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Agricultural Economics Bibliography No. 49

## RUMANIA

### A GUIDE TO OFFICIAL STATISTICS OF AGRICULTURE POPULATION AND FOOD SUPPLY

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#### PART I. - AN ANNOTATED LIST OF OFFICIAL PUBLICATIONS

Compiled by A. M. Hannay  
Under the Direction of Mary G. Lacy, Librarian  
Bureau of Agricultural Economics

#### PART II. - METHODS OF COLLECTION AND ANALYSIS OF OFFICIAL STATISTICS

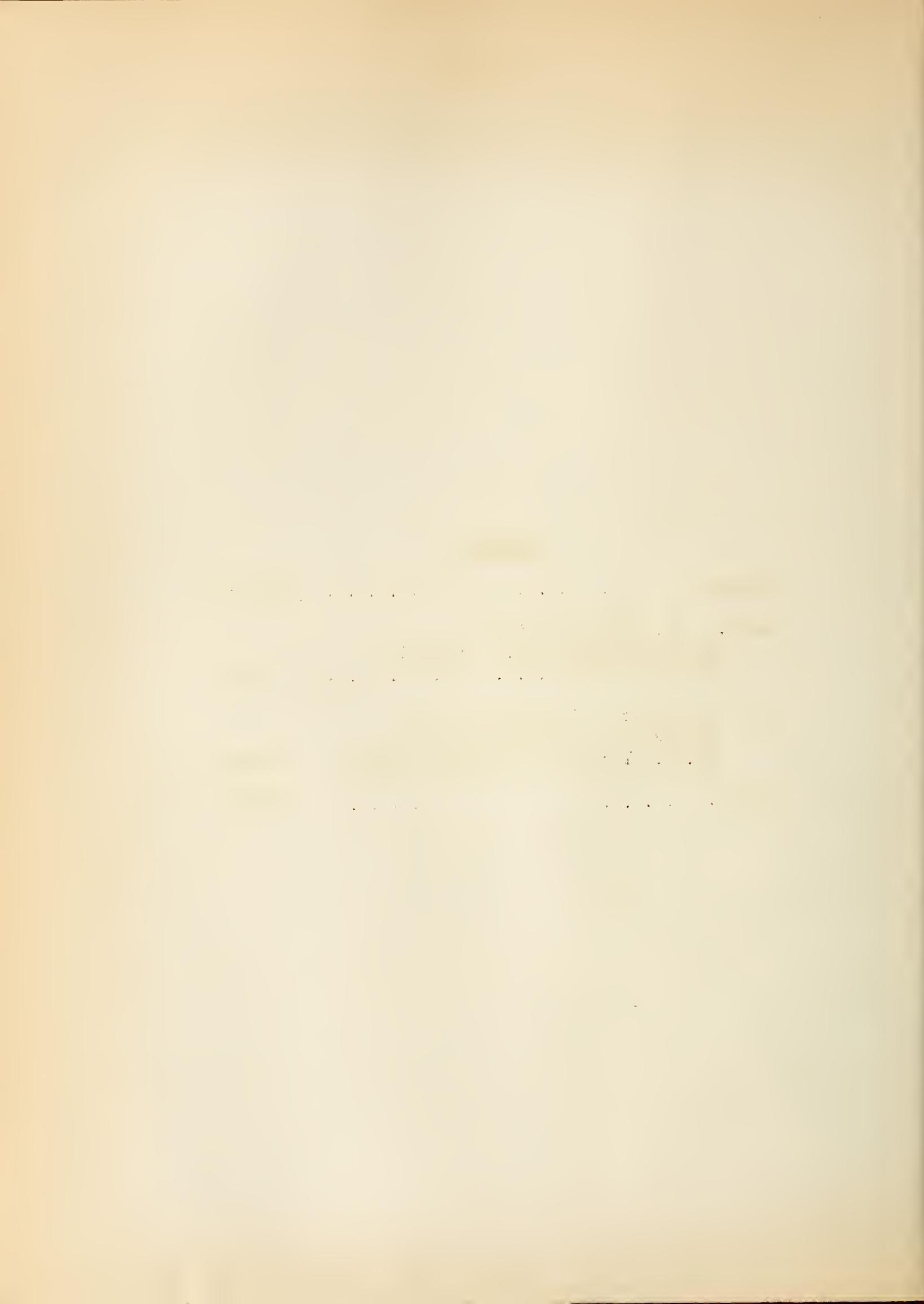
By J. D. Black and Constantin Ladas  
For the Bureau of International Research  
of Harvard University and Radcliffe College

Washington, D. C.  
October 1933



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## FOREWORD

The Library of the U. S. Dept. of Agriculture has had a constant demand for the agricultural statistics of foreign countries. In order to supply a guide to these statistics the library of the Bureau of Agricultural Economics, one of its branches, undertook to index the sources of official foreign statistics. After several years' work it was decided to publish a guide for one country at a time rather than for a group of countries as had been planned.

At about this time Dr. J. D. Black of Harvard University had become interested in a somewhat similar project. In 1929 at the suggestion of Dr. Edward M. East of the Bussey Institution of Harvard University, the Bureau of International Research of Harvard University and Radcliffe College made a grant to Dr. Black to enable him to conduct a comparative study of the statistics of agriculture, population, and food supply of different countries. The aim of the study was to promote a more effective use of the statistics now available, and to lay the foundation for methods of collecting future statistics that would lend themselves better to international comparisons. A plan for combining the two undertakings and publishing the results in the Agricultural Economics Bibliography series of the Bureau of Agricultural Economics was approved by the two agencies. Rumania was chosen as the third country to work upon following Switzerland and Greece because Mr. Constantin Ladas, formerly a resident of Macedonia, was available to handle the Rumanian literature pertaining to the subject, and because it was felt that the type of agricultural organization found in Rumania would serve as one type that any international collection of agricultural statistics would have to provide for. Mr. Ladas had just completed five years of study at the Massachusetts State College majoring in agricultural economics and rural sociology.

## PART I

This is an annotated list of official publications of the Rumanian Government containing agricultural statistics which may be found in the library of the U. S. Department of Agriculture or in the Library of Congress. The kind of statistics to be found in each publication is indicated, e.g. statistics of population, land utilization, area, production, yield, consumption, import, export, and prices of agricultural products, index numbers and meteorological data. Forestry statistics have been included only when found in publications of a general character.

The use of a hyphen in an inclusive date period, as 1912-1917 means that the information is given for each separate year of the period. When an average figure for the inclusive period is meant a slanting line is used, as 1912/17.

The call numbers used in the two libraries have been given in the left-hand margin. They are preceded by the initials U.S.D.A. for the U. S. Department of Agriculture, and L.C. for the Library of Congress.

## PART II

In Part II the methods of collecting and analyzing the statistics of Rumania are presented as far as possible from existing sources of information, and tables showing the more important data have been included both for the most recent and for earlier censuses. Changes in methods and definitions of units have been related to changes in the data. The data have been used as a basis for estimating the possible effects of differences in methods of collecting and analyzing the statistics, and for suggesting possible methods of reducing the existing data to a comparable basis and of collecting future statistics that will be comparable. The results are related to the methods employed by the country in collecting the data for the 1930 world census of agriculture.

Part II also contains a supplementary bibliography at the beginning of each section giving references to official sources of general population statistics; references to important secondary sources of information, statistical or otherwise; and references to discussions of methods of collecting and analyzing statistics.

The two authors have had the assistance of the members of the group of agricultural economists at Harvard University, more particularly of Miss Lois Bacon and Miss Martha S. Epps, and of M. Majewski of the Rumanian Academy in Bucharest.

Acknowledgement is also made of the assistance of Dr. David Mitrany, Lecturer on Government, Harvard University, in arranging for the material and reviewing the manuscript.

RUMANIA

A GUIDE TO OFFICIAL STATISTICS OF AGRICULTURE  
POPULATION AND FOOD SUPPLY

Part I. - AN ANNOTATED LIST OF OFFICIAL PUBLICATIONS

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Bureau of Agricultural Economics

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U.S.D.A. Hepites, Stefan C.  
Weather Climatologia bucuresciană. Anul 1895 St.n.-1903. Stefan C.  
Bureau Hepites... no.1-9. Extras din anuarul statistic al capitalei pe  
C/d1 anul 1895-1903. Bucuresci, 1897-1906. 1 v.  
H529 L. C. entry:  
Rumaria. Institutul meteorologic.  
L.C. Climatologia bucuresciană. Anul 1895 St.n.-1903. Stefan C.  
QC Hepites... no.[1]-9. Extras din anuarul statistic al capitalei  
989 pe anul 1895-1903. Bucuresci, C. Göbl [etc.] 1897-1906.  
.R2B6 Contains tables and charts showing monthly weather variations.

U.S.D.A. Hepites, Stefan C.  
Weather Régime pluviométrique de Roumanie, par St. C. Hepites.  
Bureau Bucarest, Impr. de la cour royale, F. Göbl fii, 1900. 74p.  
C/d1 At head of title. Ministère de l'agriculture, de l'industrie,  
H529R du commerce et des domaines. Institut météorologique.  
L.C. Average seasonal (winter; spring, summer, autumn) statistics  
Qc925.4 of precipitation, by districts and stations, for the period  
1884-1898.  
.R88 Average monthly statistics of precipitation, 1884-1898.  
Heavy rains in Bucharest (date and quantity of rain fallen)  
yearly, 1884-1898.  
Average number of days of snow yearly 1891-1898.

U.S.D.A. Moniteur du commerce roumain. Aug., 1908-June, 1916.  
286.8 Bucarest, 1908-1916.  
M742 V. 1-6, no.8 published twice a month.  
V. 1-6, no.9 have title Moniteur commercial roumain.  
Organe officiel du Ministère de l'industrie et du commerce.  
L.C. entry:  
Rumaria. Ministerul industriei si comertului.  
HF231 Moniteur commercial roumain. Organe officiel du Ministère  
.A4 de l'industrie et du commerce. 1. année. 19 août 1908-15 déc. 1909.  
Bucarest, 1908-16.

L. C. has Aug. 1908 - June, 1916. (lacks occasional numbers)  
Ceased publication in 1916.

Prices on Aug. 21, Aug. 27, and Sept. 1, 1908, of wheat, maize, rye, barley, oats, beans, wheat flour, sugar in certain cities. (Aug., 1908.)

Quantities of grain deposited at the docks in Galatz and Braila, yearly, 1897-1906/7; grain exported from Galatz, Braila, yearly, 1902-1906. (Sept. 6-19, 1908.)

Prices quoted in Braila, Constantza, of wheat, maize, barley, oats, rye, beans. Sept.-Dec. (Sept. 6-19, 1908-Jan. 1, 1909); millet, Oct.-Nov. (Nov. 1, 1908-Dec. 2, 1908.)

Eggs: Export, value, 1903-1906; quantity, value, country of destination, 1906; prices for transportation of eggs by railway to principal consumption centers. (Sept. 20-Oct. 3, 1908.)

Walnuts: Quantities dispatched from railway stations for export and for local consumption, yearly, 1900/01-1906/7; quantities dispatched from 13 railway stations, for export, for local trade 1906/7; quantity and value of nuts exported, yearly, 1904-1906; prices of transportation by railway. (Sept. 20-Oct. 3, 1908.)

Bran: Export (quantity, value, country of destination, export price), 1906. (Sept. 20-Oct. 3, 1908.)

Statistics of forest area, 1907. (Oct. 19, 1908.)

Statistics of area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, peas, lentils, potatoes, sugar beets, tobacco, poppy, cabbage, onions, other vegetables, melons, fodder roots, hay, 1907/8. (Oct. 19, 1908.)

Sericulture: number of silkworm raisers; quantity of eggs used and of cocoons harvested; numbers of mulberry trees of which the leaves were used to feed the silkworms, 1907. (Oct. 19, 1908.)

Grain: Quantity sold on the Braila market in August, 1908, wheat, maize, barley, rye, millet; also rape, beans, peas. (Oct. 19, 1908.)

Prices on Braila market and quantity sold September, 1908, of wheat, maize, rye, barley, oats, beans, millet, peas, hemp seed. (Nov. 1, 1908.)

Products (quantity) sold in Braila, wheat, maize, barley, oats, rye, rape, beans, millet, flax, hemp seed, peas, flour, yearly, 1905/6-1907/8. (Nov. 1, 1908.)

Area, production, yield, wheat, rye, barley, oats, rape, flax, 1908. (Nov. 16, 1908.)

Products (quantity, value) sold in the ports of Galatz and Braila, rye, barley, oats, maize, millet, beans, peas, hemp, flax, mustard seed, October, 1908. (Nov. 16, 1908.)

Area, production, yield, value of tobacco, 1907. (Dec. 2, 1908.)

Flour and bran put on the market and exported by the mills of Bucharest in October, 1908. (Dec. 2, 1908.)

Statistics of trade between Rumania and Egypt, 1907, Jan.-June, 1908. (Dec. 15, 1908.)

Statistics of production, consumption, alcohol, beer, sugar, 1907/8; comparative figures, 1906/7; export bounty on sugar. (Dec. 15, 1908.)

Production of sugar and glucose in October, 1908. (Dec. 15, 1908.)

Products (quantity, price) sold in Galatz, wheat, maize, rye, barley; in Braila, wheat, maize, barley, oats, rye, beans, millet, hemp seed, peas, November, 1908. (Jan. 1, 1909.)

Eggs exported to Germany, 1906, 1907. (Jan. 1, 1909.)

Statistics of import and export of wood, ten year periods, 1861-1899; import, yearly, 1900-1906; export, 1906. (Feb. 1, 1909.)

Production of sugar, glucose, flour, November, 1908. (Feb. 1, 1909.)

Products (quantity, price, value) sold in the ports of Galatz and Braila, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, sunflower, Dec., 1908. (Feb. 1, 1909.)

Agricultural credit statistics (loans, deposits, state gains), yearly 1882-1908. (Feb. 15, 1909.)

Statistics of land utilization, 1908; area cultivated, yearly, 1903-1907; area, rye, barley, oats, maize, millet, textile and oleaginous plants, hemp, peas, tobacco, vines, 1908. (Feb. 15, 1909.)

Wood (oak) exported, yearly, 1903-1907. (Mar. 1, 1909.)

Statistics of land utilization, area cultivated in grain, textile and oleaginous plants, vegetables and root crops, meadows and fodder root crops, plum orchards, vineyards, industrial plants, by departments, 1908; whole country, yearly, 1903-1907. (Mar. 1, 1909.)

Products handled on the market of Braila in 1908, maize, rye, oats, barley, beans, millet, peas, rape. (Mar. 1, 1909.)

Prices quoted on the markets of Bucharest, Braila, Constantza, Feb. 16-28, 1909, wheat, maize, barley, oats, rye, beans, rape. (Mar. 1, 1909.)

Flour and bran put on the market and exported by the mills of Bucharest in January, 1909. (Mar. 1, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, January, 1909. (Mar. 1, 1909.)

Statistics of trade between Rumania and Egypt, Oct. - Dec., 1908. (Mar. 15, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, March 13, 1909, wheat, maize, barley, oats, rye, beans. (Mar. 15, 1909.)

Statistics of export from the ports of Braila, Galatz, Tulcea, Soulina, of wheat, rye, maize, barley, oats, beans, millet, rape, flax seed, hemp seed, 1908. (Apr. 1, 1909.)

Area, maize, sugar beets, tobacco, cabbage, onions, melons, pumpkins, beets and other fodder plants; production, poppy, sugar beets, tobacco, onions, beets and other fodder plants, hay, maize, millet, buckwheat, hemp, beans, peas, lentils, potatoes, vines, plum trees; field, maize, millet, buckwheat, hemp, beans, peas, lentils, potatoes, vines, plum trees, 1908. (Apr. 1, 1909.)

Area sowed in autumn of 1908, wheat, rye, barley, rape. Comparative figures for 1907. (Apr. 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, Mar. 16-31, 1909, wheat, maize, barley, oats, rye, beans, rape. (Apr. 1, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, Feb., 1909. (Apr. 1, 1909); Mar., 1909 (May 1, 1909.)

Statistics of import and export (quantity, value), by categories of products, 1907. (May 15, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, May 1-14, 1909, wheat, maize, barley, oats, rye, beans, rape. (May 15, 1909.)

Statistics of production of wheat, rye, barley, oats, millet, rape, flax, maize, 1908; average yearly, 1903-1907. (May 15, 1909.)

Statistics of import (quantity, value, country of origin), by categories of products, 1907. (June 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, May 15-31, 1909, wheat, maize, barley, oats, rye, beans. (June 1, 1909.)

Production, consumption, export of flour in April, 1909. (June 1, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, Apr., 1909. (June 1, 1909.)

Statistics of trade between Rumania and Egypt, 1908. (June 15, 1909.)

Statistics of export (quantity, country of destination), April, 1909. (July 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, June 15-30, 1909, wheat, maize, barley, oats, rye, beans, rape, hemp seed. (July 1, 1909.)

Products (quantity, price, value) sold in the markets of Braila and Galatz, April-May, 1909. (July 1, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, May, 1909. (July 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, July 1-15, 1909, wheat, maize, barley, oats, rye, beans, millet, rape. (July 15, 1909.)

Area, production, yield, gross value, average sales price, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax, hemp, poppy, beans, pumpkins, cabbage, onions, other vegetables, melons, fodder roots, meadows, vines (value of must), plum trees (value of plums). (July 15, 1909.)

Products (quantity, price, value) sold in the market of Braila, wheat, maize, barley, oats, rye, beans, millet, rape, hemp seed; Galatz, wheat, maize, rye, barley, oats, June 14-July 13, 1909. (Aug. 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, July 15-31, 1909. (Aug. 1, 1909.)

Statistics of viticulture including area and production, 1908.  
(Aug. 1, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, rape, June, 1909. (Aug. 1, 1909.)

Statistics of production and consumption of alcohol and beer, June, 1909. (Aug. 15, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, Aug. 1-15, 1909, wheat, maize, barley, oats, rye, beans, peas. (Aug. 15, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, beans, peas, rape, July, 1909. (Aug. 15, 1909.)

Statistics of import, 1907. (Aug. 15, 1909 - Sept. 1, 1909.)

Statistics of export, 1907. (Sept. 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, Aug. 16-31, 1909, wheat, maize, barley, oats, rye, beans. (Sept. 1, 1909.)

Statistics of trade between Rumania and Germany. (Sept. 15, 1909.)

Statistics of export from Braila (quantity, country of destination), July, 1909. (Sept. 15, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Sept. 1-15, 1909, wheat, maize, barley, oats, rye, beans, millet. (Sept. 15, 1909.)

Statistics of area, wheat, maize, rye, barley, oats, millet, buckwheat, rape, flax, hemp, beans, peas, lentils, potatoes, sugar beets, tobacco, fodder root crops, lucerne and clover, meadows, vines, plum trees, 1908/9. (Oct. 1, 1909.)

Products (quantity, value) sold on the market of Galatz, July and August, 1909, wheat, maize, rye, barley, oats, rape, beans, peas. (Oct. 1, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, Sept. 15-30, 1909, wheat, maize, barley, oats, rye, beans, millet. (Oct. 1, 1909.)

Products (quantity, price, value) sold on the market of Braila, July, 1909, wheat, maize, barley, oats, rye, rape, peas, beans, millet. (Oct. 1, 1909.)

Area of wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, potatoes, sugar beets, tobacco, vegetables, fodder root crops, lucerne and clover, meadows, vines, plum trees, 1908/9. (Oct. 15, 1909.)

Area of wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, fodder root plants, meadows, vines, plum trees, yearly 1904-1908. (Oct. 15, 1909.)

Prices (maximum, minimum) quoted on the markets of Bucharest, Braila, Constantza, Galatz, Oct. 1-15, 1909, wheat, maize, barley, oats, rye, beans, peas, barley. (Oct. 15, 1909.)

Statistics of production, yield, wheat, rye, barley, oats, rape, flax, millet, 1909. (Nov. 1, 1909.)

Statistics of export (quantity) wheat, maize, rye, barley, oats, millet, rape, Aug., 1909. Comparative figures for Aug., 1907, 1908; from Braila, Galatz, Soulina, Aug., 1909; from Constantza, Aug., 1907, 1908, 1909. (Nov. 1, 1909.)

Products (quantity, value) sold on the market of Braila, wheat, barley, oats, rye, millet, beans, peas, maize, rape, Aug., 1909. (Nov. 1, 1909.)

Statistics of area, production, yield, value, vines, plum trees, 1908. Comparative figures, 1906, 1907. (Nov. 1, 1909.)

Products (quantity, price, value) sold in the market of Galatz, Sept., 1909. (Nov. 1, 1909.)

Statistics of trade (quantity, value) between Rumania and Austria-Hungary, 1907. (Nov. 15, 1909.)

Sericulture: number of silkworm breeders, number of communes in which sericulture is carried on, quantity of eggs used, quantity and yield of cocoons, yearly, 1901-1908; by departments, 1908; number of mulberry trees, by departments, 1907. (Nov. 15, 1909.)

Statistics of export (quantity, value) wheat, maize, rye, barley, oats, millet, rape, July-Sept., Sept., 1907, 1908, 1909; from Braila, Galatz, Soulina (quantity), July-Sept., Sept., 1908, 1909. (Dec. 1, 1909.)

Statistics of export (quantity, country of destination) from the port of Braila, Sept., 1909, barley, wheat, oats, rape, rye, maize, peas, millet, beans, mustard seed, lentils, flax seed cakes. (Dec. 1, 1909.)

Products (quantity, price, value) sold in the ports of Braila and Galatz, wheat, rye, barley, oats, maize, millet, beans, peas, hemp, rape, mustard, Oct., 1909. (Dec. 1, 1909.)

Statistics of export (quantity, value, country of destination), wheat, rye, maize, barley, oats, millet, rape, 1907, 1908. (Dec. 15, 1909.)

Statistics of trade (quantity, value) between Rumania and England, 1907. (Dec. 15, 1909.)

Statistics of export (quantity, value) of wheat, maize, rye, barley, oats, millet, rape, Oct., 1907, 1908, 1909. (Dec. 15, 1909.)

Products (quantity, price) sold in the market of Galatz, Oct. 14 - Nov. 13, 1909, wheat, maize, rye, barley, oats, beans. (Dec. 15, 1909.)

Statistics of export (quantity, Holland, Germany), wheat, rye, barley, maize, oats, flour, bran, mustard seed, hemp seed, peas, beans, vetch, wood, 1908. (Jan. 1, 1910.)

Statistics of export (quantity, country of destination) from the port of Braila, barley, oats, wheat, beans, rye, rape, millet, peas, mustard seed, flax seed cakes, hemp seed, Oct., 1909. (Jan. 1, 1910.)

Products (quantity, price, value) sold in the market of Braila, wheat, maize, barley, oats, rye, beans, millet, peas, lentils, hemp seed, Oct., 1909. (Jan. 1, 1910.)

Statistics of export (quantity, value, country of destination), by categories, 1908. (Jan. 1, 1910.)

Area, production, yield of maize, 1909. (Feb. 1, 1910.)

Statistics of import (quantity, value, country of origin), by categories, 1908. (Feb. 15, 1910.)

Products (quantity, value) sold in port of Galatz, wheat, maize, rye, barley, cats, December, 1909. (Feb. 15, 1910.)

Products (quantity, price, value) sold in ports of Braila and Galatz, wheat, rye, barley, cats, maize, millet, beans, peas, hemp, rape, December, 1909. (Feb. 15, 1910.)

Area, production, yield of wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, melons, pumpkins, fodder root crops, lucerne and clover, other grasses, vines, plum trees, 1909. (Mar. 1, 1910.)

Statistics of cooperative societies, 1908. (Mar. 15, 1910.)

Prices quoted on the markets of Braila and Constantza, Mar. 14, 1910, wheat, maize, barley, oats, rye, beans. (Mar. 15, 1910.)

Statistics of trade (value) between Rumania and Bulgaria, 1909. (Apr. 1, 1910.)

Statistics of export (quantity, value) of wheat, maize, rye, barley, oats, millet, rape, Jan., 1909, 1910; from Constantza, quantity, January, 1909, 1910. (Apr. 1, 1910.)

Prices quoted on the markets of Braila and Constantza, April 14, 1910, wheat, maize, barley, oats, rye, beans. (Apr. 15, 1910.)

Statistics of export (value), 1908. (May 15, 1910.)

Statistics of export (quantity) wheat, maize, rye, barley, oats, millet, rape, Mar., 1909, 1910. (May 15, 1910.)

Statistics of export of flour to Turkey, 1908. (May 15, 1910.)

Prices quoted on the markets of Braila and Constantza, May 14, 1910, wheat, maize, barley, oats, rye, beans. (May 15, 1910); May 31, 1910 (June 1, 1910); June 14, 1910 (June 15, 1910); June 30, 1910 (July 1, 1910); July 14, 1910 (July 15, 1910).

Statistics of import (value), 1908. (June 1, 1910.)

Value of agricultural production, 1900, 1903, 1905, 1908, 1909. (June 1, 1910.)

Statistics of export (quantity, value), wheat, rye, maize, barley, oats, millet, rice, wheat flour, bran, 1908, 1909. (June 15, 1910.)

Statistics of trade between Rumania and Egypt, 1909. (June 15, 1910.)

Statistics of export (quantity) of wheat, maize, rye, barley, oats, millet, rape, April, 1910. (July 1, 1910.)

Statistics of export (quantity, value, country of destination), by categories, 1909; comparative figures (quantity, value) 1907, 1908. (July 15, 1910.)

Statistics of trade (quantity) between Rumania and Italy, Jan. - Apr., 1910. (Aug. 15, 1910.)

Statistics of export (quantity) of wheat, maize, rye, barley, oats, millet, rape, May, June, 1910. (Aug. 15, 1910.)

Prices quoted on the markets of Braila and Constantza, wheat, maize, barley, oats, rye, beans, Aug. 13, 1910 (Aug. 15, 1910); Oct. 14, 1910 (Oct. 15, 1910); Oct. 31, 1910 (Nov. 1, 1910); Nov. 30, 1910 (Dec. 1, 1910); Dec. 14, 1910 (Dec. 15, 1910.)

Statistics of agricultural cooperation. (Sept. 1, 1910.)

Statistics of area cultivated in wheat, rye, barley, cats, maize, millet, buckwheat, rape, flax, hemp, beans, potatoes, sugar beets,

tobacco, kitchen gardens, fodder root crops, meadows, vines, plum trees, 1909/10. (Oct. 1, 1910.)

Flour and products, manufactured, delivered for consumption, exported, Apr. - June, 1910, by departments. (Oct. 1, 1910.)

Statistics of trade (value) between Rumania and Egypt, Apr. - June, 1910. (Oct. 1, 1910.)

Statistics of export (quantity) of maize to France, Jan. - July, 1908, 1909, 1910. (Oct. 1, 1910.)

Statistics of export of wood and wood products, 1909. (Oct. 15, 1910.)

Products (quantity, price) sold in the market of Galatz, July - Aug. 1910. (Oct. 15, 1910.)

Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, 1909, 1910. (Oct. 15, 1910.)

Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax, 1910. (Nov. 1, 1910.)

Products (quantity, price) sold in the market of Galatz, wheat, maize, rye, barley, oats, beans, flax seed, wine, Sept., 1910. (Nov. 1, 1910.)

Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, July, Aug., 1910. (Nov. 1, 1910.)

Statistics of trade (quantity, value) between Rumania and Switzerland, Jan. - June, 1910. (Dec. 1, 1910.)

Statistics of import, 1909. (Dec. 15, 1910.)

Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, Oct., 1910; from the port of Constantza, Oct., 1910. (Dec. 15, 1910.)

Statistics of export (quantity, value, country of destination), by categories, 1909 (prelim, figs.); comparative figures (quantity, value), 1907, 1908. (Dec. 15, 1910.)

Prices quoted on the markets of Braila and Constantza, wheat, maize, barley, oats, rye, beans, Dec. 31, 1910 (Jan. 1, 1911); Feb. 14, 1911 (Feb. 15, 1911); Feb. 28, 1911 (Mar. 1, 1911); Mar. 31, 1911 (Apr. 1, 1911); June 30, 1911 (July 1, 1911); July 14, 1911 (July 15, 1911); July 28, 1911 (Aug. 1, 1911); Aug. 12, 1911 (Aug. 15, 1911); Sept. 30, 1911 (Oct. 1, 1911); Oct. 14, 1911 (Oct. 15, 1911); Nov. 31, 1911 (Dec. 15, 1911); Feb., 1912 (Feb., 1912); Mar., 1912 (Mar., 1912.)

Statistics of export and import (quantity, value), plums, cherries, etc., pears, apples, apricots and peaches, 1907, 1908; import of prunes, 1906, 1907, 1908. (Feb. 15, 1911.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, 1909, 1910; Jan. 1910, 1911. (Mar. 1, 1911.)

Statistics of production and yield, wheat, rye, barley, oats, rape, flax seed, 1910. (Mar. 1, 1911.)

Statistics of trade (quantity, value) between Rumania and Bulgaria, 1901-1908 (Apr. 1, 1911); between Rumania and Egypt, 1910. (May 1, 1911.)

Export of wood (oak), 1903-1909. (Apr. 1, 1911.)

Statistics of production, consumption, export, beer, alcohol, sugar, flour, Apr. 1, 1909 - Mar. 31, 1910. (May 1, 1911.)

- Statistics of trade between Rumania and Egypt, 1910. (May 1, 1911.)
- Statistics of consumption (total, per capita) of bread, by provinces and districts, 1910. (May 1, 1911.)
- Statistics of export (quantity) of wheat, rye, maize, barley, oats, millet, rape, Feb., 1911. (May 1, 1911.)
- Statistics of trade (quantity) between Rumania and Austria-Hungary, 1910. (May 1, 1911.)
- Statistics of production, consumption, export of flour, Jan., 1911. (May 1, 1911.)
- Statistics of trade (value) between Rumania and Bulgaria, 1908, 1909, 1910. (June 15, 1911.)
- Statistics of import and export (quantity, value) through the port of Galatz, by categories, 1909. (June 15, 1911.)
- Statistics of trade (quantity) between Rumania and Italy, Jan. - Mar., 1911. (June 15, 1911.)
- Statistics of export of lumber, Mar., 1911 (May 1, 1911); to Bulgaria, 1910 (June 15, 1911); to Turkey (July 1, 1911).
- Statistics of trade between Rumania and Switzerland, 1910. (June 15, 1911.)
- Statistics of trade (quantity, value) between Rumania and Spain, 1908, 1909. (July 1, 1911.)
- Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, May, 1910, 1911. (July 15, 1911.)
- Products (quantity, price) sold in the port of Galatz, May, 1911. (July 15, 1911.)
- Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, June, 1910, 1911 (Aug. 15, 1911); flour exported through Braila and Galatz to Turkey, June, 1911; lumber exported through Braila and Galatz, June, 1911. (Aug. 15, 1911.)
- Statistics of trade (quantity, value) between Rumania and Egypt, 1910; Germany, Jan. - June, 1910, 1911. (Oct. 1, 1911.)
- Lumber exported from Constantza, June, July, 1911; flour from Braila, Constantza, Galatz, July, 1911; sugar from Constantza, July, 1911; lumber from Braila, Galatz, July, 1911. (Oct. 1, 1911.)
- Statistics of export (prelim. figs.), 1910. (Oct. 15, 1911.)
- Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax, 1911. (Oct. 15, 1911.)
- Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, 1910, 1911; wheat flour from Braila, Galatz, to Turkey, Aug., 1911; lumber from Galatz, Braila, Aug., 1911; flour and sugar from Constantza, Aug., 1911. (Oct. 15, 1911.)
- Statistics of trade between Rumania and Egypt, Apr. - June, 1911; Italy, 1910; Bulgaria, Jan. - Mar., 1911. (Dec. 15, 1911.)
- Products (quantity, price, value) sold on the market of Constantza, Sept., 1911. (Dec. 15, 1911.)
- Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, Jan. - Sept., 1910, 1911; Sept., 1910, 1911; lumber, Sept., 1911; exports from Braila, July, 1911. (Dec. 15, 1911.)
- Products (quantity, price) sold on the market of Galatz, Sept., 1911. (Dec. 15, 1911.)

Statistics of trade (value) between Rumania and Egypt, July - Sept., 1911; between Rumania and Hamburg, 1910. (Jan. 1, 1912.)

Lumber exported from Galatz, Braila, Oct., 1911; wheat flour exported from Galatz to Turkey, Oct., 1911 (Jan. 1, 1912); flour and lumber exported, Sept., Oct., Nov., 1910, 1911. (Feb. 1, 1912.)

Statistics of trade between Rumania and Belgium through the port of Antwerp, 1910. (Feb. 1, 1912.)

Statistics of export (quantity), wheat, maize, barley, oats, rye, rape, flour, millet, 1910; flour, lumber, Sept., Oct., Nov., 1911; preliminary figures. (Feb. 1, 1912.)

Statistics of export (quantity, value, country of destination), by categories, 1910. (Mar. 1, 1912.)

Statistics of export (quantity) of wheat, rye, maize, barley, oats, millet, rape, Jan., 1911, 1912; lumber, wheat flour, Jan., 1912. (Apr. 1, 1912.)

Products (quantity, price) sold in the market of Galatz, wheat, maize, rye, barley, oats, Jan., 1912. (Apr. 1, 1912.)

Statistics of trade (value) between Rumania and Egypt, Oct. - Dec., 1911. (May 15, 1912.)

Statistics of area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, peas, beans, sugar beets; area, production, sunflower, flax, hemp, lentils, potatoes, tobacco, onions, cabbage, other vegetables, melons, pumpkins, lucerne and clover, fodder root crops, hay, vines, plum trees; value of wine and plums, 1911. (May 15, 1912.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, Feb., 1911, 1912; flour, Feb., 1912. (May 15, 1912.)

Statistics of trade between Rumania and Austria-Hungary, 1909, 1910. (June 1, 1912.)

Products (quantity, price, value) sold on market of Braila, wheat, maize, barley, oats, rye, beans, Apr., 1912; Galatz (quantity, price), wheat, maize, barley, oats, rye, Mar., 1912. (June 1, 1912.)

Statistics of export (quantity) wheat, rye, maize, barley, oats, millet, rape, wheat flour, bran, wood, lumber, March, 1912. (June 1, 1912.)

Statistics of trade (quantity, value) between Rumania and Turkey, Mar. 14, 1909 - Mar. 13, 1910. (June 15, 1912.)

Statistics of export (quantity) wheat, rye, maize, barley, oats, millet, rape, Apr., 1911, 1912; wheat flour, bran, Apr., 1912; wheat flour, sugar from Constantza, Apr., 1912 (June 15, 1912); lumber from Constantza, Galatz, May, 1912 (July 1, 1912); export of wheat flour and sugar from Galatz and Constantza, July, 1912; lumber from Galatz and Braila. (Aug. 15, 1912.)

