, G. The peanut. New South Wales Agr. Gazette 37(6):457-462; (7):512-516; (8):613-619; (10):762-768; (11):842-846. June-August, October-November, 1926. 23 N472

This series of articles is a general discussion of the peanut, including directions for time of harvesting in New South Wales, methods of harvesting, curing and stacking, and picking and cleaning, and a description of the uses and by-products of the peanut (roasting, peanut butter, peanut flour and oil), hogging off the crop - which the writers feel would not pay in Australia with the ruling market price for pork and peanuts about equal -, and general prospects and market requirements.

Also published as a 33pp. Farmers' Bulletin (no.157) of the New South Wales Dept. of Agriculture, dated Oct. 1926. 23 N47F no. 157.

Belgium and Belgian Congo

415. Belgium. Ministère des finances. Bulletin mensuel du commerce avec les pays étrangers...Maandelijksch Bulletin over den handel met de vreemde landen... Jan. 1903-date. Brussels, 1903-date. 258 F492

1903-June 1914 published by Belgium. Ministère des finances et des travaux publics. Administration des contributions directes, douanes et accises. Direction générale des douanes et accises. 1905-date cumulative.

July 1919-Apr. 1922 published by Belgium. Ministère des finances. Administration des contributions directes, douanes et accises. Service de la statistique commerciale.

July-Dec. 1919 have title: Commerce spécial de la Belgique avec les pays étrangers. Jan. 1920-Dec. 1920 have title: Bulletin mensuel du commerce spécial de la Belgique avec les pays étrangers; Jan. 1921-Mar. 1922 have title: Bulletin trimestriel du commerce spécial de la Belgique avec les pays étrangers; April 1922 has title: Bulletin du commerce spécial de la Belgique avec les pays étrangers; May-Dec. 1922 have title: Bulletin du commerce spécial avec les pays étrangers; Jan. 1923-Dec. 1928 have title: Bulletin mensuel du commerce spécial avec les pays étrangers.

Beginning with Dec. 1933, the Dec. issue of the Bulletin mensuel takes the place of the Tableau annuel for 1932 and later (Tableau annuel discontinued after 1931) - Publisher's notice.

The March 1939 issue which was examined, gave figures for March 1939 and the first three months of 1939 with comparative figures for 1938, of imports and exports of shelled and unshelled peanuts, imports and exports of crude and refined peanut oil, and exports and imports of peanut cake, all by country of origin and destination.

Annual statistics prior to 1932 found in Belgium. Ministère des finances... Tableau annuel du commerce avec les pays étrangers. 258 F49T. V. 1 lists the figures by products; v.2, by countries and statistics for the entry and discharge of products at various ports.

416. Belgium and Belgian Congo. Ministère de l'interieur. Office central de statistique. Annuaire statistique... 1937. 299pp. Gand, S.A. anc^t. Maison d'édition Vanderpoorten & co., 1937. 258 B41A
Gives production and area cultivated of peanuts, both by natives and Europeans, 1935 and 1934, and production and area by Europeans, 1935.
417. Great Britain. Department of overseas trade. Economic situation in the Belgian Congo and the territories of Ruanda - Urundi to August, 1933. Report by Harold C. Swan...together with an annex on the Katanga Province...83pp. London, H.M. Stationery off., 1934. (No. 563) 270 G792B Aug. 1933
Area of groundnut production, 1930-1932, p.19; exports of groundnuts, 1932, 1931, and 1928, p.55.
Library of the U.S. Dept. of Agriculture has also volumes for 1924, 1926, and May 1933.

Brazil

418. Brazil. Ministerio da fazenda. Thesouro nacional. Directoria de estatística econômica e financeira. Comercio exterior do Brasil. Foreign Trade of Brazil. Commerce Extérieur du Brésil... Annos, years, années 1928 a 1932. 555pp. Rio de Janeiro. Typographia da Directoria de Estatística Econômica e Financeira, 1936. 255.3 F292Cm
Gives quantity and value of peanut exports, 1928-1932, by port of exit and country of destination.
For Comercio exterior do Brasil (Resumo...) [5 year period] see Brazil. Ministerio da Fazenda, Directoria de estatística econômica e financeira, Comercio exterior do Brasil (Resumo...) 255.5 F292Cma
419. Brazil. Ministerio do trabalho, industria e commercio. Departamento nacional de estatística. Comercio exterior do Brasil (Resumo por mercadorias) Foreign trade of Brazil (Summary by merchandise) ...Annos, years...1931-1932. 117pp. Rio de Janeiro, 1933. 255.3 F292 1931-32
Class 207 in the export section is for peanuts, and gives quantity and value of exports, 1931 and 1932.

British Empire

420. British standards institution. British standard specification for ground nut oil. 21pp. London, British Standards Institution, 1935. ([Report] no.629.) Copy in John Crerar Library.
Not examined.

421. The cultivation, preparation and utilisation of the ground-nut. Imp. Inst. Bull. 23(3):291-330. October 1925. 26 G79

This is a reprint of an article which appeared in the Bulletin, v.8, pp.153-172, 1910, "with such amendments as the lapse of time has rendered necessary, and with such additional information as is now available regarding the cultivation of ground-nuts in countries of the British Empire."

This article treats of the extent of peanut cultivation in the world, the world production, the different methods of harvesting, stacking of hay, picking the nuts, decorticated nuts, yields in various places, the position of production in countries of the British Empire, and the utilization of the products: for human consumption and as oil (in which case there is taken up its extraction, character and by-products).

422. Elsdon, G.D. The chemistry and examination of edible oils and fats, their substitutes and adulterants. 521pp. London, Ernest Benn, Ltd., 1926. 307 E17

Ch. XVIII, Arachis Oil, pp.257-266, takes up the source of the oil, its chemical composition, its properties and special tests for it, the determination of arachidic acid, and examination for adulteration.

423. Faure, Blattman & Co. Review of the oil and fat markets, 1923-1937. 15v. [London, Eng., 1924-38] 307 F27

Includes figures on ground nuts and ground nut oil.

Earlier reports 1918-1922, containing similar material, may be found in Thornett & Fehr. Review of the Oil and Fat Markets, 1918/19, 1920/21, and 1922. 3v. [London, Eng., 1920-23] 307 T39

424. Feedstuffs in the United Kingdom. A survey by Canadian trade commissioners in the United Kingdom. III. Oil cakes and meals. Canada. Minister of Trade and Commerce, Commercial Intelligence Jour. 61 (1850):108-114. July 15, 1939. 286.8 C16

The article gives, p.113, the grades of groundnut cake produced in the United Kingdom, and imports of groundnut cake and meal into the United Kingdom.

425. A \$5,000,000 peanut failure. Coma. & Finance 24(6):127. Feb. 6, 1935. 286.8 C737

"Last week the peanut was largely responsible for a \$5,000,000 failure in London, where Strauss & Co., Ltd., an important commodity firm in the grain trade, went to the wall owing over 1,000,000 pound sterling. The firm was one of the world's principal shippers of peanuts..."

426. Fryer, Percival J., and Weston, Frank E. Technical handbook of oils, fats and waxes. Ed.3, 2v. Cambridge, Eng., University press, 1920. (Cambridge Technical series.) 307 F94

Paragraph 132, pp.138-140, of Volume one, outlines the characteristics of peanut oil, special tests for it, physical and chemical data, content of oil in seed, method of obtaining oil, and commercial grades and uses for it.

427. Great Britain. Board of trade. Accounts relating to trade and navigation of the United Kingdom..., December 1858-date [monthly] London, 1858-date. 256.03 Ac2

Library, U.S. Dept. of Agriculture, has only scattered numbers prior to August 1879.

See index under Ground nut cake and meal, Ground nut oil, unrefined, Ground nuts, and Oils, unrefined, ground nut, for page references to imports of these products.

428. Great Britain. Board of trade. Statistical abstract for the British Empire for each of the ten years 1928 to 1937. Sixty-seventh number... 337pp. London, H.M. Stationery off., 1938. (Cmd.5872) 256.03 T67C no.67, 1937

This is the complete form of the Statistical Abstract for the British Empire which is published in alternate years. In the intervening years the Trade and Commerce Section alone is published, that is, the Sixty-sixth number of this abstract is for the years 1927 to 1936 (Cmd.5582) and is the Trade and Commerce Section. 256.03 T67C 1936

Groundnuts, acreage and production are given by countries in the Empire, p.44. The Trade and Commerce section gives imports and exports for each of the Empire countries in turn listing groundnuts and groundnut products. Production and acreage figures are also given for Tanganyika, p.312, and the Anglo-Egyptian Sudan, p.331.

The title of this publication has varied. Earlier issues should be consulted (nos. 1-66, 1850-1936).

429. Great Britain. Colonial office. Colonial reports; annual, no.1, 1891-date. London, 1891-date. 256.02 C71

See particularly the annual reports of Kenya, Uganda Protectorate, Northern Rhodesia, Kelantan, the Gambia, Nyasaland, Fiji, the Gold Coast, and Nigeria.

430. Great Britain. Customs and excise department. Statistical office. Annual statement of the trade of the United Kingdom with British countries and foreign countries, 1937, compared with the years 1933-1936. 4 vols. London, H.M. Stationery off., 1938. 256.03 C96S 1937

"The Annual Statement of the Trade of the United Kingdom, covering five calendar years, is issued in four volumes. Volume I contains summaries of the import and export trade; volume II gives detailed statements respecting articles imported and re-exported ..., volume III gives similar details of Exports of the Produce

and Manufactures of the United Kingdom, and volume IV gives details of the trade at individual Ports and with individual countries..."- Introductory note, v.4, p.iii.

Figures on groundnut cake and meal, unrefined groundnut oil, and decorticated and undecorticated groundnuts are given. See volume II for imports of these products (quantity and value, 1933-1937, by country of origin) and for exports of imports. Volume III gives exports. Volume I is an abstract of the figures.

431. Great Britain. Empire marketing board. Statistics and intelligence branch. Oilseeds and vegetable oils. A summary of figures of production and trade relating to copra, groundnuts, cottonseed, linseed, olive oil, soya beans, sesame seed, rapeseed, palm kernels, palm oil, whale oil. 66pp. London, H.M. Stationery off., 1932. (Gt. Brit. Empire marketing board. [Publications] E.M.B./C.4. Sept. 1932) 280.39 G792Pu
432. Grocer and oil trade review [weekly] v.116 (whole no.3023), Dec. 1919-date. London, 1919-date. 286.83 C895.
Wanting: v.118, no. 3052-3078, July 3-Dec. 26(?) 1920; v.121, no. 3147-3148, 3152, April 22-29, May 27, 1922.
The later numbers which were examined had current quotations in the column "Prices Current" on peanut oil prices, and in the column "Produce Markets", the state of the oil and oilseeds markets (including peanuts and peanut oil).
433. Imperial economic committee. Intelligence branch. Survey of oilseeds and vegetable oils. Volume III. Ground nut products; a summary of production and trade in British Empire and foreign countries... October 1934. 241pp. London, H.M. Stationery off., 1934. (I.E.C./S/2) 280.39 G794
434. Imperial economic committee. Intelligence branch. Vegetable oil and oilseeds; a summary of figures of production and trade relating to cottonseed, linseed, rapeseed, sesame seed, soya beans, groundnuts, copra, palm kernels, palm oil and olive oil. 3 v. London, H.M. Stationery off., 1936-1938. (Imperial economic committee. Intelligence branch. [Commodity series] I.E.C./C) 280.39 G794C
435. London Grain, seed and oil reporter. [daily], Jan. 2, 1915-date. London, 1915-date. 286.8 L84
Information varies with each issue. For May 3, 1939 quotations are given for groundnut sales, the Rotterdam groundnut and oil market, the Liverpool oil market, the Mark Lane groundnut cake and meal market, imports of groundnut products, and London prices of groundnuts and oil.
The Wednesday issue has a midweekly review of the groundnut market.

436. Maughan, Cuthbert. Markets of London; a description of the way in which business is transacted in the principal markets and in many commodities. 208pp. London, New York [etc.] Sir I. Pitman & sons, ltd., 1931. 280.3 M44
"Based on articles which have appeared in the Times Trade and Engineering Supplement."
Ch. VIII. Soya beans and ground nuts, pp.35-38.
437. Newland, H. Osman. The planting, cultivation, and expression of coconuts, kernels, cacao and edible vegetable oils and seeds of commerce... 111pp. London, Charles Griffin & Co., Ltd., 1919. 77 N47
Ch. III, the ground-nut, pp.47-56, describes the growing importance of the peanut oil industry, costs of production and value of the peanut crop, and machinery and processes for extraction of the oil. The article refers chiefly to conditions in various parts of the British Empire.
438. Oil and colour trades journal [weekly] v.35 (no.535). Jan. 16, 1909-date. London, 1909-date. 306.8 O152
The issue for December 31, 1937, which was examined, has a buyers guide at the beginning which has a section on groundnut oil, a column "Imports into London" which includes groundnut cake, kernels, meal, unspecified groundnut products and unshelled nuts. There is also a series of tables giving the quantity and value of oilseeds, oils and cake (including groundnuts) imported into the United Kingdom, November 1937.
439. Paterson, W.G.R. Some sheep feeding experiments. Highland and Agr. Soc. Scot. Trans. (5.ser.) (1934)46:146-169. 10 H536
Includes, pp.150-157, experiments with palm kernel, cotton seed and groundnut meals as feed.
440. Soya beans and groundnuts. Commercial possibilities within the Empire. Times [London] Imperial & Foreign Trade & Engineer. Suppl. (British Empire Products Number) 20(463):11. May 21, 1927. 236.8 T482
Yield of oil of the peanut and regularity of the supply in the British Empire are briefly discussed. A table shows the peanuts on sale in London, by sources of supply, January-December 1925 and January-April 1927.

British East Africa

441. Great Britain. Colonial office. Report...of Tanganyika Territory for the year 1929. 115pp. London, H.M. Stationery off., 1930. 270 G794 1929.
See also earlier reports. A 1938 report has been issued, but was not available for examination.
Includes quantity of groundnuts exported.

442. Great Britain. Department of overseas trade. Report on economic and commercial conditions in British East Africa...by A.E. Pollard... July, 1937-July, 1938...81pp. London, H.M. Stationery off., 1939. (No. 717) 270 G792Ea 1937/38
Library of U.S. Dept. of Agriculture has reports for April 1934-1937/38.
Value of groundnut exports from Tanganyika Territory in 1937, p.50. Appendix VIII, gives, p.72, exports of groundnuts from Kenya and Uganda, Tanganyika Territory, and Zanzibar, 1936 and 1937, showing country of destination.
443. Tanganyika territory. Blue book...1935. 345pp. Dar Es Salaam, Govt. printer [193?] 270 T15B
Includes acreage and production of groundnuts produced in various provinces, quantity and values of groundnuts and groundnut oil exported, 1934 and 1935.
Library of the U.S. Dept. of Agriculture has earlier issues as well.
444. Uganda Protectorate. Department of agriculture. Annual report... (Part 1) for the year ended 31st December, 1937. 60pp. Entebbe, Govt. printer, 1938. 24 Ugl2 1937, pt.1.
The following information is to be found in this report: quantity in tons and value of groundnut exports, 1935-1937, p.3.
Groundnuts, pp.11-12, briefly discusses prices in Teso, and the marketing situation. Appendix III. Eastern Province, gives figures on acreage and sales of shelled and unshelled nuts for 1937 and 1936, by districts, lists the licenses taken out under the Native Produce Marketing Ordinance, and cites prices in the Teso district, p.37. Appendix IV. Northern Province, reports on groundnuts, pp.47-48. Appendix VI, p.53, is a Comparative Statement for the Years 1933-1937 of Domestic Produce from the Uganda Protectorate. (Includes figures on quantity and value for groundnuts).

British West Africa

445. Barnes, A.C. An investigation of some problems of the Nigerian groundnut trade. Nigeria. Dept. Agr. Annual Bull., 5th, pp. 50-71. Lagos, 1926. 24 N563B
"The investigations now to be described were primarily concerned with the condition of the produce marketed and exported during the very early part of the season 1925-26. A number of complaints were made by merchants in 1925 regarding the unsatisfactory condition of groundnuts offered for sale at the commencement of the 1924-25 season."
The factors affecting the value of groundnuts are discussed, as well as the control of the quality of groundnuts for export, including the case for their inspection and grading, and the preparation of the nuts for export. Costs of marketing groundnuts from

Northern Nigeria are given, p.71.

446. Gambia. Department of agriculture. Annual report 1924-1937/38. 14 nos. London, Published by the Crown Agents for the Colonies [1925] -1933. 24 G14

In the first report, the statement is made, pp.22-23, that "Groundnuts are grown to the exclusion of other crops, solely because they require less effort than other crops, and yield a good profit for the labour expended.

"The climate and soil of the Gambia is capable of producing crops, but as their successful cultivation demands greater effort than groundnuts, it is unlikely that any serious attention will be devoted to them for some time."

Such information as prices, situation, inspection, efforts to improve the quality, exports, yields, the groundnut seed purchase and distribution scheme (1925 report), and the Government groundnut seed supply and depot scheme (1925-1931/32 reports) are to be found in these reports up through 1931/32, with more space given over to them in the earlier ones. In each report during these same years, there is also a section entitled "Strange Farmers" which reports the activity of the immigrant farmers who come into Gambia each year from neighbouring countries to grow peanuts.

Following 1931/32, there are only very brief notes on peanut production, inspection, etc.

447. Great Britain. Department of overseas trade. Report on economic and commercial conditions in the British dependencies in West Africa (The Gambia, Sierra Leone, The Gold Coast and Nigeria) by H.F. Gurney...November, 1936 to March, 1937...82pp. London, H.M. Stationery off., 1937. (No. 684) 270 G792W Nov. 1936-Mar. 1937.

Quantity and value of groundnut exports from Gambia, 1932-1936, p.5; quantity and value of groundnut exports from Nigeria, 1932-1936, p.7; machines used in groundnut production, p.9.

448. Improvement in Nigerian ground nuts. Bull. Imp. Inst. 19(2):132-140. 1921. 26 G79

Gives the results of tests of three series of samples of varieties of peanuts including yields of oil. It is pointed out that "Most of the ground nuts are produced in the Northern Provinces, particularly in the Kano and Zaria regions, but attempts are being made to extend the cultivation in the Southern Provinces."

449. Nigeria. Census office. Census of Nigeria, 1931. vols. 1-6. Published on behalf of the London Government of Nigeria by the Crown Agents for the Colonies, 1933-1932. 270 N56C 1931

Volume II, Census of the Northern Provinces, contains, p. 45, reference to the exports of groundnuts, 1929-30.

450. Nigeria. Chief secretary's office. Nigeria handbook... 431pp., 11th ed., 1936. London, Printed and published by West Africa Publicity Ltd., 1936. 270 N56

Consult index for page references to material on the groundnut industry, the export duty on the product, exports, and railway transportation.

Bulgaria

451. Bulgaria. Direction générale de la statistique. Bulletin mensuel. Année 1, Oct. 1908-date [monthly] Sofia, 1908-date. 267.3 St2B
Text in Bulgarian and French.
Année 23, 1934, semi-monthly.
Année 9-15, 1920-1926 have title: Bulletin statistique mensuel;
Année 16-22, 1927-1933 have title: Bulletin mensuel de statistique;
Année 23-24, 1934-1935 have title: Bulletin de statistique.
The March 1939 issue which was examined includes production and value of peanuts.

Canada

452. Canada. Bureau of statistics. External trade branch. Trade of Canada (imports for consumption and exports), Calendar year 1938. 549pp. Ottawa, J.O. Patenaude, I.S.O., 1939. 253 St25Tc
The index is to be consulted for page references to imports into Canada of the following: Peanut butter; Peanut hull meal for mfr. of explosives; Peanut oil, crude; Peanut oil, edible; Peanut oil, for canning fish; Peanut oil, for mfr. of soap; Peanut shells for mfr. of explosives; Peanuts, green; and Peanuts, n.o.p.
The Library of the U.S. Dept. of Agriculture has earlier issues of this report, beginning with 1927.
453. Canada. Department of trade and commerce. Dominion bureau of statistics. External trade branch. Summary of the trade of Canada [monthly] April 1930-date. Ottawa, 1930-date. 253 St25Su
The issue for November 1938 which was examined, contains figures on imports of crude peanut oil for the current month and for the twelve previous months.
Supersedes "Summary of trade of Canada, twelve months ended..." issued by the same office. 253 St25
454. Hicks, W.H. Peanut meal versus corn meal. Canada Expt. Farms, Agassiz, (B.C.) Farm Rept. Supt. 1922:8-9. 101 Ex6R Branch Expt. Farms Reports, 1922.
"A comparison of peanut meal and corn meal for milk production was made with 12 cows during 3 periods of 2 weeks each. The grain ration consisted of oat chop, bran, oil meal, and corn meal in the

proportions of 4:3:1:1, except that in the peanut meal period an equal quantity of peanut meal replaced the corn meal. The cows received 12 lbs. of the grain mixture and 40 lbs. of clover silage per day, and in addition they were pastured at night. While receiving peanut meal they averaged 27.24 lbs. of milk and 0.924 lb. of fat per day, and when receiving corn meal they produced 27.84 lbs. of milk and 0.952 lb. of fat per day. With each ration the calculated cost was \$1.25 per 100 lbs of milk..." - Expt. Sta. Rec. 50:375. 1924.

Ceylon

455. Senathiraja, N. Ground-nut cultivation in the Jaffna district. Ceylon Dept. Agr. Yearbook 1925:51-52. Colombo [1925] 22.5 C33Y
Includes methods of harvesting in the district, yield, figures on cost of production, and uses for the peanut.

China

456. Buck, J.L. Cost of growing and marketing peanuts in China. Chinese Econ. Jour. 5(3):767-788. September 1929. 280.8 C44Z
"A study of 543 farms in 17 regions of six provinces, and of the business of 10 local peanut merchants and of 30 transactions by middlemen buying peanuts."
This is a very detailed study. Part I on the cost of growing peanuts describes the size of farm and peanut acreage, the location of peanut districts, changes in crop area devoted to peanuts and crops displaced, peanuts in the rotation system, disposition of the peanut crop, its yield and value, prices of peanuts, material requirements per acre, costs of production per hundred pounds and per acre, and profits.
Part II, on marketing costs, gives information on the time of marketing, shelling, adulteration, transportation, method of marketing, the business of the peanut hong (the name for a grain merchant and his place of business), and thirty business transactions of outside middlemen. There are numerous tables at the end of the text.
Summarized in Foreign Crops and Markets 20(7):200-208. Feb. 17, 1930. 1.9 St2F

457. Chang, C.C. An estimate of China's farms and crops. 21pp., and maps. [Nanking, University of Nanking, Dept. of Agricultural Economics, 1932] 281.184 C36
Table V, p.19, shows the acreage, production and yield of peanuts in various Chinese provinces and regions; and map no. 10, shows the distribution of peanuts in China.

458. Chang, Ke-Chung, and Chao, Yung-Sheng. Vegetable casein from soybean and peanut. Chinese Chem. Soc. Jour. 3(2):177-182. June 1935. 385 C443
Experiments in obtaining the casein and its preparation for glue and plastics are described.
459. China. Inspectorate general of customs. Statistical department. Monthly returns of the foreign trade of China, Nov. 1931-date. Shanghai, 1931-date. (China. Maritime customs. 1.-Statistical Ser.:no.8.) 269.1 C962
Gives for the current month, with an average for the current and preceding year, imports of groundnuts (quantity and value) by country of origin, and exports of shelled and unshelled nuts, by country of destination.
460. China. Inspectorate general of customs. Statistical department. The trade of China, 1938... 4 v. Shanghai, Statistical department of the Inspectorate general of customs, 1939. (China. The Maritime customs. 1. Statistical Ser.: no.1.) 269.1 C96
Volume I, pt. 2. Analyses of Trade by Countries, shows imports of peanuts under certain countries and port of entry, 1937 and 1938 and lists exports of shelled and unshelled peanuts 1937 and 1938 under country of destination, with port of exit.
Volume I, pt. 1. Report, with revenue, value, treasure, and shipping tables, has a table, p. 101, showing comparative net values of principal exports, 1936, 1937 and 1938, including groundnut oil, and shelled and unshelled groundnuts.
Volume IV. Domestic trade: analysis of interport movement of Chinese produce, has tables showing quantity and value of groundnut oil and shelled and unshelled groundnuts, by ports.
Library of the U.S. Dept. of Agriculture has also reports, 1879-1937. 1920-1931 have title: Foreign trade of China.
461. China. National agricultural research bureau. Department of agricultural economics. Crop reports, v.2, Jan. 1934-date [monthly] Chungking, 1934-date. 269.1 N2122
Includes reports on expected production and yield of peanuts.
462. China year book, 1936... 510pp. Shanghai, North-China Daily News & Herald, Ltd. [193?] 269.1 C44
Groundnuts, pp.64-65, traces the origin of the peanut in China, method of export, production, trade in 1934 and 1935, and prices.
Earlier reports should also be consulted. The 1933 yearbook in particular gives a more complete account of the introduction of the peanut into China, as well as tables of exports of shelled and unshelled groundnuts and oil. (pp.78-80).
463. China's production and export of groundnuts. Chinese Econ. Jour. 10(2): 127-140. February 1932. 280.8 C442.

464. Costs of peanut production in China. Chinese Econ. Jour. 3(3):774-804. September 1928. 280.8 C442
"Reproduced from advance information forwarded by courtesy of the U.S. Tariff Commission." - Ed. note.
Detailed information on the cost of peanut production in China extracted from the report of the investigation begun July 17, 1928, by the U.S. Tariff Commission. It covers production in and exports from China, prices in China, comparison of prices of Chinese and domestic Virginia peanuts in the United States, costs of production in China (includes farm costs, Chinese milling and marketing costs) and an analysis of consular invoices of Chinese exports of peanuts in the shell and shelled peanuts to the United States.
See also under U.S. Tariff Commission. Peanuts not shelled and shelled; report... 1929.
465. Great Britain. Department of overseas trade. Report on economic and commercial conditions in China, by Sir Louis Beale...with an annex on Economic conditions in Hongkong, by G. Clinton Pelham...April 1935-March 1937...73pp. London, H.M. Stationery off., 1937. (No. 678) 269.1 G79 Apr. 1935-Mar. 1937
Library of the U.S. Dept. of Agriculture has also reports for 1919, June 1921-1933-35.
Chinese exports of groundnut oil, and of shelled and unshelled groundnuts, 1935, 1936, and first quarter 1937, p.28; value of groundnut oil exports to the United States, 1936 and 1935, p.30.
466. L'industrie des arachides en Chine. Institut Colonial de Marseille. Bulletin des Matières Grasses, 1921, no.3-4, pp.66-67. 77.9 M35
On the Chinese peanut industry, including exports of peanuts and peanut oil.
467. Missemmer, George W. U.S. is China's best peanut customer. China Weekly Rev. 40(2):47. March 12, 1927. Libr. Cong. DS501.C5
The writer points out the need for careful selection in the Chinese peanut, the advantage for the Tsingtao port because the rates from Tsingtao to America are about half of those from Shanghai to America, and the uses for the peanut. France and Spain are mentioned as purchasers of the Chinese peanut after the United States.
468. Nyhus, Paul O. The export peanut trade of China. Chinese Econ. Jour. 1(11):994-1000. November 1927. 280.8.C442
The leading export ports, the Chinese export trade in peanuts and peanut oil, peanut prices at Tsingtao, price factors in China, and the 1926-1927 market season are taken up.
469. Peanut oil - by the old process. How the Chinese make this product, used largely in the East for cooking purposes. Chemicals 32(27): 22. Dec. 30, 1929. 306.8 C42

470. Peanut oil industry. Chinese Econ. Jour. 11(4):282-289. October 1932. 280.8 C442

Gives figures on the mills operating in Tientsin, their daily output, workers, monthly wage, annual production, and capital; lists the dealers operating in Tsingtao with the types of peanut product they export; and shows the quantity of exports of peanut oil from China, by destination, 1928-1930, and the exports from individual ports, 1928-1930.

471. Production and export of groundnuts. Chinese Econ. Jour. 19(3):257-263; (4):374-395. September, October 1936. 280.8 C442

This article takes up the history of the peanut in China, world production (giving figures for each country), exports from China, 1933-1935, production, the variety and quality of the nuts, the uses for them, the various distributing centers, transportation and freight rates by rail and steamship, quantity of exports of shelled and unshelled nuts from various ports, export firms, packing, inspection and tariff rates.

Colombia

472. Bernal, Washington. Cartille sobre el cultivo y beneficio del maní. Colombia. Departamento de Cundinamarca, Secretaría de Hacienda, Sección de Agricultura, Bull. 4, Ed.2, 16pp. Bogotá, Colombia, 1932. 9.4 C713

The writer describes the place of peanuts in the rotation, harvesting, uses of the peanut, peanut butter, peanut oil and meal (including methods of extraction and yields), the peanut as feed for hogs, and the future of the industry in Colombia.

Cuba

473. Baldasarre, Juan F. Los usos del maní. Revista de Agricultura [Cuba] (año 3) 3(1):20-22. January 1920. 8 Ag88Re

From the Revista de la Sociedad Rural de Córdoba.