Statistics of trade (quantity, value) between Rumania and Egypt, 1911. (Sept. 1, 1912.)

Statistics of export (quantity) of flour, sugar, from Constantza to Turkey and Egypt; flour from Galatz to Turkey, July, 1912; lumber, June, 1912. (Sept. 1, 1912.)

Statistics of trade between Rumania and Spain, 1910; between Rumania and Belgium, 1911 (Sept. 1, 1912); between Rumania and Belgium, 1910. (Oct. 15, 1912.)

Products (quantity, price) sold on the market of Galatz, July, August, 1912. (Oct. 15, 1912.)

Statistics of area of wheat, rye, barley, oats, maize, millet, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, fodder root crops, hay, vines, plums, 1912. Comparative figures, 1911. (Oct. 15, 1912.)

Statistics of export, wheat, rye, maize, barley, oats, millet, rape, lumber, Aug., 1912 (preliminary figures); wheat flour, lumber (quantity, country of destination) from Braila, Aug., 1912; wheat flour, lumber (quantity, country of destination) from Galatz, Aug., 1912. (Oct. 15, 1912.)

Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax. (Nov. 15, 1912.)

Statistics of export, wheat, rye, maize, barley, oats, millet, rape, wheat flour, lumber, Sept., 1912. (Nov. 15, 1912.)

Statistics of cooperation, 1910; progress of agricultural cooperative associations, 1903-1911. (Dec. 15, 1912.)

Statistics of area, production, vines, plum trees; total value and average price of wine, plums, 1911. (Dec. 15, 1912.)

Statistics of trade (quantity) between Rumania and Germany, Jan.-Oct., 1912. (Jan. 1, 1913.)

Statistics of valuation and returns from State land, 5-year periods, 1881-1910. (Jan. 1, 1913.)

Statistics of export (quantity, country of destination); lumber, wheat flour, from Galatz and Constantza. (Jan. 1, 1913.)

Statistics of contagious diseases among livestock, Oct., 1912. (Jan. 1, 1913.)

Statistics of area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, potatoes, sugar beets, tobacco, vegetable gardens, fodder root crops, lucerne and clover, other meadows, vines, plum trees, yearly, 1906-1911 (Jan. 1, 1913); area, production, yield, barley, oats, 1912. (Feb. 15, 1913.)

Statistics of production, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), maize, peas, beans, lentils, potatoes, sugar beets, tobacco, chicory, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, meadows, vines, plum trees, yearly, 1906-1911. (Feb. 1, 1913.)

Statistics of export (quantity), wheat flour, bran, wheat, rye, maize, barley, oats, millet, rape, lumber, Dec., 1912. (Feb. 15, 1913.)

Statistics of import (quantity, country of origin), lucerne, clover, 1912. (Feb. 15, 1913.)

Statistics of area, wheat, maize, rye, barley, oats, rape, yearly, 1862-1876; 1886-1911. No statistics were issued for the years 1877-1885. (Feb. 15, 1913.)

Statistics of export (quantity, country of destination), lumber from Constantza; wheat flour from Galatz, Jan., 1913. (Mar. 1, 1913.)

Statistics of area, production, yield, gross value, average value of production per hectare, average sales price, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, truck gardens, fodder root crops, clover and lucerne, other meadows, fodder plants, vines, plum trees, 1911. (Mar. 1, 1913.)

Statistics of export (quantity), wheat flour, bran, wood, lumber, wheat, rye, maize, barley, oats, millet, rape, Feb., 1913. (Apr. 15, 1913.)

Statistics of operations of the farm bank (caisse rurale), 1912. (May 15, 1913.)

Statistics of export (quantity, country of destination) wheat flour, lumber, from Constantza, Feb., 1913 (Apr. 1, 1913); from Braila, Galatz, Constantza, Mar., 1913. (May 15, 1913.)

Products (quantity, price) sold on the market of Galatz, Feb., 1913. (May 15, 1913.)

Statistics of trade (quantity) between Rumania and Belgium, Jan. - Mar., 1913. (June 1, 1913.)

Statistics of export (quantity, country of destination), wheat, maize, rye, barley, oats, millet, rape, 1912. (June 1, 1913.)

Products (quantity, price, value) sold in the market and port of Braila, Mar., 1913, wheat, maize, barley, oats, rye, beans, peas, sunflower seed (June 1, 1913); wheat, maize, barley, oats, rye, beans, peas, hemp seed, Apr., 1913. (June 15, 1913.)

Average price of bread, beef, pork, mutton, chickens, ducks, geese, turkeys, eggs, milk, cheese, butter, smoked bacon, lard, olive oil, olives, rice, maize flour, sugar, coffee, wine, plum brandy, white beans, lentils, potatoes, onions, cabbage, walnuts, apples, grapes, lumber, yearly, 1910, 1911, 1912. (July 1, 1913.)

Prices on markets of Braila, Constantza, Bucharest, Galatz, wheat, rye, barley, oats, maize, beans, rape, May, 1913. (July 15, 1913.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, wheat flour, bran, lumber, May, 1913. (Aug. 1, 1913.)

Products (quantity, price, value) sold on market of Braila, June 23-30, 1913, wheat, maize, rye, barley, beans, rape, peas. (Aug. 15, 1913.)

Statistics of trade (value, preliminary figures) between Rumania and Serbia, Jan. - Sept., 1912. (Sept. 1, 1913.)

Products (quantity, price) sold on market of Galatz, wheat, rye, barley, oats, maize, beans, peas, rape, May, June, 1913; Constantza, June, 1913 (Sept. 1, 1913); Galatz, July, Aug., 1913. (Oct. 15, 1913.)

Statistics of export, wheat, maize, rye, barley, oats, dried legumes, rape seed, to Belgium, Jan. - June, 1913; wheat, rye, maize, barley, oats, millet, rape, lumber, June, 1913; wheat flour, lumber from Braila, June, 1913. (Sept. 1, 1913.)

Statistics of production of wheat, 1912. Comparative figures, yearly, 1907-1911. (Oct. 1, 1913.)

Statistics of export, lumber from Galatz and Constantza, July, 1913. (Oct. 1, 1913.)

Statistics of trade (quantity, value) between Rumania and Belgium, 1912. Comparative figures, 1910, 1911. (Oct. 1, 1913.)

Statistics of cooperation, 1911. (Nov. 1, 1913.)

Statistics of export (quantity, country of destination), wheat flour from Balcic and Constantza, Sept., 1913; from Balcic and Braila, Aug., 1913. (Nov. 1, 1913.)

Products (quantity, price, value) sold on market of Constantza, Sept., 1913; Braila, Aug., 1913. (Nov. 1, 1913.)

Area, wheat, maize, barley, oats, rye, rape, millet, meadows, vines, prune trees, 1912/13. (Nov. 15, 1913.)

Rural bank statistics, Sept. 30, 1913. (Nov. 15, 1913.)

Statistics of export (quantity, country of destination), flour, barley, rice, beans, lumber, maize, cheese, from Constantza and Balcic, Sept. 10 - Oct. 1, 1913; wheat flour, wood from Galatz, Sept., 1913. (Nov. 15, 1913.)

Production, wheat, rye, barley, oats, rape, flax, 1911, 1912, 1913. (Dec. 1, 1913.)

Export (quantity, country of destination), wheat, barley, beans, maize, rye, rape, peas, millet, mustard seed, from Braila, Sept., 1913. (Dec. 1, 1913.)

Statistics of export (quantity, country of destination), wheat flour from Balcic and Galatz, lumber from Galatz, wheat flour and lumber from Constantza, wheat flour from Braila, Oct., 1913. (Dec. 15, 1913.)

Products (quantity, price) sold on market of Galatz, Oct., 1913. (Dec. 15, 1913.)

Statistics of trade between Rumania and Egypt, 1912. (Jan. 1, 1914.)

Statistics of export (quantity), wheat, rye, barley, oats, maize, rice, rape, dried legumes, oil cakes, bran, to Belgium, Jan. - Oct., 1913, preliminary figures; wheat flour from the ports of Braila, Galatz, Constantza, Balcic, Nov., 1913; lumber from Constantza and Galatz, Nov., 1913. (Feb. 1, 1913.)

Statistics of trade (value) between Rumania and the Netherlands, 1911. (Feb. 1, 1914.)

Statistics of export and import, Jan. - June, 1913, preliminary figures. (Feb. 15, 1914.)

Statistics of export of lumber from Galatz, Dec., 1913; wheat flour from Balcic and Braila, Dec., 1913; flour, bran, lumber, Nov., 1913. (Feb. 15, 1914.)

Products (quantity, price) sold in port of Galatz, Dec., 1913, wheat, barley, oats, rye, maize, beans, hemp seed, flax seed. (Feb. 15, 1914.)

Area sowed in wheat, rye, barley, rape, autumn, 1913, preliminary figures; comparative figures, 1912. (Mar. 1, 1914.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, Dec., 1912, 1913; flour, bran, Dec., 1913. (Mar. 1, 1914.)

Statistics of import, by categories, yearly, 1907-1911. (Mar. 1, 1914.)

Statistics of export (quantity, country of destination), July - Dec., 1913. (Mar. 15, 1914.)

Prices of wheat, rye, barley, oats, maize, beans, rape on markets of Braila, Constantza, Bucharest, Galatz, Dec., 1913. (Mar. 15, 1914.)

Statistics of export (quantity), wheat flour from Galatz; lumber, Dec., 1913; wheat, rye, maize, barley, oats, millet, rape, Jan., 1914; comparative figures for Jan., 1913. (Mar. 15, 1914.)

Statistics of trade (quantity) between Rumania and Belgium, 1913. Comparative figures, 1912. (Apr. 1, 1914.)

Products (quantity, price) registered on the market of Galatz, Jan., 1914. (Apr. 1, 1914.)

Statistics of area, production, by categories, grain, oleaginous and textile plants, legumes, industrial plants, cabbage, onions, melons, pumpkins, truck crops, forage plants, vines and plum trees, 1913. (Apr. 15, 1914.)

Statistics of rural credit, 1913. (Apr. 15, 1914.)

Statistics of export (value), cheese, flour, lumber, to Egypt, Jan. - Feb., 1914; (quantity), lumber, wheat, rye, maize, barley, oats, millet, rape, flour, bran; preliminary figures, Feb., 1914. (Apr. 15, 1914.)

Statistics of trade (quantity, value) between Rumania and the Netherlands, 1912; between Rumania and Austria-Hungary, 1912.

(May 1, 1914.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, flour, bran, lumber, Mar., 1914; preliminary figures. (May 1, 1914.)

Statistics of export (quantity, country of destination), wheat flour, bran, lumber, 1913; export to Egypt, lumber, wheat flour, yearly, 1906-1913. (June 1, 1914.)

Statistics of operations of the farm bank (caisse rurale), 1913. (June 1, 1914.)

Products (quantity, price) sold in the port of Galatz, Feb., 1914; on the trade market of Constantza, Mar., 1914, wheat, buckwheat, rye, barley, oats, maize, beans, millet, rape, flax seed. (June 1, 1914.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, flour, bran, lumber; preliminary figures, Apr., 1914; to Egypt, wheat flour, lumber, cheese, Jan. - Apr., 1913, 1914. (June 1, 1914.)

Visible stocks of wheat, wheat flour, rye, barley, oats, maize, by localities, Apr., 30, 1914 (June 1, 1914); May 31, 1914 (July 1, 1914); Aug. 1, 1914 (Aug. 1, 1914); Oct. 14, 1914 (Oct. 1 - Nov. 1, 1914); Dec. 1, 1914 (Dec. 1, 1914.)

Statistics of trade between Rumania and Bulgaria, 1909 - 1911; between Rumania and Marseille, 1910, 1912. (July 1, 1914.)

Products (quantity, price) sold on market of Galatz, wheat, barley, oats, rye, maize, beans, hemp seed, millet, May, 1914; peas, market of Braila, May, 1914. (July 1, 1914.)

Statistics of export (quantity), wheat, barley, rye, to Spain, Apr., 1914; wheat, rye, maize, barley, oats, millet, rape, flour, bran (preliminary figures) May, 1914; lumber (preliminary figures) Apr., 1914. (July 1, 1914.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, rye, beans, rape, quoted on markets of Braila and Constantza and on some foreign markets, May, 1914 (July 1, 1914); July, 1914 (Aug. 1, 1914.)

Statistics of trade between Rumania and Turkey, 1910. (Aug. 1, 1914.)

Statistics of export (value) to Egypt, wheat flour, lumber, cheese, Jan. - May, 1913, 1914. (Aug. 1, 1914.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, rye, peas quoted on markets of Braila and Constantza and on some foreign markets, Aug., 1914. (Sept. 1, 1914.)

Products (quantity, price) registered on market of Galatz, June, 1914. (Aug. 1, 1914.)

Statistics of export (quantity), wheat, rye, maize, barley, oats, millet, rape, June, 1913, 1914; Jan. - June, 1913, 1914; wheat flour, bran, lumber, June, 1914. (Aug. 1, 1914.)

Products (quantity, price) sold on market of Braila, June, 1914, maize, wheat, barley, oats, rye, beans, millet, rape, hemp seed. (Aug. 1, 1914.)

Statistics of export (value), wheat flour, lumber, cheese, to Egypt, Jan. - July, 1914. (Sept. 1, 1914.)

Products (quantity, price) sold on market of Galatz, wheat, barley, oats, rye, maize, beans, July, 1914; Constantza, wheat, barley, oats, maize, rape, July, 1914; (quantity), Braila, Galatz, Constantza, wheat, barley, maize, rye, oats, beans, millet, rape, flax seed, hemp seed, sunflower seed, peas, lentils, Jan. - June, 1914. (Sept. 1, 1914.)

Statistics of export, wheat, rye, maize, barley, oats, millet, rape, wheat flour, bran, lumber, July, Jan. - July, 1914 (preliminary figures); comparative figures for July, Jan. - July, 1914. (Sept. 1, 1914.)

Products (quantity, price) sold on market of Braila, wheat, maize, barley, oats, rape, beans, peas, millet, wool, July, 1914. (Sept. 1, 1914.)

Prices (maximum) of beef, pork, bacon, lard, bread, flour, sugar, cheese, lumber, in Bucharest. (Sept. 1, 1914.)

Statistics of area, production, yield, wheat, rye, barley, oats, maize, yearly, 1890-1913. (Oct. 1 - Nov. 1, 1914.)

Statistics of export (value), wheat flour, lumber, cheese, to Egypt, Jan. - Aug., 1914; comparative figures, Jan. - Aug., 1913. (Oct. 1 - Nov. 1, 1914.)

Population of Rumania according to the census of Dec. 19, 1912, by rural and urban communes. (Oct. 1 - Nov. 1, 1914.)

Prices of wheat flour, firewood, lumber in 39 localities, Sept. 15 - 30, 1914. (Oct. 1 - Nov. 1, 1914.)

Products (quantity, price) registered on the market of Galatz, Aug., 1914, wheat, barley, oats, rye, maize, peas, rape, beans; sold on the market of Braila, Aug., 1914, wheat, oats, barley, maize, rye, peas, beans, millet, rape. (Oct. 1 - Nov. 1, 1914.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, rye, beans, peas, millet, quoted on markets of Braila and Constantza and on some foreign markets, Sept., 1914. (Oct. 1 - Nov. 1, 1914.)

Statistics of export (quantity, country of destination), wheat, maize, rye, barley, oats, millet, rape, flour, bran, from Galatz, 1913. (Oct. 1 - Nov. 1, 1914.)

Statistics of export (quantity, value, country of destination), by categories, 1912. (Dec. 1, 1914.)

Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax seed, 1913, 1914. (Dec. 1, 1914.)

Products (quantity, price) registered on market of Galatz, wheat, barley, oats, rye, maize, beans, peas, millet, Oct., 1914; sold on market of Braila, wheat, maize, barley, peas, rye, beans, millet, oats, Sept., 1914; sold on market of Galatz, wheat, rye, barley, maize, beans, peas, millet, Sept., 1914. (Dec. 1, 1914.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, rye, on the markets of Braila, Constantza, Oct., 1914. (Dec. 1, 1914.)

Statistics of trade between Rumania and Switzerland, 1911 - 1913. (Jan. 1, 1915.)

Annual statistics of production and export, wheat, maize, barley, oats, rye, 1890 - 1913. (Jan. 1, 1915.)

Grain (quantity) exported from Galatz and Braila, yearly, 1837 - 1848. (Jan. 1, 1915.)

Products (quantity, value), wheat, barley, oats, maize sold on market of Constantza, Nov., 1914. (Jan. 1, 1915.)

Statistics of production, consumption, beer, alcohol, Oct., 1914. (Jan. 1, 1915.)

Products (quantity, price, value) sold on market of Braila, Oct., 1914, wheat, barley, maize, oats, millet, rye, peas, beans. (Jan. 1, 1915.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, rye, beans, peas, quoted on markets of Braila and Constantza and on some foreign markets, Nov., 1914. (Jan. 1, 1915.)

Statistics of trade between Rumania and Great Britain, 1913. (Feb. 1, 1915.)

Wood exported and in transit from Galatz (quantity, country of destination), 1913. (Feb. 1, 1915.)

Products (quantity, price, value) sold on market of Braila, Dec., 1914, wheat, maize, barley, oats; beans, rye, rape. (Feb. 1, 1915.)

Tobacco, area, prices, 1915. (Feb. 1, 1915.)

Statistics of trade between Rumania and Egypt, 1914. (Mar. 1, 1915.)

Area sowed in autumn of 1914, wheat, rye, barley, rape. (Mar. 1, 1915.)

Products (quantity, price) sold on market of Braila, wheat, barley, maize, oats, rye, rape, Dec., 1914; Galatz, wheat, barley, oats, rye, maize, beans, Dec., 1914; Constantza, wheat, barley, oats, beans, bran, rape, millet, flax seed, Jan., 1915. (Mar. 1, 1915.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, rye, quoted on markets of Braila and Constantza and on some foreign markets, Jan., 1915. (Mar. 1, 1915); plus beans, Feb., 1915 (Apr. 1, 1915); wheat, maize, barley, oats, beans, Mar., 1915 (May 1, 1915); wheat, barley, oats, maize, Apr., 1915 (June 1, 1915).

Visible stocks of wheat, wheat flour, rye, barley, oats, maize by localities, Feb. 15.- 28, 1915 (Mar. 1, 1915); Mar. 3, 1915 (Apr. 1, 1915); Mar. 31, 1915 (May 1, 1915); Apr. 17 - 30 (June 1, 1915); May 18 - 31, 1915 (July 1, 1915).

Statistics of export (quantity), grain, flour, wood, 1912, 1913, 1914; Jan. - July, Aug. - Dec., 1914; wheat, rye, maize, barley, oats, millet, rape, wheat flour, bran, wood, 1913, 1914. (Apr. 1, 1915.)

Products (quantity, price) sold on market of Constantza, wheat, barley, oats, beans, barley, rape, millet, flax seed, Feb., 1915. (Apr. 1, 1915.)

Rural bank operations, 1914. (May 1, 1915.)

Statistics of area, production, yield, wheat, rye, barley, oats, maize, 1913, 1914. (May 1, 1915.)

Products (quantity, price) registered on market of Galatz, wheat, rye, barley, oats, maize, beans, bran, Feb., 1915. (May 1, 1915.)

Products (quantity, price) sold on market of Braila, Feb., 1915, wheat, maize, barley, oats, beans, rye, millet, hemp seed, rape, mustard seed, vetch, wool. (May 1, 1915.)

Grain-market activities in 1913 and 1914; number of wagons of wheat, maize, barley, oats, rye, rape, beans, peas, sold, 1913, 1914. (June 1, 1915.)

Statistics of rural land credit, 1914. (June 1, 1915.)

Products (quantity, value, price) sold on market of Braila, Mar., 1915, wheat, maize, barley, oats, beans, mustard seed. (June 1, 1915.)

Statistics of trade between Rumania and Egypt, 1914. (July 1, 1915.)

Prices of bread, beef, pork, mutton, fowls, ducks, geese, turkeys, fish, eggs, milk, cheese, butter (fresh, salted), bacon, lard, oil, olives, rice, maize flour, sugar, coffee, wine vinegar, wine, brandy, beans, lentils, potatoes, onions, apples, walnuts, wood, yearly, 1910 - 1914. (July 1, 1915.)

Products (quantity, value, price) sold on market of Braila, Apr., 1915, wheat, maize, barley, oats, beans, millet; Constantza, May, 1915, wheat, barley, oats, millet, flour, flax seed, rape, coffee. (July 1, 1915.)

Prices (maximum, minimum, average) of wheat, barley, oats, beans, maize, quoted on markets of Braila and Constantza, May, 1915 (July 1, 1915); wheat, barley, oats, rye, maize, rape, June, 1915 (Aug. 1, 1915); July, 1915 (Sept. 1, 1915); Aug., 1915 (Oct. 1, 1915); wheat, barley, oats, rye, beans, maize, rape, Sept., 1915 (Nov. 1, 1915); wheat, maize, millet, barley, oats, rye, beans, rape, Oct., 1915 (Dec. 1, 1915); Nov., 1915 (Jan. 1, 1916).

Prices of bread, beef, pork, mutton, fowls, ducks, geese, turkeys, fish, eggs, milk, cheese, butter (fresh, salted), bacon, lard, oil, olives, rice, maize flour, sugar, coffee, wine vinegar, wine, brandy, beans, lentils, potatoes, onions, apples, walnuts, wood, yearly, 1910 - 1914. (July 1, 1915.)

Products (quantity, value, price) sold on market of Braila, Apr., 1915, wheat, maize, barley, oats, beans, millet; Constantza, May, 1915, wheat, barley, oats, millet, flour, flax seed, rape, coffee. (July 1, 1915.)

Prices (maximum, minimum, average) of wheat, barley, oats, beans, maize, quoted on markets of Braila and Constantza, May, 1915 (July 1, 1915); wheat, barley, oats, rye, maize, rape, June, 1915 (Aug. 1, 1915); July, 1915 (Sept. 1, 1915); Aug., 1915 (Oct. 1, 1915); wheat, barley, oats, rye, beans, maize, rape, Sept., 1915 (Nov. 1, 1915); wheat, maize, millet, barley, oats, rye, beans, rape, Oct., 1915 (Dec. 1, 1915); Nov., 1915 (Jan. 1, 1916).

Prices of wheat flour, wood for burning, lumber for building purposes, on the principal markets of Rumania July 1 - 15, 1915 (Aug. 1, 1915); July 15 - 31, 1915 (Sept. 1, 1915); Aug. 15 - 31, 1915 (Oct. 1, 1915); Sept. 15 - 30, 1915 (Nov. 1, 1915); Oct. 15 - 31, 1915 (Dec. 1, 1915); end Dec., 1915 (Feb. 1, 1916); end Jan., 1916 (Mar. 1, 1916); end Feb., 1916 (Apr. 1, 1916).

Products (quantity, value, price) sold on market of Braila, May, 1915, wheat, maize, oats, beans. (Aug. 1, 1915.)

Visible stocks of wheat, wheat flour, rye, barley, oats, maize, by localities, June 17 - 30, 1915 (Aug. 1, 1915); July 18 - 31, 1915 (Sept. 1, 1915); Aug. 18 - 31, 1915 (Oct. 1, 1915); Sept. 17 - 30, 1915 (Nov. 1, 1915); Oct. 18 - 31, 1915 (Dec. 1, 1915); Nov. 17 - 30, 1915 (Jan. 1, 1916); Dec. 18 - 31, 1915 (Feb. 1, 1916); Jan. 18 - 31, 1916 (Mar. 1, 1916); Mar. 2, 1916 (Apr. 1, 1916); Mar. 31, 1916 (May 1, 1916); May 1, 1916 (June 1, 1916).

Products (quantity, value, price) sold on market of Braila, June, 1915, wheat, maize, barley, oats; Constantza, July, 1915, wheat, barley, oats, maize, millet, beans, flax seed, rape, peas, coffee, wool. (Sept. 1, 1915.)

Production, consumption, available stock of beer and alcohol, June, 1915. (Sept. 1, 1915.)

Statistics of import (quantity, value) by categories, 1911, 1912; export (quantity) wheat, rye, maize, barley, oats, millet, rape, wheat flour, bran, wood, lumber, Jan. - July, 1915. (Oct. 1, 1915.)

Products (quantity, value, price) sold on market of Braila, July, 1915, wheat, maize, barley, rye, beans; Galatz, barley, oats, maize, rape; Constantza (quantity, price), Aug., 1915, wheat, maize, linseed, rape, coffee, olives, rosin. (Oct. 1, 1915.)

Minimum export prices fixed for wheat, maize, oats, barley, rye, millet, beans, peas; maximum prices for domestic consumption, wheat, maize, oats, barley, bacon, lard. (Nov. 1, 1915.)

Products (quantity, value, price) sold on market of Braila, Aug., 1915, wheat, maize, barley, oats, rye, beans, bran; Galatz, Aug., Sept., 1915, wheat, barley, oats, maize, rye, beans, flax seed cakes. (Nov. 1, 1915.)

Production, consumption, available stock of beer and alcohol, Aug., 1915. (Nov. 1, 1915.)

Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax, 1915. (Dec. 1, 1915.)

Minimum and maximum prices fixed for flour and bran. (Dec. 1, 1915.)

Products (quantity, value, price) sold on market of Braila, Sept., 1915, wheat, maize, barley, oats, rye, beans, millet, rape, flax seed. (Dec. 1, 1915.)

Statistics of export (preliminary figures; quantity), wheat, rye, maize, barley, oats, millet, rape, Sept., 1915; Jan. - Sept., 1915; wheat flour, bran, wood, lumber, Sept., 1915. (Dec. 1, 1915.)

Statistics of import and export, by categories, 1913. (Jan. 1, 1916.)

Statistics of export (preliminary figures; quantity), wheat, rye, maize, barley, oats, millet, rape, Oct. 1915; Jan. - Oct., 1915; wheat flour, bran, wood, lumber, Oct., 1915. (Jan. 1, 1916.)

Products (quantity, value, price) sold on market of Braila, Oct., 1915, wheat, maize, barley, beans, millet, oats, rye, rape, flour. (Jan. 1, 1916.)

Production, consumption, available stock of beer and alcohol, Oct., 1915 (Jan. 1, 1916); Nov., 1915 (Feb. 1, 1916).

Products (quantity, price) sold on market of Braila, Dec., 1915, wheat, maize, barley, rye, beans, millet, rape. Comparative figures for November. (Feb. 1, 1916.)

Statistics of export (preliminary figures; quantity), wheat, rye, maize, barley, oats, millet, rape, Nov., 1915; Jan. - Nov., 1915; wheat flour, bran, wood, lumber, Nov., 1915. (Feb. 1, 1916.)

Prices (maximum, minimum, average) of wheat, maize, barley, oats, beans, rape quoted on markets of Braila and Constantza, Nov., 1915. (Feb. 1, 1916.)

Statistics of export (preliminary figures; quantity), wheat, rye, maize, barley, oats, millet, rape, Dec., 1915; 1914; 1915 (Mar. 1, 1916); Jan., 1916 (Apr. 1, 1916); Feb., 1916; Jan. - Feb., 1916 (May 1, 1916); Mar., 1916; Jan. - Mar., 1916 (June 1, 1916); wheat flour, wood, lumber, Dec., 1915 (Mar. 1, 1916); Jan., 1916 (Apr., 1916); Feb., 1916 (May 1, 1916); Mar., 1916 (June 1, 1916).

Products sold (quantity, value) on market of Galatz, Dec., 1915, wheat, barley, oats, rye, maize, (Mar. 1, 1916); plus beans, Jan., 1916 (Apr. 1, 1916).

Production, consumption, available stock of beer and alcohol, Dec., 1915 (Mar. 1, 1916); Jan., 1916 (Apr. 1, 1916).

Prices (maximum, minimum, average) of wheat, maize, millet, barley, oats, rye, beans, quoted on markets of Braila and Constantza, Jan., 1916 (Mar. 1, 1916).

Products (quantity) sold on markets of Braila, Constantza and Galatz, wheat, maize, barley, oats, rye, rape, beans, peas, millet, 1914, 1915. (Apr. 1, 1916.)

U.S.D.A. Nicoleanu, George, and Mantu, Constantin G.

45 Amélioration des moutons roumains par la race de la Frise. N54 Résultat de dix années d'essais à la ferme-modèle "Laza". Bucuresti, Institutul de Arte grafice și editură "Minerva," 1906. 119p.

At head of title: Ministère de l'agriculture du commerce, de l'industrie et des domaines. Direction de l'agriculture.

This volume on the results of ten years' experiments for the improvement of the breed of the Rumanian sheep, contains the following statistics:

Numbers of sheep, 1869, 1896; comparative figures for the other sheep-raising countries; numbers of sheep, 1860, 1873, 1884, 1888,

1890, 1897, 1900. Statistics of import, export, rams, ewes, lambs, goats (numbers, value), yearly, 1861 - 1901; wool (quantity, value), 1862 - 1901; average value of wool (in the grease, combed or dyed) imported and exported, 1862-1868; 1876-1901. Wool production on farm of Laza (total, per sheep), yearly, 1898/99-1904/5; numbers of ewes, milk production (total, annual per sheep, daily per sheep), 1898/99 - 1904/5.

L.C.  
HD1491  
.R8A4

Rumania. Centrala obștiilor și a cooperativelor agricole.

Anuarul cooperatici agricole pe anul 1925. 1) obștiile de arendare; 2) obștiile de cumpărare de pământ; 3) cooperativele agricole de exploatare și approvigionare; 4) uniunile de obști și cooperative agricole; 5) Centrala obștiilor și a cooperativelor agricole (date statistice și financiare). Annuaire de la coopération agricole en Roumanie 1925. 1) Associations d'affermage; 2) associations d'achat de terres; 3) coopératives agricoles d'exploitation et d'approvisionnements; 4) unions des associations et des coopératives agricoles; 5) Centrale des associations et des coopératives agricoles (dates statistiques et financières). București, Institutul de arte grafice "Oltenia," 1926. 1 v.

At head of title 1925: Ministerul agriculturii și domeniilor. Casa centrală a cooperatiei și improprietăririi sătenilor. Centrala obștiilor și a cooperativelor agricole.

In Rumanian and French.

Contains statistics of agricultural cooperative societies active in Rumania on December 31, 1925, including date of establishment, number of members, capital lent and for what purposes.

U.S.D.A.  
282  
R76

Rumania. Consiliul superior al agriculturii.

Tabele de prețurile regionale care urmează a se avea în vedere la constituirea școlilor comunale. Alcătuită conform art. 16 din legea pentru învoieri agricole. București, Imprimeria statului, 1908. 15p.

Maximum and minimum prices per hectare of pasture land by departments and communes, in accordance with the law of 1906 governing agricultural contracts.

U.S.D.A.  
282  
R76T

Rumania. Consiliul superior al agriculturii.

Tabele de prețurile regionale maxime și minime relative la arendarea pământurilor, la muncile agricole și la pașunatul vitelor. Alcatuită conform art. 65 din legea pentru învoieri agricole. București, Imprimeria statului, 1908. 19lp.

Maximum and minimum rents of farm land and pasture land and prices paid for various kinds of agricultural labor by departments and communes in accordance with the law of 1906 governing agricultural contracts.

L.C.  
HB2721  
.A5  
1923

Rumania. Directiunea generală a statisticei (Ministerul industriei și comerțului).

Statistică profesioniștilor din România după recensământul general al populației din 1 ianuarie 1913 St.n. Statistique des pro-

fessions de la Roumanie d'après le recensement général de la population du 1<sup>er</sup> janvier 1913. [Bucureşti, Tipografia "Cultura neamului romanesc," 1923]. 319p.

At head of title: Ministerul industriei și comerțului.  
Direcțiunea generală a statisticei.

Rumanian and French.

Contains statistics of population engaged in active occupations according to the census of December 19, 1912 - January 1, 1913. Among the occupations listed are those of agriculture in general, viticulture, horticulture, livestock raising, and forestry.

L.C. Rumania. Direcțiunea statisticei comerțului exterior.

HF231 Comerțul exterior al României (Cifre preliminare). Commerce extérieur de la Roumanie (Chiffres préliminaires).  
.A42 Bucureşti, 1925 - 26. Quarterly.

U.S.D.A. At head of title: Jan./Mar. - Apr./June, 1925, Ministerul 267.8 finanțelor. Direcțiunea statisticei generale a finanțelor și a F49 comerțului exterior. Direcțiunea statisticei comerțului exterior. July/Sept. 1925 - Oct./Dec., 1925, Ministerul finanțelor. Direcțiunea statisticei financiare și a despăgubirilor de război. Serviciul comerțului exterior.

Text in Rumanian and French.

[See U.S.D.A. 267.8 F49]

L.C. has 1925.

1925 contains monthly, annual and quarterly (Jan. - Sept.) statistics of import and export (quantity, value).

L.C. Rumania. Direcțiunea statisticei generale (Ministerul agriculturii HAL641 și domeniilor).

.A5 Dictionarul statistic al României întocmit pe baza rezultatelor 1912 definitive ale recensământului general al populației din 19 decembrie 1912. Ed. oficială ... București, Institutul de arte grafice C. Sfetea, 1914-15. 2v.

At head of title: Ministerul agriculturii și domeniilor.  
Direcțiunea statisticei generale.

Some table headings also in French.

Contents. 1. Arges-Iași. 1914. 2. Ilfov-Vlașca. 1915.

Contains results of census of population of December 19, 1912.

L.C. Rumania. Direcțiunea statisticei generale (Ministerul agriculturii HD831 și domeniilor).

.D3 Inventarul moisiilor statului cu un venit anual mai mare de 1907 3,000 lei dela 1865 până la 1907. București. Inst. de arte grafice C. Göbl, 1909. 334p.

At head of title: Ministerul agriculturii și al domeniilor.  
Serviciul statisticei generale.

On verso of back cover: Ministère de l'agriculture et des domaines, Service de la statistique générale. Inventaire des propriétés de l'Etat d'un revenu annuel supérieur à 3.000 frcs. depuis 1865 jusqu'à 1907.

Table headings and index in Rumanian and French.

Statistics of public lands with an annual return of more than 3000 francs: area of properties, cause of increase or decrease in area, arable land, meadows, pasturage, vineyards, land leased to associations or to individuals, annual return (total and per hectare), by departments and communes, for various 5 year periods during the period 1866 - 1907.

Area, return (total, per hectare) of public leased lands, according to the size of the property leased, by departments, during the period 1865 - 1907.