The following phases of the peanut industry are taken up in this article: the important uses of the peanut in human consumption, utilization of peanut by-products for livestock feeding, manufacture of peanut oil, use of the peanut on the farm, value of the plant as a food material, its use for fattening stock, and methods for the handling and curing of the peanut for forage.

474. Calvino, Mario. El cultivo del maní en Cuba. Revista de Agricultura [Cuba] (Año 3) 3(11):404-410. December 1920. 8 Ag88Re

On the cultivation of the peanut in Cuba. Gives the results of experiments, and concludes that by delaying sowing so that fructification coincides with the dry season and by using certain types of manuring, peanut cultivation can be of great profit on the red, sandy lands of Cuba.

475. Cruz, Francisco B. Cultivo del maní. Revista de Agricultura [Cuba] 14(12):58-68. June 1933. 8 Ag88Re
Harvesting of the peanut crop and the type of labor to use, storing, and the place of the peanut in the rotation, are taken up.
476. Estévez y Pérez, Gaspar. "Cultivo del maní." Revista de Agricultura [Cuba] (año 10) 9(7):26-31. January 1928. 8 Ag88Re
The geographic area of the peanut and its varieties, methods of harvesting in Cuba, the amounts which can be shelled (separation) by machine in a ten-hour day and costs in doing it by hand, yields and uses of the nuts are considered.
477. Fernández Abreu, Lino. El cultivo del maní. Revista de Agricultura [Cuba] 15(15):149-151. June 1935. 8 Ag88Re
Includes a few brief paragraphs on harvesting and yield, and uses for the peanut.
478. Muñoz Ginarte, B. Cultivo del maní. Revista de Agricultura [Cuba] (año 12) 11(1):21-23. July 1929. 8 Ag88Re
Harvesting the crop, yields in kilos per hectare, cost of production and profits per hectare, and composition of the nut are described.
479. Muñoz Ginarte, Benjamín. Cultivo del maní. Revista de Agricultura [Cuba] (año 12) 11(8):40. February 1930. 8 Ag88Re
Contains brief mention of per hectare yields of peanuts, and peanut oil and its extraction.
480. Fuga, César de. Debemos consumir aceites cubanos. Revista de Agricultura [Cuba] 21(4):55-58. April 1933. 8 Ag88Re
Cuba is said to import over 125 million pounds of oils and fats a year. A great saving could be effected through the production of oils at home, as well as the creation of work for 100,000 workers. The Cuban peanut is suggested as a source of high quality oil, and the residue as a rich protein feed for livestock.
481. Reyes, Ismael. Cultivo del maní y sus aplicaciones industriales. Revista de Agricultura [Cuba] 20(6):82-88. June 1937. 8 Ag88Re
Harvesting, pp.86-87; yield, p.87; industrial applications, p.88.
482. Valdivia, Miguel A. El maní. Revista de Agricultura [Cuba] 18(4):5-22. January 1936. 8 Ag88Re
The writer traces the origin of the peanut, its geographical area, methods of seeding, cultivation, fertilizing, harvesting, threshing and cleaning, yields and uses for the nut.
A series of six tables which act as an appendix to this article and which relate to the composition and nutritive value of the peanut are in the Revista, v.19, no.3, pp.141-144, March 1936, under the title: "Datos interesantes tabulados sobre el maní, su composición y valor nutritivo."

483. Valdivia, Miguel A. Maní. Revista de Agricultura. [Cuba] 21(12): 38-41. December 1938/January 1939. 8 Ag88Re
A brief account of peanut harvesting, threshing and yields.

Denmark

484. Denmark. Statisiske departement. Statistiske tabelværk... Danmarks vareindførsel og-ud-førsel i aaret 1937. Importation and exportation du Dänemark en 1937. 278pp. København, Bianco lunos bogtrykkeri A./S., 1938. (Danmarks statistik. Statistique du Dänemark. Statistik tabelværk. Femte Raekke, Litra D Nr. 58, 5me série, Lettre D, No. 58) 257.1 St2T
Consult index, p.263, under arachidnødder and its subhead Olie for class numbers of peanuts and peanut oil.
485. Denmark. Statistiske departement. Vareomsaetningen med udlandet... Commerce extérieur... 1919-date. København, 1920-date. (Danmarks Statistik. Handelsstatistiske meddelelser, v.10-date) 257.1 V42
1919 is an annual number; 1920-date are monthly.
Includes figures of imports of peanut cake and oil and exports of peanut oil for the current month, the yearly total to that month, and comparative tables for the preceding year.

Egypt

486. Egypt. Ministry of finance. Administration des douanes. Rapport sur le commerce extérieur de l'Égypte pour l'année 1934. 152pp. Le Caire, Imprimerie Nationale, Boulac, 1935. 270 Eg933 1934
Quantity of peanuts imported by country of supply, p.137.
See also earlier issues for similar information.
487. Egypt. Ministry of finance. Statistical department. Annual statement of the foreign trade, 1936. 3v. Būlaq Cairo, Govt. press, 1937. 270 Eg9C 1936
Volume I, has tables showing imports of groundnuts (quantity and value) by country of origin, imports of groundnut oil and butter, and exports of groundnuts.
Volume II has tables showing imports and exports by country, and groundnut products are listed under some of them.
Volume III shows transit trade for imports and exports including groundnuts and groundnut oil, 1936 and 1935.
The Library of the U.S. Dept. of Agriculture has also Volume I of the 1937 annual.
488. Egypt. Ministry of finance. Statistical department. Monthly bulletin of agricultural and economic statistics, v.1, Oct. 31, 1912-date. Cairo, 1912-date. 270 Eg93M

V.1, no.9-v.7 have title: Monthly return showing the state and prospects of the Egyptian cotton crop and some statistics of the other principal Egyptian commodities. Nos. 1-2 of the first year are issued as separate publications having 2 nos. each, and with titles: Monthly return showing the state and prospects of the Egyptian cotton crop in the year 1912 by comparison with the crop of the year 1911 and Monthly return showing the prices week by week, of the principal agricultural products of Egypt. With no.3, they merge in one publication. V.8-v.13, no.5, Sept. 30, 1919-Jan.1925, have title: Monthly agricultural statistics. V.13, no.6-v.22, Feb. 1925-Aug. 1934, have title: Monthly agricultural and economic statistics.

The issue for August 1936 which was examined, contained reports on the condition of the groundnut crop in each part of Egypt; index numbers of wholesale prices of groundnuts in Cairo and Alexandria; new index number of wholesale prices, for the months March to August 1936; wholesale prices of groundnuts in principal towns during August 1936; wholesale prices of groundnuts in the Cairo and Alexandria markets; current imports and exports of groundnuts.

489. Egypt. Ministry of finance. Statistical department. Monthly summary of the foreign trade, 1892-date. Cairo, 1892-date. 270 Eg9B
Lists current imports (quantity and value) of groundnuts and groundnut oil for soap manufacture, and exports of groundnuts.
1892-1916 are v.6-31, issued by Direction générale des douanes, with title: Bulletin mensuel du commerce extérieur de l'Égypte; 1918-1920 issued by Customs administration. Statistical office; 1921-1925 issued by Ministry of finance, Customs administration (compiled by Statistical department).
490. Maynard, Lester. The peanut industry in Egypt. Peanut promoter 4(4): 49-50. March 1921. 77.8 P31
Acreage, production, exports, and utilization are briefly discussed.

France

491. Dechambre, P. L'alimentation économique. Les tourteaux dans l'alimentation du bétail. Revue de Zootechnie [Paris] 2(6):442-445. June 1923. 49 R322
Communication to the Congrès de la Production Coloniale, Marseille, June 1922.
On the use of oilcake, including peanut cake, for economical livestock feeding.
492. Ford, Allen V. de Peanut oil production in Marseille. Cotton Oil Press 4(9):54-55. January, 1921 307.8 C8234
The writer states that "The peanut oil industry of Marseille

is by far the highest developed manufactory of anywhere that I have seen." He describes the methods used, and gives the yields obtained in oil and cake.

493. France. Direction générale des douanes. Tableau général du commerce extérieur, année 1937. Commerce de la France avec ses colonies et les pays étrangers. 625pp. Paris, Imprimerie Nationale, 1938. 260 D74T

Consult index under "Arachides" for references to imports and exports of peanuts and peanut oil. This information is given by country of origin and destination.

See also earlier editions of this report.

494. France. Ministère des colonies. Agence générale des colonies. Renseignements généraux sur le commerce des colonies françaises et la navigation en 1928. 341pp. Paris, Bureau de vente des publications coloniales officielles [1931] 260 C712R 1928.

The section on exports contains a table, pp.250-255, showing 1928 exports by country of destination of unshelled peanuts from Senegal, French Sudan, French Guinea, the Ivory Coast, Dahomey, Middle Congo, Oubangui-Chari, Madagascar and dependencies, Indo-China, Martinique, and India; and shelled peanuts from Senegal, French Guinea, the Ivory Coast, Dahomey, French sections of India and Oubangui-Chari.

Another table, p.306, gives 5-year averages for peanuts and peanut oil exported from French colonies, 1900/04, 1905/09, 1910/14, 1915/19, and 1920/24.

Earlier reports should be consulted for similar information.

For later figures, see the publications of the International Institute of Agriculture.

495. France. Ministère des finances. Direction générale des douanes. Statistique mensuelle du commerce extérieur de la France. Jan. 1893-date. Paris, 1893-date. 260 D74

Jan. 1893-Dec. 1923 have title: Documents statistiques...sur le commerce de la France.

The index is to be consulted under "Arachides" for references to material on imports and exports of peanuts and peanut oil. This gives quantity and value, arranged according to foreign countries and the French colonies, for the current year to month of publication and comparative figures for the preceding year.

496. Gautier. L'emploi des huiles végétales comme combustibles pour moteurs Diesel. Le Génie Civil 104(11):247-250. March 17, 1934. 290.8 G29

This is a study on the use of vegetable oil as fuel for Diesel motors. Among other things, it is pointed out that trials have shown the possibility of operating small Diesel motors with peanut oil, and a study was undertaken at the Établissement National

de la Marine to see if it might be used for larger ones. Gas oil, peanut oil, palm oil, shea butter and castor oil were used in the tests. The price of palm oil at Marseille in January 1933 was 1800 francs a ton, peanut oil, 2300 francs and castor oil, 2700 francs. The factors tending to increase production and reduce the selling price for these oils are enumerated.

497. Gouin, R. Les tourteaux d'arachides, leurs qualités, leur emploi. Jour. Agriculture Pratique (93^e année) (n.s.) 51(9):170-172. March 2, 1929. 14 J82

An account of the characteristics and utilization of peanut cake in livestock feeding. It is pointed out that in spite of its high price peanut cake is a concentrated feed supplying protein at the lowest cost.

498. Marseille. Institut colonial. Annuaire économique colonial. Commerce et production des colonies françaises et des matières premières coloniales. (IV^{me} édition) 429pp. Marseille, Institut Colonial, 1930. 260 M352

The first part of this volume takes up production and trade by colonies, and peanut exports are given under certain of these. The second part is arranged by products, and the report on peanuts (under the grouping Les Matières Grasses) is by Frank Fehr and Co., pp.330-331. In it are discussed the trade situation with regard to peanuts in India, China and Nigeria. Exports of peanuts, by tons, from India, China, Nigeria, Gambia, and Senegal are listed for 1919, 1925-1929.

499. Monmirel, M. Quelques travaux de l'Office agricole de Seine-et-Oise. Le Lait 7 (63-65):236-256; 342-354; 440-452. March-May 1927. 44.8 L143

The third installment reports feeding trials with peanut cake and bran with dairy cows in order to determine the nutritive value of the bran.

500. R., L. L'huile d'arachide utilisée comme insecticide. Revue Scientifique 73(13):447. July 13, 1935. 473 R32

This is a brief résumé of work done by Balachowsky and published in the Quinzaine Coloniale of Nov. 10, 1934, on the utilization of peanut oil in the preparation of an insecticide. This has been used on pear trees with destruction of 98% of the insects.

501. Torrilhon, Marcel Lamy, and Saillard, Émile. Une source nouvelle de saccharose industriellement exploitable. Academie d'Agriculture de France, Comptes Rendus 19:992-995. Nov. 29, 1933. 14 P215Bc

Note presented by M. Émile Fleurent.

This article is made up of two brief reports on the peanut as an industrially exploitable source of saccharose.

French West Africa

502. L'amélioration de l'arachide sénégalaise. Revue Scientifique 73(13): VIII. July 13, 1935. 473 R32

A description of the program by the Senegal Government to improve the peanut crop, which began with the distribution of 37 tons of selected seed in the circle of Siné-Saloum. These will give a yield of 370 tons which will in turn be divided. By continued multiplication, it was expected to reach all the regions in 1939.

503. L'amélioration de la culture de l'arachide au Sénégal. Institut Colonial de Marseille, Bulletin des Matières Grasses, 1920, no.2, pp.61-84. 77.9 M35

This article on the improvement of peanut culture in Senegal is made up of three parts, the first of which is a Rapport de Mission by A. Chevalier. In this he points out that the program of the experiment station has three main research branches:

1) the scientific study of the peanut from the general point of view; 2) special study from the viewpoint of native culture (including improvements in machinery, and improvements of an administrative order) and 3) special study from the point of view of culture by the Europeans.

Also in: Congrès de la production coloniale, Marseille, 1922. Mémoires et rapports sur les matières grasses, v.1, pp.221-244. Marseille, Institut Colonial; 1922. 307 C76

504. L'arachide au Sénégal. Revue Scientifique 73(23):VI, VIII. Dec. 14, 1935. 473 R32

An account of progress in the improvement of the Senegal peanut crop, and the increase in areas planted.

505. Baillaud, Émile. L'organisation économique de l'Afrique occidentale française; notes de voyage de M. Émile Baillaud... 72pp. Marseille, Institut Colonial, 1936. 280.19 B15

Part II, Les Produits, pp.24-44, describes the important products of French West Africa, including, pp.24-29, the peanut. Fluctuations in Senegal exports of the crop, the efforts on the part of the Government to develop peanut production, to introduce mechanical methods, and to lower transportation prices are enumerated, as well as the work of the Bambey station in seed selection and distribution, the work of the General Government in studying the industrial aspect of the peanut crop, and the question as to whether peanuts should be shipped shelled or unshelled.

Part III, La Colonisation, pp.44-50, has a section, L'Arachide, p.45, which takes up the question of developments given over to peanut culture, no important projects at present, being devoted exclusively to peanuts.

Part V, Les Sociétés de Prévoyance, pp.54-65, describes these cooperative provision societies, their work in building up reserves of seeds and financing the operator, in regulating sales, price control, preparation of products, and native agricultural credit.

Part VI, L'Organisation scientifique agricole, pp.65-70, brings out the scientific agricultural organization in the country, including the Bambey station given over to the study of the peanut and established with the capital of the liquidated Consortium de l'Huilerie at the close of the World War.