L.C. Rumania. Directiunea statisticei generale (Ministerul agriculturii și domeniilor)

HD2051 HE .A4 1915 Statistica agricolă a României pe anii 1911 - 1915. București, Inst. de arte grafice C. Göbl, 1918. 83p

At head of title: Ministerul agriculturii și domeniilor. Directiunea statisticei generale.

Table headings and index in Rumanian and French.

U.S.D.A. catalogues as part of set under 267.8 Ag83.

Statistics of area, production, yield, wheat, rye, maize, barley, oats, millet, buckwheat, rape, sunflower, flax, hemp, peas, lentils, beans, potatoes, sugar beets, tobacco, cabbage, onions, melons, pumpkins, fodder root crops, meadows, lucerne and clover, vines, plum trees; area, production, sorghum, mustard, chicory, poppy, anise, soya beans, lupine, cumin, rice; total value and average price per hectolitre of wine, plums, 1911-1915, by departments.

Losses (in terms of hectares) to crops of wheat, rye, barley, oats, rape, by mice, frost, flood, drought, hail, rust, insect pests; maize, by frost, drought, flood, hail; flax, by flood, drought, hail, insect pests; vines, by drought, frost, mildew, hail, phylloxera; plum trees, by drought, frost and cold, hail and storm, caterpillars, by departments, 1911-1915.

Statistics of area in hectares: grain (wheat, rye, barley, oats, buckwheat, millet, maize); oleaginous and textile plants (rape, flax, hemp, sunflower); vegetables (beans, peas, lentils, potatoes, cabbage, onions, melons, pumpkins); industrial and other plants (sugar beets, tobacco, sorghum, anise, poppy, mustard, chicory, lupine, etc.); meadows, natural and artificial; vines; plum trees, by departments, yearly, 1911-1915; yearly average 1906/10, 1911/15.

Comparative table of yield per hectare on large and small farms of wheat, rye, barley, oats, maize, millet, buckwheat, rape, sunflower, flax (seed, fiber), hemp (seed, fiber), beans, peas, lentils, potatoes, sugar beets, cabbage, onions, melons, meadows, vines, plum trees.

L.C. Rumania. Directiunea statisticei generale (Ministerul finanelor)

HE 871 .A5 1921 Miscarea porturilor în anii 1919, 1920 și 1921 (1 ianuarie - 31 decembrie) .. Măfurile intrepozitate în anii 1919, 1920 și 1921 (1 ianuarie - 31 decembrie). Măfurile tranzitate în anii 1919, 1920 și 1921 (1 ianuarie - 31 decembrie). București, Imprimeria statului, 1923. 109p.

At head of title: Ministerul finantelor. Directiunea statisticii generale a finantelor si comertului exterior.

Text of tables and table headings in Rumanian and French.

Some tables also include statistics for 1922.

Annual statistics of goods in transit and in warehouses, 1919-1921.

For statistics for 1926/28 See Rumania, Ministerul finantelor.

Directiunea vamilor si statisticei financiare. Serviciul statisticei comertului exterior. Comertul exterior al Romaniei si miscarea porturilor. (U.S.D.A. 267.8 F49A)

L.C. Rumania. Directiunea vamilor, timbrului si inregistrarei.  
HD9015 Comerciul exterior al Romaniei de animale si cereale de la 1871-  
.R8A5 1904. Bucuresti, Atelierele grafice I. V. Sodecu, 1905. 43p.  
1904 At head of title: Ministerul de finance. Directiunea generala a vamilor.

Annual statistics of import and export (number, value, country of origin and of destination) of horses, mules and asses, cattle and buffaloes, calves, sheep and goats, hogs, 1871-1904.

Annual statistics of area, production (quantity, value), yield, export (quantity, value) of maize, rye, barley, oats, millet, rape, 1871-1904. Five year averages. No statistics for area, production, yield, 1877-1885.

L.C. Rumania. Directiunea vamilor, timbrului si inregistrarei. Bioul HF231 statisticei.  
.A2 Comerciul exterior al Romaniei.  
Bucuresci L.C. has 1871-1879; 1882-1883; 1890-1920.  
Rumanian and French. 1900 in 2 pts. pt. 1-2. 1 v.  
Title varies:  
1872-1877, Statistica din Romania. Comerciul exterior, import si export.  
1878, Statistica [etc.] Comerciulu exterioru, importu si exportu.  
1891, Tablou general indicand comerciul Romaniei cu terile straine.  
1892-1902, Comerciul exterior al Romaniei  
1903-1912, Comerciul exterior [etc.] si miscarea porturilor. (1906-1912, Comertul exterior [etc.])  
Contains annual statistics of import and export (quantity, value, country of origin and of destination).  
L.C. combines in one entry statistics separated in U.S.D.A. under the call numbers 267.8 F49; 267.8 F49A; 267.8 F49C.

U.S.D.A. Rumania. Institutul meteorologic.  
Weather Album climatologique de Roumanie, par Stefan C. Hepites. Bucuresci,  
Bureau Impr. de la cour royale, F. Göbl fils, 1900.  
C/dl4 At head of title: Ministere de l'agriculture, de l'industrie,  
AO du commerce et des domaines. Institut météorologique.  
A Text on verso of plates.  
L.C. Contains tables and charts showing monthly and seasonal tem-  
QC perature, humidity, cloudiness, sunshine, evaporation, wind, over  
989 varying periods of years.  
.R165

U.S.D.A. Rumania. Institutul meteorologic.  
Weather Analele institutului meteorologic al României. 1885-1900, 1902.  
Bureau French and Rumanian text.  
C/dl Bucuresti, 1886-1903, 1907.  
AO L. C. entry:  
L.C. Rumania. Institutul meteorologic.  
QC Analele 1885-1902. Bucuresti and Paris, 1885-1903.  
989 Contains weather statistics.  
.R12

U.S.D.A. Rumania. Institutul meteorologic.  
Weather Buletinul meteorologic. 1895-1906. Bucuresti, 1895-1906.  
Bureau Changed to Observatorul astronomic și meteorologic din Bucuresti,  
Room 81 May 8, 1908; Institutul meteorologic, July, 1922.  
Case 12 Rumania. Institutul meteorologic central.  
Room 81 Buletinul meteorologic. May, 1922 - June, 1930. Bucuresti,  
Case 13 1922-30.  
L. C. entry:  
L.C. Rumania. Institutul meteorologic.  
QC989 Buletinul meteorologic zilnic al României. Bucarest.  
.R16 Daily.  
L. C. has 1895-1906.  
Daily statistics of atmospheric pressure, temperature, humidity,  
wind, rain.

U.S.D.A. Rumania. Institutul meteorologic.  
Weather Observațiuni meteorologice facute la Bucuresci in anul 1885.  
Bureau Recensiuni climatologice lunare și diagramele observațiunilor.  
C/dl Bucuresci, 1886.  
H5290 Daily statistics of atmospheric pressure, temperature, humidity,  
wind, cloudiness, rain, Bucharest, 1885.

U.S.D.A. Rumania. Institutul meteorologic al României [Observatorul astronomic  
Weather și meteorologic]  
Bureau Buletinul lunar al observațiunilor meteorologice din Romania.  
C/dl Bucuresci.  
AO-1 U.S.D.A. has 1892-1910; 1912-1916.  
From 1892-1899 issued as Buletinul observațiunilor meteorologice;  
from Jan., 1912 includes Starea udometrică; from 1899 issued as  
Buletinul lunar.  
L. C. entry:  
L.C. Bucharest. Observatorul astronomic și meteorologic. Buletinul lunar.  
QC989 Bucuresti.  
.R163 L. C. has 1892-1909.  
At head of title, 1892-1907: Ministerul agriculturiei, industriei,  
comerciului și domeniilor. Institutul meteorologic. 1908-1909:  
Ministerul instrucțiunii publici și al cultelor. Observatorul  
astronomic și meteorologic din România.  
Title varies: 1892-1898, Buletinul observațiunilor meteorologice  
din Romania; 1908-1909, Buletinul lunar.  
Includes also "Bibliografie și notite meteorologice," 1901-1905,  
1907.  
Monthly weather statistics.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comericiului și  
99.25 domeniilor.

R76 Notices sur les forêts du royaume de Roumanie. Bucarest, Impr.  
"Dreptatea," 1900. 60p.

L.C. At head of title: Ministère de l'agriculture, du commerce, de  
SD327 l'industrie et des domaines. Service des forêts.

.R7 Contains maps showing the forest areas by departments.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comericiului și  
267.8 domeniilor.

Ag82 Progrès de la Dobrodja depuis l'annexion jusqu'aujourd'hui,  
1878-1906. Tableau graphique dressé par ordre du ministre des  
L.C. domaines, J. N. Lahovary. Progresele Dobrogei dela anexare până  
HC407 astazi, 1878-1906. Tablou grafic intocmit din ordinul domnului  
.R8A6 ministru al domeniilor, I. N. Lahovari. București, Stab. de arte  
1907d grafice, A. Baer, 1907. 11p.

Rumanian and French.

On chart: Ministerul agriculturii, industriei și domeniilor.  
Serviciul statisticei generale. Progresele Dobrogei... Datele  
adunate și figurate de L. Colescu șeful Serviciului statisticei  
generale.

Chart shows population, area cultivated, production of wheat,  
maize, barley, oats, flax, millet, numbers of horses, oxen, and  
sheep, import and export, state revenues, state land ceded to  
individuals, 1880, 1885, 1890, 1895, 1900, 1905. No figures for  
area or production in 1880.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comericiului și  
267.8 domeniilor.

Ag82R Réponse officielle de la Roumanie au questionnaire établi par  
la délégation du comité permanent de l'institut. Bucarest, Impr.  
de l'état, 1908. 414p.

At head of title: Institut international d'agriculture.  
Assemblée générale du 26 novembre 1908.

Metorology.

Annual and seasonal statistics of precipitation (rain, snow,  
etc.), yearly, 1895-1907; average number of days of rain, by de-  
partments, yearly, 1900-1907; average monthly rainfall, 1905,  
1907; temperature (average, maximum, minimum) cold days, days of  
frost, cloudiness, 1907.

Population.

Total for 1859; detailed statistics for 1899.

Area, production, yield.

Land utilization: Area sowed; truck gardens; meadows; orchards;  
vineyards, by departments 1907; for whole country, yearly, 1902-1906.  
Area, production, yield, wheat, rye, barley, oats, maize, millet,  
rape, by departments, 1908; whole country, yearly, 1902-1906. Area,  
yield, wheat, maize, rye; barley, oats, rape, yearly, 1862-1876;  
1886-1908. Area, production, yield, buckwheat, flax, hemp, poppy,  
beans, peas, potatoes, sugar beets, tobacco, yearly, 1901-1907.

Yield, according to size of property, wheat, maize, 1905, 1906; taxable return from cultivation of maize, wheat, 1905. Area, number of fruit trees (plum trees, apple trees, pear trees, cherry trees, apricot trees, peach trees, walnut trees, quince trees, almond trees), by departments, 1905. Area, vines, fruit trees and gardens, plantations and forests, yearly, 1889, 1892, 1893, 1896, 1897, 1903, 1905, 1906. Wine, yield per hectare, yearly, 1899-1907. Area, production, yield, value, vines, plums, by departments, 1904. Meadows, production, yield, by departments, 1907; whole country, yearly, 1902-1906. Number and value of agricultural machines in use, 1905.

Livestock: Owners of livestock and numbers of horses, oxen and buffaloes, sheep, goats, hogs, asses and mules, beehives, by departments, 1900.

Sericulture: Number of communes in which it is carried on; number of silk worm raisers, numbers of eggs used, production of cocoons, 1907.

Landed property: Ratio between arable land and area of departments, 1904; sizes of farms, 1902; numbers of farm owners by size of farms; annual return from farms; leased land; state land sold, total price, average price per hectare, 1864-1906; numbers of peasants who acquired land, 1864-1906; leased land, area, rent, reasons for leasing; rents paid for farms and pasturage, 1870, 1906. Area and revenue from forest lands, 1889/99, 1899/1905. Area, production on state land, yearly, 1897-1908; numbers of livestock on state lands, yearly, 1897-1908.

Statistics of import, export, wheat, maize, rye, barley, oats, millet, horses, oxen and buffaloes, sheep and goats, hogs, yearly, 1880-1906; wood, 1882-1906.

Damage to crops, 1907.

Average prices, wheat, rye, barley, oats, maize, millet, beans, peas, mustard, flax, rape, on market of Braila, 3d. quarter of 1908; horses, oxen, cows, by departments, 1903.

Wages for different kinds of agricultural labor, by regions, fixed by the Superior Council of Agriculture, 1907.

Statistics of agricultural credit, yearly, 1874-1907.

L.C. Rumania. Ministerul agriculturiei, industriei, comerciului si domeniilor.  
SD83

.A3 Statistica pădurilor statului. Bucuresti.  
L. C. has 1900.

At head of title 1900: Ministerul agriculturiei, comerciului, industriei, si domeniilor. Serviciul silvic.

Forestry statistics - area, value, return - 1889-1899.

U.S.D.A. Rumania. Ministerul agriculturiei, industriei, comerciului si domeniilor.  
267.8

Ag2S Statistica preturilor de munci agricole după contractele scrise si învoielile verbale din anii 1904-1907. Bucuresti, Institut. de arte grafice "Carol Göbl," 1908. 392p.

L.C. HD1536 At head of title: Ministerul agriculturii, industriei, comertului si domeniilor.  
.R8A5

Statistics of prices paid for agricultural labor i.e. for ploughing, sowing, harrowing, and harvesting wheat and maize, by departments, 1904-1907.

L.C. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor.

HD9385 .R8A5 1909 Statistica viilor din România. Extras din Buletinul ministerului agriculturii și al domeniilor. Bucuresti. A. Baer, 1909. 40p.

At head of title: Ministerul agriculturii și al domeniilor. Serviciul statisticei generale.

Contains statistics of area, production, yield of vines, total value and price per hectolitre of wine, by departments, 1908; number of viticulturists according to the size of their vineyards, by departments, 1908; comparative tables of numbers of agriculturists and of viticulturists, by departments, 1908; area of vines, 1882, 1897, 1908, by departments; area attacked by phylloxera, 1888-1905; area, production, yield, value during the 5 year periods 1888-1892, 1893-1897, 1898-1902, 1903-1907; annual prices of wine per hl., 1895-1908; annual statistics of production and consumption (total, per capita) of wine, 1902/3-1907/8.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statisticei generale.

267.8 Ag82E Evaluatiunile intinderilor și a recoltelor viilor și livedilor de pruni (perjii) pentru anul... Evaluations des surfaces et récoltes des vignes et des pruniers pour l'année... [Bucuresti]

U.S.D.A. has 1897-1900.

Publicat in monitorul oficial.

Contains statistics of area of vines and plum trees; production, yield, value, average price per hl. of wine and plums, 1897, 1898, 1899 (prelim. figs.), by departments.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului, și domeniilor. Serviciul statisticei generale.

267.8 Ag82H L.C. HD2051 .A5 1905 Harta figurativa cu distribuția pe județe a principalelor produse agricole, animalelor domestice și pădurilor întocmită de L. Colescu, 1905. București, Inst. graf. C. Göbl, Ssor, I. St. Rasidescu, [1905]

At head of title: Romania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statisticei generale.

A picture chart showing agricultural production in 1903; numbers of livestock in December, 1900; forestry statistics, 1900.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statisticei generale.

267.8 Ag8N Numărătoarea animalelor domestice din Decembrie 1900. Resultate provisori. Recensement du bétail de la Roumanie au mois de décembre 1900. Résultats provisoires publiés par le Service de la Statistique générale. Bucuresci, Imprimeria statului, 1901.

Numbers (prelim. figures) of horses (stallions, geldings, mares, foals), cattle (oxen, cows, heifers, calves), buffaloes, sheep, lambs, goats (he-goats, nanny goats, kids), hogs (boars, sows, young pigs), beehives, December, 1900, by departments and communes.

Comparative figures, horses, cattle, sheep, goats, hogs, 1860, 1873, 1884, 1888, 1890, 1897.

U.S.D.A. Rumania. Ministerul agriculturii, comerciului, industriei și domeniilor. Serviciul statisticei generale.  
267.8 Résultats définitifs du dénombrement de la population (décembre 1899) précédés d'une introduction explicative par L. Colescu.  
Ag8R Bucarest, Institut d'arts graphiques "Eminesco," 1905. 46lp.  
L.C. Added t.-p. in Rumanian. Text in French and Rumanian.  
HAL641 .A5 L. C. entry:  
1905 Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor.  
Recensământul general al populației României. Rezultate definitive precedate de o introducție cu explicații și date comparative de L. Colescu... Cu 4 cartograme colorate. București, Institutul de arte grafice "Eminescu" 1905. 46lp.  
Added t.-p. in French.  
At head of title: Ministerul agriculturii, comerciului, industriei și domeniilor. Serviciul statisticei generale.  
Statistics of population by departments and communes according to the census of December, 1899 (age, sex, marital status, religion, nationality, literacy). Total population, 1859/60, 1884, 1889, 1894, 1899.  
Statistics of population, rural, urban, by households, marital status, age, religion, nationality, literacy, and health, 1899.  
Total population, 1859/60, 1884, 1889, 1894, 1899.  
U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statisticei generale.  
267.8 Ag82Se Statistica agricolă. Evaluarea recoltelor de vara.  
București.  
U.S.D.A. has 1896/97-1901/2; 1903/4.  
Title varies.  
1896/97, 1898/99, 1900/01, 1901/2, 1903/4 contain annual statistics (preliminary figures) of area, production, yield, wheat, rye, barley, oats, rape, flax; comparative figures for 5 preceding years.  
1897/98 contains statistics (preliminary figures) of area, production, yield, wheat, rye, barley, oats, rape, flax, hemp, maize, millet, buckwheat, beans, potatoes, sugar beets, tobacco, meadows. Comparative figures for 5 preceding years.  
1899/1900 contains statistics (preliminary figures) of area, production, yield of maize, millet, buckwheat, flax, hemp, beans, beans plus peas plus lentils, potatoes, sugar beets, industrial plants, meadows.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statistic general.  
267.8 Statistica agricolă. Întinderea culturilor făcute în toamna și primăvara  
Ag82Si  
L.C. t București,  
HD2051 U.S.D.A. has 1900/01-1902/3.  
.A38 Publicate în Monitorul oficial.  
1899/1900 has title: Statistica agricola. Evaluatiunile provisoriile ale semenăturilor și recoltelor.  
Statistics of area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, beans plus peas plus lentils, potatoes, sugar beets, tobacco, cabbage, onions, cucumbers, other vegetables, melons, meadows, by departments; comparative figures for 5 preceding years for whole country.  
L. C. entry:  
Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor.  
Statistica agricola. Întinderea culturilor făcute în toamna anului 1903 și primăvara anului 1904. București, Imprimeria statului, 1904. 7p.  
At head of title: Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statistic general.  
Area cultivated in autumn 1903 and spring 1904: wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, peas, lentils, potatoes, sugar beets, tobacco, poppy, anise, cabbage, onions, melons, meadows, vines, plum trees, by departments; comparative figures for whole country, 1899-1903.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statistic general.  
267.8 Statistica agricola a Romaniei; studiu analitic bazat pe cercetările făcute în anii 1904 și 1905. București, 1907.  
Ag88  
L.C. Pt. 1 Exploatare agricolă.  
HD2051 L. C. entry:  
.A4 Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor.  
Statistica agricola a Romaniei. Studiu analitic bazat pe cercetările făcute în anii 1904 și 1905 de L. Colescu.  
București, Stabilimentul grafic A. Bacă, 1907.  
At head of title: Ministerul agriculturii, comerțului, industriei și domeniilor. Serviciul statistic general.  
Added t.-p.: Ministère de l'agriculture, du commerce, de l'industrie et des domaines. Service de la statistique générale. Statistique agricole de la Roumanie. Étude analytique basée sur les investigations faites en 1904 et 1905 par L. Colesco.  
Contents: 1. partea. Exploatare agricolă; 1. ptie. Exploitations agricoles.  
Statistics of temperature, precipitation, atmospheric pressure, cloudiness, 1904, 1905.

Statistics of land utilization, 1905: area sowed, fallow land, vineyards and orchards, meadows, permanent pastures, forests, non-agricultural land, by departments.

Distribution of cultivated land among large and small agriculturists, 1904, 1905, by departments.

Area of farms according as they are exploited by the owner or a tenant.

Statistics of population (total, agricultural), 1900, 1905, by departments.

Area cultivated; number of days of labor employed for the cultivation of wheat plus rye plus barley plus oats plus millet plus buckwheat plus rape; maize plus beans plus peas plus lentils plus flax and hemp; potatoes; sugar beets; tobacco; market gardens; meadows, vineyards; plum trees, 1905.

Numbers and value of agricultural machines used in 1905.

Numbers of horses, oxen used in agricultural labor, 1901, by departments.

Numbers of beehives, 1900; numbers of beehives, production and value of honey, beeswax, 1901, by departments.

Statistics of sericulture: numbers of silkworm raisers; numbers of eggs placed in incubation; production of cocoons, yearly, 1901-1906.

Numbers of agricultural properties and area cultivated, according to the census of 1905.

Area, production, yield, value, 1905, wheat, rye, barley, oats, maize, millet, buckwheat, rape and poppy, flax (seed, fiber), hemp (seed, fiber), beans, peas plus beans plus lentils, sugar beets, tobacco, cabbage, onions, other vegetables, melons, meadows, vineyards, plum trees.

Sale price per hectare of state land sold, 1868-1906; area sold, total sale price, average price per hectare, 1889-1906.

Value (sales) of land per hectare in francs according to prices obtained at auction, large estates, small farms, vineyards, 1902-1904.

U.S.D.A. Rumania. Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statisticei generale.

267.8 C67 Statistica animalelor domestice din Romania, precedată de introducție cu explicații și date retrospective de L. Colescu. Bucuresci, Instit. de arte grafice, C. Göbl, 1903. 175p.

L.C. HD9433 .R8C6 Added title in French.

Text in Rumanian, tables in Rumanian and French.

Numbers of horses, asses and mules, oxen and buffaloes, sheep, goats, hogs, beehives, according to the censuses of 1860, 1873, 1884, 1888, 1890, 1897, 1900, by departments.

Numbers of horses, oxen, sheep, goats, hogs, beehives per square km., by departments, 1900; numbers of horses, oxen used in agricultural work, 1900; numbers of horses, oxen, sheep, goats, hogs, per 100 hectares, 1900.

Average weight (live, as meat) in capitals of departments of oxen, cows, calves destined for slaughter, 1900; numbers of oxen

and cows, calves, sheep and goats, lambs, hogs slaughtered in 70 towns, 1898, 1900.

Numbers of livestock owners, horses (stallions, geldings, mares, foals), asses, mules, bulls, oxen, cows, calves, buffaloes, sheep, lambs, goats, hogs, beehives, area of pastures, December, 1900, in rural and urban communes by departments, capitals of departments, 39 other towns, in rural communes by departments; by communes and districts.

Numbers of owners of horses, asses and mules, oxen and buffaloes, sheep, goats, beehives, according to numbers owned, by communes, departments.

U.S.D.A. Rumania. Ministerul agriculturăi, industriei, comerțului și domeniilor. Serviciul statisticăi generale.  
267.8  
Ag82St Statistica mașinilor și instrumentelor agricole întrebuitate in anul 1905. București, Stabilimentul grafic "A. Baer," 1907.  
L.C. 84p.  
S760 Added t.-p. in French; tables in Rumanian and French.  
.R8A5 Statistics of agricultural machinery and tools in use in  
1907 December 1905, by departments.

L.C. Rumania. Ministerul agriculturăi, industriei, comerțului și domeniilor. Serviciul statisticăi generale.  
HD2051  
.A35 Statistica recoltelor din toamna anului 1901 și cultura albinelor. București, 1902.  
Statistics of area, production, yield, maize, millet, buckwheat, legumes, peas plus beans plus lentils, beans, potatoes, sugar beets, flax, hemp, poppy, tobacco, anise, chicory root, hops, sunflower, millet for brooms, mustard, cabbage, onions, cucumbers, melons, fodder plant roots, meadows, vines, plum trees; total value, average value per hectolitre of wine, plums, by departments, 1900/01.  
Comparative statistics of area, production, yield, maize, millet, beans, potatoes, flax (seed, fiber), hemp (seed, fiber), sugar beets, tobacco, meadows, vines, plum trees; total value and value per hectolitre of wine, plums, yearly 1896-1901.  
Numbers of beehives; production, value, price per kilogram of honey, beeswax, by departments, 1901.

U.S.D.A. Rumania. Ministerul agriculturăi și domeniilor.  
267.8 L'agriculture en Roumanie; album statistique publié à l'occasion  
Ag8Ag du XIV<sup>e</sup> congrès international d'agriculture. Ministère de l'agriculture et des domaines. Bucharest [L'imprimerie Socec & Co.]  
L.C. 1929. 91p.  
HD2055 Average amount of precipitation, by seasons, 1887/1915, 1923/1927.  
.A5 average temperature, 1896/1915, 1923/1927.  
1929 Statistics of land utilization (total area, cultivated land, meadows and pasture land, trees and shrubs, woods and forests, grain, food plants, industrial plants), average for 1923/1927.

Area sowed in grain, food plants, industrial plants, yearly, 1923-1927.

Area sowed in wheat, maize, barley, oats, rye, millet, buckwheat, sorghum, yearly, 1923-1927.

Yield per hectare of wheat, maize, barley, oats, yearly, 1923-1927.

Production of wheat, maize, barley, oats, rye, millet, buckwheat, sorghum, yearly, 1923-1927.

Annual consumption of wheat, maize, barley, oats, rye, 1923-1927.

Annual statistics of area, production, yield of beans, lentils, peas, chick-peas, onions, potatoes, cabbage, melons, pumpkins, other vegetables, hemp, flax, rape, poppy, sunflowers, sugar beets, chicory, tobacco, anise, mustard, lucerne, clover, other fodder grasses, fodder root crops, 1923-1927.

Area, production, yield of vines, 1927; numbers of plum trees, walnut trees, apple trees, pear trees, cherry trees, apricot trees, peach trees, quince trees, 1927; area of forests, according to ownership and types of trees, 1927.

Numbers of horses (stallions, geldings, mares, foals), cattle (bulls, oxen, cows, calves), sheep, lambs, hogs (boars, sows, young pigs), buffaloes, goats, asses, mules, fowls, geese, ducks, turkeys, guinea fowls, pigeons, 1927.

Production of beef, mutton, pork, poultry, milk, cheese, wool, eggs, skins of sheep and cattle, 1927.

Average consumption of beef, mutton, pork (total, per capita) 1923/1927.

Statistics of sericulture (quantities of silk worm seeds, cocoons), yearly 1924-1927.

Numbers of beehives, with fixed or movable combs; production of honey, wax, 1927.

Distribution of landed property before and after the agrarian reform.

Value of agricultural land (arable land, meadows and pasture land, orchards, vineyards, woods and forests); value of horses, cattle and buffaloes, sheep, goats, hogs, agricultural machinery; average annual value of grain, food plants, industrial plants, meadows and pasture land, vineyards and orchards, meat, milk, other animal products (eggs, cheese, wool, skins, honey), forest products.

Average quarterly prices of wheat, maize, barley, oats, in Rumanian export ports, 1923-1927.

Statistics of agricultural machinery, 1927.

Annual statistics of export (quantity, value) of wheat, rye, maize, barley, oats, millet, wheat flour, bran, beans, lentils, peas, chick-peas, rape, lucerne seeds, clover seeds, other fodder seeds, bulls, cows, oxen, calves, sheep, hogs, poultry, beef, pork, cheese, eggs, honey, skins.

Credits granted to farmers by the bank of Rumania, yearly, 1923-1927.

Numbers of cooperatives, members, amount of capital, 1927.

U.S.D.A. Rumania. Ministerul agriculturii și domeniilor. Directiunea  
267.8 agriculturii și viticulturei.

Ag84 Statistica semănăturilor în județele din Moldova în anul agricol  
1917/18.  
București, 1919.  
Area cultivated in wheat, barley, rye, rape, oats, maize, beans, peas, lentils, buckwheat, sunflowers, flax, hemp, clover, lucerne, potatoes, sugar beets, pumpkins, onions, garlic, cabbage, melons, tobacco, in Moldavia, 1917/18. Comparative figures for 1915/16 and 1916/17.

U.S.D.A. Rumania. Ministerul agriculturii și domeniilor. Directiunea  
267.8 generală a agriculturii și viticulturii.

Ag84S Statistica semănăturilor făcute în Basarabia, Bucovina, Transilvania și vechiul regat în anul agricol 1919/20.  
București, 1920.  
Cover of 1919/20 has title: Statistica semanaturilor din regatul Roman; and date 1921.  
Area cultivated in barley, maize, wheat, oats, rye, meadow grass, sunflowers, potatoes, beans, hemp, flax, millet, rape, melons, tobacco, buckwheat, sugar beets, lentils, onions, cabbage, clover, lucerne, peas, poppy, in Bessarabia, Bucovina, Transylvania and in the former kingdom of Rumania, 1919/20.

U.S.D.A. Rumania. Ministerul agriculturii și domeniilor.  
267.8 Directiunea generală a indrumărilor agricole. Directiunea  
Ag83 statisticei agricole și a publicațiilor.  
Statistica agricola a României.  
București

HD2051 U.S.D.A. has 1898/99; 1900-1916, pt. 1; 1918-1931, pt. 1;  
.43 1920/21, pt. 1-2 - 1923/24, pt. 1 are in 21.R86 1921-1924.  
1902-1907 published by Ministerul agriculturii, industriei, comerciului și domeniilor. Serviciul statisticei generale; 1903-1911 by Ministerul agriculturii și al domeniilor. Serviciul statisticei generale; 1912-1916 by Ministerul agriculturii și domeniilor. Directiunea statisticei generale; 1918-1920 pt. 1 by Ministerul industriei și comerțului. Directiunea generală a statisticei.  
1921/22-1929, pt. 1, by Ministerul agriculturii și domeniilor. Directiunea generală a indrumărilor agricole. Directiunea statisticei agricole și a publicațiilor; 1929 pt. 2 - 1931, pt. 1 by Ministerul agriculturii și domeniilor. Secția de studii, documentare și statistica.  
1920/21 and 1921/22 issued in 3 pts. each with titles:  
pt. 1: Statistica semănăturilor de toamnă... pt. 2: Statistica suprafetelor insulăntale în România... pt. 3: Statistica producțiunea agricola... Titles vary slightly.  
1920/21, pt. 1-3 are in Buletinul agriculturii v.1, no. 1/6, 1921; v. 1, no. 1/3, 1922; v.2, no. 4/6, 1922; 1921/22, pt. 1-3 are in Buletinul agriculturii v. 2, no. 4/6, 1922; v. 4, no. 10/12; v. 1, no. 1/3, 1923.

Have also a 1920, pt. 1 and a 1921/22, pt. 2-3 in U.S.D.A. 267.8 Ag83 reprinted from Buletinul agriculturii, pt. 2 of which is 2d ed. Pt. 2-3 are marked pt. 1-2 on this edition, but are called pt. 2-3 in the Buletinul agriculturii.

1922/23 - date issued in 2 pts. Pt. 1 has title: Suprafata semanaturilor... pt. 2. Productiunea agricola. Slight variations.

1922/23, pt. 1-2 are in Buletinul agriculturii, v. 1, no. 1/3 and v. 2, no. 4/6 of 1924; 1923/24, pt. 1 is in Buletinul agriculturii v. 2, no. 10/12, 1924.

Some of the years are issued in 2 forms: a 1 vol. edition and an edition in 2 pts. Library keeps both editions.

Have also summary 1911-1915 in 1 vol. which L. C. catalogues separately with call no. HD2051 .A4 1914. (q.v.)

Title varies.

1927 - date: Title in Rumanian and French.

L. C. entry:

Rumania. Ministerul industriei si comertului.

Statistica agricola

Bucuresci.

L.C. has 1870-1876; 1901-1913; 1918-1919; 1927 pt. 2 - 1930, pt. 2 (1870-1876 not seen)

Intinderea culturilor anuale and Recoltele de vara seem to be advance issues of "Statistica agricola." The tables in "Recoltele de vara" for 1905 are incorporated in "Statistica Agricola" for the year. The tables in "Intinderea culturilor" are not incorporated, and in later years "Intinderea culturilor" is called "pt. 1." ("Statistica Agricola" for the year forming pt. 2?)

1898/99: Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax, hemp, maize, beans, potatoes, sugar beets, tobacco, by departments; comparative figures for 5 preceding years for whole country.

1900/1901: Statistics of area, production, yield, maize, millet, buckwheat, beans, potatoes, sugar beets, flax, hemp, poppy, tobacco, anise, chicory, hops, sunflower, mustard, cabbage, onions, cucumbers, other vegetables, melons, fodder roots, meadows, vines, plum trees; total value and average price per hl. of wine and plums; by departments; comparative figures for 5 preceding years for whole country; numbers of beehives, production, total value, average price per kg., honey, wax, by departments, 1901.

L. C. has a sheet giving statistics of area, production, yield, wheat (summer, winter), rye (summer, winter), oats, barley, (summer, winter), rape, flax seed, by departments, 1901; comparative figures for 5 preceding years for whole country.

1902-1904: Statistics of area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, fodder root crops, vines, plum trees; average price and total value of wine and plums, by departments; comparative figures for whole country when available for 5 preceding years; in 1904 the figures are preliminary and cucumbers are omitted.

1904: Intinderea culturilor făcute în toamna anului 1903 și primăvara anului 1904.

Statistics of area of wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, peas, beans, lentils, potatoes, sugar beets, tobacco, poppy, anise, cabbage, onions, other vegetables, melons, meadows, fodder root crops, vines, plum trees, 1903/4, by departments.

1905-1920 in 2 forms: a) a 1 vol. edition; b) an edition in 2 parts.

a) Contains annual statistics of area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, sunflowers, flax, hemp, peas, lentils, beans, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, meadows, fodder root crops, vines, plum trees; area, production, sorghum, anise, poppy, mustard; value of wine, plums, by departments; losses to crops from mice, drought, flood, frost, blight, or insect pests, wheat, rye, barley, oats, maize, rape, flax, vines, plum trees, 1909-1915; 1919 (comparative figures 1906- ).

b) Part 1. Intinderea culturilor anuale. Surfaces des cultures annuelles. Contains statistics of area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, tobacco, cabbage, onions, other vegetables, melons, fodder root crops, meadows, vines, plum trees, by departments; comparative figures for 5 preceding years for whole country, 1905-1915.

Part 2. Recoltele de vară. Récoltes d'été. Contains statistics of area, production, yield, wheat, rye, barley, oats, rape, flax, by departments; comparative figures for 5 preceding years for whole country, 1905-1915.