506. Corbin de Mangoux, A. La situation économique de l'Afrique occidentale française. 54pp. Paris, Société d'études et d'informations économiques [1934] (Supplément au Bulletin quotidien [de la Société d'études et d'informations économiques] mars 1934) Libr. Cong. HC547.W506

This is a general study on the economic situation in French West Africa, which, however, contains passages on the peanut. A discussion of peanut culture, the amount produced, the stages through which the product passes before it is finally exported, its conversion into oil, and the net cost of producing the crop, are given, pp.8-10. The problems of peanut production are taken up, pp.26-27, including the efforts being made to improve its culture and the Government's efforts to encourage production. In the section devoted to market protection, the difficulties facing the Government in the matter of oilseeds such as peanuts are brought out, pp.52-53.

507. Delavignette, Robert. La route des arachides. Journal des Débats 39(pt.2)(2007):268-270. Aug. 12, 1932. Libr. Cong. AP20.J73

Includes a description of the natives in French West Africa who grow the peanut crop, the importance of the crop in the country's economy, the route over which the peanuts pass and which no longer provides a profit, and the assistance furnished by the Chambres de Commerce and the railway to growers. It is shown that the trouble all arises from the fact that the grower formerly sold all his crop to a dealer who, the following year, advanced him the seeds he needed, and for this, the grower had to repay him at the rate of two or three sacks for one, if he paid in kind, or too high a price, if he paid in coin. Production was therefore lowered, the trade refused to continue the system of private advances. The native Sociétés de Prévoyance, a cooperative enterprise which distributes seeds to growers, came as a solution to the problem. Questions and problems which are arising in connection with these Societies are enumerated.

508. Delavignette, Robert. Semaines d'arachide; une grande expérience d'économie coopérative au Sénégal. Revue Politique et Littéraire (Revue Bleue) 70(21):651-654. Nov. 5, 1932. Libr. Cong. AP20.R64

The author describes the working of the cooperative sowing of peanuts in Senegal, which is sponsored by the Sociétés de Prévoyance. He points out that in Senegal the sharp wage problem between European planters and native workers does not exist, but that there is a labor problem. Seasonal migration of Nevétanes from the Sudan has been encouraged by the Chambres de Commerce which have advanced 300,000 francs for the purpose, and the railroad has offered reduced fares. The probable future and importance of these Societies are discussed.

509. French West Africa. Agence économique. Bulletin mensuel, année 2, (n.s.) no.5, May 1921-date. Paris, 1921-date. 270 F842B
Année 5-10 have numéro spécial: L'Afrique occidentale française en 1923-1929.
Contains detailed statements of the trade in peanuts and peanut oil.
510. Great Britain. Department of overseas trade. Report on economic and commercial conditions in French West Africa...1933-1936, by Victor V. Cusden..., 67pp. London. H.M. Stationery Off., 1937. (Gt. Brit. Dept. of Overseas Trade, No. 664) 270 G792F 1933-1936
Ch. IV, Trade, pp.16-35, has a section on Exports which indicates the increasing exports of shelled groundnuts, p.32. This extract is given under title: Ground nut industry. Increasing exports from French West Africa, by Victor A. (!) Cusden, in Chem. Age [London] 36(935):482. May 29, 1937. 382 C427
The section on industry and production, takes up the Ground Nut, pp.11-12, pointing out its importance to French West Africa and in particular to Senegal, the quantity produced, prices, and extent of cultivation. The benefit to groundnuts from the surtax on oleaginous products imported into France, is mentioned.
Appendix I, pp.50-52, shows quantity and value of groundnut oil imported into French West Africa, 1933-1935; Appendix III, pp. 55-56, quantity and value shelled and unshelled groundnuts and groundnut oil exported from French West Africa, 1933-1935; Appendix V, pp.58-59, groundnut oil imported into French West Africa during the first six months of 1936; and Appendix VI, quantity and value of shelled and unshelled groundnuts and groundnut oil exported from French West Africa during the first six months of 1936.
Annex II. Report on Trade Conditions in French Cameroons for period January, 1933, to June, 1936, by Mr. W. Darwall, pp.64-67, gives exports of groundnuts, 1933-1936, p.65.
511. Guiraud, Xavier. L'arachide sénégalaise; monographie d'économie coloniale. 269pp. Paris, Librairie technique et économique, 1937. 281.377 G94
Bibliography, pp.265-266.
A survey of fats and oils in general and of peanuts in particular on the world market serves as a background for the author's

study of the peanut in Senegal. This includes an account of its origin and development, production and marketing, and a discussion of the reforms necessary to place the industry on a sound and durable basis.

512. Jacquet, A. Les corps gras d'origine végétale en France. Une des sources: Le Sénégal; sa production: l'arachide. Société des Ingénieurs Civils de France. Mémoires et Compte Rendu des Travaux, Bulletin 87(1-2):74-162. January-February 1934. Bur. Standards Libr. 44929

Bibliographie: p.159.

This is a very complete account of the production of peanuts in Senegal and their problem. Following a general examination of the various oilseeds in Chapter I, the author takes up French imports of peanuts and their sources, 1929-1933 in Chapter II. Chapter III has a description of the peanut plant, and the uses to which the seed, the cake, the hulls, and the plant itself may be put, the use of the oil as a combustible liquid and its value for running engines. Chapter IV outlines the place of peanut production in the various producing countries, namely British India, China, Nigeria and French West Africa; Chapter V, the place of the peanut in the exports of French West Africa (including quantity and value of exports) and the rôle of the peanut in the economic activity of Senegal. In this connection the possibilities of improving production are pointed out. Chapter VI takes up the present methods of producing peanuts in Senegal, methods of harvesting, the production zones, area cultivated and returns. Chapter VII goes into detail on the Senegal trade in peanuts, the inspection of the crop by the Office d'Inspection et du Conditionnement des produits naturels, the commercial organization of the country, the financial mechanism of the Senegal trade (including credit used for the formation of stocks and for covering expenses of transportation and maintenance), and automobile transportation as a cause of overloading the net cost of the product. Chapter VIII takes up the various ports in the country from which the nuts are exported and which are said to be uneconomical for intense traffic. Chapter IX discusses the economic situation of the local market and the expenses which must be borne by the crop, such as transport, maintenance, sacking, freight, general commercial expenses, and various taxes, the purchase price of peanuts to the cultivator, and the local trade situation.

Part II points out that the improvement of the present situation in Senegal depends upon four different problems whose solutions are connected: 1. The colony needs an abundant crop through increase in production, which is an agricultural problem; 2 and 3. This crop should assure the native a substantial profit, give a share to the trade, and be able to be offered on the market at a low price, which forms the commercial and technical problems; 4. The world market situation in oilseeds demands research in the proper means

of revalorizing the product. This is the economic problem.

Abstract by A. G. in *Génie Civil* 104(12): 279-280. March 24, 1934. 290.8 G39

513. Launay. Le transport des arachides sur les chemins de fer de Thiès à Kayes et de Dakar à Saint-Louis. Institut Colonial de Marseille. *Bulletin des Matières Grasses*, 1920, no. 4, pp. 189-193. 77.9 M35
Transportation of peanuts on the Thiès to Kayes and Dakar to Saint-Louis railroads, 1919-1920, and 1920-1921.
514. Marseille. Institut colonial. [Mimeographed release], May 20, 1937, Feb. 23, Mar. 16, 1938. Marseille, 1937-1938. Pam. Coll.
This is a mimeographed report, appearing at apparently irregular intervals, which contains, at times, information on the French West African peanut crop. The following issues are especially to be noted:
May 20, 1937, "La Récolte des Arachides en Afrique Occidentale", gives figures on the exports of the 1936-37 crop, import licenses, Nigerian exports, and quantities of oil made in France from oil-seeds, including peanuts, 1936 and 1935.
Feb. 23, 1938 issue contains a summary of peanut exports from Senegal, Feb. 8, 1938, and information on the 1937-38 crop.
March 16, 1938 issue also contains data on the 1937-38 peanut crop.
515. Maunoury, R. Essais de culture mécanique de l'arachide au Sénégal. Institut Colonial de Marseille. *Bulletin des Matières Grasses*, 1921, nos. 11-12, pp. 188-197. 77.9 M35
This is a report of the work of the first season of mechanical peanut culture by the Compagnie Française de l'Afrique Occidentale in the Kaolack district.
Also in: *Congrès de la production coloniale*. Marseille, 1922. *Mémoires et rapports sur les matières grasses*, v. 1, pp. 245-254. Marseille, Institut Colonial, 1922. 307 C76
516. Paris. Exposition coloniale internationale, 1931. Commissariat de l'Afrique occidentale française. *L'Arachide*. 18pp. [Rochefort-sur-Mer, Imprimerie A. Thoyon-Thèze] 1931. Pam. Coll. 77P
After discussing the place of the peanut in the French West African economy, the writer takes up the peanut in Senegal: its exports, production, population living by peanut culture, methods of sale, local prices, and the future of the crop; peanuts in the colonies in the group other than Senegal; utilization of the peanut; manufacture of peanut oil; regulation (inspection) of peanuts in Senegal, French Sudan and French Guinea; and the world peanut market.
517. [Senegal. Services de l'agriculture.] La traite de l'arachide 1936-1937 au Sénégal (d'après les Services de l'Agriculture du Sénégal). Marseille

Institut Colonial de Marseille. Bulletin des Matières Grasses 21 (9):218-220. 1937. 77.9 M35

A review of the 1936-37 peanut season in Senegal, which exceeded expectations in the exportable crop, and saw a provision of 51,000 tons of seeds made by the Provident Societies (Sociétés de Prévoyance).

518. X.X.X. Le "statut" de l'arachide. Europe Nouvelle 15(756):963-964. Aug. 6, 1932. Libr. Cong. AP20.E88

A discussion of the peanut problem. It is pointed out that the importance of the peanut lies in its oil products, that France imports large quantities - more than half of its oilseed imports are peanuts - and that barring China and the United States, the world trade in peanuts is confined to India and West Africa, particularly Nigeria and Senegal. The writer describes the particular characteristics of Senegal peanut production, and says that the peanut has its price crisis, and has been touched by the general depression. This has brought about a series of projects designed to give a "statut" to the Senegal peanut. First there was tried out a lowering of export duties and railway rates; then research in the economies to be realized in commercialization of the product was started, and a large program for rationalization of management and buying processes was put into action; and finally a return was made to the old system of customs duties. This problem has great importance in the larger imperial problem of France, according to the writer, and the reactions of the Bordeaux and Marseille oil industries to the tax on Coromandels (imports of shelled peanuts from India) are discussed.

Germany

519. Germany. Statistisches reichsamt. Der auswärtige handel Deutschlands im jahre 1928 verglichen mit den jahren 1926 und 1927. 3 pts. Berlin, Reimar Hobbing, 1929. (Statistik des Deutschen Reichs, Band 366) 265 St2S

See index to part 1 under Erdnüsse and Erdnussöl for key numbers to figures on quantity and value of shelled and unshelled peanuts imported and exported according to country, 1928, 1927 and 1926.

520. Germany. Statistisches reichsamt. Monatliche nachweise über den auswärtigen handel Deutschlands, 1892-date. [monthly] Berlin, 1892-date. 265 St2A

Quantity of exports and imports, by country, of shelled and unshelled peanuts and peanut cake. The index should be consulted for the key numbers to these products. (See under Ölfrüchte und Olsaaten and Ölkuchen under Rohstoffe und Halbfertige Waren).

521. Germany. Statistisches reichsamt. Statistisches jahrbuch für das Deutsches Reich, 75th Jrg., 1938. 652, 356, 27pp. Berlin, Verlag

für Sozialpolitik, Wirtschaft und Statistik, 1938. 265 St2St
Consult index under "Erdnüsse" and "Erdnussöl" for statistics
on imports and exports of peanuts, and output and wholesale prices
of peanut oil.

See also earlier issues.

This publication first appeared in 1880. 1880-1918 issued by
Kaiserliches Statistisches Amt.

522. Germany. Statistisches Reichsamt. Vierteljahrshefte zur Statistik des
Deutschen Reichs, Jahrg. 1, 1892-date. Berlin, 1892-date. 265
St2V

Vol. 1-26, 1892-1917, issued by Kaiserliches Statistisches Amt.

Vol. 43, 1934, which was examined, had, no. 4, p. 89, a section
discussing German foreign trade in peanuts (Erdnüsse), with a
graph showing index figures of imports, 1925-1931; and a table,
p. 93, movements of peanuts, 1925/31, 1926-1931.

See other issues for similar information.

523. Neubauer, H. Die Preiswürdigkeit der handelsfuttermittel. Landwirt-
schaftliche Zeitschrift für die Rheinprovinz (n.s.) 23(7):70,71.
Feb. 17, 1922. 18 R34

"This article deals with the present prices of feeding stuffs
in Germany and takes up the energy value (starch equivalent) of
the more important ones. Based on the prices at Cologne, the
feeding stuffs mentioned are listed according to the cost of energy
as follows, the most expensive sources of energy appearing first
..." - Expt. Sta. Rec. 47:69.1922.

Peanut cake appears sixth on the list.

524. Rost, E. Zur gesundheitlichen Beurteilung einiger in der Neuzeit für
Genusszwecke empfohlener fette. I. Teil. Tierphysiologische und
pharmakologische Untersuchungen gehärteter pflanzlicher Öle (baum-
wollsaamen-, erdnuss-, lein-, und sesamöl) und des ungehärteten
sesamöls. Arbeiten aus dem Reichsgesundheitsamte 52(1):184-209.
June, 1920. 449.75 G31

"Observations are reported of the digestibility by dogs of va-
rious commercial hardened or hydrogenated oils [including peanuts],
as judged by gain in weight and general appearance of the animals.
The author concludes that the fats tested are eminently suited to
human consumption" - Expt. Sta. Rec. 45:367. 1921.

525. Völtz, W., Jantzon, H., and Reisch, E. Mästungs- und ausnutzungsversuche
an Hammellämmern mit Harnstoff im Vergleich zu Erdnusskuchen. Land-
wirtschaftliche Jahrbücher 59(3):321-340. 1924. 18 L23

Fattening and nutritional investigations with wether lambs in
comparing urea with peanut cake.

India

526. Great Britain. Department of overseas trade. Conditions and prospects of United Kingdom trade in India, 1933-1934. Report by Sir Thomas M. Ainscough. 257pp. London, H.M. Stationery off., 1935. (No.593) 269.5 G792 1933/34
Ch. III, Paragraph 1, Preferences accorded by the United Kingdom to India, gives the situation for Groundnuts, p.94. The Appendix to Ch. III, is a table which includes exports of groundnuts and oil from India to the United Kingdom, 1931/32-1933/34.
See also earlier reports.
527. India. Department of commercial intelligence and statistics. Accounts relating to the sea-borne trade and navigation of British India... 1906/07-date. [monthly] Delhi, Nov. 1907-date. 269.5 St2M
Gives exports (quantity and value) of groundnuts, and groundnut oil and cake, by country of destination, for the current month, the preceding nine months (average) and comparative tables for the two preceding years.
528. India. Department of commercial intelligence and statistics. Agricultural statistics of India(52nd)1935-36. 2 v. Delhi, Manager of publication, 1938. 269.5 St2Ag
Volume I gives statistics for British India, and Volume II gives them for certain Indian States. Consult index in each volume for references to detailed figures on area under groundnuts, and the British India volume for harvest prices and yield per acre.
Library, U.S. Dept. of Agriculture set begins with the 11th, 1894/95.
11th-16th, title reads: Agricultural statistics in British India. Beginning with the 17th, the report is published in two parts: Pt.1, British India; Pt.2, Native states.
11th-28th issued by Dept. of Revenue and Agriculture (20th-28th comp. by Commercial Intelligence Dept.); 20th-37th, Pt.1, by Dept. of Statistics; 37th, Pt.2 -38th, by Commercial Intelligence Dept.
529. India. Department of commercial intelligence and statistics. Estimates of area and yield of principal crops in India, 1st, 1891/92-40th, 1937/38. Calcutta, 1900-1939. 269.5 St2Ar
1st-7th, published by Statistical Dept. 8th-15th, 24th-25th, published by Commercial Intelligence Dept.
In the issue for 1930/31 which was examined, the character of the groundnut crop is discussed, (p.5), and there are the following statistics: area in acres of groundnuts, specified periods, 1895 to 1931, and yields of groundnuts (p.8); yield per acre of groundnuts in shell, by provinces; 1921/22-1930/31 (p.11); standard or normal yield per acre of groundnuts in the shell, by provinces (p.12); area and yield of groundnuts in each province, 1921/22 to 1930/31. Appendix V. p.50, has data on the seasons of sowing

and harvesting of the groundnut crop and the areas where it mainly grows.

Other issues of this report should also be consulted.

530. India. Department of statistics. First groundnut forecast, 1922-23. 1 p. Calcutta, October 21, 1922. [no. 1693] 77.9 In272G
Library, U. S. Dept. of Agriculture has also a two-page Final General Memorandum on the Groundnut Crop of the Season 1921-22, [no. 1562], dated Feb. 21, 1922.
Both of these were annual publications. They are no longer issued in separate form but are now published in Indian Trade Journal.
531. India. Bombay. Department of agriculture. Groundnut crop forecasts. 3 nos. Poona, 1936. 77.9 In23M
These three publications have the following titles:
Preliminary memorandum on the groundnut crop of the Bombay Presidency (including Indian states) for the season 1936-37. 1p. Poona. Aug. 15, 1936.
Second memorandum on the groundnut crop of the Bombay Presidency (including Indian states) for the season 1936-37. 1p. Poona. Oct. 15, 1936.
Final memorandum on the groundnut crop of the Bombay Presidency (including Indian states) for the season 1936-37. 5pp. Poona. Dec. 23, 1936.
These are annual. The last published were Aug. 16, Oct. 15, and Dec. 27, 1938.
532. India. Burma. Department of agriculture. Groundnut crop prospects, 1938-39. First forecast of the groundnut crop in Burma for the year 1938-39. 2pp. Rangoon, Aug. 10, 1938. (G.B.C.P.O.-no.53, C.S.L.R., 16-8-38 - 155) 77.9 In26
The second report was published Oct. 10, 1938; the third, Dec. 10, 1938; and the final report, Feb. 10, 1939.
The library of the U. S. Dept. of Agriculture has also a press communique: Summary of the First Forecast of the Groundnut Crop in Burma for the Year 1938-39. 1p., processed. Rangoon, Aug. 10, 1938.
These are annual publications.
533. India. Central provinces and Berar. Department of land records. Forecast of the groundnut crop of the Central Provinces and Berar for the season 1937-38. 1p. Nagpur, Feb. 8, 1939. 77.9 In29F
This is an annual publication, beginning 1931/32.
534. India. Madras. Department of agriculture. Groundnut crop forecasts. 4 nos. Madras. 1938-39. 77.9 In22G
These series of statistics were published as follows: 1. April 11, 1938; 2. Aug. 13, 1938; 3. Oct. 13, 1938; 4. Jan. 13, 1939. The first for the 1939 crop (Apr. 18, 1939) has also appeared.

535. Indian trade journal, v.41, no.523, Apr. 7, 1916-date [weekly] Calcutta, 1916-date. 286.8 In24
Issued by the Commercial Intelligence and Statistics Department of India.
Gives prices and trade movements of groundnuts and groundnut cake; weekly arrivals and dispatches of staple commodities including groundnuts; crop condition reports, crop forecasts; statistics of imports into foreign countries from India; etc.
536. Lieberherr, E. A few notes on Indian groundnuts. 54pp. Bombay [The Times Press. 1928, 77 L62
Bibliography: p.54.
Following a discussion of the cultivation and varieties of the peanut, there are described the Bombay grades, size of nuts, oil content, condition of nuts for shipping, yield, by-products, cost of production, the taking over of groundnuts from producers, the refraction basis, shelling, preparation for export, Indian consumption, and tariff protection for the Indian crushing industry.
537. Littlewood, R.W. Feeding experiments, Bangalore. Madras. Dept. Agr. Yearbook 1923:43-54. Madras, Govt. press, 1924. 22 M26Y
Experiment III shows results in feeding peanut cake vs. linseed cake vs. gingelly cake to cows.
538. Mahta, D.N., and Janoria, D.L. Groundnut as a rotation crop with cotton. Indian Jour. Agr. Science 3(5):917-932. October 1933. 22 Ag83I
"To make a permanent success of cotton, it must be made to form one member in a rotation of crops and not the sole crop that is taken off the same ground year after year... In the following pages are described briefly some of the successful results achieved on the Government Experimental Farm, Akola, in experiments with rotations." The rotations include peanuts. A section is devoted to the financial aspects of the matter, and another to reductions in cost of harvesting in Berar.
539. Oleaginous seeds. Export supplies. Times [London] Trade and Engineering (British India & The Indian States Section) 44(902):1. April 1939. 286.8 T482
Includes a brief history of groundnuts in India, and mentions the improved method in use of shelling the nuts, increasing exports, and the importance of the crushing industry.
540. Patel, J.S., and Seshadri, C.R. Oil formation in groundnut with reference to quality. Indian Jour. Agr. Science 5(2):165-175. April 1935. 22 Ag83I
"The present investigation deals with the rate of oil formation in groundnut and the effect of early harvest on the quality of produce."

541. The peanut crop of India. Amer. Fert. 53(10):92,94. Nov. 6, 1920.
57.8 Am3
This is a very brief account of varieties grown in India, the acreage of peanuts in the Madras Presidency, and the proportion of the crop consumed at home and abroad. Southern India's chief use for the nuts is said to be the extraction of oil, one or more small native mills being found in almost every village.
542. La production d'arachides et d'huiles d'arachides dans les Indes. Les Matieres Grasses 13(163):5975-5976. Nov. 15, 1921. 307.8 M42
On the production of peanuts and peanut oil in India. Tables show the area cultivated and production in tons by districts, and the exports of nuts by country of destination 1912/13-1919/20. Local prices are given as of June 1920.
543. Sen, Bonkim Chandra. Sur les graines oléagineuses de l'Inde (Production agricole et commerce). 210pp. Paris, Les Presses Universitaires de France. 1933. 77 Se52
Ch. VI, L'arachide, pp.121-141, briefly traces the history of the peanut plant, and the extension of its culture in India and other countries, and discusses its use in India, exports, and industrial uses of the nut and oil. There are numerous statistical tables in the text.
544. Shirname, T.G. Marketing of some agricultural products exported from Bombay to the United Kingdom. India. Bombay Presidency. Dept. Agr. Bull. 173 of 1933, Ed.1, 73pp. Bombay, 1933. 22 B63B no.173
Bibliography, pp.71-72.
Groundnuts, pp.23-31.
545. Sinha, Amalya Ratan, Sinha, Haris Chandra, and Guha Thakurta, Jnan Ranjan. Indian cultivators' response to prices. Sankhya; Indian Jour. Statis. 1(2 and 3):155-165. May 1934. 251.8 In2
Cotton, linseed, and groundnuts are the commercial crops studied.
From their analysis the authors conclude that "it is clear that in the case of at least three commercial crops, there is significant relation between the price and the subsequent acreage. Fairly high correlation coefficients (of the order of 0.6) have been obtained even for a period of great economic disturbance, although 'proper prices' have not always been available. It follows that in estimating crop areas by statistical methods it is necessary to take both the meteorological and economic factors into consideration."

Indo-China

546. Great Britain. Department of overseas trade. Report on the commercial

situation in Indo-China,...September, 1923, by...F.G. Gorton... with the assistance of...H.F.C. Walsh...24pp. London, H.M. Stationery off., 1923. 269 In2 1923

Exports of groundnuts from Indo-China, 1922 and 1921, p.17.

547. Indo-China, French. Administration des douanes et régies. Tableau du commerce extérieur de l'Indochine, année 1935-1937. Hanoi, 1936-38. 260 In2T
At head of title: République française. Gouvernement général de l'Indo-chine. Administration des douanes et régies.
1935-1937 have comparative statistics for 1934-1933-1932; 1935-1934-1933, [etc.]
The 1935 annual which was examined had tables 88 and 110 under both import and export sections, giving imports and exports of peanuts and peanut oil for 1935, with comparisons, 1934-1932.
548. Indo-China, French. Service de la statistique générale de l'Indo-chine. Annuaire statistique de l'Indochine, v.1-7, 1913-1937. Hanoi, 1927-38. 260 In22
At head of title, v.1-2: Gouvernement général de l'Indochine. Direction des affaires économiques. Service de la statistique générale.
Vol.1, "Recueil de statistiques" covers the years 1913 to 1922.
Vol.2 covers the years 1923-1929; vol.3, 1921-1931; vol.4, 1931-1932; vol.5, 1932-1933; vol.6, 1934-1936; vol.7, 1936-1937.
At head of title, vol.3: Gouvernement général de l'Indochine. Inspection générale des mines et de l'industrie. Service de la statistique générale de l'Indochine. Vol.4-6: Gouvernement général de l'Indochine. Direction des affaires économiques et administratives. Bureau de la statistique générale; vol.7: Gouvernement générale de l'Indochine. Direction des services économiques. Service de la statistique générale.
The following information is given in volume 3: Ch.VI. Table V. p.108. Exports of peanuts in tons, 1931-1929; Ch.X. Table VIII. p.155. Quantity of peanuts imported, according to importing country and province of entry, for 1930 and total imports for 1929 and 1930; p.156. Imports of peanut oil, by importing country and province of entry, and total imports for 1929 and 1930; Ch.X. Table IX. p.166. Exports of peanuts by country of destination and province from which sent, for 1930, with total exports for 1929 and 1930, and the same information for peanut oil; Ch.X. Table XIII. p.173. Figures in tons of peanut oil transported in 1929 and 1930.

Italy

549. Italy. Istituto centrale di statistica. Bollettino mensile di statistica, anno 1, Nov. 1926-date. Rome, 1926-date. 261 Is7
Anno 1-date are Supplemento ordinario alla Gazzetta Ufficiale del Regno d'Italia.

Volume 12, no.12, Dec. 21, 1927, which was examined, had statistics on area, production and yield of peanuts, by departments of Italy, 1936 and 1937.

550. Italy. Istituto centrale di statistica. Bollettino mensile di statistica agraria e forestale, anno 1, Jan. 1928-date. Rome, 1928-date. 261 Is7B

At head of title: Supplemento Straordinario del Regno d'Italia. Continuation of Italy. Ministero dell'economia nazionale, Ufficio di statistica agraria. Notizie periodiche di statistica agraria. (261 Ag83)

Anno 8, fasc.11-anno 9, Nov. 1935-Dec. 1936 not published.

In the volume examined (8, Jan.-Oct., 1935), a table, p.231, gives duties regulating foreign trade in agricultural products, including peanuts and peanut oil. Table VIII, p.1094-1095, gives foreign trade in chief agricultural products including peanuts. This shows exports and imports 1935 to 1933 and the difference between them.

551. Italy. Istituto centrale di statistica. Movimento commerciale del Regno d'Italia, nell'anno 1934. 2 v., and suppl. to v. 1. Rome, Istituto poligrafico dello Stato, 1936. 261 F49M

The supplement to volume I gives the class number and letter for peanuts (see under Categoria X. Semi e frutti, oleosi, e loro residui) and peanut oil (categoria XI, Oli e grassi, animali e vegetali, e cere).

Volume I gives data on imports and exports, quantity and value, by countries, of these products.

Volume II, has in table XIII, a summary of the value of peanuts and peanut oil imported 1930 to 1934, and in table XXVIII, an analysis of import data which includes peanuts and oil.

Volume I and its supplement for 1935 have also been issued.

The Library of the U.S. Dept. of Agriculture has earlier issues of this report, beginning with 1880.

552. Italy. Istituto centrale di statistica. Statistica del commercio speciale di importazione e di esportazione, Jan. 1896-date. Rome, 1896-date. 261 F49S

See under Categoria X and XI for imports and exports of peanuts and peanut oil, quantity and value, for the current period with comparative tables for the two preceding years. Tables are also given by product showing quantity of imports and exports by country of origin or destination.

At head of title, 1912-1923: Ministero delle finanze, Direzione generale delle dogane e imposte indirette, Ufficio trattati e legislazione doganale; 1924-June 1929: Ministero delle finanze, Direzione generale delle dogane e imposte indirette, Ufficio centrale di statistica; July 1929-June 1935: Ministero delle finanze, Direzione generale delle dogane e imposte indirette, Ufficio di statistica.

The issues Jan. 1937-date have at head of title: Istituto centrale di statistica del Regno d'Italia.

553. Mortara, Giorgio. La produzione agraria e industriale in Italia nel 1937. *Giornale degli Economisti* 53(1):33-39. January 1938.
280.8 G43
Includes figures on Italian production of peanuts in 1937 (table 1).
554. Peanut oil as Diesel fuel. *Automotive Indus.* 78(6):188. Feb.5, 1938.
291.8 Au82
"Experiments on the use of peanut oil in Diesel engines have been carried out in Italy. The physical and chemical properties of the oil were determined and dynamometer and field tests made. The results were compared with those obtained when using A.G.I.P. gas oil, which is widely used in Italy as a Diesel fuel."
555. Zagami, V. Sul contenuto in vitamina antineuritica (B₁) di alcuni semi oleosi. [The antineuritic vitamin (B₁) content of some seed oils]. *Quaderni della Nutrizione* 1(4):284-294. August 1934.
389.8 Q2
Bibliography, p.294.
"Following the technic proposed by G. Amantea of determining the 'beriberi quotient Q_b' in pigeons, and considering the antineuritic value of corn oil as 1, the following vitamin B₁ values were obtained: Almond 0, walnut 1.12, pippin 1.56, peanut 2.75, pistachio 4.06, sesame 4.06, pine 9.25, and sunflower seed oil 26." - *Expt. Sta. Rec.* 77:135. July 1937.