For statistics contained in volume for 1911-1915, see under Rumania. Directiunea statisticei generale (Ministerul agriculturii și domeniilor). Statistica agricolă a României pe anii 1911-1915 (L.C. HD 2051.A4 1915).

1921/22-1931 in 2 parts. Part 1 contains statistics of area; part 2 statistics of area, production, and yield.

1921/22-1923/24: Part 1 contains statistics of area of wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflowers, peas, lentils, beans, sugar beets, tobacco, potatoes, cabbage, onions, other vegetables, melons, fodder root crops, lucerne, clover; vines, plum trees in 1923/24.

Part 2 contains statistics of area, production, yield of above products.

1925-1930: Part 1 contains statistics of area, oats, wheat (winter, spring), maize, millet, barley (winter, spring), buckwheat, rye (winter, spring), sorghum, lucerne, clover, fodder roots, millet, beans, lentils, peas, onions, potatoes, cabbage, melons, pumpkins, hemp, flax, rape, poppy, sunflower, sugar beets, chicory, tobacco, anise, mustard, cotton, hops, fallow land, meadows, pastures, plum trees, other fruit trees, vines, by provinces and departments,

comparative figures for whole country for 5 preceding years.

Part 2 contains statistics of area, production, yield, oats, wheat, maize, millet, barley, buckwheat, rye, sorghum, lucerne, clover, fodder roots, millet, beans, lentils, peas, onions, potatoes, cabbage, melons, pumpkins; hemp (seed, fiber), flax (seed, fiber), rape, poppy, sunflower, sugar beets, chicory, tobacco, anise, mustard, hops, cotton, meadows, plum trees, vines, by provinces and departments. Comparative figures for whole country for 5 preceding years.

Area, production, yield, value, average value per hectare, average sale price per quintal, oats, wheat, maize, millet, barley, buckwheat, rye, sorghum, straw, beans, lentils, peas, onions, potatoes, melons, pumpkins, cabbage, hemp (fiber, seed), flax (fiber, seed), rape, poppy, sunflower, sugar beets, chicory, tobacco, mustard, lucerne, clover, fodder roots, millet, plum trees, vines, 1927-1931.

U.S.D.A. Rumania. Ministerul agriculturii și domeniilor.

267.8 Directiunea generală a îndrumărilor agricole. Directiunea Ag8St statisticii agricole și a publicațiilor.

Statistica animalelor domestice.  
Bucuresti.

L.C. U.S.D.A. has 1916, 1919-1930; 1919-1923 in 21 R86 1920-1924.  
SF15 1919-1923 are in Buletinul agriculturii v.3, no.7/12 (1920);  
.R8A3 v.2, no.7/9 (1921); v.3, no.7/9 (1922); anul 4, v.2, no.4/6 (1923);  
v.3, no.7/9 (1924). (U.S.D.A. 21 R86)

1924-1930 are Supliment la "Buletinul agriculturii" v.2, 1925;  
v.2, 1926; v.2, 1927; v.4, 1928; v.2, 1929; v.3, 1930; v.5, 1931.

1916-1928 issued by Ministerul agriculturii și domeniilor.  
Directiunea statisticei generale.

1929-1930 issued by Ministerul agriculturii și domeniilor.  
Sectia de studii, documentare și statistica.

1922-1927 have title: Animalele domestice din România. Les animaux domestiques de la Roumanie. Other minor variations in title;  
Rumanian and French 1924-1930.

L.C. entry:  
Rumania. Directiunea generală a îndrumărilor agricole.

Statistica animalelor domestice.  
Statistique des animaux domestiques.

București.

L.C. has 1928.

At head of title 1928: România. Ministerul agriculturii și domeniilor. Directiunea generală a îndrumărilor agricole. Directiunea statisticii agricole și a publicațiilor. Supliment la "Buletinul agriculturii"

Numbers of horses (stallions, geldings, mares, foals), cattle (bulls, oxen, cows, calves), buffaloes, sheep, lambs, goats (he goats, nannygoats, kids), hogs (boars, sows, young pigs), by departments; former Kingdom, Bessarabia, Bucovina, Transylvania, 1924-1930; comparative figures for preceding year, 1924-1930.

U.S.D.A. Rumania. Ministerul agriculturii si domeniilor.  
267.8 Directiunea statisticei generale.  
Ag8A Agricultorii si repartizarea pământului cultivat in 1913.  
Bucuresti. 1915.  
L.C. L. C. entry:  
HD2051 Rumania. Directiunea statisticei generale (Ministerul agriculturii  
.A36 si domeniilor).  
Agricultorii si repartizarea pământului cultivat in 1913.  
Bucuresti, Institutul de arte grafice "Flacăra," 1915.  
At head of title: Ministerul agriculturii si domeniilor.  
Directiunea statisticei generale.  
Numbers of farm owners, area cultivated by communes when each  
farmer or tenant cultivates up to 2 hectares, 2-5 hectares, 5-10  
hectares, 10-25 hectares, 25-50 hectares, 50-100 hectares, 100-500  
hectares, more than 500 hectares.

U.S.D.A. Rumania. Ministerul agriculturii si domeniilor.  
21 Sectia de studii, documentare si statistică.  
R86 Buletinul agriculturii, 1885-1930.  
Bucuresti.  
L.C. U.S.D.A. has May, 1890 - July, 1892 (lacks June 1891); Sept. -  
HC407 Nov., 1892; Apr., 1893; Oct. - Nov., 1902; Feb., 1903 - May, 1904;  
.R8A3 Jan. - Mar., 1907; Jan./Mar., 1920 - Sept./Dec., 1931.  
1885-1916, referred to on title pages of Buletinul agriculturii  
as Seria I, catalogued separately under Rumania. Ministerul agri-  
culturei, industriei, comerciului si domeniilor. Buletinul.  
Anul 1-4, 1920-1923 bear no "seria" statement; anul 5-11, v.1-2,  
1924-Jan./Apr., 1930 are seria II; anul 11, v.3-6, May/June, 1930-  
Nov./Dec., 1930 are seria III.  
Jan./Mar., 1920 - July/Sept., 1921 issued by Ministerul agri-  
culturei si domeniilor. Directiunea agriculturii si viticulturii;  
Oct./Dec., 1921 - Jan./Mar., 1922, by Ministerul agriculturii,  
Directiunea generală a agriculturii, Serviciul publicațiunilor  
si al statisticei agricole; Apr./June, 1922 - Jan./Mar., 1923, by  
Ministerul agriculturii si domeniilor, Directiunea generală a  
agriculturii, Serviciul publicațiunilor si al statisticii agricole;  
Apr./June, 1923 - Nov./Dec., 1929, by Ministerul agriculturii si  
domeniilor, Directiunea generală a indrumărilor agricole,  
Directiunea statisticii agricole si a publicațiilor.  
For supliment v.1, 4 of 1925 - 1927; v.5, 1928; v.1, 3, 1929;  
v.2, 1930, v.1-2, 1931 see its Statistica agricola a Romaniei  
(U.S.D.A. 267.8 Ag83)  
For supliment v.2 of 1925 - 1927, 1929; v.3, 1930; v.4, 1928;  
v.5, 1931 see its Statistica animalelor domestice (U.S.D.A. 267.8  
Ag8St)  
L.C. entry:  
Rumania. Ministerul agriculturii si domeniilor.  
Buletinul. Anul I 1885  
Bucuresci, 1885.

"Acte oficiale. - Statistica. - Raporturi consulare. - Dari de seama de misiuni in țera și in strainatate. - Studii. - Climatologia."

L.C. has 1885; 1891/92 - 1896/97; 1898/99 - 1899/1900; 1902/3 - 1904/5; 1907/8 - 1915/16; 1929; 1930.

1885. Statistics of temperature, atmospheric pressure, humidity, wind, cloudiness, rain or snow, Bucharest, Jan., 1885 (no. 1); statistics of import, export (quantity, value, country of origin and of destination), by categories, yearly, 1880-1883; weather statistics, Feb., 1885 (no. 2); weather statistics, Mar., Apr., 1885 (no. 3-4); numbers of horses, cattle, sheep, goats, hogs, asses and mules, by departments, 1860, 1873, 1884; weather statistics, May, 1885 (no. 5); weather statistics, monthly June - Dec., 1885 (no. 6-12).

May, 1890 - Apr., 1891. Monthly statistics of temperature, humidity, atmospheric pressure, wind, cloudiness, Jan. - Feb., 1890 (no. 2-3); Mar. - Apr., 1890 (no. 4); May - June, 1890 (no. 5); July - Aug., 1890 (no. 7); Sept. - Oct., 1890 (no. 8); Nov. - Dec., 1890 (no. 12); area, production, yield of rape, by departments, 1889/90 (no. 8).

May, 1891 - Apr., 1892. Numbers of cultivators of rape and area cultivated, 1889/90; weather statistics, Jan., Feb., Mar., 1891 (no. 1); area, production, wheat, rye, barley, rape, buckwheat, maize, oats, millet, hemp, flax, tobacco, potatoes, beans, lentils, peas, anise, meadows, by departments, 1888/89; 1889/90; yield whole country, 1889/90; area, production, yield, wheat, buckwheat, rye, barley, oats, millet, maize, rape, hemp, flax, yearly, 1885/86 - 1889/90 (no. 2); weather statistics, Apr., May, 1891 (no. 3); area, wheat, barley, rape, rye, by departments, 1890/91; weather statistics, June, July, 1891 (no. 5); area, production, yield, wheat, maize, rye, barley, oats, rape, flax, millet in Moldavia and Dobrogea, 1890/91; weather statistics, Aug., Sept., 1891 (no. 7); weather statistics, Oct., Nov., 1891 (no. 9); weather statistics, Dec., 1891 (no. 10); weather statistics, Jan., Feb., 1892 (no. 12). Forestry statistics throughout.

May, 1892 - Apr., 1893. Weather statistics, Mar., Apr., 1892 (no. 1); weather statistics, May, June, 1892 (no. 3); July, Aug., 1892 (no. 5); Sept., Oct., 1892 (no. 6-7); Nov. - Dec., 1892 (no. 10-11); forestry statistics throughout.

May, 1893 - Apr., 1894. Weather statistics, Mar., Apr., May, 1893 (no. 3); June, July, 1893 (no. 5); Aug., Sept., Oct., 1893 (no. 8); Nov., Dec., 1893 (no. 11); Jan., Feb., 1894 (no. 12).

May, 1894 - Apr., 1895. Monthly weather statistics, Mar., 1894 - Jan., 1895.

May, 1895 - Apr., 1896. Monthly weather statistics, Feb., 1895 - Dec., 1895.

May, 1896 - Apr., 1897. Statistics (preliminary figures) of area, production, yield, wheat, rye, barley, oats, rape, maize, millet, hemp, flax, beans, tobacco, meadows, by departments, 1895/96 (no. 8-9); area, price of land sold by State, 1868 - 1896 (no. 10-11); monthly weather statistics, Jan., 1896 - Feb., 1897.

May, 1898 - Apr., 1899. Fire damage, 1895 (no. 6-7); area, production, yield, vines, plum trees; value, average price, wine, plums, by departments, 1898 (no. 11-12); monthly weather statistics, Jan. - Oct., 1898.

Apr., 1899 - Mar., 1900. Fire damage, 1896 (no. 1-2); weather statistics, Nov., 1898 - Dec., 1899.

Apr., 1902 - Mar., 1903. Per capita consumption of sugar, yearly, 1888/89 - 1899/1900; comparative figures for other countries (no. 5-6); area, production, yield, average price, total value, average value per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, vines, plum trees, 1902 (no. 11-12); damage to crops by weather or insect pests, wheat, rye; barley, oats, maize, rape, flax, vines, plum trees, by departments 1902 (no. 11-12); area, production, yield, maize, millet, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, vines, plum trees; price and value of wine and plums, by departments, 1902; comparative figures for whole country, yearly, 1897 - 1901 (no. 11-12).

Apr., 1904 - Mar., 1905. Area, production, yield, wheat, maize, rye, barley, oats, millet, rape, yearly, 1862 - 1876; 1886 - 1903; area, production, yield, average value, vines, total value and average price of wine, for 5 year period 1899/1903; area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, vines, plum trees, value and price of wine and plums, by departments, 1903; comparative figures for whole country, yearly, 1898 - 1902, area, production, yield, average price, total value, average value per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, vines, plum trees, 1903; damage to crops by weather or insect pests, wheat, rye, barley, oats, maize, rape, vines, plum trees, by departments, 1903 (no. 1-2); damage by fire 1897 (no. 7-8).

Jan. - Mar., 1907. Area, production, yield, maize, millet, buckwheat, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, meadows, vines, plum trees, value and price of wine and plums, by departments, 1907; comparative figures for whole country, 1902 - 1906; damage from weather and insect pests to wheat, rye, barley, oats, maize, rape, flax, vines, plum trees.

Apr., 1907 - Mar., 1908. Agricultural machinery in use, Dec., 1905, by departments (no. 1-3); area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, beans, peas, lentils, potatoes, sugar beets, tobacco, poppy, cabbage, onions,

other vegetables, melons, meadows, vines, plum trees, by departments, 1906/7; comparative figures for whole country, yearly, 1902 - 1906; statistics of area cultivated by large and small farmers, land owned, leased (no. 6-7). Statistics of yield, wheat, rye, barley, oats, rape, flax, yearly, 1897 - 1907; area, production, yield, wheat, rye, barley, oats, rape, flax, by departments, 1907; comparative figures for whole country, yearly, 1902 - 1906 (no. 8-9); Area, production, yield, maize, millet, buckwheat, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, meadows, vines, plum trees; price and value of wine, plums by departments, 1907; comparative figures for whole country, yearly, 1902 - 1906; damage to crops from weather and insect pests, wheat, rye, barley, oats, maize, rape, flax, vines, plum trees, by departments, 1907 (no. 10-12).

Apr., 1908 - Mar., 1909. Fire damage, 1899 (no. 1-3); area, wheat, rye, barley, oats, millet, buckwheat, rape, flax, hemp, poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, meadows, vines, plum trees, yearly, 1906 - 1908; yield, wheat, rye, barley, oats, rape, flax, yearly, 1898 - 1908; area, production, yield, wheat, rye, barley, oats, rape, flax, by departments, 1908; comparative figures for whole country, yearly, 1903 - 1907 (no. 6-7). Area, production, yield, average price, total value, average value per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, chicory, hops, pumpkins, cabbage, onions, other vegetables, melons, fodder roots, meadows, vines, plum trees, 1908; area, production, yield, maize, millet, buckwheat, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, fodder roots, meadows, vines, plum trees; area, production, sunflower, sorghum, rice, anise, mustard, chicory, hops, pumpkins; value and price of wine and plums by departments, 1908; comparative figures for whole country, yearly, 1903 - 1907 (no. 11-12).

Apr., 1909 - Mar., 1910. Area, production, yield, vines, price, value, wine, by departments, 1908; numbers of vineyardists by size of vineyards, 1908; numbers of agriculturists and vineyardists, by departments, 1908; area of vineyards, 1882, 1897, 1908, by departments; production and consumption of wine, yearly 1902/3 - 1907/8 (no. 1-2).

Apr., 1910 - Mar., 1911. Quantity of lucerne, clover and timothy seed imported in spring, 1910 (no. 3-4).

Apr., 1911 - Mar., 1912. Lucerne, clover, timothy seed imported 1909, 1910 (no. 9-10).

Apr., 1912 - Mar., 1913. Numbers of bulls, oxen, cows, calves, hogs (fat, lean) in market; quantity of beef, veal, pork, prices of meat, lard, poultry, sheep, lambs, mutton, lamb, cheese, butter, wool, July, 1912; prices of bulls, cows, oxen.

calves, hogs, beef, veal, pork, lard, poultry, sheep, lambs, mutton, lamb, cheese, butter, wool, Aug., 1912 (no. 4-5); Sept.- Nov., 1912 (no. 6-8).

Apr., 1913 - Mar., 1914. Prices of bulls, cows, oxen, calves, hogs, beef, veal, pork, lard, poultry, sheep, lambs, mutton, cheese, butter, wool, monthly, Dec., 1912 - May, 1913 (no. 1-3); June, 1913 - Jan., 1914 (no. 8-12).

Apr., 1914 - Mar., 1915. Prices of above products, Feb., 1914 (no. 1-2).

Apr., 1915 - Mar., 1916. Lucerne, clover, timothy seed imported, 1914 (no. 3-5); production, yield, wheat, barley, oats, 1915 (no. 6-9).

1920. Area, wheat, rye, 1914, 1918, 1919; barley, 1919; wheat, rye, barley, rape, Bessarabia, Transylvania 1919; wheat, rye, Bucovina, 1919 (no. 1-3); Area, wheat, barley, oats, maize, rye, millet, rape, sunflower, flax, hemp, peas, potatoes, beans, cabbage, onions, lentils, melons, clover, lucerne, sugar beets, fodder beets, garlic, meadows, tobacco, buckwheat, sorghum, poppy, 1920; Bessarabia, Bucovina, 1920 (no. 4-6); Transylvania, former Kingdom (no. 7-12). Numbers of horses, cattle and buffaloes, sheep, goats, hogs, Bessarabia, Bucovina, Transylvania, former Kingdom, 1919; comparative figures for 1890, 1900, 1910, Bucovina, 1911, Transylvania, 1900, 1916, former Kingdom (no. 7-12). Statistics of atmospheric pressure, temperature, humidity, cloudiness, precipitation, direction and frequency of winds, Nov., Dec., 1920 (no. 7-12).

1921. Area, wheat, rye, barley, rape, Bessarabia, Bucovina, Transylvania, former Kingdom, 1919, 1920 (no. 1-6). Numbers of horses, cattle, buffaloes, sheep, goats, Bessarabia, Bucovina, 1919, 1920, Transylvania, 1911, 1919, 1920; former Kingdom, 1900, 1916, 1919, 1920 (no. 7-9); Area, production, yield, wheat, rye, barley, oats, maize, former Kingdom, Bessarabia, Bucovina, Transylvania, 1920; 1921 (preliminary figures) (no. 10-12).

1922. Area, production, yield, plums, apples and pears, apricots, cherries, nuts, quinces, Bessarabia, 1919; area, production, vines, production, price, wine, Bessarabia, 5 year periods 1875/1909. Area, wheat, rye, barley, oats, rape, Transylvania, Banat, Crisana, Maramuresh, 1920, 1921. Area, wheat, rye, maize, barley, oats, rape, millet, buckwheat, sunflower, flax, hemp, peas, lentils, beans, potatoes, sugar beets, tobacco, sorghum, mustard, chicory, poppy, cabbage, onions, other vegetables, melons, pumpkins, clover, lucerne, meadows, by provinces, 1921 (no. 1-3). Sericulture statistics in Ardeal, 1921, 1922. Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, potatoes, peas, lentils, sugar beets, tobacco, sorghum, mustard, poppy, chicory, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, clover, lucerne, meadows, by provinces, 1921. Area, wheat, rye, barley, oats, 1921/22 (no. 4-6). Numbers of horses, cattle, buffaloes, sheep,

goats, hogs, by provinces, and departments, 1921 (no.7-9). Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, mustard, chicory, sorghum, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne, clover, meadows, by provinces, and departments, 1922; comparative figures, 1921 (no.10-12).

1923. Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, potatoes, peas, lentils, beans, sugar beets, tobacco, sorghum, mustard, poppy, chicory, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, clover, lucerne, meadows, by provinces and departments, 1921/22; comparative figures, 1920/21 (no.1-3). Numbers of horses, cattle, buffaloes, sheep, goats, hogs, by provinces and departments, 1921, 1922 (no.4-6). Numbers of plum trees, apple trees, pear trees, cherry trees, apricot trees and peach trees, walnut trees, 1919, 1923, Bessarabia (no.7-9).

1924. Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, poppy, sorghum, anise, mustard, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne, clover, meadows, by provinces and departments, 1921/22, 1922/23 (no.1-3). Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, sugar beets, tobacco, potatoes, sorghum, poppy, anise, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, clover, lucerne, meadows, by provinces and departments, 1921/22, 1922/23 (no.4-6). Numbers of horses, cattle, buffaloes, sheep, goats, hogs, mules, asses, by provinces, yearly, 1920-1923 (no.7-9). Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, mustard, poppy, chicory, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne, clover, meadows, vines, plum trees, pasturage, fallow land, forests, by provinces and departments, 1922/23, 1923/24. Forestry statistics, Bessarabia, 1921/22 (no.10-12).

1925. Area, production, yield, wheat, rye, barley, oats, maize, yearly 1920-1923 (no. 1-3). Numbers of horses, cattle, buffaloes, sheep, goats, yearly, 1920-1924; oil produced from sunflower seed, flax seed, hemp seed, rape seed, quantity necessary for domestic consumption, quantity available for export, Bessarabia, 1924 (no.4-6). Area, oats, wheat, maize, millet, barley, buckwheat, rye, sorghum, meadows, lucerne, clover, fodder roots, beans, lentils, peas, onions, potatoes, cabbage, melons, pumpkins, hemp, flax, rape, poppy, sunflower, sugar beets, chicory, tobacco, mustard, cotton, 1924/25 (no. 10-12).

1926. Numbers of horses, cattle, buffaloes, sheep, goats, liogs, asses and mules, 1923. Area, production, yield, wheat, rye, barley, oats, maize, yearly, 1921-1925 (no. 1-3)... Numbers of

cattle, sheep, hogs, horses, yearly, 1920-1924 (no.4-6). Area, wheat, rye, barley, oats, maize, 1925, 1926. Production, consumption, available for export, wheat, rye, barley, oats, 1926 (no.7-9). Area, production, yield, potatoes, sugar beets, flax seed, sunflower, beans, lentils, wheat, rye, barley, oats, rape, peas, flax, 1925, 1926; wheat, rye, barley, oats, rape, beans, flax, yearly, 1921-1925; maize (preliminary figures), 1926 (no.10-12).

1927. Area, production, yield, wheat, rye, barley, oats, maize, 1926; comparative figures, yearly, 1921-1925. Numbers of horses, cattle, buffaloes, sheep, goats, hogs, asses, mules, yearly, 1921-1926. Area, production, yield, wheat, beans, lentils, peas, potatoes, hemp, sunflower, sugar beets, vines, 1926 (no. 1-3). Numbers of horses, cattle, buffaloes, sheep, goats, hogs, asses, mules, yearly, 1921-1926 (no.4-6). Area, wheat, rye, barley, oats, maize, 1927. Production, consumption, available for export, wheat, rye, barley, oats (no. 7-9). Numbers of plum trees, walnut trees, apple trees, pear trees, cherry trees, apricot trees, peach trees, quince trees, 1927 (no. 10-12).

1928. Area, wheat, rye, rape, barley, 1926, 1927. Numbers of horses, cattle, buffaloes, sheep, goats, hogs, asses, mules, 1926, 1927 (no.1-2). Area, wheat, rye, barley, rape, 1926, 1928 (no.11-12).

1929. Average monthly prices per kg. of wheat, barley, oats, maize, beans, 1928(no.1-2); monthly statistics of duration of sun-shine, cloudiness, speed and direction of wind, atmospheric pressure, temperature, humidity, evaporation, precipitation, 1928; area, production, wheat, rye, barley, oats, maize, northern and southern Bessarabia, yearly, 1925 - 1928, average 1920/24; yield per hectare, wheat, maize, barley, oats, rye, yearly, 1920 - 1928 (no.3-4); statistics of temperature, precipitation, by seasons, 1923/27; numbers of horses, cattle, sheep, goats, hogs, 1927; proportion of area cultivated in wheat, barley, oats, rye, maize, root crops, textile plants, oleaginous plants, fodder plants, 1923/27; monthly statistics of insolation, cloudiness, temperature, wind (direction, speed), atmospheric pressure, precipitation, evaporation (no.5-6); area, wheat, rye, barley, oats, 1928; export (quantity, value), wheat, wheat flour, bran, yearly, 1906 - 1927 (no. 7-10).

1930. Monthly prices of wheat, maize, barley, oats, Mar., 1929 - Mar., 1930. Wages of agricultural workers, Apr., 1930 (no. 1-4).

1931. Monthly prices of wheat, maize, barley, oats, 1930. Area, production, wheat, rye, barley, oats, maize, 1929, 1930; comparative figures for other countries (no. 1-2).

U.S.D.A. Rumania. Ministerul agriculturii și domeniilor. Serviciul statisticei generale.  
267.8

Ag8E

Evaluatiunea aproximativă a semănăturilor făcute în toamna anului

[București]

U.S.D.A. has 1901, 1902, 1907 - 1912.

Statistics (approximate figures) of area sowed in the autumn in wheat, rye, barley, rape, by Departments. 1901 has comparative figures for the years 1896/97 - 1899/1900 for the whole country.

U.S.D.A. Rumania. Ministerul de industrie si comert. Directiunea comertului.

267.8 Serviciul publicatiunilor si informatiunilor economice.

In23 Correspondance économique roumaine.

Bi-monthly.

L.C. Bucarest.

HC407 U.S.D.A. has May, 1919 - Dec., 1931 (lacks Apr., 1921; Jan. - Feb., 1926).

R8A4 Preceded by Ministerul industriei si comertului. Biuroul de informatiuni comerciale. Foaia de informatiuni comerciale.

May, 1919 - July, 1921 issued by Ministerul industriei si comertului. Directiunea generale comertului.

Aug. - Oct., 1921 - Dec., 1923 issued by Ministère de l'industrie et du commerce. Direction générale du commerce. Direction des publications et informations commerciales.

Nov. - Dec., 1921 - Dec., 1923 omit Ministère de l'industrie et du commerce.

Jan., - Feb., 1924 - July - Aug., 1925 issued by Ministère de l'industrie et du commerce. Direction générale des études et de la législation économiques. Direction des informations des publications et de la propagande économiques.

Monthly, 1919 - 1923.

May, 1919 - Dec., 1923 have title: Correspondance économique.

L. C. entry:

Rumania. Ministerul industriei si comertului.

Correspondance économique. Organe officiel du ministère de l'industrie et du commerce. Direction générale du commerce.

Bucuresti.

L.C. has May, 1919; May, 1921 - Dec., 1931.

Retail prices in Bucharest, Apr. 14, 1919, oil, olives, figs, raisins, lemons, oranges, hazel nuts, pepper, cinnamon, rice, coffee, cocoa, chocolate, tea, yeast, walnuts, condensed milk, cheese, butter, bacon, preserves of various kinds, peas, honey. (May, 1919.)

Products imported through Constantza Jan. 1 - Mar. 27, 1919, quantity - price per ton in market of Constantza: olive oil, figs, raisins, olives, lemons, oranges, dried fruits, etc., sugar, wine, brandy, coffee, pepper, condensed milk, rice, flour for the State. (May, 1919.)

Prices in Constantinople, Mar. 29, 1919; olive oil, olives, coffee, rice, raisins, figs, oranges, lemons. (May, 1919.)

Prices in Constantinople, Apr. 5, 1919, olive oil, olives, lemons, oranges, rice, coffee, raisins, figs, cotton seed oil. (May, 1919.)

Prices in Smyrna, Mar. 26, 1919, olive oil, olives, tobacco, figs, raisins. (May, 1919.)

Bessarabia: prices of wheat, rye, maize, barley, 1919; production of wine, dried fruits, yearly, 1905 - 1909. (June, 1919.)

Retail prices in Bucharest, May 20, 1919, oil, olives, figs, raisins, lemons, oranges, hazelnuts, pepper, cinnamon, rice, coffee, tea, yeast, nuts, condensed milk, cheese, butter, bacon, ham, preserves, peas, spinach, tomatoes, honey. (June, 1919.)

Products imported through Constantza, Apr. 14 - 29, 1919, figs, raisins, sugar, pepper, onions, hazelnuts, cotton, cheese, silk, almonds, honey, olives, potatoes, coffee, wax, chocolate, oranges and lemons, oranges, lemons, condensed milk, olive oil, fat, garlic, paper, peas, eggs, rice, beans, wheat flour. (June, 1919.)

Wholesale and retail prices in Bucharest, June 21, oil, olives, figs, raisins, lemons, hazelnuts, pepper, almonds, cinnamon, carob beans, rice, coffee, cocoa, chocolate, tea, starch, walnuts, condensed milk, cheese, butter, bacon, ham, peas, honey. (July - Aug., 1919.)

Price fluctuations, Mar. - Apr.; May - June; July, 1919, olives, olive oil, cocoa, chocolate, coffee, tea, rice, hides and skins. (July - Aug., 1919.)

Prices in Kichinef, Aug. 15, Sept. 15, oil, olives, raisins, rice, coffee, tea, cocoa, chocolate, sugar, lemons, walnuts, hazelnuts, almonds, carob beans, cinnamon, condensed milk, pepper, vanilla, wheat flour, maize flour. (Sept. - Oct., 1919.)

Statistics of area, production, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, textile and oleaginous plants, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, truck garden, fodder root crops, clover and lucerne, other meadow crops, vines, plum trees. (Sept. - Oct., 1919.)

Average annual production for the period 1916 - 1919, wheat (winter, spring), rye, barley, maize, peas, rape, flax seed. (Sept. - Oct., 1919.)

Area, production, yield of winter wheat in former Kingdom, 1919. (Dec., 1919.)

Statistics (prelim. figs.) of area, production, yield, maize, summer wheat, barley, rye, peas, oats, rapeseed, flax, 1919. (Dec., 1919.)

Statistics of import, by categories, July - Sept., 1919. (Jan. - Feb., 1920.)

Price fluctuations, Mar. - Apr., 1919; May - June, 1919; July, 1919; November, 1919; Apr., 1920. (Mar. - Apr., 1920.)

Statistics of area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils and beans, potatoes, sugar beets, tobacco, vegetables, melons, fodder roots, truck crops, lucerne and clover, meadows, fodder plants, vines, plum trees, 1920. (Aug. - Oct., 1920.)

Statistics of export (quantity, value) of wheat, wheat flour, rye, barley, oats, maize, wood. (June, 1921.)

Statistics of import, export (value), by categories, yearly, 1912 - 1915, 1919. (Nov. - Dec., 1921.)

Statistics of export (quantity, value), by categories, Jan. - June, 1920. Comparative figures for Jan. - June, 1919. (Nov. - Dec., 1921.)

Statistics of area, production, yield, wheat, rye, barley, oats, maize, 1921. Comparative figures for 1920. (Jan., 1922.)

Prices of cabbage, leeks, onions, carrots, potatoes, garlic, pimentos, radishes, beef, veal, pork, chickens, geese, turkeys, eggs, apples, pears, prunes, walnuts, butter, cheese, Mar. 1-15, 1921. (Feb. - Mar., 1922.)

Statistics of area, production, yield, flax, hemp, yearly, 1909 - 1915, 1920; import, export, hemp, yearly, 1906 - 1913. (Apr. - May, 1922.)

Numbers of horses, cattle, sheep, hogs, by provinces, 1920; numbers of livestock, by provinces, 1910. (June - July, 1922.)

Statistics of production, quantity necessary for domestic consumption, quantity available for export, sunflower oil, flax seed oil, hemp seed oil, pumpkin seed oil, rape seed oil, Bessarabia by departments, 1920. (June - July, 1922.)

Average prices of vegetable and animal products and of livestock in Bessarabia, 1901 - 1913 and 1916 - 1919; maximum and minimum prices of rye, wheat (winter, summer), oats, barley, maize, Bessarabia, by departments, 1918, 1919. (June - July, 1922.)

Area of seeded land in Rumania, by departments, 1920/21. (June - July, 1922.)

Statistics of import (quantity, value), by categories, 1913, 1919, 1920; export (quantity), Apr., 1922, May, 1921, 1922, wheat, wheat flour, rye, barley, oats, maize, millet, barley, beans, lumber, wood, bulls, cows, oxen, hogs, eggs, fat, wines (June - July, 1922); export (quantity), June, 1922. (Aug. - Sept., 1922.)

Average prices of bread, beef, pork, mutton, chickens, ducks, geese, turkeys, eggs, milk, cheese, butter, bacon, olive oil, olives, rice, maize flour, sugar, coffee, lard, wine, brandy, beans (white), potatoes, onions, cabbage, apples, grapes, wood, yearly, 1910 - 1914, 1921; index numbers, 1921. (Aug. - Sept., 1922.)

Prices of fowls, ducks, geese, turkeys, beef, pork, smoked bacon, ham, eggs, milk, butter, fat, cheese, flour, bran, potatoes, dried onions, wheat, barley, oats, rye, maize, sugar, rice, tea, coffee, olives, oil, wood, 34 towns, July, 1922 (Aug. - Sept., 1922); plus beans, Sept., 1922. (Oct. - Nov., 1922.)

Statistics of export (quantity) of wheat, wheat flour, rye, barley, oats, maize, Jan. - June, 1921, 1922; millet, bran, beans, Jan. - June, 1922; maize, barley, oats, wheat, beans, rye, bran, millet, flour, wood, wine, hogs, oxen, cows, bulls, June - Sept., 1922; wheat, flour, rye, barley, oats, maize, millet, bran, beans, wood, bulls, cows, oxen, hogs, eggs, bacon and lard, fat, wine, Oct., 1921, 1922; Jan. - Oct., 1921, 1922 (Oct. - Nov., 1922); Dec., 1921, 1922; 1921, 1922 (Feb. - Mar., 1923); export (value, quantity, country of destination), May, 1923 (June - July, 1923); export (quantity, value), June, July, Jan. - June, 1923. (Aug. - Sept., 1923.)

Statistics of area, production, yield, wheat, rye, barley, oats, 1922/23 (prelim. figures) (Aug. - Sept., 1923); area of wheat, barley, oats, maize, 1920; 1921; 1922. (Oct., 1923.)

Statistics of agricultural cooperation. (Oct., 1923.)

Bessarabia: average seasonal temperature; area cultivated and total agricultural production, yearly, 1911 - 1914; 1918 - 1922; area of forests, 1896, 1919/20; numbers of forests 1919/20; numbers of vineyards and orchards, area, 5 year periods, 1875 - 1909, 1919; average yearly export (quantity) of apples, walnuts, pears, peaches, plums, grapes to Russia; numbers of livestock, 1893, 1919, 1921, 1922; production of honey, beeswax, 1918/19, 1920, 1921; population. (Oct., 1923.)

Statistics of import and export (quantity, value), by categories, 1921 (preliminary figures). Comparative figures for 1913, 1919, 1920. (Nov., 1923.)