Japan and Manchuria

556. Japan. Department of finance. Monthly return of the foreign trade of Japan, Sept. 1915-date. Tokyo, 1915-date. 269.7 F49M
This publication lists the quantity and value of groundnuts exported and imported.
557. Japan. Ministry of agriculture and forestry, Section of statistics. Statistical abstract...1936/37. 221pp. [Tokyo, Printed by Kawaguchi print. co., 1938.] 269.7 Ag87 1936/37
Table 7, pp.14-15, gives area and production quantity and value in yen for leguminous plants, including peanuts, 1927-1936; quantity and value of peanuts produced 1933-1935 in Korea, Formosa, Karafuto and the Pacific Islands of Japan, pp.186-187; imports of peanuts, 1932-1936, p.179; and quantity and value of peanut cake produced, 1927-1936, pp.52-53.
Set in Library of the U.S. Dept. of Agriculture begins with 1924. Continuation with The statistics of the Department of commerce and industry of The statistics of agriculture, industries and commerce.

558. Japan-Manchoukuo year book, 1939. 1202 pp. Tokyo, The Japan-Manchoukuo year book co [193?] 269.7 J276 1939
Gives figures on production of peanut oil in Japan, 1930-1936 (p.422), quantity and value of groundnut production in Taiwan (Formosa), 1932-1936 (p.549), and exports of groundnuts from Manchoukuo, 1934-1937 (p.847). The Year Book also contains a brief passage (p.764) describing the great development in peanut growing in Manchoukuo particularly in the Kwantung Leased Territory, the proportion of the crop exported and the formation of peanut growers' associations at Pulantien and Pitsuwo in the Territory in 1929 "to conduct strict examinations of peanut exports...and...to function as a credit organ for the growers themselves." The Government has been subsidizing these associations since 1930.
See also earlier editions of this Year Book.
559. Kirjassoff, Max D. Vegetable-oil-bearing materials of Manchuria. U.S. Dept. Com., Bur. Foreign and Dom. Com., Com. Repts., no.161, pp.180-185. July 10, 1920. 157.7 C76D
Peanuts are included in this discussion of oilseeds, which takes up local consumption of the products, marketing of the raw materials, methods of purchasing and brokerage, storage, transportation methods and costs, prices paid to producers, crushing of raw materials, production capacity of oil mills, and number of employees in oil mills and their wages.
560. Manchuria. Department of finance and commerce. 1936 annual returns of the foreign trade of Manchoukuo. 2 pts. [Hsinking? 1937] 269.1 M312 pts. 1-2.
Pt. 1. lists quantity and value of exported groundnut oil by port of exit and country of destination, and shelled and unshelled groundnuts; imports of groundnuts by port of entry and country of origin; and re-exports abroad of groundnuts.
Pt. 2. gives the quantity and value of exports and imports by countries, under some of which groundnut products are listed.
561. Oriental peanut industry. Amer. Fert. 54(4):104. Feb. 12, 1921. 57.8 Am3
A brief survey of the Japanese peanut industry "compiled by the consuls of Yokohama, Kobe and Nagoya."
562. U.S. Department of commerce, Bureau of foreign and domestic commerce. Peanut industry in Japan. U.S. Dept. Com., Bur. Foreign and Dom. Com., Com. Repts. no.12, pp.282-287. Jan. 15, 1921. 157.7 C76D
This report is divided into sections contributed by H.T. Goodier, E.R. Dickover, and H.F. Hawley, respectively. The discussion includes the varieties of peanuts handled in the Japanese industry in the Yokohama district, the methods of purchase for export, shipments

from China into Japan, exports of peanuts from Japan to the United States, production of peanut oil, shipments of peanut oil to the United States; the distributing center of Kobe, varieties grown in the district, peanut oil mills and oil content of nuts, peanut exports from Kobe and Osaka, shipments from Kobe to the United States, and Japanese imports for oil making; the percentage of peanuts shipped from Nagoya to the United States, and crop prospects.

Malaya

563. Georgi, C.D.V. Oil content of Malayan groundnuts. Malayan Agr. Jour. 21(5): 217-221. May 1933. 22.5 F312

"As a result of the recently imposed duties on all oils and fats for edible purposes, attention has been drawn to the possibilities of extending the cultivation of groundnuts with the object of encouraging a local industry for the production of the oil...

"In view... of the possibilities of the crop, especially for cultivation by the small-holder, a series of analyses of nuts from different sources has been carried out in order to ascertain the extent of the variation in the oil content."

564. Straits Settlements. Department of statistics. Malayan statistics, June 1922-date [monthly] Singapore, 1922-date. 269.6 B77

The issue for March 1939 which was examined, gave imports and exports of groundnuts and groundnut oil (quantity and value) by countries of origin and destination. Cumulative figures from the beginning of the year are added.

565. Straits Settlements. Registrar-general of statistics. Annual summary of monthly Malayan statistics... 1923-date. Singapore [1924]-date 269.6 B77An

The 1937 edition contains figures on exports of groundnuts (quantity and value) by country of destination and of groundnut oil on pp.50 and 52, respectively; imports of groundnuts by country of origin, p.10, and of groundnut oil, p.12; schedule of import duties on groundnuts, p.120, and groundnut oil, p.118.

The Library of the U.S. Dept. of Agriculture also has earlier editions of this annual.

Mexico

566. Great Britain. Department of overseas trade. Report on the economic and financial conditions in Mexico... November, 1927, by E. C. Buxton. 72pp. London, H.M. Stationery off., 1928. 254.5 G79

The Library of the U.S. Dept. of Agriculture has reports for 1920-1921, 1921/22, November 1927, January 1931, November 1933, March 1936.

Groundnut production in 1926 is contained in table, p.31.

567. Mexico. Departamento autónomo de prensa y publicidad. Revista de estadística, v.1, no.1, March 1938-date [monthly] Mexico, 1938-date. 254.5 R33

With a few exceptions monthly figures are given on hectares harvested, production in tons, value of the crop, return per hectare, rural price and exports of peanuts (cacahuete). The issue for February 1939 gives them for 1925 to 1937.

568. Mexico. Secretaría de agricultura y fomento, Dirección de economía rural. Boletín mensual de estadística agrícola, no.1, Jan. 10/June 15, 1926-date, processed, San Jacinto, D.F., 1926-date. 254.5 Ag83

Nos. 1-60, Jan. 10/June 15, 1926-May 15, 1931, issued by Secretaría de agricultura y fomento. Dirección general de fomento agrícola. Departamento de economía y estadística (On cover: Secretaría de agricultura y fomento. Dirección general de agricultura y ganadería. Departamento de economía y estadística); no.61-63, June 15-Aug. 15, 1931, by Secretaría de agricultura y fomento. Dirección general de agricultura. Departamento de economía y estadística; no.64-70, Sept. 14, 1931-Mar. 15, 1932, by Secretaría de agricultura y fomento. Dirección general de agricultura. Departamento de economía rural (Departamento de economía y estadística, on cover); no.71-92, Apr. 15, 1932-Dec. 30, 1933, by Secretaría de agricultura y fomento. Dirección general de agricultura. Departamento de economía agrícola.

The index should be consulted under "Cacahuete", for references to statistics on the peanut crop. The 1932 volume, which was examined, gave preliminary figures on area, return per hectare and production in kilos by zones and states, and figures on the mean rural price of peanuts 1925/29, 1930 and 1931, index figures for 1930 and 1931, and total value of the crop 1925/29, 1930, and 1931 and index figures 1930 and 1931, by Mexican zones and states.

Morocco

569. Great Britain. Department of overseas trade. Report on economic and commercial conditions in Morocco... 1935-1936. 73pp. London, H.M. Stationery off., 1937. (No.669) 270 M822 1935/36.

French zone, by L. H. Hurst.

Spanish zone, by G.E. Monck-Mason.

Tangier zone, by E.A. Keeling.

Appendix III, p.30, gives a figure on 1934 and 1935 imports of groundnut oil, and the United Kingdom's share in them, as well as the other chief countries of supply in 1935.

Library of the U.S. Dept. of Agriculture has reports for 1919, 1921, 1923/24, 1928/29-1930/31, 1932/33, 1935/36.

Netherlands and Dutch East Indies

570. East Indies (Dutch). Departement van economische zaken, Centraal kantoor voor die statistiek. Indisch verslag 1938. II. Statistisch jaaroverzicht van Nederlandsch-Indië over het jaar 1937. Netherlands Indian report 1938. II. Statistical abstract for the year 1937. 523pp. Batavia, Landsdrukkerij, 1938. 272 Ea74S
Library of the U.S. Dept. of Agriculture has volumes for 1922/23, 1924-1937.
Gives area of peanuts harvested in 1937 by provinces (pp.260-261); approximate production of shelled peanuts in 1937, by provinces (p.262); export of peanuts and peanut oil in 1937 for Java and Madura, the Outer Provinces and the Netherlands Indies (pp. 274-275); and per capita quantity of shelled peanuts available in Java and Madura for consumption, 1932-1937 (p.189).
571. East Indies (Dutch). Departement van economische zaken, Centraal kantoor voor de statistiek. Jaaroverzicht van den in- en uitvoer van Nederlandsch-Indië gedurende het jaar 1937. 4pts. Batavia, 1937. (Mededeelingen van het Centraal kantoor voor de Statistiek, nos. 155, 159, 169, 170). 272 Ea74, no.155, 159, 169, 170.
Deel 1. (Java en Madoera); deel 2. (Buitengewesten); deel 3. (Landen van herkomst en bestemming); deel 4. (Gewestelyke statistiek der Buitengewesten)., processed.
Pts. 1-2 gives quantity and value of exports of shelled and unshelled peanuts by countries, exports of peanut cake by countries, and of peanut oil, in Java and Madura and in the Outer Provinces. Pt. 3 contains tables of exports of groundnut products for each country of destination for 1933-1937. Pt. 4 includes export tables by districts, giving quantity and value of products, 1936 and 1937.
572. East Indies (Dutch). Departement van economische zaken, Centraal kantoor voor de statistiek. De landbouwexportgewassen van Nederlandsch-Indië in 1937 (beplante uitgestrektheden, producties en uitvoeren). The export crops of the Netherlands Indies in 1937 (Planted area, production and export). Mededeelingen van het Centraal kantoor voor de statistiek, Bulletin of the Central Bureau of statistics, no.157, 276pp. Batavia, 1938. 272 Ea74 no.157.
Tables show the harvested area, estimated production and export of groundnuts in Java, 1933-1937, and export of groundnuts and groundnut oil from the Outer Provinces, in terms of decorticated groundnuts.
573. Jansen, B.C.P., and Donath, W.F. The A-vitamin content of different Indian foodstuffs and the value of the proteins of these latter as a supplement to the proteins of rice. East Indies (Dutch) Volksgezondheid, Dienst der. Mededeelingen van den Burgerlijken Geneeskundigen Dienst in Nederlandsch-Indië, Weltevreden, Foreign Edition [Reports of the Dutch-Indian Medical Civil Service], no.1, pp.46-98. 1924. 448.9 Ea8

"In this investigation, foods in common use in the East Indies were tested for their value as sources of proteins and vitamin A by being fed to rats as supplements to a diet of polished rice...

"(2) Foodstuffs having so little vitamin A as to be insufficient to prevent the symptoms of vitamin A deficiency when used exclusively. In this group are placed rice (polished and unpolished), corn (at least the white variety), coconut press cake, and peanut press cake..." - Expt. Sta. Rec. 52:64-65. 1925.

574. Netherlands. Centraal bureau voor de statistiek. Jaarstatistiek van den in-, uit-, en doorvoer over 1937... 2 v. The Hague, Drukkerij Albani, 1938. 259 St2J deel I-II.

This lists the quantity and value of shelled and unshelled groundnuts imported and exported from the Netherlands, by countries, as well as imports and exports of groundnut cake, meal and groundnut oil

575. Netherlands. Central bureau voor de statistiek. Maandstatistiek van den in-, uit-, en doorvoer... 1^e deel: invoer, uitvoer en entrepotverkeer, July 1920-date. Gravenshage, 1920-date. 259 St2Mn

The issue for April 1939 which was examined contained for the month of April and the January-April average, the quantity and value of exports and imports of shelled and unshelled peanuts, peanut oil packed and in bulk, and peanut cake, and meal.

576. The Netherlands Indies; a review of the country, its economics and commerce, v.1, Mar. 16, 1933-date. Batavia, 1933-date. 280.8 Ec76A

Vol.1-2, March 16, 1933-Dec.17, 1934, have title: Economic Bulletin of Netherlands India. Beginning with v.3, Jan.1935, title changed to Netherlands Indies. Vol.1, no.1-20, March 16, 1933-Jan.1, 1934, issued by the Dept. of agriculture, industry and commerce; v.1, no. 21, Jan.16, 1934-date issued by the Department of Economic Affairs.

This periodical contains at different times such statistics as exports of peanuts and peanut oil, consumption of peanuts by the native population, estimated value, and price index numbers.

577. Rotterdam. "Veemesta", N.V. Table of comparative prices of grain, foodstuffs and dairy products, Aug. 14, 1928-Jan.9, 1934, processed. [weekly] [Rotterdam, 1928-34] 284.8 [M]

Gives prices in Guilders for groundnut cake at Neuss and Harburg. Beginning June 16, 1931, prices are given for Rhenish Station and Harburg.

578. Rotterdam. "Veemesta", N.V. Table of comparative prices of seeds, oils and nuts, Aug. 14, 1928-Jan.9, 1934, processed. [weekly] [Rotterdam, 1928-34] 284.8 [M]

Ceased publication.

London prices are given for groundnuts (Coromandels) and for groundnut oil. Beginning with October 18, 1932, Rotterdam, as well as London spot prices, are given for groundnut oil.

579. Scheltema, A.M.P.A., and Van Emst, P. How the Netherlands Indies is providing for its requirements in agricultural products. Netherlands Indies 3(5): 103-115. Mar. 1, 1935; (6): 136-143. Mar. 15, 1935; (10): 261-267. May 15, 1935.

In Part I food products are discussed. These include peanuts and peanut oil.

Attention is called to the practice of exporting and importing the same products, such as coconut oil and peanut oil. Most of the luxury products and the raw materials are exported.

Palestine

580. Great Britain. Department of overseas trade. Economic conditions in Palestine, July 1935. Report, by C. Empson. 96pp. London, H.M. Stationery off., 1935. (No.620) 269 P172 July 1935.

See p.31 for imports of groundnuts (shelled), by quantity and value, 1933 and 1934, and p.55 for export of edible groundnut oil produced in Palestine from imported nuts.

Library of the U.S. Dept. of Agriculture has also reports for 1925 and July 1931.

Poland

581. Poland. Główny urząd statystyczny. Handel zagraniczny Rzeczypospolitej Polskiej [monthly] 1924-date. Warsaw, 1924-date. 267.2 G51C 1924 is quarterly.

The issue for April 1939 which was examined listed imports (quantity and value) of peanuts by country of origin.

582. Poland. Główny urząd statystyczny. Rocznik handlu zagranicznego, Rzeczypospolitej Polskiej i wolnego miasta Gdańska [Annuaire du commerce extérieur de la République Polonaise et de la Ville libre de Dantzig] 1937. pts.1-3. Warszawa, Nakładem Głównego Urzędu Statystycznego, 1938. (Statystyka Polski, Seria C. zeszyt 79-A-79-C.) 267.2 G51 Ser. C.

The quantity and value of shelled and unshelled groundnut imports entered through the ports of Danzig and Gdynia, are given by country of origin in part 1. Pt. 2 lists foreign trade information under each country, peanuts appearing under certain of them. Pt. 3 gives import and export figures for Poland arranged according to the international nomenclature of merchandise accepted by the Council of the League of Nations. Imports of shelled and unshelled peanuts appear under this section.

The Library of the U.S. Dept. of Agriculture has earlier editions of this annual beginning with 1934. The 1934 and earlier editions are in two parts only. For figures prior to 1934, see volumes of the same title bound and catalogued as 267.2 G51A

583. Poland. Główny urząd statystyczny Rzeczypospolitej Polskiej. Rocznik handlu zagranicznego... Annuaire du commerce extérieur de la République Polonaise et de la Ville libre de Dantzig. 1933. pts.1-2. Warsaw, 1934. (Statystyka Polski, Serja C, zeszyt 6-a and 6-b) 267.2 G51A

Includes (table 6, pt.1) figures of peanut imports by country of origin.

The Library of the U.S. Dept. of Agriculture also has later editions of this publication. For later volumes, see volumes of the same title catalogued as 267.2 G51Ser.C

Portugal and Colonies

584. Great Britain. Department of overseas trade. Report on economic and commercial conditions in Portuguese East Africa... March 1938. 94pp. London, H.M. Stationery off., 1938. (No.702) 270 G792P Mar. 1938.

Library of U.S. Dept. of Agriculture has reports for October 1921, March 1927, December 1929, October 1932, July 1935, and March 1938.

Government administered territory, by S.E. Kay, pp.vii-x, 1-62, discusses the principal types of seeds exported, including groundnuts, p.15, and the possibility of expansion of the groundnut area, foreign demand and export duties, p.28. Appendix VIII, p.57, shows groundnuts exported by country of destination, 1935 and 1936.

585. Mello Geraldês, C. de. Contribution à l'étude des caractéristiques des arachides de la Guinée Portugaise. 9pp. [Abbeville, Imp. F. Paillart, 1931] JV 23 P2A2 1931 T9 Commerce Department Library.

At head of title: Exposition Coloniale Internationale, Paris, 1931.

This bulletin goes into great detail in describing the chemical and physical makeup of the peanut in Portuguese Guinea, and concludes that it has an average or above average composition. Government measures to encourage peanut production among the natives are briefly outlined.

586. Mozambique. Anuário estatístico. Annuaire statistique, 10th year, 1937. 548pp. Lourenço Marques, Imprensa Nacional, 1938. 270 M874, ano 10, 1937

This issue of the Mozambique Statistical Yearbook contains, pp.515-519, a series of tables giving area cultivated in various crops (in hectares), by districts, including peanuts (amendoim). These figures are for the 1934-35 season. There are also figures on peanut production, in kilos, by districts, pp.520-524.

Earlier yearbooks are also in the Library of the U.S. Dept. of Agriculture beginning with 1926. This covers period 1926-1928.

587. Mozambique. Repartição central de estatística. Estatística do comércio e navegação, ano de 1937. 519pp. Lourenço Marques, Imprensa Nacional, 1938. 270 N872

On p.XXIII, there is a summary table of peanut (amendoim) exports, by provinces, 1933-1937, giving quantity and value. The general tables show imports of peanuts for consumption, by country of origin and district of destination, p.74, and national exports of peanuts by district of origin and country of destination, p.347; exports of peanut oil by districts of origin and country of destination, p.349.

In table XV, p.33, peanuts and peanut oil exported from the Colony in the 1923-1937 period, annually, are given. Table XVI, pp.35-36, lists peanut oil and peanuts, their quantity and value exported 1934 to 1937.

588. Portugal. Instituto nacional de estatística. Comércio externo, Boletim do Instituto nacional de estatística, no.1, Jan.1938-date. [Lisbon] 1938-date. 264 P833A

This gives for Mozambique the exports of peanuts, peanut oil, and peanut cake.

Rhodesia

589. Benthall ground-nut (pea-nut) picker in Southern Rhodesia. Rhodesia Agr. Jour. 25(9):1040-1042. September 1928. 24 R34

Gives costs for the machines, and describes how they work and amount of nuts picked per day.

590. Great Britain. Department of overseas trade. Economic conditions in Southern Rhodesia, Northern Rhodesia and Nyasaland, October, 1935, Report, by J.W. Brigden. 74pp. London, H.M. Stationery off., 1936. (No. 634) 270 R344 Oct. 1935

Southern Rhodesia, pp.1-36, has a brief section, p.15, on groundnut production.

Northern Rhodesia, pp.37-54, mentions, p.42, declining production of groundnuts.

591. Growing and handling of ground nuts for export overseas. Rhodesia Agr. Jour. 29(12):993-997. December 1932. 24 R34

"The successful export to overseas markets of ground nuts in shell depends from a financial point of view mainly on two factors: (1) the state of the market on arrival of the consignment, (2) the quality of the nuts and the appearance of the shell. The nuts should contain 3 to 4 kernels in each shell.

"The market for this commodity in my experience is a fluctuating one."

Reaping and shelling and cleaning the nuts with sand and water are described.

592. Mainwaring, C. The ground nut or monkey nut. Rhodesia Agr. Jour. 19(2):150-158. April 1922. 24 R34

"Bulletin No. 188 of 1914 revised and brought up to date."

This is a general article on the peanut which contains information on production in Southern Rhodesia, harvesting, yields, groundnuts as a hay and as a rotation crop, commercial uses and overseas markets.

593. Mainwaring, C. Ground nut or monkey nut. Rhodesia Agr. Jour. 23(11): 988-994. November 1926. 24 R34
Harvesting, pp.992-994; yield, p.994.
594. Mundy, H.G. Agricultural costings at the Gwebi farm. Ground nuts and maize and beans for silage. Rhodesia Agr. Jour. 27(6):639-644. June 1930. 24 R34
Tables show cost of production of ground nuts and of maize and beans for silage in 1929.
595. Mundy, H.G. Export of graded ground nuts. Rhodesia Agr. Jour. 29(11): 907-911. November 1932. 24 R34
Outlines the efforts made to establish the peanut as a major exportable product of the Southern Rhodesia colony, and the hope for benefits in this direction obtainable from the Ottawa Conference.
"For the trade in question, choice nuts in a clean, unblemished shell are required, and material progress has been made in devising practical methods of washing and scouring or bleaching to the required degree... Simultaneously experience has been acquired of grading the nuts in accordance with market requirements and knowledge has been gained of the requisite field methods necessary to ensure heavy yields per acre."
596. Re-naming of Spanish bunch ground nuts. Rhodesia Agr. Jour. 30(2):113. February 1933. 24 R34
"The Union Government has recently introduced grading regulations for the class of ground nut which we in Rhodesia, until now, have always called Spanish bunch. The nomenclature adopted in these Union regulations is 'Valencia' or 'South African Virginia Bunch.'"
597. Southern Rhodesia ground-nuts. Report by Imperial institute, South Kensington, London. Rhodesia Agr. Jour. 30(2):114-119; (8): 662-667. February, August 1933. 24 R34
A report on the nine samples of peanuts forwarded to the Imperial Institute by the Chief, Division of Plant Industry, Southern Rhodesia. It describes the samples, and gives their commercial value. Marketing information is also given.
598. Timson, S.D. The ground nut. (*Arachis hypogaea.*) Rhodesia Agr. Jour. 27(1):15-38. January 1930. 24 R34
The uses for the plant, yields in pounds of unshelled nuts per acre of different varieties, use in the crop rotation, methods of planting and harvesting, production in various countries, marketing and marketing costs, and prices obtained are given.

599. Watson, J. The ground nut crop. Rhodesia Agr. Jour. 21(4):431-437. August 1924. 24 R34
Harvesting, actual reaping operations, gathering by piece work, collection of fodder, and sacking are described.

South Africa

600. Ferguson, E.M. Peanuts for household use. Farming in South Africa 2 (21):469-470. December 1927. 24 So842
Brings out the uses for peanut oil and the oilcake or meal, and the ways to use peanut butter and the whole nuts. A nutrition diagram is given which shows one pound of peanuts to be equal in energy value to four pounds of beefsteak, two pounds of cheese, ten quarts of milk or thirty-three eggs.
601. Groundnuts. A remunerative crop over wide areas. Farming in South Africa 3(31):1015. October 1928. 24 So842
Production in the Union of South Africa, yields, production costs and prices and the demand overseas and in the Union, are briefly discussed.
602. [Law, T.] Peanut-hay meal. Farming in South Africa 7(73):38. April 1932. 24 So842
This is an account of his experiences as told to H.J. Oberholzer, by Mr. Law "who attained his ideal of securing, from 75 morgen of land, 100 tons of peanut-hay from which, in powdered form, he hoped to realize the sum of 300£, while the crop of 1,000 bags of peanuts remained over to be used as stockfeed."
603. Moses, D., and Sellschop, J.P.F. The peanut in South Africa. South Africa Dept. Agr. Jour. 12(4):369-385. June 1926. 24 Un3
References, p.385.
Gives statistics of peanut production in sections of the Union, imports 1913-1924 and exports 1915-1924 (values for the last two) and describes harvesting, lifting, stacking, picking, yields, marketing, cost of production (for each step in the production process), shelling, uses (commercial, for livestock, hay, oilcake, for human consumption and as peanut butter), exports from the Union, and the organization and future of the industry.
604. Osborn, J.B. Peanuts. A South African product of high commercial value. South Africa Dept. Agr. Jour. 8(2):173-176. February 1924. 24 Un3
"This short article is intended briefly to bring out the fact that peanuts as a crop can be grown profitably in large areas of South Africa. Being a legume, the crop is well suited to rotation with cotton, sorghums and maize. For low yield areas it is a more certain cash crop than maize. The feeding value of the

crop is very high. Not only are the nuts high in protein and fat, and valuable both for human and animal consumption, but the vines provide a protein-rich hay. If necessary, the whole crop may be pastured off by pigs.

"The crop can safely be recommended to South African farmers; the product has a place on the world's markets, and the cost of production is comparatively small. Moreover, if the market does not justify the sale of the products, every part of the crop may with advantage be used for feeding on the farm." - Summary and Conclusions, p.176.

605. Peanut machinery. South Africa Dept. Agr. Jour. 7(4):299. October 1923. 24 Un3
606. Rensburg, C.T. van. Peanut hay as feed for sheep. Farming in South Africa 12(134):197, 202. May 1937. 24 So842
Not examined.
607. South Africa. Commission to inquire into co-operation and agricultural credit. Report...Presented to both Houses of Parliament by Command of His Excellency the Governor-General. 207pp. Cape Town, Cape Times Limited, 1934. [U.G. 16-'34] 280.2 So82
Peanuts, pp.126-128. This inquiry brings out the increase in production of peanuts in South Africa, its importance in the economy of the Northern Transvaal, marketing, cooperation among peanut producers in the Union, competition from Portuguese East Africa, China, Japan and the East African colonies, possibilities of competition in the foreign markets, the problem of protection of the industrial nut that is now being imported free of duty, and the need for detailed investigation into the whole question of oil extraction in the Union and enquiry into the cost of production of vegetable oils. The Commission recommends "That the Board of Trade and Industries conduct an investigation into the oil-extraction industry with a view to establishing to what extent, if any, the local producer of peanuts may be protected in regard to the supply of nuts for industrial purposes."
608. South Africa. Department of agriculture. Crops and markets, v.1, July 1922-date [monthly] [Pretoria] 1922-date. 24 So84Cr
Volumes 10-11, which were examined, included brief notes on the all-India groundnut crop, statistics on exports of groundnuts from the Union by countries [monthly], notes on crop prospects in the Union, and the groundnut crop in Portuguese East Africa.
Text is in English and Dutch.
609. South Africa. Department of agriculture. Report on co-operative marketing during 1927-1928. South Africa Dept. Agr. Bull. 74, 53pp. Pretoria, 1930. (Economic series no.10.) 24 Sc84P
Separate sections are devoted to describing the various commodity cooperatives with statistics of each. Among the commodities are peanuts.

610. South Africa. Department of agriculture and forestry. Division of economics and markets. Co-operative section. A review of the co-operative movement in the Union of South Africa (with special reference to recent developments). South Africa Dept. Agr. and Forestry. Bull. 176, 35pp. Pretoria, 1937. 24 So84P no.176
"The author of this review is Mr. J.J. Adams..." - Foreword.
Peanuts Co-operative Society, p.23. "There is only one co-operative association which has the sale of peanuts as its main function. This society was registered in 1923, and by following a conservative policy it has in recent years improved its financial position considerably and is able to finance its operations without difficulty. It is chiefly concerned with the marketing of the peanut crop...The society is one of the largest organized bodies of peanut producers in the Union, and, in the past, it has been the recognized agent for distributing nuts to the oil factories." Tables appended to this paper show the number of organizations, according to type of liability, their membership and their financial position as of 1935. These include the peanut organization.
611. South Africa. Department of customs and excise. Annual statement of the trade and shipping of the Union of South Africa and the Territory of South West Africa. Calendar year, 1938. 627pp. Pretoria, Govt. printer, 1939. 270 So83A
See Index to Articles for classification numbers for imports of groundnut oil and imports and exports of groundnuts. These references give quantity and value by country of origin or destination for the current and three preceding years.
612. South Africa. Office of census and statistics. Agricultural census... (1918-1935/36). Statistics of agricultural and pastoral production. Landbouwen census...1919-37, no.1-16. Cape Town, 1919-37. 270 So87
No.12, 1929-date have title: Report of the agricultural and pastoral production of the Union of South Africa.
The 1935/36 edition which was examined gave morgen reaped and yield in bags of groundnuts, by districts and provinces, Sept. 1, 1935 to Aug.31, 1936, pp.18-24; returns of groundnuts classified according to yield, for principal districts, by Europeans, p.54.
613. South Africa. Office of census and statistics. Official year book of the Union and Basutoland, Bechuanaland Protectorate, and Swaziland, no.19, 1933. 1308pp. Pretoria, Govt. printer, 1933. (S.P.122) 270 C3320
A table, p.675, showing cooperative organizations, includes the peanut organization, its membership, June 30th, 1937, and turnover for the business year 1936-37. Yield and area of groundnuts on European farms and native reserves, 1917/18-1935/36 are given, p.761; area and yield of groundnuts, 1934/35 and 1935/36 for Cape

of Good Hope, Natal, Transvaal, and the Orange Free State, p. 762; and a brief discussion of peanuts in the Union, p. 763. There are Government grades for export, it is pointed out.