Statistics of export (quantity, value), wheat, barley, oats, maize, millet, bran, beans, wood, lumber, bulls, cows, oxen, eggs, wine, Aug., 1923; wheat, wheat flour, rye, barley, oats, maize, millet, bran, beans, wood, lumber, bulls, cows, oxen, hogs, eggs, bacon and lard, fat (pork), wine, Jan. - Aug., 1923, Jan. - Aug., 1922; (country of destination), wheat, barley, oats, maize, bran, beans, wood, lumber, cows, oxen, Aug., 1923 (Nov., 1923); (quantity, value), barley, oats, maize, millet, bran, beans, wood, lumber, cows, oxen, eggs, Sept., 1923, Oct., 1923; wine, Oct., 1923; wheat, wheat flour, rye, barley, oats, maize, millet, barley, beans, wood, lumber, bulls, cows, oxen, hogs, eggs, lard and bacon, fat (pork), wine, Jan. - Oct., 1923, Jan. - Oct., 1922; (country of destination), barley, oats, maize, millet, bran, beans, wood, lumber, cows, oxen, eggs, Sept., 1923, Oct., 1923; wine, Oct., 1923. (Dec., 1923.)

Land utilization: area of land for sowing, arable land, vineyards and orchards, natural meadows, permanent pasture land, agricultural land, forests. (Jan. - Feb., 1924.)

Statistics of production, value, wheat, maize, oats, barley, yearly, 1920-1923. (Jan. - Feb., 1924.)

Numbers and value of horses, oxen, buffaloes, sheep, goats, hogs, yearly, 1920-1923. (Jan. - Feb., 1924.)

Standard prices for working out the value of products, beer, preserves, pastes, alcohol, vegetable oils, sugar, starch, paper, cotton cloth, hides and skins, agricultural machines and implements, lumber, wood, 1921, 1922, 1923. (Jan. - Feb., 1924.)

Statistics of export and import (quantity, value), by groups of commodities, 1913, yearly, 1919-1922. (Jan. - Feb., 1924.)

Statistics of area and population, by provinces, communes, towns, nationalities. (Jan. - Feb., 1924.)

Statistics of export (quantity, value), 1922, 1923; (quantity, value, country of destination), Nov., Dec., 1923. (Jan. - Feb., 1924.)

Area sowed in wheat, rye, barley (autumn), rape, oats (autumn), autumn, 1923. (Jan. - Feb., 1924.)

Statistics of export and import (quantity, value), by categories, Jan. - Mar., 1923; preliminary figures. (Mar. - Apr., 1924.)

Statistics of export (quantity, value), wheat, rye, maize, barley, oats, millet, wheat flour, bran, wood, lumber, stallions, mares, cows, oxen, rams, buffaloes, calves, sheep, hogs, beef, ham, eggs, beans, wine, hay, Jan. - Mar., 1924; preliminary figures, comparative figures, Jan. - Mar., 1923; monthly figures, by categories, Jan. - Mar., 1924. (May - June, 1924.)

Statistics of import and export (quantity, value), by categories, 1923; preliminary figures. (Sept. - Oct., 1924.)

Viticulture: area, production, value of vineyards and of wine production, cost of vine growing. (Nov. - Dec., 1924.)

Official estimates of production, quantity for domestic consumption and seed, quantity available for export, wheat, rye, barley, oats, 1925. (July - Aug., 1925.)

Bessarabia: population; area in grain, textile and oleaginous plants, legumes, industrial plants, vegetable gardens, fodder, vineyards, fruit trees, meadows, forests; annual production in wagons, grain, fruit; wine in hectolitres; numbers of horses, oxen, buffaloes, sheep, goats, hogs; statistics of area in fruit trees; production of plums, apples and pears, apricots, cherries, walnuts, by districts. (Nov. - Dec., 1925.)

Area of forests, by varieties of trees; area of state forests; by districts, 1900, 1905, 1912, 1922, 1924. (Mar. - Apr., 1926.)

Area cultivated, yearly, 1921 - 1925; area cultivated in grain, yearly, 1921 - 1925; area, wheat, rye, barley, oats, maize, sunflower, sugar beets, other crops, yearly, 1921 - 1925; production, wheat, rye, barley, oats, maize, millet, buckwheat, sorghum, 1922, 1923, 1924, 1925; area according to categories by property (large, small, property of peasant associations) yearly, 1921 - 1925; numbers of livestock before and after the war; forest area at beginning of 1923 according to age of trees; prices of sugar per kilogramme, sugar beets, per ton, yearly, 1922 - 1925; total prewar and postwar exports and imports, yearly, 1911 - 1915; 1919 - 1924; Jan. - Sept., 1925. (May - June, 1926.)

Statistics of area, production, yield, wheat, rye, barley, oats, 1926; comparative figures, 1925; maize, preliminary figures, 1926 (Sept. - Oct., 1926); area, production, yield, maize, 1926; comparative figures, 1925. (Nov. - Dec., 1926.)

Statistics of area, production, yield (final figures), maize, beans, lentils, peas, potatoes, hemp seed, sunflower, sugar beets, vines, 1926. (Jan. - Feb., 1927.)

Statistics of area, production, consumption, quantity available for export, wheat, rye, barley, oats (preliminary figures); area, maize, 1927. (July - Aug., 1927.)

Forestry statistics. (Sept. - Oct., 1927.)

Maize: area, production, yield, by provinces, 1927; preliminary figures. (Sept. - Oct., 1927.)

Monthly statistics of export (quantity), wheat, rye, maize, barley, oats, millet, wheat flour, bran, bulls, cows, oxen, rams, sheep, hogs, wood, lumber, Jan. - June, 1927. (Sept. - Oct., 1927.)

Land utilization: area, percentage of total arable land in grain, oleaginous and textile plants, legumes and root crops, industrial and other plants, vegetable gardens, fodder root crops, vineyards and orchards, uncultivated land, fallow land, 1915, 1926; area in grain, 1923, 1924, 1925, 1926. (Nov. - Dec., 1927.)

Numbers of horses, oxen, buffaloes, asses, mules, sheep, goats, hogs, 1916; yearly, 1921 - 1926. (Nov. - Dec., 1927.)

Average yield per hectare, wheat, maize, oats, barley, rye, beans, lentils, peas, potatoes, cabbage, onions, hemp seed, flax seed, sunflower, sugar beets, lucerne and clover, vines, rape, 1915, 1924, 1925, 1926; tobacco, lucerne, clover, 1924, 1925, 1926. (Nov. - Dec., 1927.)

Statistics of export (quantity, country of destination), wheat, maize, barley, oats, rye, 1913, 1923; export (quantity) of grain and flour, yearly, 1910 - 1915; 1919 - 1924. (Nov. - Dec., 1927.)

Statistics of area, production, yield, wheat, rye, barley, oats, rape, flax, maize, sugar beets, 1927; comparative figures 1926, average 1922/26; sunflower, 1927. (Nov. - Dec., 1927.)

Numbers (average estimates) of horses, oxen, buffaloes, sheep, goats, hogs, mules, asses, yearly, 1921 - 1926. (Nov. - Dec., 1927.)

Monthly statistics of export (quantity) of wheat, rye, maize, barley, oats, millet, wheat flour, bran, bulls, cows, oxen, sheep, rams, hogs, wood, lumber, July - Sept., 1927 (Nov. - Dec., 1927); Oct. - Dec., 1927 (Jan. - Feb., 1928); Jan. - Feb., 1928 (Mar. - Apr., 1928); Mar. - Apr., 1928. (May - June, 1928.)

Area sowed in wheat, rye, rape, barley, autumn, 1927; comparative figures, 1926. (Jan. - Feb., 1928.)

Statistics of area, production, yield, wheat, rye, barley, oats, 1928; comparative figures, 1927, average 1923/27. (Sept. - Oct., 1928.)

Statistics of production (provisional figures), walnuts, plums, apples, pears, cherries, apricots, peaches, quinces, 1928. (Nov. - Dec., 1928.)

Area sowed in wheat, rye, barley, rape, autumn, 1928; comparative figures, 1927; production, yield, maize, 1928. (Jan. - Feb., 1929.)

Monthly statistics of export (quantity), of wheat, maize, barley, oats, rye, millet, bran, wood, lumber, bulls, oxen, cows, rams, sheep, hogs, Jan. - Mar., 1929. (Mar. - Apr., 1929.)

Annual statistics of export (quantity, value), wheat, rye, maize, barley, oats, millet, wheat flour, bran, bulls, oxen, cows, sheep, rams, hogs, wood, lumber, 1926, 1927, 1928. (May - June, 1929.)

Area sowed in wheat, rye, barley, rape, autumn, 1929; comparative figures, 1928. (Nov. - Dec., 1929.)

Monthly statistics of export (quantity), wood, lumber, wheat, maize, barley, oats, rye, millet, bran, wheat flour, beans, bulls, oxen, cows, sheep, rams, hogs, Apr. - June, 1929. (Nov. - Dec., 1929.)

Tobacco: Numbers of cultivators, area, production, 1879, 1890, 1900, 1910, 1915; yearly, 1924 - 1927. (Jan. - Feb., 1930.)

Hides and skins: production, import, consumption, export, 1925, 1926. (Jan. - Feb., 1930.)

Statistics of export (quantity; country of destination), wood, lumber, wheat, maize, barley, oats, rye, millet, bran, wheat flour, beans, bulls, oxen, cows, rams, sheep, hogs, 1929. Total value, 1929. (Jan. - Feb., 1930.)

Monthly statistics of temperature, atmospheric pressure (minimum, maximum, average) for the period 1926 - 1928 as compared with the normal variations recorded during the period 1891 - 1915; average annual rainfall of plain, hill, and mountain regions, yearly, 1926 - 1928 as compared with the yearly rainfall during the period 1891 - 1915; average monthly rainfall of certain river basins, 1926 - 1928, as compared with the normal rainfall, 1891 - 1915; average monthly rainfall, by regions, 1926 - 1928 as compared with the normal rainfall during the period 1891 - 1915. (Mar. - Apr., 1930.)

Index numbers of cost of living (food, clothing, miscellaneous, average), 1916, 1929. (Mar. - Apr., 1930.)

Statistics of cooperation. (May - June, 1930.)

Statistics of export (quantity, value), bulls, oxen, cows, rams, sheep, hogs, wheat, maize, barley, oats, rye, millet, bran, wheat flour, beans, wood, lumber, Jan. - June, 1930. (July - Aug., 1930.)

Statistics of area of plum trees, walnut trees, apple trees, pear trees, cherry trees, apricot trees, peach trees, quince trees, 1927. (Sept. - Oct., 1930.)

Numbers of eggs exported, Sept. 1 - Oct. 30, 1930. (Sept. - Oct., 1930.)

Area sown in wheat, barley, rye, rape, autumn 1930. (Nov. - Dec., 1930.)

Value of the gross and net production of 9 peasant families in the Vlasca district.

Maize: area sown, 1930, 1929, average 1925 - 1929; production, yield, export, average price, yearly, 1925 - 1930; countries of destination, principal exporting centers, average monthly prices, 1930. (Mar. - Apr., 1931.)

Statistics of export (quantity, value, country of destination), wheat, maize, barley, oats, rye, millet, bran, wheat flour, beans, bulls, cows, oxen, rams, sheep, hogs, wood, lumber, 1930; export (quantity) from Braila, yellow mustard seed, brown mustard seed, rape seed, oil cakes (rape), sunflower seed, sunflower seed cakes, 1930; from Constantza, rape seed, sunflower seed, pumpkin seed, mustard seed, Feb., 1931; from Banat livestock (bulls, oxen, buffaloes, sheep, horses), Oct. 9, 1930 - Mar. 1, 1931. (Mar. - Apr., 1931.)

Statistics of population, 1930. (Sept. - Oct., 1931.)

Statistics of export (quantity), wheat, rye, barley, oats, maize, cattle, hogs, monthly, 1930; monthly average, 1927, 1928, 1929, 1930; (quantity, country of destination), wheat, maize, barley, oats, rye, millet, cattle, sheep, hogs, wood, lumber, 1930. (Sept. - Oct., 1931.)

Livestock statistics; numbers of horses (stallions, mares, geldings, colts and fillies), cattle (bulls, oxen, cows, calves and heifers), buffaloes, sheep (rams, ewes, lambs), hogs (boars, sows, young pigs), by provinces; goats, fowls, ducks, turkeys, guinea fowls, pigeons, 1929. Numbers of horses, cattle, sheep, goats, hogs, yearly, 1921-1929. Export: horses, cattle, sheep, hogs, yearly, 1921-1930; slaughtered cattle, yearly, 1921-1930; slaughtered sheep, 1921-1925; hogs, 1921-1930; poultry, 1921-1927; horse hides, yearly, 1921-1925; cattle hides, yearly, 1921-1930; sheep, lamb, and goat skins, yearly, 1921-1930; butter (fresh, melted), yearly, 1921-1927; cheese, yearly, 1921-1930; eggs, yearly, 1921-1927. Production, price, total value, beef, veal, mutton and goat's meat, lamb and kid's meat, pork, poultry, eggs, milk, cheese, honey, wax, hides, skins, wool, feathers, silkworm cocoons, 1928.

Contains also a series of articles by Dr. C. Budgetianu on the forests of Rumania and lumber and its uses, with some statistics. (June, 1919-Nov., 1920; Mar., 1921; Aug.-Sept., 1922; Feb.-Mar., 1923; Mar.-Apr.; July-Dec., 1926); articles dealing with commercial and financial conditions and agrarian reform; notes on the condition of agriculture; text of the law of May 8, 1928, on grain standardization. (May-June, 1928.)

U.S.D.A. Rumania. Ministerul de industrie și comert. Directiunea comerțului.  
267.8 Serviciul publicațiunilor și informațiunilor economice.  
In230 Correspondența economică. [monthly]  
București.

U.S.D.A. has anul 13, no. 1-6, 11-12. Jan., 1931 - June, 1931, Nov. - Dec., 1931.

Monthly retail prices of necessary commodities in the principal markets, bread, wheat flour, beef, pork, fat, butter, bacon, milk, cheese, fowls, geese, eggs, sugar, rice, coffee, olives, potatoes, wax, wine, apples, nuts, wood.

Statistics of export of eggs (country of destination), 1928, 1929, 1930. (Apr., 1931.)

Numbers of hens, geese, ducks, turkeys, pigeons in Bessarabia, by departments, 1930. (May - June, 1931.)

Livestock exported from Bessarabia, cattle, hogs, sheep and goats, poultry, by departments, 1929, 1930; poultry, monthly, Jan. - Mar., 1931. (May - June, 1931.)

Poultry exported from Rumania, yearly, 1927-1930; Jan./May, 1931 (preliminary figures). (Nov., 1931.)

U.S.D.A. Rumania. Ministerul de interne.  
267.8 Cresterea arenzii pământului în bani și în dijmă a pășumătului  
In8 și a prețurilor muncilor agricole dela 1870-1906.  
București. Imprimeria statului, 1908. 102p.

Annual statistics of area, production, yield per hectare of wheat, maize, 1862-1905; also average yield figures for 5 year periods from 1862-1905.

Farm rents per hectare, 1870, 1906; rent of pasture land per head of cattle, 1870, 1906.

Rents and prices paid for various kinds of agricultural labor, 1870, 1880, 1890, 1900, 1906.

U.S.D.A. Rumania. Ministerul de interne.  
267.8 Învoielile agricole în vigoare pe anul 1906.  
In81 Bucuresti

U.S.D.A. has also Tablouri despre învoelile și muncile agricole din județele. Bacău, Botoșani... pe anul 1906 - 1907, alcătuite de Nicolae Vasile Leonescu. Bucuresti, 1908.

Statistics of rents and prices paid for agricultural labor according to the agricultural contract law of 1906.

U.S.D.A. Rumania. Ministerul finanelor. Directiunea statisticei generale.  
267.8 Situația financiară a comunelor rurale înainte și după reforma F49S des octrois. Bucuresci, Imprimeria statului, 1904. 41lp.  
In French and Rumanian.

L.C. L. C. entry:  
HJ9540 Rumania. Directiunea statisticei generale (Ministerul finanelor).  
.A5 Situația financiară a comunelor rurale înainte și după reforma acciselor. Situation financière des communes rurales avant et après la réforme des octrois. Bucuresci, Imprimeria statului, 1904. 41lp.  
At head of title: Ministerul finanelor. Ministère des finances.  
Directiunea statisticei generale. Direction de la statistique générale.  
Rumanian and French.  
Tables of statistics of receipts and expenditures of the rural communes of Rumania for the year 1901/2.

U.S.D.A. Rumania. Ministerul finanelor. Directiunea statisticei generale a 267.8 finanelor.  
F49D Tabele grafice relative la comerțul exterior al României de la 1871 - 1907. Diagrammes relatifs au commerce extérieur de la Roumanie L.C. 1871 - 1907. Bucuresti, A. Baer [1907?]  
HF3741 At head of title: Ministerul finanțelor. Directiunea statisticei .A5 generale a finanțelor.  
1907 L. C. entry:  
Rumania. Serviciul statisticei generale a finanelor.  
Tabele grafice relative la comerțul exterior al României de la 1871 - 1907. Bucuresti, A. Baer [1907?]  
At head of title: Ministerul finanțelor. Directiunea statisticei generale a finanțelor.  
Contains charts showing import and export of categories of commodities: livestock, fruits and vegetables, textile products, oils and fats, wood.

U.S.D.A. Rumania. Ministerul finanelor. Directiunea statisticei generale a 267.8 finanelor și comerțului exterior.  
F49St Comerțul exterior al României pe categorii de mărfuri  
[București]  
U.S.D.A. has Jan. - June, 1921; Jan. - Mar., 1923; 1923.  
Title also in French.  
Import and export statistics (quantity, value), preliminary figures, by categories, Jan. - June, 1919, 1920, 1921; Jan. - Mar., 1923; 1923.

U.S.D.A. Rumania. Ministerul finanelor. Directiunea statisticei generale a 267.8 finanelor și comerțului exterior.  
F49Sta Tabelă rezumativă a principalelor produse exportate din România în luna  
București.

U.S.D.A. has Aug., 1922, Apr., Oct., Dec., 1923 - Jan., 1924.  
(Aug., 1922 - Dec., 1923, broadsides)

Title also in French.

Aug., 1922; Apr., Oct., Dec., 1923 have title: Exportul principalelor produse; Oct., Dec., 1923 also contain statistics for previous months of 1923 and comparative statistics for 1922.

Monthly statistics (preliminary figures) of export (quantity, country of destination) of wheat, wheat flour, rye, barley, oats, maize, millet, bran, beans, bulls, cows, oxen, hogs, eggs, fat, wine.

U.S.D.A. Rumania. Ministerul finanelor. Directiunea statisticei generale a finanelor. Biuroul statisticei comerciului exterior.

267.8 F49G Comerciul exterior al României cu Grecia, 1885 - 1904. Bucureşti, 1906. 276p.

L.C. entry:

HF3748 Rumania. Serviciul statisticei generale a finanelor.

.G8 Biuroul statisticei comerciului exterior

1906. Comerciul exterior al României cu Grecia dela 1885 - 1904. Bucureşti, Tip. Ziarului "La Roumanie," 1906. 276p.

Added t. - p. in French. Rumanian and French on opposite pages.

Annual statistics of import and export between Greece and Rumania, 1885 - 1904. Five - year averages given.

U.S.D.A. Rumania. Ministerul finanelor. Directiunea vamilor, timbrului si inregistrarei. Biuroul statisticei comerciului exterior.

267.8 F49C Tablou generale indicand comerciul Romaniei cu terile straine, Bucuresci, 1890 - 1891. (L.C. HF231.A2)

Statistics of import and export (quantity, value, country of origin and of destination).

U.S.D.A. Rumania. Ministerul finantelor. Directiunea vamilor si statisticei financiare. Serviciul statisticei comertului exterior.

267.8 F49A Comertul exterior al României si mişcarea porturilor. Bucureşti.

U.S.D.A. has Jan./Mar. - July/Sept., 1904; Jan./Mar. - July/Sept., 1905; Jan./Mar. - Apr./June, 1906; 1923; 1925; 1926/28.

Jan./Mar., 1904 - Apr./June, 1906 issued quarterly.

Jan./Mar., 1904 - issued by Ministerul finanelor. Directiunea statisticei generale a finantelor. Biuroul statisticei comerciului exterior.

Jan. - Mar., 1905 - issued by Ministerul finanelor. Serviciul statisticei generale. Biuroul statisticei comerciului exterior.

1923 issued by Ministerul finantelor. Directiunea statisticei generale a finantelor si a comertului exterior. Directiunea statisticei comertului exterior.

1926/28 issued by Ministerul finantelor. Directiunea vamilor si a statisticei generale a finantelor si comertului exterior. 1926/28 has title: Mişcarea porturilor.

See also

Rumania. Ministerul finantelor. Directiunea vamilor si statisticei financiare. Serviciul statisticei comertului exterior.

Comertul exterior al României. (U.S.D.A. 267.8F49)

Rumania. Ministerul finanelor. Directiunea vamilor, timbrului si inregistrarei. Bioul statistic comeciu exterior. Tablou general indicand comeciu Romaniei cu terile straine.

(U.S.D.A. 267.8 F49C; L.C. HE231.A2)

Quarterly statistics of import and export (quantity, value) 1904 - 1906. 1923 has annual figures. 1926/28 has annual statistics of goods in transit and in warehouses. For statistics for 1919 - 1921 See Rumania. Directiunea statisticei generale (Ministerul finanelor). Misarea porturilor in anii 1919, 1920 si 1921 (1 ianuarie - 31 decembrie) (L.C. HE871.A5 1921).

U.S.D.A. Rumania. Ministerul industriei si comecului.

267.8 Directiunea generala a statisticei

In22 Anuarul statistic al României. Annuaire statistique de la Roumanie. Bucuresti

L.C. U.S.D.A. has 1904, 1909, 1912, 1915 - 1916, 1922 - 1929.

HA1641 1903 not published.

.A2 1904 issued by Ministerul finanelor. Directiunea statisticei generale; 1909, 1912, 1915/16 issued by Ministerul industriei si comertului.

1909 in 2 vols.

1917 - 1921 not published.

1925 - 1928 issued by Ministerul industriei si comertului. Institutul de statistică generală a statului.

1929 - issued by Ministerul muncii, sănătății si ocrotirilor sociale. Institutul de statistică generala a statului

L.C. entry:

Rumania. Directiunea generala a statisticei (Ministerul industriei si comertului)

Anuarul statistic al României. Annuaire statistique de la Roumanie.

Bucuresti

L.C. has 1904, 1909, 1912, 1915 - 1916, 1922 - 1929.

Text and tables in Rumanian and French.

At head of title 1904: Ministerul finanelor. Ministère des finances, Directiunea statisticei generale. Direction de la statistique générale. - 1909, Ministerul industriei si comertului. - 1912. Ministerul industriei si comertului. Ministère de l'industrie et du commerce. Directiunea comertului. Direction du commerce. Bioul statistic. Bureau statistique. - 1915/1916, 1922 - 1924, Ministerul industriei si comertului. Ministère de l'industrie et du commerce. Directiunea generala a statisticei.

Direction générale de la statistique. - 1925 - 1928 Ministerul industriei si comertului. Institutul de statistică generală a statului. Ministère de l'industrie et du commerce. Institut de statistique générale de l'état. 1929 - , Ministerul muncii, sănătății si ocrotirilor sociale. Ministère du travail, de la santé publique et d'assistance sociale. Institutul de statistică generală a statului. Institut de statistique générale de l'état.

Contains statistics of meteorology; population; area, production, and yield of crops; forestry; livestock raising; agricultural credit; cooperation; alcohol, beer, and tobacco industries; prices; imports and exports.

1. Meteorology.

Annual and seasonal statistics of precipitation (quantity of rain,

snow, etc.), 1891 - ; average number of days of rainfall by departments 1896 - 1915 (1904 - 1922); average quantity of rain and number of days of rain, 1900, 1903, 1905, 1907, 1908 - 1915 (1904 - 1922); annual statistics of precipitation (number of days of rain, snow) by river basins, 1922 - (1923 - )

Annual statistics of temperature (average, minimum, maximum), number of days of frost, number of days of winter weather, average cloudiness, sunshine, days without sunshine, by localities, 1903, 1907, 1913 - (1904 - )

### 2. Population.

Annual statistics of population, 1859 - 1910 (1912); 1860 - 1914 (1915 - 16); 1870 - (1922 - ); annual statistics of population and number of inhabitants per square kilometer, by departments, 1894, 1899, 1902 (1904); 1899, 1905, 1907 (1909); 1899, 1905, 1910 (1912); 1905, 1910, 1914 (1915 - 16); 1910, 1914, 1915 (1922 - 1928); 1910, 1914 (1929); urban and rural population, population according to age, sex, families, marital status, religion, literacy, by departments, 1899 (1904, 1909); urban and rural population by departments of former Kingdom 1899 (1904, 1909); 1910 (1912); 1914 (1915 - 16); 1915 (1922 - ) population by departments, Transylvania, 1910, 1920 (1922 - 1923); 1920, 1923 (1924); 1910, 1923 (1925 - ); Bessarabia, 1908, 1919 (1922); 1908, 1922 (1923 - ); Bucovina, 1910, 1919 (1922 - ).

### 3. Area, production, yield.

Annual statistics of land utilization, area, by departments, 1903 (1904); 1908 (1909); by size of property, property of agricultural associations, 1921 - (1926 - ).

Statistics of area, production, yield, wheat, rye, barley, oats, maize, millet, rape, by departments, 1903 (1904); 1908 (1909); for whole country, yearly, 1893 - 1902 (1904); 1902 - 1907 (1909); wheat, maize, rye, barley, oats, rape, yearly, 1862 - 1876; 1886 - 1903 (1904); 1862 - 1876; 1886 - 1908 (1909); 1862 - 1876; 1886 - 1911 (1912); 1867 - 1876; 1886 - 1915 (1915 - 16); area, production yield, buckwheat, flax, hemp, poppy, beans, peas, potatoes, sugar beets, tobacco, yearly, 1897 - 1903 (1904); area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, vegetables, fodder roots, lucerne and clover, meadows, vines, plums; production, yield, chicory, cabbage, onions, melons, yearly, 1901 - 1911 (1912); 1904 - 1915 (1915 - 16); 1918 - 1921 in former Kingdom, 1919/20 - 1920/21 in new provinces (Bessarabia, Bucovina, Transylvania) (1922); yearly 1923 - ; area, production, yield, oats, wheat, maize, millet, barley, buckwheat, rye, sorghum, lucerne, clover, fodder roots, millet, beans, lentils, lupine, peas, onions, potatoes, cabbage, melons, pumpkins, hemp, flax, poppy, sunflower, sugar beets, chicory, tobacco, anise, mustard, cotton, meadows, pastures, plum trees, other fruit trees, vines, 1925 - comparative figures for 1 to 4 preceding years (1925 - ); area, production, yield, vines, plum trees, by departments, 1903 (1904); 1907 (1909); 1911 (1912); vines 1915, plum trees 1914 (1915 - 16); 1919 (1922); vines 1926 - ; plum trees, 1927 - ;

area, production, yield, wheat, maize, barley, oats, rye, millet, buckwheat, potatoes, rape, flax, hemp, sunflower, beans, peas, lentils, sugar beets, tobacco, cabbage, onions, melons, pumpkins, fodder roots, lucerne and clover, meadows, vines, by departments, 1911; production, yield, sorghum, anise, mustard, poppy, rice, cumin, chicory, by departments, 1911 (1912).

Area and production of fruit trees, 1905 (1912).

Damage done to wheat, rye, barley, oats, maize, rape, flax, vines, plum trees, by frost, etc., 1902 (1903); 1907 (1909); 1911 (1912); 1915 (1915 - 16); 1919 (1922).

4. Forestry.

Forest area exploited, number of trees, revenue from the principal forest products, average value per hectare, per tree, total revenue, gross annual revenue per hectare, net annual revenue per hectare, expenditures, during the period 1889/99 (1904); 1889/99, 1899/1905 (1909, 1912); forest area 1905 (1912); 1920 (1922); 1922 - 1924 (1923 - 1925); 1926 - (1926 - ); by departments, 1928 - (1928 - ).

5. Livestock.

Numbers of livestock owners and of horses, oxen and buffaloes, sheep, goats, hogs, asses and mules, beehives, by departments, 1900 (1904, 1909); numbers of horses, oxen and buffaloes, sheep, goats, hogs, asses and mules, by departments, 1911 (1912); 1916 (1915/16); 1921 (1922); horses, oxen, buffaloes, sheep, goats, hogs, mules, asses, by departments, 1922 - (1923 - ).

Livestock (oxen and cows, calves, buffaloes, sheep, lambs, goats, hogs) slaughtered 1898 - 1902; by departments, 1903 (1904); 1898 - 1906; by departments, 1907 (1909); 1892 - 1908; by departments and communes, 1908 (1912); oxen, cows, buffaloes, calves, sheep, hogs slaughtered in urban and in rural communities 1921 (1922); 1915 - 1923 (1923); cattle, sheep, goats, hogs, horses slaughtered in 1923 (1924); 1924, 1925 (1926).

Numbers of beehives, production, value, price per kg. of honey, wax, 1900, 1901 (1912).

6. Agricultural credit.

Annual statistics of agricultural credit, 1873 - (1904 - ).

7. Cooperation.

Annual statistics of cooperation, 1920 - (1922 - ).

8. Alcohol, beer, sugar, tobacco, silk.

Annual statistics of consumption of alcoholic liquors and beer, 1881/82 - 1902/3 (1904); 1881/82 - 1906/7 (1909); 1881/82 - 1910/11 (1912); 1881/82 - 1913/14 (1915 - 16); 1910/11 - 1921/22 (1922); 1910/11 - 1923 (1923); 1910/11 - 1924 (1924); 1910/11 - 1925 (1925); 1910/11 - 1926 (1926); 1910/11 - 1927 (1927); 1910/11 - 1928 (1928); 1910/11 - 1929 (1929); quantities of raw materials used in the manufacture of alcohol and beer, yearly, 1894/95 - 1903/4 (1904); 1894/95 - 1906/7 (1909); 1894/95 - 1910/11 (1912); 1894/95 - 1913/14 (1915 - 16); 1910/11 - 1920/21 (1922); 1910/11 - 1921/22 (1923); 1910/11 - 1924 (1924); 1910/11 - 1925 (1925); 1910/11 - 1926 (1926); 1910/11 - 1927 (1927); 1910/11 - 1928 (1928); 1910/11 - 1929 (1929).

Sugar. Annual statistics of production, import, consumption, export, export bounties, 1898/99 - 1902/3 (1904); 1898/99 - 1906/7 (1909); 1898/99 - 1910/11 (1912); 1898/99 - 1913/14 (1915 - 16); 1914/15 - 1921/22 (1922); 1914/15 - 1922/23 (1923); 1914/15 - 1923/24 (1924); production, consumption, 1914/15 - 1925 (1925); 1914/15 - 1926 (1926); 1914/15 - 1927 (1927); 1914/15 - 1928 (1928); 1914/15 - 1929 (1929).

Tobacco. Annual statistics of area, production, yield, producer's price, average price per kg., average return per hectare, 1879 - 1903 (1904); 1879 - 1907 (1909); 1879 - 1911 (1912); 1879 - 1914 (1915 - 16); area, production, yield, value, average return per hectare 1914 - 1921 (1922); 1919 - 1923 (1923); 1919 - 1924 (1924); 1920 - 1925 (1925); 1921 - 1926 (1926); 1922 - 1927 (1927); number of cultivators, area, production, yield, purchase price, average price per 100 kg., gross return per hectare, 1914 - 1927 (1928); 1914 - 1928 (1929); quantity of tobacco sold and selling price per kg., yearly, 1879/80 - 1902/3 (1904); 1879/80 - 1906/7 (1909); 1879/80 - 1909/10 (1912); 1879/80 - 1913/14 (1915 - 16); 1914/15 - 1921/22 (1922); 1914/15 - 1922/23 (1923); 1914/15 - 1924 (1924); 1920/21 - 1925 (1925); 1920/21 - 1926 (1926); 1920/21 - 1927 (1927); 1920/21 - 1928 (1928); 1920/21 - 1929 (1929).

Sericulture. Annual statistics, 1890 - 1906; by departments, 1907 (1909); 1901 - 1910; by departments, 1910 (1912); 1901 - 1913; by departments, 1913 (1915 - 16),

Prices. Average prices of maize, bread, beef, pork, mutton, fowls, ducks, geese, turkeys, eggs, milk, cheese, lard, olive oil, olives, sugar, rice, coffee, wine, prune brandy, vinegar, beans, potatoes, onions, walnuts, wood, in 35 towns, 1911 (1912); 37 towns, 1914 (1915 - 16); average annual price in various markets of fowls, ducks, geese, turkeys, beef, pork, bacon, ham, eggs, milk, butter, lard, cheese, flour, bran, potatoes, onions, beans, wheat, barley, oats, rye, maize, sugar, rice, tea, coffee, olives, olive oil, wine, beer, brandy, vinegar, wood, 1922 (1922); monthly prices of fowls, ducks, geese, turkeys, beef, pork, bacon, ham, eggs, milk, butter, lard, cheese, flour, bread, maize, bran, potatoes, onions, beans, wheat, barley, oats, rye, sugar, rice, tea, coffee, olives, olive oil, wood, 1914, 1921, 1922 (1922); 1923, comparative figures for preceding year, - 1929 (1923 - 1929); average annual prices in Bucharest of bread, beef, pork, mutton, fowls, ducks, geese, turkeys, milk, cheese, butter, eggs, fat, olive oil, sugar, rice, beans, lentils, potatoes, onions, wood, 1895 - 1911 (1912); 1898 - 1914 (1915 - 16); sale price of horses, oxen, by departments, 1903 (1904, 1909).

Vols. for 1909 and 1912 contain statistics of rent paid by peasants and of wages paid for labor during different phases of the cultivation of wheat and maize, 1904 - 1916.

#### 9. Import and export.

Annual statistics of import and export of wheat, maize, rye, barley, oats, millet, 1877 - 1903 (1904); 1880 - 1906 (1909); horses, oxen and buffaloes, sheep and goats, hogs, 1877 - 1903 (1904); 1880 - 1906 (1909); annual statistics of import and export, by categories of commodities (quantity, value, country of origin and of destination) 1898 - 1927 (1904 - 1929).

U.S.D.A. Rumania. Ministerul industriei și comerțului.  
267.8 Directiunea generală a statisticei. Serviciul regional de statistică Cernăuti.  
In24 Dictionarul statistic al Bucovinei întocmit pe baza rezultatelor recensământului populației din 28 februarie 1919. București, 1922. 218p.  
L.C. Ed. oficială.  
HAL647  
B8A5 L. C. entry:  
1922 Rumania. Directiunea generală a statisticei (Ministerul industriei și comerțului).  
Dictionarul statistic al Bucovinei întocmit pe baza rezultatelor recensământului populației din 28 februarie 1919. Ed. oficială. București Tipografia "Gutenberg" societate anonima, 1922. 218p.  
At head of title: Ministerul industriei și comerțului. Directiunea statisticei generale. Serviciul regional de statistică din Cernăuti.  
Tables given in preface in Rumanian, French and German.  
Statistics of population according to the census of February 28, 1919. Preface contains table giving numbers of cows, horses, hogs, sheep, by departments.