Library of the U. S. Dept. of Agriculture has also Year Books Nos. 1-18, 1917-1937.

614. Toit, F. M. du. Production and utilization of South African peanuts. Farming in South Africa 8(83): 80-82. February 1933. 24 So842
Besides cultural methods and harvesting, the writer discusses the overseas market requirements and commercial characteristics of South African-grown peanuts; marketing of peanuts in the Union; use of peanuts on the South African farm; exports and imports; and value of the crop to South African agriculture.
615. Tomlinson, Frederick Rothmann. The business side of peanut farming. South Africa. Dept. Agr. and Forestry. Bull. 177, 21pp. Pretoria, 1937. (Econ. Ser. 24) 24 So84P no. 177
Reprinted from Farming in South Africa 11: 393-395, 414-417, 458-461, September, October, and November 1936.
Main contents: I. Farming organization and financial results; II. Factors affecting financial success; III. Costs and profits in the production of peanuts, maize and tobacco.
616. Tomlinson, Frederick Rothmann. The business side of peanut farming in Northern Transvaal, crop-year 1934/35. 11pp., processed. [Pretoria?] South Africa. Dept. Agr. and Forestry, Div. Econ. and Markets. [1936.] 281.9 So82
"The first year's results of the economic study of peanut production in the Northern Transvaal are summarized below. The object of the study is to examine the farm organization in the area, to analyze the farm businesses and to determine the factors which make for financial success, also to determine the cost of production of the main cash crops, peanuts, maize and tobacco. The study is confined to peanut producing farms in the Springbok Flats (southern and northern flats and the Limburg area." - Introduction.
617. Tomlinson, Frederick Rothmann. Costs and profits in the production of peanuts and maize. 7pp., processed. [n.p.] South Africa. Dept. Agr. and Forestry, Div. Econ. and Markets. [1936] 281.193 So8
"A cost study covering the crop-year 1934-35...in the Northern Transvaal."
618. Tomlinson, Frederick Rothmann. The economics of peanut and maize production in the Springbok Flats. South Africa. Dept. Agr. and Forestry, Div. Econ. and Markets, Bull. 196, 152pp. Pretoria, 1938. (Econ. Ser. 27) 24 So84P
"In this study the organization of peanut producing farms on the Springbok Flats has been analysed from the point of view of land-use and capital investment. The profitability of the farms

and the main factors influencing financial success have been determined in detail. In addition thereto the costs of production and profits in the main crop enterprises, peanuts and maize, have been analysed. The study covers two crop years, 1934-35 and 1935-36."

Appendix on Correlation Analysis, pp.147-152, includes: I. Factors affecting operators' earnings. II Effect of yield per morgen and labour efficiency on cost per bag. III. Effect of yield per morgen and price on profit per bag.

619. Wyk, D.J.R. van, and Naude, C. Bleaching of peanuts. Farming in South Africa 6(7):471-472. February 1932. 24 So842

The writers describe a method for removing the reddish discoloration from peanuts grown in reddish soil, a thing which reduces their value on the London market.

Spain

620. Henry, Frank Anderson. Spanish production and exportation of peanuts. U.S. Dept. Com., Bur. Foreign and Dom. Com., Com. Repts. no.3, p.172. Jan. 21, 1924. 157.7 C76D

The annual production 1910-1921 is cited, as well as the United States imports from Spain, 1913, 1918-1921.

621. Spain. Dirección general de agricultura. Anuario estadístico de las producciones agrícolas, año 1935, y 1936 para los agrios y el olivo. 508pp. Madrid, 1936. 263 J963 1935/36

Contains, pp.130-131, statistics on area cultivated, median production per hectare, production, prices and value of production of peanuts (cacahuete) by provinces; p.141, area and production of peanuts, 1927-1935. In this publication, the peanut is classified with the industrial plants.

Earlier numbers are also to be consulted.

622. The Spanish production of dried fruits:...the exportation of peanuts... Comercio Hispano-Británico 13(49):558-559. October-December 1920. Libr. Cong. HF11.C63

"This kind of dried fruit is a product of Levante, which is the sole producing area." Exports are shown by sacks, and by country of destination, Oct.1, 1919-Sept. 30, 1920. Prices are also given.

Sudan

623. Sudan. Annual statistical returns of the Sudan customs 1930. 129pp. Khartoum, McCorquodale & co. (Sudan) Ltd., 1931. 270 Su2A 1930
Exports of groundnuts (quantity and value) are listed, p.84, by country of destination and customs station exported from, for

1930 and 1929.

See also earlier issues of this Annual.

624. Sudan. Department of economics and trade. Annual report 1937, no.31, 250pp. Khartoum, McCorquodale & co. (Sudan) Ltd., 1938. 270 Su24 no.31. 1937

Lists quantity and value of exports of groundnuts by country of destination and customs station from which exported, for the current and preceding year, as well as production of the crop.

Library of the U.S. Dept. of Agriculture also has earlier issues of this publication.

Sweden

625. Sweden. Kommerskollegium. Sveriges in-och-utförsel, [monthly] 1918-date. Stockholm, 1918-date. (Statistiska meddelanden. Ser. C. Månadsstatistik över handeln). 257.3 K832S

Gives current figures on imports of peanuts and peanut products.

626. Sweden. Kommerskollegium. Sveriges officiella statistik.Handel. Berättelse för år 1937 av Kommerskollegium. 667pp. Stockholm, Kungl. Boktryckeriet. P.A. Norstedt & söner, 1939. 257.3 St2Ha

Includes export figures of peanut oil and cake and imports of peanuts, peanut oil and cake.

627. Sweden. Kommerskollegium. Sveriges varuinförsel från olika länder år 1937 preliminär redogörelse...241pp. Stockholm, Kungl. Boktryckeriet. P.A. Norstedt & söner, 1938. (Bilaga till kommersiella meddelanden N:r 11-12, 1938). 257.3 K832Pu 1937

Preliminary figures on imports of peanuts, peanut oil and peanut cake are given by country of origin.

628. Sweden. Kommerskollegium. Sveriges varuutförsel till olika länder år 1937...378pp. Stockholm, Kungl. Boktryckeriet. P.A. Norstedt & söner, 1938. (Bilaga till kommersiella meddelanden N:r 9 1938) 257.3 K832Pv 1937

Includes quantity and value of exports, by country of destination of peanut oil and cake for the year. These are preliminary figures.

629. Sweden. Statistiska centralbyrån. Statistisk årsbok för Sverige... 1938... Annuaire statistique de la Suède... 409pp. Stockholm, Kungl. Boktryckeriet. P.A. Norstedt & söner, 1938. 257.3 St2Nc

See page 142 for exports and imports of peanuts 1931/35, 1936 and 1937, and peanut production in the chief producing countries 1935 to 1937.

Thailand (Siam)

630. Great Britain. Dept. of overseas trade. Report on economic and commercial conditions in Siam, by J. Bailey...April, 1937. 48pp. London, H.M. Stationery off., 1937. (No.673) 269 Sil5 Apr.1937
Library, U.S. Dept. of Agriculture has also reports for 1919-1924, 1926, 1927/28, 1929/30, 1931/32 and 1934.
Ground nuts, p.25, brings out increase in production in the Chiengmai consular district. This section, Annexe 1 to the Report, entitled: Economic Conditions in the Chiengmai Consular District, is by W.W. Coultas.

Tunis

631. Tunis. Direction des douanes. Bulletin comparatif trimestriel du mouvement commercial de la Tunisie... Jan./March 1928-date. Tunis, 1928-date. 270 T83B
The one for the third quarter of 1938 which was examined, gave statistics for the nine first months of the years 1938, 1937, and 1936, including quantity and value of peanuts imported, by country of origin.
632. Tunis. Direction des douanes. Documents statistiques sur le commerce de la Tunisie, année 1938. 476pp. Tunis, Imprimerie J. Aloccio, 1939. 270 T83D
See index under "arachides" and "huiles et sucs végétaux" for references to import statistics of peanuts and peanut oil. These give quantity and value of the imports, by principal countries of origin.

Turkey

633. Turkey. Office central de statistique,...Yillik istatistik... Statistique annuelle du commerce extérieur 1938 et statistique mensuelle du Décembre 1938; Partie: 1. Commerce spécial. Importations et exportations par nature de marchandises et par pays. 513pp. Ankara, 1939. 269.9 St2Ca
Gives imports and exports for various products. In the group on oils, peanut oil figures are not given separately, but are included in the import figures for edible vegetable oils, table 462, p.125, and cited with cocoa oil in table 463, p.125.

Union of Soviet Socialist Republics

634. Pirozhnikova, M.F. Arakhis v. SSSR (po dannym Gossortositi za 1929-1935 gg.) Pod redaktsiei I.A. Minkevicha. 72pp. Leningrad, Izdatel'stvo Vsesoiuznoi Akademii s.-kh. nauk im. V.I. Lenina, Leningradskii filial, 1936. 77 P312

Peanuts of the U.S.S.R.

"Literatura": p.72.

Uruguay

635. Uruguay. Dirección general de estadística. Año 1937. Anuario estadístico de la República Oriental del Uruguay. Tomo XLIV, Volumen II... Comercio exterior, importación, exportación. 383pp. Montevideo, 1939. 255.7 Es8A

This annual report on the foreign trade of Uruguay, contains figures on the quantity and value of peanuts without shells imported for industrial uses in 1937, by country of origin, p.99, and quantity and value of imports of shelled and unshelled peanuts imported, by country of origin, p.108.

Part II of Volume I of the Anuario, the 1935 edition of which was the most recent available for examination (Tomo XLII, 1936) is entitled "Estadística Agrícola" and gives figures on peanuts (maní) cultivated in hectares, by provinces, 1934-35, quintals sown, returns in quintals and kilos, p.124; and annual return per hectare of peanuts in kilos, 1932/33, 1933/34, and 1934/35, by provinces, p.125.

The Library of the U.S. Dept. of Agriculture has earlier volumes of this Anuario beginning with 1884.

636. Uruguay. Dirección general de estadística. Síntesis estadística... no.15, 165pp. Montevideo, August, 1938. (Publicación 153.) 255.7 Es8S 1938.

Ch. VII, Agricultura, contains figures of area sown and production of peanuts (maní) 1933/34-1937/38, p.59.

Ch. X, Comercio Exterior Especial, gives peanut cake (tortas de maní) exported, 1934 to June 1938, p.102.

West Indies, British

637. Lynch, H.W., and Bacquie, P. St. L. Report on peanut competition in St. Elizabeth. Jamaica Agr. Soc. Jour. 39(4):268-272. April 1935. 8 J223

Gives the results of planting experiments, including costs.

638. Oil bearing seeds. Jamaica Agr. Soc. Jour. 37(3):159. March 1933. 8 J223

It is pointed out that, from a casual survey of the possibilities of oil bearing seeds, the peanut holds the best promise. A table showing Canadian imports from various countries is offered to show the wideness of the existing market.

639. The peanut. Jamaica Agr. Soc. Jour. 38(10):639-640. October 1934. 8 J223

Makes brief mention of harvesting, yields and uses, including value as a forage crop.

640. Peanut or ground nut. Jamaica Agr. Soc. Jour. 32(6):242-245. June 1928. 8 J223.

"Reprinted from Journal of August 1919."

Contains very brief outlines of harvesting, yields, and uses for the nuts, oil and vines.

Yugoslavia

641. Yugoslavia. Ministarstvo finaneija. Odeljenje tsarina. Statistique du commerce extérieur du Royaume de Yougoslavie... 1918/20-1938. Belgrade, 1920-39. 266.9 F492

Consult index for references to statistics on imports of peanuts. These give quantity and value by country of origin.

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- No. 38. List of State official serial publications containing material on agricultural economics. July 1932. Supply exhausted.
- No. 39. Greece; a guide to official statistics of agriculture, population, and food supply. October 1932.
- No. 40. Barter and scrip in the United States. February 1933.
- No. 41. The domestic allotment plans for the relief of agriculture. February 1933.
- No. 42. Measures taken by foreign countries to relieve agricultural indebtedness. March 1933. Supply exhausted.
- No. 43. Part-time farming; a brief list of recent references. February 1933. (Superseded by no. 77)
- No. 44. Uses for cotton; selected references in the English language. November 1932.

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- No. 47. Farm mortgages in the United States; selected references...January 1928-April 1933. May 1933.
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- No. 58. Price studies of the U. S. Department of Agriculture showing demand-price, supply-price, and price-production relationships. October 1935.
- No. 59. Farm tenancy in the United States, 1925-1935; a beginning of a bibliography. November 1935. (Superseded by No. 70)
- No. 60. Valuation of real estate, with special reference to farm real estate. December 1935. (Supersedes No. 29)
- No. 61. Financing American cotton production and marketing in the United States. November 1935.

- No. 62. Livestock financing in the United States; selected references to material published 1915-1935. December 1935. (Supersedes No. 7)
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- No. 65. Farm youth in the United States; a selected list of references to literature issued since October 1926. June 1936. (Supplements No. 17)
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- No. 73. Income; selected references on the concept of income and methods of obtaining income statistics. May 1938.
- No. 74. The soybean industry; a selected list of references on the economic aspects of the industry in the United States, 1900-1938. October 1938.
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- No. 76. Agricultural relief measures relating to the raising of farm prices - 75th Congress, January 5, 1937 to June 16, 1938. February 1939.
- No. 77. Part-time farming in the United States; a selected list of references. February 1939. (Supersedes No. 43)
- No. 78. Rural psychology; a partial list of references. March 1939.

- No. 79. Price fixing by government in the United States, 1926-1939; a selected list of references on direct price fixing of agricultural products by the Federal and State governments. July 1939. (See also No. 18)
- No. 80. The peanut industry; a selected list of references on the economic aspects of the industry, 1920-1939. November 1939.