U.S.D.A. Rumania. Ministerul industriei și al comerțului. Directiunea generală a statisticei. Serviciul statisticii regionale din Chișinău.  
267.8  
In25 Dictionarul statistic al Basarabiei întocmit pe baza recensământului populației din anul 1902 corectat prin datele actuale, statistice ale primariilor și prin tabelele biourilor de populație centralizate în 1922/1923. Chișinău, Tip. societății anone "Glassul tării", 1923. 687p.  
L.C. Ed. oficială.  
HAL647 Rumania. Directiunea generală a statisticei (Ministerul industriei și comerțului).  
B8A5 Dictionarul statistic al Basarabiei întocmit pe baza recensământului populației din anul 1902 corectat prin datele actuale, statistice ale primariilor și prin tabelele biourilor de populație centralizate în 1922/23. Ed. oficială. Chișinău, Tip. societății anone "Glassul tării", 1923. 687p.  
At head of title: Ministerul industriei și al comerțului. Directiunea generală a statisticei. Serviciul statisticii regionale din Chișinău.  
Population statistics based on the census of 1902 corrected by data available in 1922/23.

U.S.D.A. Rumania. Ministerul industriei și comerțului.  
267.8 La Roumanie économique, 1921. Bucarest, Imprimerie de la cour royale,  
In223 F. Göbl fils, 1921. 119p.  
At head of title: Ministère de l'industrie et du commerce. Direction générale de l'industrie. Office des études et enquêtes.  
Introduction signed: Michel Manoilescu.  
L.C. Statistics of area and population, by provinces. (For explanation  
HC407 of table, see p.6).  
R8A6 Land utilization, area, before and after the war: area sowed,  
1921 fallow land, vineyards and orchards, natural meadows, permanent pastures, forests; area, former Kingdom, Transylvania and Bucovina, Bessarabia, meadows, vineyards, forests, pastures, houses, gardens and non - cultivable land.

Area, before and after the war, grain, oleaginous and textile plants, legumes, root crops, industrial and other plants, vegetables, fodder plants, vines, plum orchards; area in Bessarabia, Bucovina, Transylvania, former Kingdom, wheat, maize, barley, oats, rye, millet, buckwheat, sunflower, colza, flax, hemp, peas, beans, lentils, etc., fodder plants, potatoes, sugar beets, tobacco.

Area, production, yield, before and after the war, wheat, rye, barley, oats, maize, millet, rape, flax (grain, fiber) hemp (grain, fiber), sunflower, beans, peas, potatoes, sugar beets, tobacco, fodder beets, artificial meadows, natural meadows, productive vines, plum orchards.

Average area cultivated 1910 - 1914, total production 1910 - 1914, average arable area, possible average production, domestic consumption in 1910, minimum exportable surplus, wheat, maize, barley, oats, rye, millet, buckwheat (no consumption or export figures for millet and buckwheat).

Average area cultivated 1910 - 1914, average arable area, total production 1910 - 1914, possible production, colza, flax, hemp, sunflower, beans, peas, potatoes, sugar beets, tobacco.

Numbers of horses, cattle, sheep and goats, hogs, 1916, 1919; by provinces, 1919.

Area of forests (state and communal, private), before and after the war; area by provinces, 1920; production, value, exportable surplus (quantity, value), fir wood, beech wood, wood for burning.

Annual statistics of import and export (quantity, value), groups of commodities, yearly 1912 - 1915, 1919.

Numbers of cooperative societies, numbers of members, amount of capital subscribed and expended, 1914 - 1919.

Tobacco monopoly: numbers of growers, area, production, value of tobacco; quantity sold.

Sericulture: number of silk worm producers, production of silk worms, cocoons, 1905 - 1910; number of mulberry trees 1909, 1910.

S.D.A.

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Rumania. Ministerul industriei si comertului.

Institutul de statistica generala a statului

Buletinul semestrial al statisticei comerciale. Bucuresti.

U.S.D.A. has 1919, also broadside with title: Comertul exterior al Romaniei, pe categorii de mărfuri. Jan. - June, 1921.

Title - page in Rumanian and French.

L. C. entry:

Rumania. Directiunea generala a statisticei. (Ministerul industriei si comertului.)

Buletinul semestrial al statisticei comerciale.

Bucuresti.

L. C. has 1919.

At head of title, 1919: Ministerul industriei si comertului. Directiunea generala a statisticei.

1919, Title in French on verso of title-page, part 1. Title in Rumanian and French, part 2.

Contents: 1919: fasc. 1. Importul si exportul romaniei in semestrul ianuarie - junie 1919. Date provizorii; fasc. 2. Importul si exportul in semestrul al doilea si intregul an 1919. Date provizorii.

Contains semi-annual statistics of import and export (quantity, value, country of origin and of destination).

Broadside contains annual statistics (preliminary figures) of import and export by categories (quantity, value), 1919 - 1921.

U.S.D.A. Rumania. Ministerul industriei și comerțului.  
267.8 Institutul de statistica generală a statului.  
In222B Buletinul statistic al României, anul 1, 1892.  
București.  
L.C. U.S.D.A. has 1892-1894; 1899/1900, no. 1-2; 1900/01, no. 1-3;  
HAL641 1902/3, no. 1; 1903/4, no. 1-2; 1904/5, no. 1-2; 1905/6, no. 1;  
.A3 1909-1916; 1919 - 1931 (Sept.)  
L. C. entry:  
Rumania. Directiunea generală a statisticii  
(Ministerul industriei și comerțului.)  
Buletin statistic al României. Buletin statistique  
București, 1892.  
L. C. has 1892 (Apr. - Dec.); 1893; 1899/1901; 1903/4; 1909/10;  
1911/12; 1913/15; 1919; 1920; 1923 - 1931.  
Publicat de serviciul statisticii generale.  
Title varies slightly.  
Ser.3, no.1-41/42 are v.10-13; ser.4, no.1-2 are v.14; ser.4, 3-4/5  
are v.15; ser.4, no.6/7 is v.16; ser.4, no.8/9 are v.15 i.e. v.17.  
None published 1917 and 1918.  
1923 is in 2 numbers; no. 1, Jan. - June; no. 2, July - Dec., and  
has no. vol. numbering.  
1892 Apr. - June. Statistics of population by departments, dis-  
tricts, communes, 1889/90.  
Area, production, yield, wheat, maize, barley, oats, rape, rye,  
millet, 1890/91. Comparative figures, 1889/90; area, production, wheat,  
maize, spelt, buckwheat, rye, millet, barley, oats, rape, hemp, flax,  
potatoes, beans, lentils, peas, beets, tobacco, anise, hops, meadows,  
by departments, 1890/91. Damage to crops from weather conditions, 1891.  
1892. July - Aug. Population by departments, 1852, 1859, 1884, 1889.  
1892. Sept. - Oct. Damage to crops from weather conditions, monthly,  
Jan. - June, 1892, by departments.  
Area, production, wheat, maize, spelt, buckwheat, rye, millet, barley,  
oats, rape, hemp, flax, potatoes, beans, lentils, peas, beets, tobacco,  
anise, hops, meadows, by departments, 1890/91.  
1892. Nov. - Dec. Area, production, wheat, barley, oats, rye, buck-  
wheat, maize, peas and beans and lentils, sugar beets, vines, rape, flax  
and hemp, tobacco, meadows, 1889, 1890, 1891; numbers of horses, asses  
and mules, cattle, sheep, goats, hogs, 1890; area, production, (pre-  
liminary figures), wheat, barley, oats, rape, rye; area, maize, 1891/92.  
1893. Jan. - Mar. Statistics of population, by departments, dis-  
tricts, communes, 1890.  
1893. July - Sept. Numbers of horses, asses, cattle, sheep, goats,  
hogs, 1860, 1873, 1884, 1888, 1890, with and without those in  
Bessarabia and Dobrogea; numbers of livestock exported, horses, asses,  
cattle, sheep and goats, hogs, yearly, 1860 - 1868; 1877 - 1892;  
numbers of horses, cattle, sheep, hogs, by departments, 1890; horses,  
cattle, sheep, hogs, goats, by departments, districts, communes, 1890;  
damage to crops, monthly, July - December, 1892.

1894. Land utilization: proportion of land used for various crops, Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, hemp, flax, beans, peas, potatoes, sugar beets, tobacco, hops, anise, meadows, vines, plum trees, by departments, 1891/92. Export of wheat, wheat flour, maize, yearly, 1886-1892. Production, average price, total value, wine, 1892. Value per hectare, total value, wheat, rye, barley, oats, maize, rape, flax, 1892. Statistics (preliminary figures) of area, production, yield, wheat, rye, barley, oats, rape, maize, millet, meadows, 1892/93; 1893/94. Area production, yield, wheat, rye, barley, oats, maize, millet, rape, yearly, 1862 - 1876; 1886 - 1892. Numbers of horses, cattle, sheep, hogs, goats, 1890; numbers of owners of sheep, numbers of sheep, quantity and value of wool produced, 1892; import and export of wool and woolen products, yearly, 1838 - 1892. Numbers of beehives, production, value of honey and wax, 1892. Numbers of communities engaged in sericulture; numbers of silkworm raisers, quantity of cocoons produced, 1892. Damage by fire in rural communities, Jan. - June, 1895. Damage by hail, 1893.

1899/1900 (Ser.2, anul 4,) no.2. - Statistics of land distribution according to the provisions of the law of 1864: numbers of peasants who obtained land and area obtained, by departments; numbers owning 4 oxen, 2 oxen, no work animals, newly married, in Moldavia and Valachia, by departments; owners of 4 oxen and one cow, 2 oxen and one cow, workers by the day with one cow or without work animals, those receiving only a piece of land for house and garden, on state and private land; numbers of peasants who became landowners on state and private land; indemnities paid by the various classes of peasants who were given land; amounts paid, yearly, 1865/66 - 1898/99.

1900/1901 (Ser.2, anul 5). no.1. - Results (provisional figures) of the census of the population of 1899; no.2. - Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax; hemp, potatoes, sugar beets, beans, peas, lentils, tobacco, vegetables, fodder beets, meadows, 1900; comparative figures, yearly 1895 - 1899. Area, production, yield of rape, by departments, 1900; comparative figures for whole country, yearly, 1895 - 1899; area, production, yield of rape, yearly, 1862 - 1876; 1886 - 1900. Area, production, yield, wheat, rye, barley, oats, rape, flax seed, by departments, 1900 (preliminary figures); comparative figures for whole country, yearly, 1895 - 1899. Value of wheat, rye, barley, oats, rape, flax seed, by groups of departments, 1900. Production, consumption, import, export, alcohol, beer, wine, yearly, 1887 - 1899. Statistics of import and export, by categories, yearly, 1890 - 1899, average 1890/99.

1900/1901 (Ser.2, anul 5). no.3. - Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), beans, peas and beans and lentils, potatoes, sugar beets, tobacco, other industrial plants, meadows, vines, plum trees, value of wine and of plums, by departments, 1899/1900. Area, production, yield, wheat, rye, barley, oats, maize, millet, rape, sugar beets, tobacco, meadows, vines, plum trees, yearly, 1895 - 1900; flax seed, hemp, beans, 1896 - 1900; hemp seed, potatoes, 1897 - 1900;

value of wine and of plums, 1895 - 1900. Production, total value, average price, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), beans and peas and lentils, potatoes, sugar beets, tobacco, hay, wine, plums, 1900.

1902/3 (Ser.2, anul 6). no. 1 - Area, production, yield, average price, total value, average value per hectare, wheat (winter, summer), rye (winter, summer), barley (winter, summer), oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, vines, plum trees, average price and total value of wine and plums, by departments, 1902; comparative figures for whole country for 5 preceding years. Statistics of land utilization: area of arable land, meadows, vineyards and plum orchards, by departments, 1899, 1900, 1901. Weight per hectolitre, average price per hectolitre and per 100 kilograms, wheat, rye, barley, oats, maize, millet, rape, flax seed, hemp seed, beans, peas and beans and lentils, 1902. Damage done by weather factors and by insect pests to wheat, rye, barley, oats, maize, rape, flax, vines, plum trees, 1902. Statistics of import, export (quantity, value), by categories, 1901.

1903/4 (Ser.2, anul 7) no.1. - Statistics of land utilization: area in buildings, streets, and gardens; cultivated and fallow land; natural meadows; permanent meadows, vineyards; plum orchards, woods and forests; railways; roads; rivers; lakes; mines; unused land, etc., 1860 (approximate figures); 1903. Area, production, yield, wheat, maize, rye, barley, oats, millet, rape, yearly, 1862 - 1876, 1886 - 1903 [no statistics published 1877 - 1885]. Area, production, yield, wheat (winter, summer), rye (winter, summer), barley (winter, summer), oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows and fodder root crops, vines, plum trees, value of wine and of plums, by departments, 1903; comparative figures for whole country for 5 preceding years. Area, production, yield, average price; total value, average value of production per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, cucumbers, other vegetables, melons, meadows, vines, plum trees, 1903. Truck garden statistics: numbers of owners, permanent employes, seasonal workers, total area, by departments, 1903. Damage to wheat, rye, barley, oats, maize, rape, vines, plum trees, from weather conditions or insect pests, 1903.

1903/4 (Ser.2, anul 7) no.2. - Damage done by fires in urban and rural communities; to forests, 1897.

1904/5 (Ser.2, anul 8) no. 1. - Statistics of import, export (quantity, value), by categories, yearly, 1901 - 1904. Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, anise, cabbage, onions, other vegetables, melons, meadows, vines, plum trees, by departments, 1904/5; comparative figures for whole country, yearly, 1900 - 1904. Numbers of agricultural enterprises cultivated by owners, tenants, under and over 100 hectares in extent, by departments 1904/5.

1904/5 (Ser.2, anul 8) no.2. - Damage done by fire in rural and urban communities, woods and forests, 1898. Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, meadows, vines, plum trees, 1905. Area sown in autumn of 1905, wheat, rye, barley, rape, by departments; figures of autumn sowings for 5 preceding years.

1905/6 (Ser.2, anul 9) no.1. - Statistics of import and export (quantity, value), by categories, 1905. Area, production, yield, wheat, rye, barley, oats, rape, flax seed, by departments 1905; comparative figures for whole country, yearly, 1901 - 1905.

1909 (Ser.3, anul, 1909) no.1. - Area cultivated, yearly, 1899-1908; area, wheat, maize, barley, oats, rye, millet, rape, flax, hemp, poppy, beans, peas, lentils, potatoes, sugar beets, tobacco, truck gardens, melons, cabbage, meadows. Production, yield; wheat, rye, barley, oats, maize, rape, flax, hemp, beans, peas, potatoes, sugar beets, tobacco, hay, wine, plums, 1908. Production, lentils, sunflower, sorghum, rice, pumpkins, cabbage, onions, melons, fodder roots, 1908. Prices of wheat, barley, maize, beans, wine (must), 1900, 1905, 1908. Area, production, yield, average price, total value, average value of production per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax, hemp, poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, chicory, hops, pumpkins, cabbage, onions, other vegetables, melons, fodder roots, meadows; vines, plum trees, 1908. Vines: area, production, yield, value per hectare, average price and total value of wine, average for 1888/92, 1893/97, 1898/1902, 1903/7, 1908. Statistics of import and export (quantity, value), by categories, 1906, 1907.

1909 (Ser.3, anul 1909) no.2-3. - Prices: average price of wheat, maize, rye, barley, oats, per 100 kg., fortnightly, monthly, quarterly, half yearly, 1908. Sericulture: numbers of communes engaged in sericulture, silkworm eggs, production of cocoons, yearly, 1901 - 1908; by departments, 1908.

1909 (Ser.3. anul 1909) no.4. - Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, kitchen gardens, fodder roots, meadows, vines, plum trees, 1908, 1909.

1909 (Ser.3. anul 1909) no.5-6. - Land cultivated by large and small landowners, by the owners, by tenants, yearly, 1907 - 1909. Production, yield, wheat, rye, barley, oats, rape, flax, 1909. Statistics of yield, wheat, rye, barley, oats, rape, flax, yearly, 1899 - 1909. Statistics of deposits in the savings bank of Rumania, yearly, 1881/82 - 1906; 1909.

1909 (Ser.3. anul 1909) no. 7-8. - Damage by fires in urban and rural communities, 1900. Land utilization: distribution by size of farms, among large, medium, small farmers.

1910 (Ser.3. anul 1910) no.9-10. - Prices of wheat, rye, barley, oats, maize, rape, beans, tobacco, hay, new wine, plums, 1892, 1900, 1903, 1905, 1908, 1909. Total value, gross value per hectare of agricultural products, 1900, 1903, 1905, 1908, 1909. Area, production, yield, average price, total value, average value of production per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, straw,

rape, flax (grain, fiber), hemp (grain, fiber), beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, clover and lucerne, vines, plum trees, 1909. Damage to crops by weather and insect pests, 1909. Fortnightly, monthly, quarterly, semi-annual, average annual prices, wheat, maize, rye, barley, oats, 1909. Numbers of communes in which sericulture is carried on, numbers of silkworm breeders, quantity of silkworm eggs, production of cocoons, 1909.

1910 (Ser.3, anul 1910) no. 11-12. - Statistics of import and export (quantity, value), by categories, 1907, 1908. Production of alcohol, beer, sugar, 1908/9; consumption of alcohol, beer, yearly, 1879/80 - 1908/9; consumption, export of sugar, yearly, 1900/1 - 1908/9.

1910 (Ser.3, anul 1910) no. 13 - 14. - Area cultivated, yearly, 1900 - 1909; by departments, 1909, 1910. Production of flax, yearly, 1901 - 1910. Area, vines, 1910. Number and area of agricultural enterprises, yearly, 1905 - 1910; farms cultivated by owners, by tenants, yearly, 1907 - 1909. Statistics of agricultural cooperation, yearly, 1903 - 1909. Statistics of export (quantity), wheat, maize, rye, barley, oats, millet, rape, July, Aug., Sept., 1910; Jan./Sept., 1909; 1910.

1911 (Ser.3, anul 11) no. 15-16. - Statistics of production, yield, wheat, rye, barley, oats, rape, flax seed, 1910. Statistics of import, export (quantity, value), by categories, 1908, 1909.

1911 (Ser.3, anul 11) no. 17-18. - Area, production, yield, average price, total value, average value of production per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne and clover, vines, plum trees, 1910. Damage to crops by weather and pests, 1910. Prices, fortnightly, monthly, quarterly, half yearly, wheat, maize, rye, barley, oats, 1910; yearly average 1908, 1909, 1910. Prices of wheat, maize, on the principal world markets, 1910. Area (approximate figures) sown in autumn of 1910, wheat, rye, barley, rape. Sericulture: Number of communes in which it is carried on, number of silkworm raisers, quantity of eggs used, number of cocoons produced, number of mulberry trees, by departments, 1910; comparative figures for 5 preceding years.

1911 (Ser.3, anul 11) no. 19-20. - Statistics of agricultural cooperation, 1909. Consumption of bread, total, per capita, in the cities of Rumania, 1910. Export (quantity), wheat, maize, rye, barley, oats, millet, rape, Jan. - Apr., 1910, 1911.

1911 (Ser.3, anul 11) no. 21. - Export (quantity), wheat, maize, rye, barley, oats, millet, rape, May, June, 1910, 1911.

1912 (Ser.3, anul 11) no. 22-23. - Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne and clover, fodder plants, vines, plum trees, 1910, 1911. Number and area of agricultural enterprises, by departments, 1911; comparative figures for whole country, yearly, 1906 - 1910. Statistics of land utilization, by owners, tenants,

by departments, 1911; comparative figures for whole country, yearly, 1907 - 1910. Production, yield, wheat, rye, barley, oats, rape, flax seed, 1911. Damage by fire in rural and urban communities, 1901, 1902. Export (quantity), wheat, maize, rye, barley, oats, millet, rape, Jan. - Nov., 1910, 1911.

1912 (Ser.3, anul 11) no.24-25. - Area, production, yield, average price, total value, average value of production per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne and clover, fodder plants, vines, plum trees, 1911. Damage to crops from weather and pests, 1911. World production of wheat, rye, barley, oats, maize, 1910, 1911. Prices, fortnightly, monthly, quarterly, semi-annual, wheat, maize, rye, barley, oats, 1911; average yearly, 1908, 1909, 1910, 1911. Wheat prices on principal world markets. Sericulture: Number of communities in which it is carried on, number of silk worm raisers, quantity of eggs used, number of cocoons produced, number of mulberry trees, by departments, 1911; comparative figures for 6 preceding years. Pastures: number, extent, situation, ownership, 1910.

1912 (Ser.3, anul 11) no.26-27. - Statistics of import and export (quantity, value), by categories, 1909, 1910.

1913 (Ser.3, anul 12) no.28-29. - Census of population (preliminary figures), Dec. 19, 1912. Area cultivated, by departments, 1911, 1912. Area, enterprises over 100 hectares, under 100 hectares, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, poppy, beans, peas and lentils and beans, potatoes, sugar beets, tobacco, vegetables, melons, fodder roots, lucerne and clover, meadows, vines, plum trees, 1912. Number and area of agricultural enterprises, yearly, 1907 - 1912. Land utilization, 1912.

1913 (Ser.3, vol.12) no.30-31. - Production, yield, wheat, rye, barley, oats, rape, flax seed, 1912. Yield, wheat, rye, barley, oats, rape, flax seed, yearly, 1907 - 1912. Production, wheat, rye, barley, oats, rape, yearly, 1907 - 1912; production, yield, rape, flax seed, maize, sugar beets, vines, yearly 1907 - 1912. Production, yield, millet, buckwheat, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, melons, fodder roots, meadows, lucerne and clover, vines, plum trees, 1912. Total value, average value per hectare, price, wheat, maize, barley, oats, rye, wine, yearly, 1906 - 1912. Damage to crops by weather and insect pests, 1912. Fortnightly, monthly, quarterly, semi-annual prices, wheat, maize, rye, barley, oats; average annual prices, yearly 1908-1912. Prices of wheat and maize on principal world markets, 1912.

1914 (Ser.3, vol.12) no.32-33. - Statistics of cooperation, 1903 - 1912. Statistics of import and export (value) 1911. Sericulture: number of communes and villages in which it is carried on; number of silkworm raisers; number of silkworm eggs; quantity used in incubation; quantity of cocoons obtained; number of mulberry trees; average production of cocoons, by departments, 1912; comparative figures for 5 preceding years.

1914 (Ser.3, vol.12) no.34-35. - Land utilization: area cultivated, by departments, 1912, 1913; number of owners, tenants, share farmers,

among large and small agriculturists, 1911. Area, production, yield, average price, total value, average value per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, onions, other vegetables, melons, pumpkins, cabbage, fodder roots, clover and lucerne, meadows, vines, plum trees, 1913. Damage to crops by weather and insect pests, total damage to wheat, rye, barley, oats, maize, rape, flax, vines, plum trees, 1913. World production of wheat, rye, barley, oats, maize, 1913. Production, average price, wheat, maize, rye, yearly, 1908 - 1913; oats, barley, yearly, 1909 - 1913. Fortnightly, monthly, semi-annual prices, wheat, maize, rye, barley, oats, 1913; average annual prices, yearly, 1908 - 1913. Statistics of quantity, quality, consumption, export, of tobacco, 1909/10.

1915 (Ser.3, v.12) no.36-37. — Statistics of population, census of Dec. 19, 1912. Land utilization: area cultivated, farms owned, run on shares, leased, large and small farms, 1909 - 1914. Area, on farms of more or less than 100 hectares, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax, hemp, sunflower, beans, peas, potatoes, lentils and beans, sugar beets, tobacco, vegetables, melons and pumpkins, fodder roots, lucerne and clover, meadows, vines, plum trees, 1914.

1915 (Ser.3, v.12) no.38-39. — Production, yield, wheat, rye, barley, oats, rape, flax seed, 1914; wheat, rye, barley, oats, maize, yearly, 1909 - 1914. Area, production, yield, average price, total value, average value per hectare, wheat, rye, barley, oats; maize, millet, buckwheat, straw, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, clover and lucerne, meadows, vines, plum trees, 1914. Total value, value per hectare, price per hectolitre, wheat, maize, barley, oats, yearly, 1906 - 1914; value, price per hl., wine, yearly, 1906 - 1914. Damage to crops by weather and insect pests, 1914. Total damage to wheat, rye, barley, oats, maize, rape, flax, vines, plum trees, 1914. World production of wheat, rye, barley, oats, maize, 1914. Fortnightly, monthly, quarterly, semi-annual prices, wheat, maize, rye, barley, oats, 1914; average annual prices, 1909 - 1914. Statistics of cooperation, 1912. Sericulture: number of localities in which it is carried on, number of silk worm breeders, number of eggs used, quantity of cocoons, number of mulberry trees, 1913; comparative figures for 5 preceding years.

1915 (Ser.3, v.12) no.40. — Statistics of import and export (value), 1912. World production of wheat, rye, barley, oats, maize, 1912. Area, production, yield, average price, total value, average value per hectare, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, lucerne and clover, meadows, vines, plum trees, 1912.

1919 (Ser.4, v.14) no.1. — Bessarabia: population, 1812, 1813, 1817, 1818, 1823, 1829, 1830, 1837, 1843 - 1852, 1854 - 1856, 1858, 1861, 1881, 1891, 1897, 1909, 1912, 1913, 1918. Area, production, yield,

rye, wheat, oats, barley, maize, yearly, 1902 - 1911. Production, wine, 1851, 1855, 1876, 1878, 1890, 1891, 1893, 1899; area, production, vines, 1918. Area, production, yield, plum trees, apple and pear trees, apricot trees, cherry trees, walnut trees, 1918. Area of forests, 1896, 1919. Numbers of horses, oxen, sheep, goats, hogs, 1916, 1918. Production, price (maximum, minimum), honey, beeswax, 1890, 1895, 1900 - 1910.

Bucovina: Population, 1774, 1779, 1786, 1800, 1848, 1851, 1860, 1869, 1875, 1880, 1890, 1900, 1910. Distribution of farms according to size. Area, production, yield, wheat, rye, barley, oats, maize, potatoes, buckwheat, sugar beets, cabbage, fodder beets, tobacco, flax, hemp, hay, 1912. Numbers of horses, oxen, asses, goats, sheep, hogs, beehives, poultry, 1890, 1900, 1910.

Banat: Population 1870, 1900, 1910. Area, wheat, maize, oats, barley, rye, maslin, millet, buckwheat, beans, peas, lentils, potatoes, sugar beets, fodder beets, rapé, hops, tobacco, hemp, flax, vetch, clover, lucerne, sainfoin, fallow land, 1910. Area, production, yield, wheat, rye, barley, oats, rape, flax, maize, potatoes, 1910. Number of cattle, horses, asses, mules, hogs, sheep, goats, 1911. Area, vines; production, value, wine, 1910. Number of fruits trees (apples, pears, cherries, peaches, apricots, plums, walnuts, almonds, chestnuts, mulberries), 1895. Wages of agricultural workers, 1910. Area of forests, 1910. Number of beehives, with movable or non-movable combs, production of honey, wax, 1910. Number and value of silkworm cocoons, 1910.

Transylvania: Statistics of atmospheric pressure, rainfall, temperature, monthly, 1910. Population, 1869, 1880, 1890, 1900, 1910. Land utilization: arable land, orchards, meadows, vineyards, pasture land, forests, unproductive land, 1911. Area of forests, 1911. Area, maize, wheat, oats, barley, clover, rye, lentils, potatoes, lucerne, fodder beets, hemp, maslin, sugar beets, sainfoin, lentils, peas, flax, beans, rape, millet, hops, tobacco, buckwheat, fallow land, vines, 1911. Production, wheat, rye, barley, oats, maize, potatoes, wine, 1911. Yield, wheat, maize, rye, barley, oats, potatoes, 1911. Number of oxen, horses, asses, mules, hogs, sheep, goats, 1911. Number of beehives, production, honey, wax, 1911.

1919 (Ser.4, v.14) no.2. - Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, vegetables, melons and pumpkins, fodder roots, lucerne and clover, meadows, vines, plum trees, 1919. Land utilization by large and small farmers. Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, potatoes, sugar beets, tobacco, vegetables, melons, fodder roots, lucerne and clover, meadows, fodder crops, Bessarabia, 1918. Retail prices, maize flour, bread, beef, pork, mutton, fowls, ducks, geese, turkeys, eggs, milk, cheese, pork fat, olive oil, olives, sugar, rice, coffee, wine, brandy, white beans, potatoes, onions, walnuts, wood, Bucharest, Oct., 1911, 1912, 1913. Area of forests in Transylvania, Banat, Crișana, Maramureș, 1917. Statistics of cooperation in Bessarabia. Statistics of agricultural machinery and implements, Bessarabia, 1919. Numbers of beehives, production of honey and wax, Bessarabia, 1918/19. Silk production,

number of silk worms, number of mulberry trees, Bessarabia, 1918/19. Land distribution in Bessarabia before 1918. Prices, horses, cattle, sheep, hogs, beef, mutton and lamb, pork, suet, fat, lard, butter (melted), wool, rye, wheat, oats, barley, maize, Bessarabia, yearly, 1909 - 1913, 1918, 1919; average 1901/5, 1906/10, 1901/10. Average *pér diem* wages of agricultural workers, male, female, with and without board, Bessarabia, by departments, 1918, 1919. Statistics of trade between Rumania and Switzerland, 1919. World production and consumption of grain, 1917, 1918.

1920 (Ser. 4, v.15) no.3. - Area, production, yield, average price, total value, average value *pér hectare*, wheat, rye, barley, oats, maize, millet, buckwheat, straw, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, pumpkins, fodder roots, meadows, fodder plants, clover and lucerne, vines, plum trees, former Kingdom, 1919. Damage to crops by weather and insect pests, 1919; total damage to wheat, rye, barley, oats, maize, rape, flax, vines, plum trees. Average prices, bread, beef, pork, mutton, chickens, ducks, geese, turkeys, eggs, milk, cheese, butter, bacon, lard, olive oil, olives, rice, maize, flour, sugar, coffee, wine, brandy, beans, lentils, potatoes, onions, walnuts, apples, grapes, wood, former Kingdom Oct., 1919; comparative figures yearly, 1910 - 1914. Statistics of export, import (value), by categories, 1913, 1914, 1915. Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, fodder roots, lucerne and clover, meadows, vines, plum trees, Bessarabia, 1919. Number of cattle, buffaloes, horses, asses, hogs, sheep, goats, in Bessarabia, 1919. Land distribution at time of expropriation, Bessarabia.

1920 (Ser. 4, v.15) no.4-5. - Area cultivated by size of enterprises, former Kingdom, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, sunflower, beans, peas, lentils and beans, potatoes, sugar beets, tobacco, vegetables, melons and pumpkins, fodder roots, lucerne and clover, meadows, vines, plum trees, 1920. Number and area of agricultural enterprises, former Kingdom, yearly, 1911 - 1915, 1919. Statistics of import and export (quantity, value), by categories, 1915, 1919. Export (quantity) wheat, wheat flour, rye, maize, barley, oats, wood, lumber, Jan. - Sept., 1920. Average monthly retail prices, chickens, fowls, ducks, geese, turkeys, mutton, lamb, beef, pork, smoked bacon, ham, eggs, milk, cream, butter, lard, cheese, honey, fat, white flour, bran, maize flour, potatoes, onions, lentils, dried beans, walnuts, apples, pears, prunes, sugar, rice, tea, coffee, olives, olive oil, sunflower seed oil, wine, beer, brandy, wood, Jan. - Mar., 1920. Average retail prices in Bucharest.

1921 (Ser. 4, v.16) no.6-7. - Population statistics (census of Dec. 19, 1912). Transylvania: land utilization; number of cattle, horses, sheep and goats, hogs. Average wages of agricultural workers in Bessarabia, 1920. Average retail prices of fowls, ducks, geese, turkeys, beef, mutton, pork, eggs, milk, cheese, butter, bacon, lard, sugar, rice, coffee, olives, olive oil, beans, lentils, potatoes, onions, corn meal, nuts, apples, bread, wine, prune brandy, yearly, 1910 - 1914; quarterly, Oct. 1919 - Apr., 1920.

1922 (Ser.4, v.17) no. 8. - Area, production, yield, wheat, rye, barley, oats, maize, 1921. Number of horses, cattle, buffaloes, sheep, goats, hogs, asses, by provinces and departments, 1919, 1920; former Kingdom, 1916. Monthly statistics of export, wheat, wheat flour, rye, barley, oats, maize, 1920, 1921. Index numbers of prices of milk, butter, fowls, turkeys, mutton, eggs, wine, wood, cheese, geese, lard, ducks, cows, potatoes, hogs, bread, lard, beer, corn meal, onions, flour, olive oil, sugar, olives, rice, 1921. Average prices of fowls, ducks, geese, turkeys, mutton, beef, pork, bacon, eggs, milk, butter, lard, cheese, flour, bread, corn meal, potatoes, onions, sugar, rice, olives, olive oil, wine, beer, wood, in Bucharest and 51 other towns, Jan./June, 1921. Average wages paid to agricultural workers in Bessarabia, 1921. Oil: production, for domestic consumption, available for export, sunflower seed oil, flax seed oil, hemp seed oil, rape seed oil, Bessarabia, 1920. Number of beehives, production of honey, wax, Bessarabia, 1920. Statistics of silk worm raising and silk production, Bessarabia, 1920.

1922 (Ser.4, v.17) no.9. - Area, wheat, rye, barley, oats, maize, buckwheat, millet, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, vegetables, melons, fodder roots, lucerne and clover, meadows, vines, plum trees, 1920, 1921, average 1911/15. Production, yield, wheat, rye, barley, oats, maize, average 1911/15, 1920, 1921 (preliminary figures). Number of horses, cattle and buffaloes, sheep, goats, hogs, by provinces, 1916, 1919, 1920. Average prices of fowls, ducks, geese, turkeys, beef, pork, bacon, ham, eggs, milk, butter, lard, cheese, flour, bread, corn meal, bran, potatoes, onions, dried beans, prunes, sugar, rice, tea, coffee, olives, olive oil, wine, beer, brandy, wood, in Bucharest and 33 other towns, Jan./Mar., 1922. Statistics of import and export (quantity, value), by categories, 1913, 1919, 1920 (preliminary figures). Export (quantity, country of destination), wheat, wheat flour, rye, barley, oats, maize, millet, bran, beans, wood, bulls, cows, oxen, hogs, lard and bacon, fat, eggs, wine, Mar., 1922, Jan./Mar., 1922 (preliminary figures). Number of beehives, production of honey and wax, Bessarabia, 1921. Statistics of silkworm raising and silk production, Bessarabia, 1921. Number of cattle, sheep, goats, hogs, in Bucovina, 1921. Area, production, yield, value, wheat, rye, barley, oats, maize, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, fodder roots, lucerne and clover, meadows, plum trees, Bucovina, 1921.

1923 (Jan. - June) no.1. - Forestry statistics 1905, 1912; Bessarabia, 1896, 1919; Bucovina, 1921; Banat, 1919; Transylvania, 1915; Crișana and Maramureș, 1919; wood export, 1922.

1923 (July - Dec.) no.2. - Average monthly prices of fowls, ducks, geese, turkeys, beef, pork, bacon, eggs, milk, butter, lard, cheese, bread, corn meal, potatoes, onions, beans, sugar, rice, coffee, olive oil, wood, Jan. - Sept., 1922.

1924 (Jan. - Mar.) no. 1. - Statistics of area, production, yield, wheat, rye, barley, oats, maize, former Kingdom, Transylvania, Bessarabia, Bucovina, Rumania, yearly, 1920 - 1923. Consumption of wheat, rye, barley, oats, maize, in towns and villages, 1923. Export (quantity, value), wheat, rye, barley, oats, maize, millet, wheat flour, bran, beans, wood, lumber, bulls, cows, oxen, hogs, eggs, lard and bacon, pork fat, wine.

1924 (Apr. - June) no. 2. - Average monthly prices, Jan., Feb., Mar., 1923, 1924, fowls, ducks, geese, turkeys, beef, pork, bacon (smoked), eggs, milk, butter, fat, cheese, bread, meal, bran, potatoes, onions, beans, sugar, rice, coffee, olives, oil, wood. Average monthly prices, Jan. - Mar., 1924, Rome, Belgrade, Sofia, Bucharest, beef, pork, eggs, milk, butter, fat, cheese, bread, meal, potatoes, onions, beans, sugar, rice, coffee, wood. Statistics of area, production, yield, wheat, rye, barley, oats, maize, 1921, 1922; comparative figures for other grain - producing countries. Area, production, wheat, rye, barley, oats, maize, 1920, 1921, 1922, 1923. Yield, wheat, maize, rye, barley, oats, average 1906/10, 1910/14, yearly 1920 - 1923. Production, yield, sunflower, beans, peas, lentils, potatoes, onions, other vegetables, fodder roots, lucerne and clover, meadows, cabbage, melons, pumpkins, 1923. Land utilization: arable land, sowed land, vines and orchards, meadows and pasture land, forests, buildings and roads and water courses, etc. Number of horses, asses, mules, cattle, sheep, goats, hogs, buffaloes, 1913, 1919, 1920, 1921, 1922, 1923. Production, sunflower, flax, hemp, rape, oil, oilcakes, Bessarabia, 1922, 1923. Quantity of oil produced, needed for domestic consumption, available for export, from sunflowers, flax, hemp, rape, Bessarabia, 1923.

1924 (July - Sept.) no. 3. - Average monthly prices and index numbers, Jan. - June, 1924: comparative figures for year 1923, bread, beef, pork, fowls, ducks, geese, turkeys, eggs, milk, cheese, butter, bacon, oil, olives, rice, meal, sugar, coffee, fat, beans, potatoes, onions, wood, monthly prices of above products, Jan. - June, 1923, 1924, Bucharest. Area sowed (preliminary figures), wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas, lentils, potatoes, sugar beets, tobacco, poppy, peas, anise, mustard, chicory, cabbage, onions, other vegetables, melons, fodder roots, lucerne, clover, millet, meadows, beans, potatoes, pumpkins, vines, plum trees, former Kingdom, Bessarabia, Bucovina, Transylvania, 1924.

1924 (Oct. - Dec.) no. 4. - Statistics of import and export (quantity, value), by categories, 1913, yearly, 1919 - 1923.

1925 (Jan. - Mar.) no. 1. - Livestock slaughtered, cattle, sheep, goats, hogs, horses, 1923; livestock slaughtered, sick of certain diseases, quantity of infected meat, bulls, oxen, cows, calves, buffaloes, sheep, lambs, goats, hogs, horses, former Kingdom, Transylvania, Bessarabia, Bucovina, Rumania, 1923.

1925. (Apr. - June) no. 2. - Average monthly prices, Jan. - Mar., 1925, beef, pork, eggs, milk, butter, fat, cheese, bread, meal, potatoes, onions, beans, sugar, rice, coffee, wood, Bucharest; comparative

figures for capital cities of other countries. Annual statistics of trade between Rumania and Great Britain, 1920, 1921, 1922, 1923.

1925 (July - Sept.) no. 3. - Statistics of land utilization, by provinces, 1924. Area, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax, hemp, sunflower, beans, peas and beans and lentils, potatoes, sugar beets, tobacco, cabbage, onions, other vegetables, melons, fodder roots, meadows, 1921/22, 1922/23, 1923/24; vines, plum trees, 1923/24. Production of above, plus lentils, clover and lucerne, 1923/24. Number of horses, oxen, buffaloes, sheep, goats, hogs, asses and mules, 1922, 1923. Forestry statistics.

1925 (Oct. - Dec.) no. 4. - Per capita consumption of wine, beer, alcohol, 1922/23, 1923 (9 months), 1924; comparative figures for other countries, 1896/1900, 1906/10, 1919/22. Export and import (quantity, value), by categories, 1923, 1924, 1925 (9 months). Average monthly prices, Oct. - Dec., 1925, beef, pork, eggs, milk, butter, fat, cheese, flour, bread, meal, potatoes, onions, beans, sugar, rice, tea, coffee, oil, wood.

1926 (Apr. - June) no. 2. - Import and export of wheat, barley, oats, rye, maize, to and from ports of Galatz and Braila, 1924, 1925. Area, production, yield, wheat, maize, barley, oats, rye, millet, buckwheat, beans, lentils, peas, potatoes, cabbage, onions, melons, pumpkins, hemp (seed, fiber), flax (seed, fiber), rape, sunflower, sugar beets, tobacco, poppy, 1906, 1925; fodder roots, millet, lucerne, clover, meadows, 1914, 1925; plum trees, 1906, 1914, 1924, 1925. Area, production, yield, wheat, rye, barley, oats, maize, millet, buckwheat, rape, flax (seed, fiber), hemp (seed, fiber), sunflower, beans, peas, lentils, sugar beets, tobacco, potatoes, cabbage, onions, vegetables, melons, pumpkins, fodder roots, millet, clover and lucerne, meadows, vines, plum trees, other fruit trees, 1924, 1925. Average monthly prices, Jan. - Mar., 1926, beef, pork, eggs, milk, butter, fat, cheese, flour, bread, meal, potatoes, onions, beans, sugar, rice, tea, coffee, oil, wood, in Bucharest and 13 other towns. Movement of grain and other agricultural products in port of Galatz, monthly, half yearly, 1923, 1924, 1925; Braila, 1923, 1924, 1925. Movement of wheat, barley, oats, rye, maize, in port of Galatz, Braila, monthly, 1924, 1925.

1926 (July - Sept.) no. 3. - Statistics of land utilization: arable land, meadows and pastures, forests, uncultivated land 1925; comparative figures for 14 other European countries. Area, production, wheat, rye, barley, oats, maize, 1925; comparative figures for 14 other European countries. Area, production, yield, potatoes, sugar beets, vines; comparative figures for 14 other European countries. Number of horses, cattle, sheep, goats, hogs; comparative figures for 14 other European countries. Damage by fire in 1925. Average monthly prices, Apr. - June, 1926, beef, pork, fowls, eggs, milk, butter, cheese, fat, sugar, bread, meal, potatoes, beans, onions, rice, tea, coffee, oil, wood, in Bucharest and 14 other towns.

1926 (Oct. - Dec.) no. 4. - Area, Production, wheat, rye, barley, oats, maize, 1924, 1925, 1926; yield, wheat, rye, barley, oats, 1926; value, wheat, rye, barley, oats, maize, 1924, 1925, wheat, rye, barley, oats, 1926. Number of horses, oxen, sheep, hogs, goats, buffaloes,

asses and mules, former Kingdom, Bessarabia, Bucovina, Transylvania, 1923, 1924, 1925. Tobacco: number of cultivators, area, production, value, yearly, 1921 - 1925; quantity sold, revenue to state, 1921 - 1925. Average monthly prices, July - Sept., 1926, beef, pork, fowls, eggs, milk, butter, fat, cheese, sugar, bread, corn meal, potatoes, onions, beans, rice, tea, coffee, oil, wood, Bucharest and 14 other towns.

1927 (Jan. - Mar.) no. 1. - Area, production, oats, wheat, maize, millet, barley, buckwheat, rye, sorghum, lucerne, clover, meadows, fodder roots, beans, lentils, lupine, peas, onions, potatoes, cabbage, melons, pumpkins, other vegetables, hemp (seed; fiber) flax (seed, fiber), rape, poppy, sunflower, sugar beets, beet sugar, chicory, tobacco, anise, mustard, cotton, pastures, plum trees, other fruit trees, vines, 1924, 1925, 1926. Index numbers of cost of living in 40 towns.

1927 (Apr. - June) no. 2. - Statistics of land utilization, 1926. Area, production, maize, wheat, barley, oats, rye, 1924, 1925, 1926. Number of horses, oxen, buffaloes, sheep, goats, hogs, mules, asses, by provinces, 1926. Area, vines, plum trees, other fruit trees. Average monthly prices, Jan. - May, 1927, beef, pork, fowls, eggs, milk, butter, fat, cheese, sugar, bread, flour, corn meal, potatoes, onions, beans, rice, tea, coffee, oil, wood, Bucharest and 14 other towns; comparative figures for country, 1925, 1926. Number of horses, oxen, buffaloes, sheep, goats, hogs, mules, asses, 1925, 1926. Import and export (quantity, country of origin and destination) of wine, 1924, 1925. Export and import (quantity) of agricultural products by port of Constantza, Jan. - Mar., 1927; wheat, barley, oats, rye, maize, Braila, Jan./Mar., 1927.

1927 (July - Sept.) no. 3. - Statistics of import and export (quantity, value), by categories, 1923, 1924, 1925. Damage by fire, 1926. Average monthly prices, Jan. - Aug., 1927, beef, pork, fowls, eggs, milk, butter, sugar, bread, flour, corn meal, potatoes, onions, beans, rice, tea, coffee, oil, wood; comparative figures for 1926, in Bucharest and 14 other towns, June - Aug., 1927. Monthly retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, Jan. - June, 1927, Bucharest; comparative figures for capital cities of other countries. Area, production, wheat, rye, barley, oats, maize, meadows, beans, potatoes, lentils, peas, rape, sugar beets, tobacco, by provinces, 1926, 1927. Area, production, sugar beets, production, sugar, yearly 1923 - 1926. Export (value) of grapes, apples, pears, plums, prunes, nuts, 1923, 1924; preliminary figures, 1925, 1926. Import and export (quantity), wheat, barley, oats, rye, maize, sunflower, by port of Braila, Jan./Aug., 1927. Quantity of maize, wheat, barley, oats, rye and other grains in port of Braila, monthly, Jan. - Aug., 1927; wheat, barley, oats, rye, maize in port of Galatz, monthly, Jan. - Sept., 1927; Constantza, monthly, Jan. - Aug., 1927.

1927 (Oct. - Dec.) no. 4. - Area, production, wheat, rye, barley, oats, maize, yearly, 1920 - 1927. Average monthly prices, Jan. - Dec., 1927, beef, pork, fowls, eggs, milk, butter, lard, cheese, sugar,

bread, flour, corn meal, potatoes, onions, beans, rice, tea, coffee, edible oil, wood; average for 1926; prices of above products in Bucharest, and 14 other cities, Jan. - Dec., 1927. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood in Bucharest and capitals of other countries, 1927; also monthly, 1927. Area, production, wheat, rye, barley, oats, maize, meadows, beans, potatoes, lentils, peas, rape, sugar beets, tobacco, by provinces, 1926, 1927. Quantity of wheat, barley, oats, rye, maize in port of Constantza, monthly, 1927; wheat, barley, oats, rye, maize, sunflower, vetch, Braila, 1927; wheat, barley, oats, rye, maize, Galatz, monthly, 1927.

1928 (Jan. - Mar.) no. 1. - Area, production, yield, wheat, rye, barley, oats, maize, 1913, yearly, 1920 - 1927. Area, beans, lentils, peas, potatoes, hemp, flax, rape, sunflower, sugar beets, lucerne, clover, meadows, fodder roots, millet, 1913, yearly, 1924 - 1927. Export (quantity, value) wheat, rye, barley, oats, maize, 1913, yearly, 1920 - 1926. Area, production, oats, wheat, maize, millet, barley, buckwheat, rye, sorghum, lucerne, clover, meadows, fodder roots, beans, lentils, lupine, peas, onions, potatoes, cabbage, melons, pumpkins, other vegetables, hemp (seed, fiber), flax (seed, fiber), rape, poppy, sunflower, sugar beets, chicory, tobacco, anise, mustard, cotton, pastures, plum trees, other fruit trees, vines, 1924, 1925, 1926, 1927. Average monthly prices of beef, pork, ham, bacon, butter, fat, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, in Bucharest and 54 other towns, Jan., Feb., 1928. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, Jan., Feb., 1928; comparative figures for Jan., Feb., 1927, Bucharest and foreign markets. Number of horses, cattle, buffaloes, sheep, goats, hogs, mules, asses, yearly, 1921 - 1926. Quantity of grain in port of Galatz, also imported and exported, 1926, 1927; Braila, 1927, 1928. Import and export (quantity), cheese, barley, oats, rye, maize, millet, sunflower seed, rape, beans, peas, lentils, Galatz, 1927; with flax seed instead of sunflower seed, Jan./Feb., 1928.

1928 (Apr. - June) no. 2. - Statistics of cooperation: average monthly prices of beef, pork, ham, bacon, butter, fat, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, in Bucharest and 52 other towns, Mar., Apr., May, 1928. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, monthly, Mar. - May, 1927, 1928, in Bucharest and capitals of other countries. Quantity of wheat, barley, oats, rye, maize in port of Galatz, monthly, Jan. 1927 - May, 1928. Import and export (quantity) of wheat, barley, oats, rye, maize, millet, flaxseed, rape, beans, peas, lentils, Braila, Jan./May, 1928.

1928 (July - Sept.) no. 3. - Damage by fire, 1927. Production, consumption (total, per capita) of beer, wine, alcohol, yearly, 1925- 1927.

average monthly prices of beef, pork, ham, bacon, butter, fat, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, June - Aug., 1928, in Bucharest and 52 other towns. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, in Bucharest and capitals of other countries, June, July, Aug., 1927, 1928. Quantity of wheat, barley, oats, rye, maize in port of Galatz, monthly, Jan., 1927 - July, 1928. Import and export (quantity) of wheat, barley, oats, rye, maize, millet, flax seed, rape, beans, peas, lentils, Braila, Jan./July, 1928.

1928 (Oct. - Dec.) no. 4. - Average monthly prices of beef, pork, ham, bacon, butter, lard, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize in Bucharest and 51 other towns, Sept. - Nov., 1928. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, in Bucharest and some foreign markets, Sept., Oct., Nov., 1928. Wholesale prices of wheat, barley, oats, rye, maize, monthly, 1927, 1928. Import and export (quantity), wheat, barley, oats, maize, vetch, port of Braila, Jan./Nov., 1928.

1929 (Jan. - Mar.) no. 1. - Average monthly prices of beef, pork, ham, bacon, butter, fat, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, in Bucharest and 52 other towns, Dec., 1928, Jan., 1929. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, Bucharest and foreign markets, Dec., 1928, Jan., 1929. Wholesale prices of wheat, rye, barley, oats, maize, 1927; 1928; Dec., 1927; 1928; Jan., 1928, 1929. Monthly statistics of import, export (quantity) of agricultural products, port of Constantza. Jan., 1928 - Jan., 1929; wheat, barley, oats, rye, maize, millet, Braila, 1928, Jan./Feb., 1929.

1929 (Apr. - June) no. 2. - Area, production, yield, wheat, rye, barley, oats, maize, yearly, 1920 - 1928. Damage by fire, 1928. Wholesale prices of wheat, barley, oats, rye, maize, 1928; Jan., Feb., Mar., 1929. Index numbers of retail prices of beef, pork, ham, bacon, butter, lard, fowls, eggs, milk, cheese, bread, flour, corn meal, potatoes, beans, onions, olive oil, sunflower seed oil, sugar, 1928; Jan., Feb., Mar., 1928, 1929. Monthly retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, Feb., Mar., Apr., 1929, Bucharest and capitals of other countries. Average monthly prices of beef, pork, ham, bacon, lard, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, Bucharest and 70 other towns, Feb., Mar., 1929. Monthly statistics of import and export (quantity), Constantza, Jan. - May, 1929; wheat, barley, oats, Braila, Jan./Mar., 1929.

1929 (July - Sept.) no. 3. - Index numbers of prices of beef, pork, ham, bacon, butter, lard, fowls, eggs, milk, cheese, bread, flour, corn meal, potatoes, beans, onions, olive oil, sunflower seed oil, sugar, wood, 1928, monthly, Jan. - June, 1929. Wholesale prices of wheat, barley, oats, rye, maize, wood, 1928, monthly, Jan. - June, 1929. Average monthly prices of beef, pork, ham, bacon, butter, lard, edible oil, fowls, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, corn meal, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, Bucharest and 70 other towns, Apr., May, June, 1929. Monthly statistics of import and export, Constantza, Jan. - Aug., 1929; wheat, barley, oats, rye, Braila, Jan./Aug., 1929.

1929 (Oct. - Dec.) no. 4. - Sericulture: numbers of mulberry trees, 1928, 1929; production of cocoons, yearly, 1925 - 1928. Number of places in which the industry is carried on, number of silkworm raisers, quantity of eggs used, quantity of cocoons purchased, price paid for them, 1921, 1928. Number of silkworm raisers in Bánat, number of places in which the industry is carried on, eggs distributed, quantity and quality of cocoons, value of cocoons purchased, yearly, 1920 - 1929. Quantity of eggs placed in incubation, yearly, 1921 - 1928. Index numbers of prices of imports and exports, 1913, yearly, 1919 - 1927. Index numbers of prices of beef, pork, ham, bacon, butter, lard, fowls, eggs, milk, cheese, bread, flour, corn meal, potatoes, beans, onions, olive oil, sunflower seed oil, sugar, wood, monthly, Jan. - Sept., 1929. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, Bucharest and some foreign markets, monthly, July - Sept., 1929. Statistics of import and export (quantity), Constantza, monthly, Jan. - Nov., 1929; wheat, barley, oats, maize, millet, Braila, Jan./Nov., 1929.

1930 (Jan. - Mar.) no. 1. - Area, production, wheat, rye, barley, oats, maize, lucerne, clover, meadows, fodder roots, millet, beans, lentils, peas, potatoes, cabbage, melons, hemp (seed, fiber), flax (seed, fiber), rape, poppy, sunflower, sugar beets, tobacco, yearly, 1925 - 1929. Area, pasture land, plum trees, other fruit-bearing trees, forests, yearly, 1925 - 1929. Numbers of horses, cattle, buffaloes, sheep, goats, hogs, asses, mules, yearly, 1925 - 1928. Index numbers of prices of beef, pork, ham, bacon, butter, lard, fowls, eggs, milk, cheese, bread, flour, corn meal, potatoes, beans, onions, olive oil, sunflower seed oil, sugar, wood, monthly, Jan. - Dec., 1929. Retail prices of flour, bread, corn meal, beef, pork, lard, butter, cheese, eggs, milk, potatoes, onions, beans, sugar, rice, coffee, tea, wood, Bucharest and some foreign capitals, Jan., Feb., 1930. Import and export (quantity), Constantza, monthly, Jan. - Dec., 1929; wheat, barley, oats, maize, millet, Braila, Jan./Dec., 1929.

1930 (Apr. - June), no. 2. - Damage by fire, 1929. Index numbers of prices of beef, pork, ham, bacon, butter, lard, fowls, eggs, milk, cheese, bread, flour, corn meal, potatoes, beans, onions, olive oil, sunflower seed oil, sugar, wood, 1929, monthly, Jan. - Mar., 1930. Wholesale prices of wheat, barley, oats, rye, maize, wood, 1929, monthly, Jan. - Mar., 1930. Import and export (quantity), Constantza, Jan., Feb., Mar., 1928, 1929, 1930; wheat, barley, oats, rye, maize, Braila, Galatz; millet, sunflower, Braila, Jan./Mar., 1929, 1930.

1930 (July - Sept.) no. 3. - Prices per wagon on market of Braila, wheat, barley, oats, maize, July, Aug., Sept., 1930. Import and export (quantity), Constantza, 1929, Jan./Aug., 1929, 1930; wheat, barley, oats, rye, maize, Galatz, Braila, Jan./Sept., 1929, 1930; mustard, millet, sunflower, Braila, Jan./Sept., 1929, 1930.

1930 (Oct. - Dec.) no. 4. - Statistics of import and export (quantity, value), by categories, Jan./June, 1929, 1930.

1931 (Jan. - Mar.) no. 1. - Statistics of land utilization, 1929, 1930. Area, oats, wheat, maize, millet, barley, buckwheat, rye, meadows, lucerne, clover, fodder roots, beans, lentils, peas, onions, potatoes, cabbage, melons, pumpkins, other vegetables, hemp, flax, rape, poppy, sunflower, sugar beets, chicory, tobacco, anise, mustard, hops, cotton, meadows, pasture land, plum trees, other fruit trees, vines, forests, 1929, 1930. Numbers of horses, cattle, buffaloes, sheep, goats, hogs, asses, mules, yearly, 1921 - 1929; by provinces, 1929. Import, export (quantity) wheat, barley, maize, rye, oats, vetch, Galatz, 1930; maize, wheat, barley, oats, rye, rape, mustard, millet, sunflower; Braila, 1930. Import, export (quantity), Constantza, 1929, 1930.

1931 (Apr. - June) no. 2. - Number of horses, cattle, buffaloes, sheep, goats, hogs, mules, asses, yearly, 1920 - 1930. Import and export (quantity), Constantza, monthly, Jan. - May, 1931; wheat, barley, oats, rye, maize, vetch, wood, Braila, Galatz, 1930, 1931; peas, sunflower, millet, Braila, 1930, 1931. Statistics of import and export (quantity, value), by categories, 1929, 1930.

1931 (July - Sept.) no. 3. - Damage by fire, 1930. Number of horses (stallions, mares; foals), asses, mules, cattle (bulls, oxen, cows, calves), buffaloes, sheep (rams, ewes, lambs), goats (he goats, nanny goats, kids), hogs (boars, sows, young pigs), 1928, 1929, 1930. Import and export (quantity), monthly, Jan. - Aug., 1931; maize, wheat, barley, oats, rye, vetch, sunflower, wood, Braila, Galatz, Jan./Aug., 1931; peas, Braila, Jan./Aug., 1931. Import and export (quantity, value), by categories, 1927; Jan., Feb., Mar., 1931.

U.S.D.A.  
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Rumania. Ministerul industriei și comerțului.

Institutul de statistică generală a statului.

Statistica prețurilor.

Statistique des prix.

U.S.D.A. has 1921 - 1930.

1921 - 1924 issued by Ministerul industriei și comerțului. Direcțiunea generală a statisticăi.

1925 - 1928 issued by Ministerul industriei și comerțului. Institutul de statistică generală a statului.

1929 issued by Ministerul muncii, sănătății și ocrotirilor sociale.

L.C. entry:

Rumania. Direcțiunea generală a statisticăi (Ministerul industriei și comerțului).

Statistica prețurilor. Prețul obișnuit al alimentelor și al cărora articole mai întrăbuintate.

Statistique des prix.

L.C.  
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L. C. has 1921 - 1928.

Rumanian and French.

1921 - 1925. Annual average retail prices of bread, beef, pork, mutton, chickens, ducks, geese, turkeys, eggs, milk, cheese, butter, bacon, lard, olive oil, olives, rice, corn flour, sugar, coffee, wine, brandy, beans, potatoes, onions, cabbage, apples, grapes, wood, in Rumania. Comparative prices for the years 1910, 1911, 1912, 1913, 1914; index numbers of prices, 1921 - 1925.

Average retail prices of chickens, ducks, geese, turkeys, mutton, lamb, beef, pork, bacon, ham, eggs, milk, butter, lard, cheese, honey, white flour, corn flour, bread, bran, potatoes, onions, dried beans, cabbage, apples, prunes, sugar, rice, tea, coffee, olives, olive oil, sunflower seed oil, wine, beer, brandy, wood, in 47 towns, 1921.

Average monthly prices of chickens, ducks, geese, turkeys, mutton, lamb, beef, pork, bacon, ham, eggs, milk, butter, lard, cheese, honey, white flour, corn flour, bread, bran, potatoes, onions, dried beans, cabbage, apples, prunes, sugar, rice, tea, coffee, olives, olive oil, sunflower seed oil, wine, beer, brandy, wood, in 43 towns, 1921.

Average monthly prices of chickens, ducks, geese, turkeys, beef, pork, bacon, ham, eggs, milk, butter, lard, cheese, white flour, bread, bran, potatoes, onions, beans, whcăt, rye, oats, barley, maize, sugar, rice, tea, coffee, olives, olive oil, wine, beer, brandy, wood, in 42 towns, 1922, 1923; in 46 towns, 1924; in 40 towns (without olives), 1925, 1926.

Average monthly prices of beef, pork, ham, bacon, butter, lard, olive oil, sunflower seed oil, fowls, chickens, ducks, geese, turkeys, eggs, milk, cheese, sugar, bread, flour, cabbage, potatoes, beans, onions, rice, coffee, tea, wood, wheat, barley, oats, rye, maize, in 50 towns, 1927, in 71 towns, 1928.

Average annual retail prices and index numbers, beef, pork, ham, bacon, chickens, ducks, geese, turkeys, eggs, milk, butter, cheese, lard, sugar, flour, bread, potatoes, cabbage, beans, onions, rice, coffee, tea, wood, wheat, rye, oats, barley, maize, 1924 - (1926- ) bran, 1926.

Statistics of cost of living of a middle-class family of 3 members (annual prices paid, monthly prices paid, amount consumed per month): beef, pork, bread, eggs, milk, cheese, olive oil, rice, maize, sugar, coffee, tea, beans, potatoes, onions, cabbage, tomatoes, lard, wood, in 40 towns, 1926; family of 5 members in 50 towns, 1927; in 13 towns, 1928 - 1929; 8 towns, 1930.

U.S.D.A. Zaharia, Alexandru.

267.8

Z1 Zaharia. Récoltes des années 1900 - 1908. Par le Dr. Al Zaharia. Publié par le Ministère de l'agriculture et des domaines. Bucarest, 1910-1926? 2v.

L.C.

HD9049

.W5R87

Text in French.

-----Copy 2. 1909-1914.

Annual statistics of yield of wheat per hectare, weight per hectolitre, chemical composition of wheat, by departments, 1900 - 1908; area cultivated in wheat, 1903 - 1908.

Statistics of precipitation in the months of May, June, 1900 - 1908, by departments.

1909-1914 Zaharia, Alexandru.

Le blé roumain. Récoltes des années 1909 - 1914. Par A. Zaharia. Publié par le Ministère de l'agriculture et des domaines. Bucarest, Imprimerie "Curierul judiciar," sté anonyme [1926?]. 280p.

At head of title: Institut de chimie agricole et alimentaire de l'Université de Bucarest.

Annual statistics of area cultivated in wheat, yield per hectare, weight per hectolitre, chemical composition, by departments, 1909 - 1914.

## RUMANIA

### A GUIDE TO OFFICIAL STATISTICS OF AGRICULTURE POPULATION AND FOOD SUPPLY

#### PART II. - METHODS OF COLLECTION AND ANALYSIS OF OFFICIAL STATISTICS

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#### A. Statistical Organization of Rumania

In order to be able to interpret Rumanian statistics with a fair degree of accuracy some knowledge of the history of Rumania and the territorial increases which have accompanied her development is necessary. Rumania originated in the principalities of Moldavia and Muntenia which united in 1859. In 1878 Dobrogea was added to Rumania, to compensate her for the loss of Bessarabia, annexed by Russia. The country acquired the status of a kingdom in 1887. In 1913 by the treaty of Bucharest Durostor and Caliacra were ceded to Rumania by Bulgaria. This territory has been generally included without special mention in statistical data since 1913. During the War the gathering of statistical information was suspended, and when the statistical organization of Rumania began its work again it had four new provinces to deal with besides the Old Kingdom. These were Transylvania, which before its annexation in 1918 belonged to Hungary, consisting of the region of "Seven Mountains"\*\* and parts of the provinces of Maramuresh and Crisana; Banat, in southwestern Rumania; Bucovina, formerly Austrian, north of Rumania; and Bessarabia, formerly Russian. The latter two, annexed in 1918, did not appear in the statistical data of 1919, the first postwar figures. What earlier information there is on these new provinces has come from the statistical offices of the countries to which they formerly belonged, and hence of course, was gathered by different methods.

A short explanation of the administrative organization of Rumania will also be helpful in interpreting its statistics. The four major divisions, the Old Kingdom, consisting of Dobrogea, Muntenia, Oltenia, and Moldavia, Transylvania consisting of Transylvania proper, Banat and Crisana-Maramuresh, Bucovina, and Bessarabia, are divided into prefectures (judet) which in turn are divided into districts (plasa), and these into communes. The agricultural regions spoken of below are divisions along geographic lines. Each region has its agricultural council and executive head.

The first records of agricultural statistics in Rumania date from 1832 and 1837 and are found in the parliamentary annals of those years.\*\* They are

.. \*Ardeal in Rumanian.

\*\* The following is an account prepared in Rumania by M. Majewski.

summary tables showing agricultural production. In 1858 a statistical bureau was established in Muntenia. Statistical investigations were started still earlier in Moldavia, and the publication, *Lucrările Statistice ale Moldavei*, contains regular reports on the agricultural production of that principality. In 1862 the statistical bureaus of Muntenia and Moldavia were combined into a single office, the Statistical Center, at Bucharest, which published annual reports on the state of harvests until 1876. For the years 1877-1886 when for reasons not ascertained data gathered by the departments and communes were not assembled, there are no agricultural statistics. After 1887, annual agricultural statistics began to appear, but they were only collections of tables, uncritically compiled.

It was not until 1892, with the foundation of the General Division of Statistics in the Ministry of Agriculture, Industry, and Commerce, that the foundations of national agricultural statistics were established. This division functioned until 1919, when it was reorganized under the Ministry of Industry and Commerce.\* The office was to be assisted in its work by prefectoral committees and by statistical services working with each district in each prefecture. The statistical services of the prefectures in their turn were to obtain their information from communal statistical bureaus, the establishment of which was likewise provided for by law. But this extensive organization has never really operated because the committees and commissions either have never been established or have given only mediocre results.

Under these circumstances the entire charge of collective statistical data has fallen to the lot of the field representatives of the Ministry of Agriculture, the local agricultural advisers, and the chiefs of the agricultural districts. In the communes the statistical agents are the communal notaries, and more recently the secretaries of the village councils.

The method of obtaining statistical material has undergone many changes in the period during which Rumanian agricultural statistics have been collected,

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\*In 1926, a law was passed putting the general statistical organization in Rumania on a new basis by the foundation of the Institute of General Statistics of the State, made up of the following services:

- a. The Superior Council of Statistics.
- b. The General Bureau of Statistics.
- c. The statistical bureaus of the ministries and of all public administrations in general.

The Superior Council is composed of 25 officials. Its functions are the regulation of the work of the statistical bureaus and the development of procedures for collecting information/economic enterprises, and for taking the censuses of population, agricultural and industrial enterprises, etc. The General Bureau of Statistics is the executive body of the Superior Council. This bureau is assisted in its work by a technical committee headed by the Director-General of Statistics and composed of the chiefs of services of the statistics in the ministries and other public administrations, which do the actual gathering of the data, each in its own field. This reorganization has not yet been completed, however, according to the Rumanian Bureau of Statistics in answer to an inquiry.

and the statistical schedules have also been modified many times. This in many cases makes the comparison between data of different periods difficult. During the fifteen years before the War, the communal authorities were required to prepare lists giving the name of each inhabitant, the area of land cultivated by him, and the kinds of crops sown. In this way the enumerations were carried down to the smallest unit, the farm. The data showed more than a million farms. The positive and negative errors probably cancelled each other.

This method, the only one available for the periodical agricultural censuses, proved too expensive and too slow for yearly statistics. Consequently after the War the lists with individual names were given up. They were replaced by communal schedules on which the communal authorities write in the data as to cultivated areas, the average yield per hectare, the total production of the various crops and the number of livestock. All this information is for the whole area of the commune, and is based on estimates and appraisals or information obtained directly from the farmers. The chiefs of the agricultural regions are required to superintend and check the carrying out of the enumeration and to assemble the data of the communes into a table for the district. These district tables are sent to the respective agricultural councils where they are rechecked and where the data are grouped by departments. The last inspection of the figures, as well as the regrouping, is done by the statistical division of the Ministry, which publishes the results obtained in separate pamphlets.

At present the following publications are issued annually: Statistics of Cultivated Areas, Statistics of Agricultural Production, Statistics of Livestock, and Statistics of Agricultural Prices.

Among the periodical surveys made in the past by the agricultural statistics service should be mentioned: The censuses of livestock in 1860, 1873, 1888, 1890, 1897, 1900 and 1916; statistics of agricultural machinery in 1905 and 1927; and statistics of fruit trees in 1927. Data concerning the agricultural population, of course for the Old Kingdom only, can be found in the statistics of occupations, worked up at the time of the 1912 census. The statistics of the allotment of agricultural lands have been collected up to the present, not by the Agricultural Statistics Service, but by the Ministry of Finance at the time of the fiscal censuses, which has greatly reduced the possibility of obtaining results approaching the real facts.

Besides the Agricultural Statistics Service, other divisions of the Ministry of Agriculture carry out work of a statistical nature. Casa Padurilor, published forest statistics in 1900 and in 1922, and the Zootechnical Service publishes regularly the statistics of the animals slaughtered in the slaughter-houses. The Central Resettlement Office has very detailed information on the results of the agrarian reform. The Administration of Fisheries prepared annually a statement as to the quantity of fish caught in State waters.

Rumania thus possess a rather important series of statistical reports of an agricultural character. It must, however, be recognized that for a country essentially agricultural, of considerable political and economic importance in the southwest of Europe, the statistical services are insufficient. There are no statistics whatever for many agrarian problems, and those that do exist display numerous errors and gaps. They are delayed in publication moreover and this reduces their practical value.

The principal reason for these deficiencies is the lack of resources. It was this which prevented the carrying out of a general agricultural census until 1930. Today these financial difficulties have forced the Statistical Service of the Ministry of Agriculture to postpone indefinitely not only the publication but even the tabulation of the data of this census. Consequently an enormous quantity of statistical material, very important for the elucidation of a whole series of problems of the new agrarian reform in Rumania is not available for use.

The defects in the methods of enumeration and estimation employed are due to the lack of a sufficient well-trained personnel in the communes, as well as on the supervisory staff and in the division of Agricultural Statistics. The attitude of the peasants, very often illiterate and ignorant, increases the difficulties. Furthermore the areas of the prefectures and communes were only very approximately known before the last census.

Cadasters of landed property exist at present only in Bucovina and Transylvania, and even here they are not up to date. There are communes in Transylvania where no modifications have been made in the land registers since 1880, so that land which has been cleared and cultivated still appears in these books as forest or meadow. In the Old Kingdom and in Bessarabia the situation is still less satisfactory, the surveys being incomplete and often inaccurate.

Another source of error and difficulty is the repeated modification of the limits of the administrative units, which makes comparisons of data gathered in different periods impossible.

This summary shows clearly how necessary is a radical reform of the actual agricultural statistics in Rumania. As a matter of fact this reform is being studied in the bureaus of the Ministry of Agriculture.

Much of the material in the following sections has come from the same sources. In order, therefore, to avoid repetition, such of these sources as need explanation are discussed in this section and will hereafter be referred to by their names alone.

In the first place there are no publications for the years 1916, 1917, and 1918 owing to interruption of statistical work during the War, as mentioned above. Thus when the statement is made that statistics date back to 1900 or some such date, it is always to be understood that 1916, 1917, and 1918 are omitted.

The *Anuarul Statistic al României*, a yearly publication of the Ministry of Industry and Commerce, contains a great deal of statistical information on agriculture which it obtains from the *Buletinul Agriculturii* and from the Statistical Bureau of the Ministry of Agriculture and Domains.

*Statistica Agricola* is the most important source for land utilization and crop statistics. This publication is a yearly supplement to the *Buletinul Agriculturii*. Prior to the War it summarized crop statistics for the periods 1901-1905, 1906-1910, and 1911-1915. Since 1919 it has appeared annually. In 1936, the Ministry of Agriculture began issuing it in two parts, Part I, *Suprafetele Cultivate* dealing exclusively with cultivated areas, and Part II, *Prodigiunea Agricola*, dealing with crop yields and production.

The *Statistica Animalelor Domestice*, containing livestock information, appeared before 1925 under the title *Animalele Domestice din Romania*.

*La Roumanie Agricole* is a collection of reports by various competent officials on the different phases of agriculture in Rumania. It deals, however,

only with the period 1921-1927, as does L'Agriculture en Roumanie, a statistical album.

The Statistica Preturilor, published by the Institute of General Statistics in the Ministry of Industry and Commerce, is the official publication of the price reporting service in Rumania.

Finally, the "inquiry" mentioned so often as a source of material refers to the answers to a series of questions presented to the Statistical Bureau in Rumania in order to fill important gaps in the information afforded by the various sources.

Some of the sources mentioned at the beginning of each section contain material which has been reprinted from the original source. It has been thought best, however, to give the names of every source where data are available, particularly since it is often difficult to distinguish which is the original source.

The sources taken from Part I have been listed in the same order as in Part I. The name of the office issuing the publications has been given first and then enough of the title to identify it in Part I. The Ministerul Agriculturei, Industriei, Comerciului si Domeniilor was divided, in 1919, into the Ministerul Agriculturei si Domeniilor and Ministerul Industriei si Comertului.

All publications of Ministerul Industriei si Comertului have been listed without regard to variation in the spelling of the name of the office on the title page; only in one case has a separate heading been made, as the Moniteur Commercial Roumain is separated in Part I from other publications of the Ministry of Industry and Commerce.

#### B. Natural Bases of Agriculture

Sources listed in Part I are the two publications by Stefan C. Hepites; all the publications given under the Institutul Meteorologic; Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, Réponse Officielle; Ministerul Agriculturei si Domeniilor, Statistica Agricola, Agriculture en Roumanie, and Buletinul Agriculturii; Ministerul Industriei si Comert., Correspondance Économique Roumaine, Anuarul Statistic, and Buletinul Statistic.

Other official sources are La Roumanie, published by the Ministry of Agriculture, Industry, Commerce, and Domains, for the years 1866-1906; Buletinul Societatie Regale Romane de Geografie, 1876; Anuarul Hidrografic, 1911, published by the Ministerul Lucrarilor Publice; Anuarul Institutului Geologic al Romaniei, 1927, and Le Bulletin Informatif du Ministere de l'Agriculture et des Domaines.

Further important sources of information are La Terre Roumaine à travers les Ages. Atlas Historique, Politique et Ethnographique, by N. M. Petresco-Comnene; La Terre et la Race Roumaines depuis leurs Origines jusqu'à nos Jours, by Alexandru Sturdza; Rumäniens, ein Land der Zukunft, by Gottlieb Benger; La Valachie, Essai de Monographie Géographique, by E. de Martonne; Rumänien, Land und Volk, by Rudolf Henke; La Dobroudja, Geographie, Histoire, Ethnographie, Importance Économique et Politique, by Anastas Ishirkov and others; Basarabia in Secolul XIX, by Zamfir C. Arbure; Land und Leute der Moldau und Walachei, by W. Derblich; La Bessarabie, Étude Historique, Ethnographique et Économique, by Antony Babel; La Roumanie Économique et ses Rapports avec l'Étranger de 1860 à 1915, by Georges D. Cioriceanu; Zur Landeskunde von Rumänien, by Hugo Grothe; and Great Britain. Admiralty. A Handbook of Roumania. Prepared by the

Geographical Section of the Naval Intelligence Division.

Topography

The literature on the topography of Rumania is still of no great significance. The annexation of large territories by the country and the development of its natural resources for the last twenty years have tended to make most of the existing maps incomplete so far as the present territory is concerned. Description of the country in most of the books is centered upon geographical position, the drainage system, the Danube and other rivers, the orographical system of the country, and structural aspects of mountains and hills.

Few topographical maps are available for the country as a whole. There is one issued by Statul Major al Armatei\* (scale, 1:20,000). The Geological Institute of Rumania, which is publishing a physiographical and statistical atlas of Rumania, has issued The Orographical Map of Rumania (scale 1:1,500,000). The Austrian staff maps (scale 1:200,000), are of questionable value for many provinces of the country. Antaria's Eisenbahnkarte von Oesterreich-Ungarn (scale, 1:1,400,000), a railway map with no topographical information, includes all territories of Rumania and also all the Balkan states except Greece.

Most of the existing maps cover some particular section of the country, as for example, the Rumanian map (scale, 1: 200,000) covering the whole of Moldavia and the western parts of Muntenia and other maps of Statul Major General al Armatei (scale, 1:20,000), which gives a full description of the physical features of the country east of Bucharest. The maps of the Serviciul Geographic al Armatei (scale, 1:100,000) covering the part of Rumania east of 25° E., contain very good topographical information. Colonel Theodorescu's maps which give valuable topographical information are limited to one part of Rumania - that west of longitude 25°E.

Geological maps

There is no literature available that gives a description of the geological formation of the united territories of Rumania as a whole. The Ministry of Agriculture, Commerce, Industry and Domains published a book in 1906\*\* which gives a good description of the geological and geographical formations of the Old Kingdom, and the best geological map for this same area is that of G. R. Stefanescu, elaborated at the Geological Bureau of the Ministry of Agriculture in 1890. This map, however, is not complete, only 43 sheets having been issued. For the rest of the country since 1918 many books have been published by French and German authors who have described the geological conditions of each of the territories that make up the present kingdom of Rumania. The historical, political, and ethnographical atlas by N. Commène gives an excellent bibliography of geographical literature and also a complete series of ethnographical maps of Rumania from its origin to the present time. The book Bessarabia, by Z. Arbure, Member of the Rumanian Academy discusses in detail the geological features of this territory and presents four maps.

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\*General Staff.

\*\*La Roumanie, 1866-1906. Ministère de l'Agriculture, de l'Industrie, du Commerce, etc.

A geological map (scale, 1:500,000) for the country as a whole was issued in 1927 by the Geological Institute of Rumania as part of its atlas, mentioned above.

### Soil

The soils of Rumania are studied in the soils section of the Institute of Geology which has prepared, under the direction of Professor Munteanu-Murgoci and his successors, a very elaborate map (scale, 1:1,500,000) of the soils in the various regions of Rumania. This map was drawn up according to the principles of the Russian scholar, Dokoutchaev, who classified land on the basis of the correlation which exists between climate and soil. It distinguishes in a general way two important classes of soils in Rumania, soils in a humid or semi-humid climate and soils in a dry climate, i.e., steppe soils.

Information as to topography and composition of soils in all parts of the country can also be obtained from most of the books dealing with agricultural conditions in Rumania. *La Grande Roumanie*, by Rommenholler, and the report of the Ministry of Agriculture, Industry, and Commerce give full information as to the analysis of the Rumanian soil. A detailed discussion of arable land is found in *Le Sol Arable de la Roumanie*, by V. C. Munteanu and C. Roman, Bucharest, 1900. This is an official publication of the agronomical station at Bucharest.

The discussion of soils is usually centered on the geological formation, the mechanical constitution, and the chemical composition of the arable land.

### Climate and Rainfall

Rumania, on account of its geographical position and the geological formation of the interior of the country, has a climate intermediate between the northern and the Mediterranean types. In consequence the climate is affected by frequent changes in temperature, distribution of rainfall, winds, and other climatic factors.

The climate of Rumania is studied by the Central Meteorological Institute of Bucharest. Information as to climatic conditions is collected by the seventeen chief meteorological stations located in all parts of the country, at places varying in altitude from 82 to 2,821 feet above sea level. All stations and bureaus are required to send their records to the Institute at the end of each month. The records and other observations are published yearly in the annual statistical bulletins of the Bureau of Statistics in tables indicating:

1. The annual precipitation measured in millimeters for the various seasons.
2. The temperature of the air (centigrade) during each year in various localities throughout the country, classified as follows: Mean temperature; absolute maximum temperature; absolute minimum temperature; mean maximum temperature; mean minimum temperature; number of days of frost; number of days of winter; mean nebulosity; duration of sunlight; days without sun.

There is a short discussion of the climatic conditions in Rumania in *La Roumanie*, published in 1907 by the Ministry of Agriculture, Commerce,

Industry, and Domains. The discussion is concerned mostly with temperature, winds, and rainfall, but gives additional references for more detailed descriptions of climatic phenomena.\* The same book includes maps showing the amounts of rainfall in the different parts of the country.

The Ministry of Public Works has published since 1925 The Hydrographical Annual of Rumania. It has also published a volume containing hydrometrical observations made in the Old Kingdom in the years 1914-1924 and in Transylvania, Banat, and Bucovina in the years 1919-1924. A special volume covers the observations made in the years 1912-1918 in Transylvania, Banat, and Bucovina, data which are not to be found in the annuals of Austria and Hungary which correspond to this period.

Information as to weather conditions is also published regularly by the Ministry of Agriculture in its Bulletin of Information.

In 1931 the Central Meteorological Institute issued a new publication, Climatological Data, the first volume of which contained annual and monthly averages for the period 1896-1915 of atmospheric pressure, temperature, and rainfall, compiled by 32 stations and hourly averages of meteorological phenomena in Bucharest. These averages were compiled according to the rules recommended by J. Nanu in his treatise on climatology.

A further source of information is the Handbook of Rumania, published by the geographical section of the Naval Intelligence Division of the British Admiralty, which gives a good discussion of the climatic conditions of Rumania with tables indicating: The mean monthly temperature; the frequency of winds - the velocity calculated in miles per hour; the mean monthly rainfall; the mean relative humidity.

All other books that deal with the separate territories of Rumania discuss in a general way the climatic conditions of the particular district.

Table I, following, presents a historical record of rainfall in Rumania. Table II shows temperature and rainfall in the various natural agricultural regions of the country. It will be noted that the coldest agricultural region is Bucovina and the warmest Dobrogea. Bucovina also has the coldest spring, while the plain of Muntenea, including Baragan, has the warmest. In summer Bucovina and the plateau of Transylvania are coolest, while it is hottest on the plain of the Danube, and the steppe (Baragan), after which come Bugeac, the Delta, and Dobrogea.

The driest agricultural region is found in Bugeac; the area of greatest rainfall is the valley of Tissa where, due also to the good quality of the soils, the best harvests are obtained.

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\* Album climatologique de Roumanie, by St. C. Hepites. 1900.

Regimul pluviometric al Romanie, by St. C. Hepites. An. Acad. Rom., Vol. XXII.

Vantul la Bucuresti si cauza Crivatului, by St. C. Hepites. An. Acad. Rom., Vol. XXII, 1899 (winds)

TABLE I. RAINFALL OF RUMANIA IN MILLIMETERS\*

Year	Annual quantity	Seasons			
		Winter	Spring	Summer	Autumn
1896	458	92	143	147	115
1900	662	176	187	213	115
1910	594	115	119	210	167
1920	548	-	161	224	82
1925	584	39	120	238	132
1928	513	99	137	143	138
Average					
1896-1928	574	94	150	201	130

Natural Vegetation

Almost all of the literature, including the official publications, that has been written on the Rumanian flora classifies it according to three distinct regions.

1. The Alpine region, occupying only the summits of the high mountains, commencing at an altitude of 1700 m., at which height the forests as a rule cease.
2. The Forest region, covering the sides of mountains and hills, extending into the plains, where the forests become more and more rare and finally disappear. The Forest region is subdivided into many zones: The zone of coniferous forests; the zone of beech trees; the zone of mixed forests; the zone of oak trees.
3. The region of the Steppes, occupying the meridional part of the plains of Dobrogea.

For a detailed discussion of each of the above régions, see Roumanie, by the Ministère de l'Agriculture, de l'Industrie du Commerce, et des Domaines, 1866-1906. The work by E. de Martonne gives a full discussion of the météorological conditions of the country and their relation to the Rumanian flora; he quotes many authorities on the subject.\*\* Cioriceanu, in his Roumanie Économique, describes in brief the soils and the zones of vegetation in Rumania, and quotes leading authorities on the subject.\*\*\*

\*Twelve millimeters of snow are equal to one millimeter of rainfall.

\*\*Despre Vegetația României, by Dimitri Brandza; Die Forstwirtschaftlichen Verhältnisse Rumäniens, by Dimitrie Basilescu; Conspectul Florei României, by Grecescu.

\*\*\*Les Zones Naturelles des Sols en Roumanie, by G. Murzoci; Les Zones de Végétation ligneuse de Roumanie, by P. Enculesco; Vallées et Lacs Steppiques dans la Valachie, by E. de Martonne.

TABLE II. TEMPERATURE AND RAINFALL IN THE NATURAL AGRICULTURAL REGIONS\*

A. Temperature in Degrees Centigrade - Average for Years 1923-1927

Regions	Winter	Spring	Summer	Autumn	Year
1. Plains of the Danube	-1.6	11.9	21.6	12.7	11.2
2. Baragan	-1.3	12.0	21.6	13.0	11.3
3. Delta of the Danube	+0.9	10.5	21.3	13.6	11.6
4. Dobrogea	+1.0	10.2	21.2	14.3	11.7
5. Bugeac	-1.7	10.6	21.3	13.0	10.8
6. Moldo-Bessarabian Plateau	-2.9	10.0	20.2	11.3	9.6
7. Plains of Barlad	-2.2	10.5	20.3	11.9	10.1
8. Bucovina	-3.0	9.0	18.2	9.7	8.5
9. Plateaus of Transylvania	-2.1	10.1	18.2	10.1	9.1
10. Plains of Tissa	+1.4	11.7	20.7	12.4	11.6
11. Hilly region	-1.4	11.3	20.7	12.1	10.7
12. Northern Carpathians	-1.8	9.5	17.6	9.7	8.7
13. Western Carpathians	-0.5	11.0	18.8	11.1	10.1
14. Southern Carpathians	-0.3	11.1	19.6	11.4	10.5
15. Eastern Carpathians	-2.1	9.4	18.5	10.4	9.1

B. Rainfall in Millimeters - Average for Years 1923-1927

Regions	Winter	Spring	Summer	Autumn	Year
1. Plains of the Danube	109	129	199	98	535
2. Baragan	93	98	148	64	403
3. Delta of the Danube	105	114	158	98	475
4. Dobrogea	80	85	141	70	376
5. Bugeac	73	73	133	53	332
6. Moldo-Bessarabian Plateau	63	105	144	53	365
7. Plains of Barlad	83	140	217	80	520
8. Bucovina	64	127	254	90	535
9. Plateaus of Transylvania	105	141	260	190	615
10. Plains of Tissa	112	165	219	142	638
11. Hilly Region	110	143	224	95	572
12. Northern Carpathians	132	163	282	157	734
13. Western Carpathians	156	182	301	198	837
14. Southern Carpathians	150	189	269	135	743
15. Eastern Carpathians	84	159	224	76	534 <sup>43</sup>

\*According to Professor N. O. Popovici-Lupa. These natural agricultural regions are those established by the Rumanian scholars N. O. Popovici-Lupa, C. Martinovici, and N. D. Cornateanu.

### C. Definition of Agriculture

A source listed in Part I is Ministerul Industriei si Comertului, Buletinul Statistic. Another source is *La Roumanie Agricole*.

There is no statistical definition of agriculture in Rumania. A short description of the type of agriculture prevailing there will, however, be helpful in understanding the following analysis of agricultural statistics.

The land reform, begun in 1918 and through which more than 6,000,000 hectares of land were expropriated and distributed to the peasants by 1927, is bringing about a gradual change in agricultural practices in Rumania. Before the reform most of the farms consisted of large estates on which only grain were grown. This was true whether the estate was operated as a whole or cultivated in strips by peasant tenants. With the increase of small proprietors, i.e., owners of from 0 to 100 hectares of land, there have been some changes in the system of cultivation. Whereas rotation of autumn or spring grain and cultivated crops was not the general practice on the large estates, it is on the small holdings. In the Old Kingdom the system generally followed is a two-year rotation of wheat and maize, or spring grain and maize, or wheat and half oats and half maize. This two-year rotation system is exemplified on a peasant holding in Muntenia in the commune Slobozia of the prefecture Vlasca. The holding consists of 3 1/2 hectares, half of which is planted to wheat and half to maize. There are six persons in the family and they possess 2 oxen, 2 buffaloes, 16 sheep, 6 lambs, 2 asses and 15 chickens.\*

Some peasants have a three-year rotation of autumn grain and spring grain and maize, or spring grain and fall grain and maize. A peasant living in the same commune as the one mentioned above, with a family of 7, and employing extra farm labor at the harvest season, plants his 26 hectares as follows: 10 to maize, 8 to wheat, 4 to barley, 3 to oats and 1 to millet. He owns 2 head of cattle, 2 horses, 2 buffaloes, 2 asses and 70 chickens.\*\*

In Transylvania and Bucovina a more diversified kind of farming is the rule. A typical farm is one in Transylvania in the commune Cristesti of the prefecture Mures. It consists of 60 hectares. Grain is grown on 18 1/2 hectares, of which 8 1/2 are in wheat, 5 in barley and 5 in oats; forage crops take 21 hectares, of which 12 are in clover, 2 in lucerne, 2 in sainfoin, and 5 in vetch; cultivated crops occupy 9 1/2 hectares of which 6 are in sugar beets, 2 in maize, 1/2 in potatoes and 1 in forage beets; the wooded area is 10 hectares and pasture 1 hectare. There on the farm 4 oxen, 4 cows, 4 calves, 2 horses, 4 asses, and 20 chickens.\*\*\*

### D. Number of Farms

Sources listed in Part I are: Ministerul Agriculturii, Industriei, Comerciului si Domeniilor, Réponse Officielle, and Statistica Agricola; Ministerul Agriculturii si Domeniilor, Agricultorii si Repartizarea, and

\**La Roumanie agricole*, 1929.

\*\*Ibid.

\*\*\*Ibid.

Statistica Animalelor Domestice; Ministerul Industriei si Comertului, Buletinul Statistic. Another source of information is La Roumanie Agricole, 1929.

In Rumania, as in other southern European countries, there is no term equivalent to "farm" as used in the United States to designate a piece of land used wholly or partly for crop or livestock production. The Rumanian peasant's farm consists of several strips of land which may be quite far apart. He generally lives in the village commune about which his holdings are distributed, but frequently he lives in larger cities and towns, going out daily to work in his fields. In either case he has to travel a considerable distance from his home to the field, or from field to field, or to the pasture where his livestock is kept. The pastures are usually communal property; where they are fenced they are privately owned or belong to large estates.

So far as is known there has been no study made especially to determine the number of farms, either in the Old Kingdom or in the regions recently acquired. The only clue is in statistics on the number of landowners to be found in data on land tenure. In 1905 a fiscal census was taken which established the number of landowners in the country, classified according to the size of their property. At that time many peasants did not own their farms but held them in lease from the estate owners. The farms the peasants did own were usually small and in the hilly regions, contrasting noticeably with the large estates spread over the valleys and the fertile plains of the Danube. But in the census every operator of a farm was counted whether he owned or leased it, thus making the terms landowner and operator synonymous. This would seem to indicate that the number of landowners approximated, at least, the number of farms. The figures from this census are given in table III. for the Old Kingdom only.\*

TABLE III. FARM OPERATORS IN RUMANIA, OLD KINGDOM, 1905

Class of owners	Size of holding		Number of "owners"	Area of arable land	Percent of total arable land
	in hectares	Number of "owners"		in hectares	arable land
1. Proprietors of small farms	Less than 10	1,015,302	3,319,695	41.66	
2. Proprietors of medium-sized farms	10-50	36,318	695,953	8.74	
	50-100	2,381	165,456	2.08	
3. Proprietors of large farms	100-500	2,608	785,719	9.86	
	Over 500	1,563	3,001,473	37.66	
Total		1,058,172	7,968,296	100.00	

\*La Roumanie 1866-1906, issued by the Ministry of Agriculture, Commerce, Industry and Domains, 1906.

In these figures are included only the farmers in possession of arable lands, prairies, pastures, and plantations of plums; area of vineyards, forests, and marsh land are not included.

In 1915 the Ministry of Agriculture issued a publication entitled Farmers and the Distribution of Cultivated Land in 1913. Here the farmers are classified according to whether they own the land or farm without indebtedness. (See section I.) Table IV shows the distribution by agricultural regions. It will be noted that the number of farms increased from 1,058,172 in 1905 to 1,112,578 in 1913.

TABLE IV. DISTRIBUTION OF FARMERS ACCORDING TO LAND TENURE, 1913\*

Prefectures	Number of Farmers			Percent	
	Owners	Not own- ing land	Total	Owners	Tenants
	of land				
Plains of Siret and Prut (10 Prefectures)	213,726	35,916	259,642	85.6	14.4
The Carpathes of Moldavia (4 Prefectures)	109,461	6,611	116,072	94.3	5.7
The Carpathes of Muntenia (8 Prefectures)	313,457	27,939	341,396	91.8	8.2
The Plains of the Danube (3 Prefectures)	299,309	65,468	364,777	82.1	17.9
Dobrogea (2 Prefectures)	31,944	8,747	40,691	78.5	21.5
Rumania	967,897	144,681	1,112,578	86.5	13.5

The Statistica Agricola for the years 1911-1915 records the production of crops as grown by owners of large farms or of small farms. Statistics since the land reform, begun in 1918, are available for all regions of the country. They give the number of proprietors according to size of holdings. Such data are no longer classed under land tenure because of the expropriation of lands and the increase in number of peasant proprietors.

The official publication La Roumanie Agricole, 1929, classified the number of proprietors by categories and according to regions as follows (table V):

\*Farmers and the Distribution of Cultivated Land in 1913.

TABLE V. FARM OPERATORS, ACCORDING TO SIZE OF FARMS, RUMANIA 1929

Farms	Number of hectares	Number of proprietors
<u>Old Kingdom</u>		
Under 5 hectares	3,303,871.36	1,707,009
From 5 - 10	1,161,951.27	176,162
" 10 - 50	783,666.25	40,791
" 50 - 250	812,810.91	7,388
Above 250	873,450.74	1,670
Total	6,935,750.53	1,933,020
<u>Bessarabia</u>		
Under 5 hectares	1,231,645.91	425,868
From 5 - 10	776,255.06	113,521
" 10 - 50	667,562.70	42,434
" 50 - 250	209,932.50	2,357
Above 250	273,323.56	339
Total	3,158,719.73	584,519
<u>Bucovina</u>		
Under 5 hectares	18,798.43	174,852
From 5 - 10	26,295.45	4,246
" 10 - 50	22,690.59	1,383
" 50 - 250	36,323.26	317
Above 250	21,009.06	53
Total	125,616.79	180,851
<u>Transylvania</u>		
Under 5 hectares	1,676,793.56	1,011,087
From 5 - 25	885,087.17	96,886
" 25 - 125	365,457.36	6,495
Above 125	369,234.32	1,106
Total	3,296,572.41	1,115,574

A summary of the above statistical data shows the number of agricultural proprietors to be as follows:

Properties under 5 hectares	6,400,109 hectares	3,318,816 proprietors
Properties above 5 hectares	7,285,550 "	495,148 "

Thus by far the largest number of agricultural enterprises in Rumania have an area of less than 5 hectares of land.

The only available information on the number of agricultural enterprises in Rumania is contained in the data given above. There is no information on the number of farms on which are produced grain, livestock, orchard products, forest products, etc. When the results of the 1930 agricultural census are published more exact information will be available. In the schedule for that census no minimum size of holding was fixed as constituting a farm enterprise. All holdings of land were to be included in the enumeration irrespective of their acreage, type of farming, or location. This would seem to agree with the definition of a farm recommended by the International Institute of Agriculture.

#### E. Population of Rumania: Occupation

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Directiunea Generala a Statisticei, Statistica Profesiunilor; Directiunea Statisticei Generale, Dictionarul Statistic al Romaniei; Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, Progres de la Dobrodja, 1878-96; Réponse Officielle, Résultats Définitifs du Dénombrement de la Population (Dec. 1899); Ministerul de Industrie si Comert, Correspondance Économique, Anuarul Statistic, Dictionarul Statistic al Basarabiei, La Roumanie Économique, and Buletinul Statistic. Other official sources of information are La Population Actuelle de la Roumanie, Chiffres Préliminaires du Recensement General de 1930, and Indicatorul Statistic al Romaniei.

The earliest documents on the enumeration of population in the Old Kingdom of Rumania date back to the 19th century. The first known census was taken in 1851 directed by the Prince of Moldavia. It was taken for purely fiscal purposes, the total population being grouped in classes according to their financial status. The next census was taken in 1859-1860, just after the union of the two principalities, Muntenia and Moldavia. The purpose of the census was similar to that of 1851. The same data were asked for in the censuses of 1899 and 1905. Not until 1912 was a tabulation taken of the Old Kingdom of Rumania for purely demographic purposes without serving a fiscal end. The Buletinul Statistic al Romaniei for 1914 contains a brief report on the 1912 census, but does not explain the method employed in taking it.

The most recent and only census taken since 1912 is the 1930 census.\* Estimates as to population from 1913-1929, obtained by adding the excess of births over deaths during each year to the figure for the preceding year, the basic figure being the population as established in the census of 1912, are available in the Anuarul Statistic al Romaniei for those years.

In 1928 plans were made by the Institute of General Statistics in Rumania for a general census of population to be taken in 1930 in accordance with the resolution adopted by the International Institute of Statistics. A Census Commission was appointed in 1929 to work out the general organization of this census. Their recommendations were later incorporated into the

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\*A demographic census was taken in 1927, by purely administrative means and methods. The results were never published and were utilized solely for some studies of a limited interest.

Census Law of 1930 which provided for a census of population, of commercial and industrial enterprises, and of buildings and dwellings, the data thus gathered to be used for statistical purposes only, not fiscal.

The census was taken on December 29, 1930. For this purpose the 71 prefectures of the country and 20 municipalities were divided into 1250 districts, each having a population of about 14,000, and the districts in turn into 57,279 sections. The division into sections, the basic units of the census organization, was made on the basis of a preliminary enumeration of all houses and streets in urban and rural communes of the country, together with the families and the members of each, made by the Central Bureau which had charge of the execution of the census, in order to insure exact registration of all inhabitants of the country and to eliminate double registration; it also served as a check on the census returns.

To each section, which embraced approximately 80 families or 350-400 persons, was assigned an agent who received his instructions from the supervisor of his district. His duties were to visit each house and see that the schedules were properly filled out by the heads of the families, or in case of illiteracy to do this himself; and to collect the schedules and turn them over to his supervisor. The supervisor after verifying and signing the data transmitted them to the Bureau of his prefecture or municipality. It was here that most of the responsibility of the success of the census rested. These bureaus had charge of the publicity for the census, making contacts with various institutions, recommended the appointment of supervisors and census agents, and distributed the technical instructions, etc. From the prefectures and municipalities the data were sent to the Central Bureau where they were checked and summarized in preliminary tables after which began the editing of the individual schedules.

The final results of the 1930 census and the analysis of the data are to be published in the following series of eight volumes prepared by the Census Commission: Demographical Data of the Census; The Cultural Level of the Population; Statistics of Buildings; Statistics of Occupations; Statistics of Industrial and Commercial Enterprises; Statistical Dictionary of Rumania; The Statistical Guide; The Nomenclature of Occupations and Enterprises in Rumania.

The only one of this series which has appeared up to the present is The Statistical Guide.\* It contains preliminary results of the general census, a statistical guide to the villages and all the administrative units of Rumania, and the alphabetical index of Rumanian place names. Of the others, The Nomenclature of Enterprises is in press, and the rest still in process of preparation.

Information is available in the 1912 and 1930 censuses on population according to administrative units, and according to sex, density of

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\*The pamphlet, *La Population Actuelle de la Roumanie*, 1931, was published by the Commission before the editing of the schedules and has been used principally for publicity purposes. The figures in it do not correspond to those of the edited schedules.

population, rural and urban population, buildings in the country, occupations of the population, and industrial and commercial enterprises. In the following discussion each of these is taken up in turn.

Table VI gives the population of Rumania from 1870 to 1930. Figures for the years 1870-1878 were calculated on the basis of a census taken in 1859-1860, Rumania consisting at that time of the regions Cahul, Bolgrad and Ismail. Figures for the years 1879-1913 were also calculated on the basis of the 1859-1860 census together with later ones taken in 1899 and 1905. From 1913 to 1915, population figures were estimated on the basis of the 1912 census, and from 1919 to 1930 on the basis of the 1930 census. The 1919-1930 figures differ somewhat from the estimates in the *Anuarul Statistic*, mentioned above, as the latter were calculated for the Old Kingdom on the basis of the 1912 census and for the newly acquired territories on the basis of previous censuses taken there (in Transylvania and Bucovina the last census was taken in 1910, and in Bessarabia, in 1897) by the countries to which they formerly belonged.\*

It will be noted that the population increased by 2,311,154 in 11 years, an increase of 11.5 percent or 210,105 inhabitants per year. This annual increase is due to the excess of births over deaths minus the excess of emigration over immigration.

TABLE VI. POPULATION OF RUMANIA FROM 1870-1930\*\*

Year	Probable population at the end of the year	Year	Probable population at the end of the year
1870	4,924,201	1913	7,351,665
1879	4,529,568	1915	7,897,311
1885	4,960,043	1919	15,741,742***
1890	5,318,341	1920	15,779,549
1895	5,635,434	1925	16,866,020
1901	6,045,352	1928	17,555,030
1910	6,966,002	1929	17,827,164
		1930	18,052,896

Table VII gives the population in 1913 and 1930 according to provinces.

\*The *Anuarul Statistic* obtained its data for the new territory from the following sources: Statistical Dictionary of Bucovina for 1922; Statistical Dictionary of Bessarabia for 1923; Statistical Dictionary of Rumania for 1915; Statistical Dictionary of Transylvania, Banat and other attached territories for 1921.

Statistics concerning the population of the acquired provinces before their annexation to Rumania are also available in a study of the Danubian Basin made by the United States Department of Agriculture: Agricultural Survey of Europe, The Danube Basin, by L. G. Michael, Technical Bulletin No. 126, U.S.D.A. 1929.

\*\**Anuarul Statistic al Romaniei*, 1930, for the 1870-1915 figures.

\*\*\**Indicatorul Statistic al Romaniei* for the 1919-1930 figures.

TABLE VII. POPULATION ACCORDING TO PROVINCES,  
1913 and 1931

Provinces	1913*		1931**	
	Population	Percent	Population	Percent
Muntenia	3,302,430	45.6	4,028,303	22.3
Transylvania			3,217,677	17.8
Bessarabia			2,863,409	15.9
Moldavia	2,139,154	29.6	2,427,498	13.5
Oltenia	1,412,905	19.5	1,519,389	8.4
Crisana-Maramuresh			1,390,243	7.7
Banat			941,521	5.2
Bucovina			853,524	4.7
Dobrogea	(1) 380,430	5.3	811,332	4.5
Total	7,234,919	100.0	18,052,896	100.0

The only distinction between urban and rural population in the census of 1912 and 1931 is between urban and rural communes, a distinction made by the legislature in determining the administrative divisions of the country. The country is divided into prefectures and these in turn into urban communes and rural communes. An urban commune is a city, while a rural commune embraces a number of villages and hamlets, especially in the mountainous prefectures where, the population being generally scattered, villages and hamlets are more numerous than in other prefectures. This however is no real distinction between urban and rural population, for in many of the prefectures there are localities that have a larger population than some of the cities have, and yet are classified among the rural communes. In determining the classification of a commune, the legislature was guided not so much by the concentration of population as by the type of administrative organization existing in the commune.

In 1912 there were 32 prefectures with 72 urban communes and 2620 rural communes. In the rural communes were 8636 villages and 735 hamlets, a total of 9731 for both. Table VIII classifies the urban and rural communes according to the number of inhabitants. The greatest frequency occurs in the class of from 1000-1999 inhabitants. Heavily populated localities are fairly rare, only 55 communes having from 5,000 to 7,999 inhabitants.

Table IX classifies the "permanent residents" according to sex and place of habitation. The permanent residents were those who habitually lived in the communes in which they were enumerated, regardless of the fact of their presence or absence on the day of enumeration. The increase in population from 1899 to 1912 was 1,278,229 or 21.5 percent for the Kingdom, 1,073,369 or 22.3 percent for the rural communes, and 204,860 or 18.1 percent for the cities. Of the urban population, 1,116,322 were living in the capitals of the prefectures and 213,810 in other cities or towns.

\*Censuses of 1912

\*\*Censuses of 1931, Indicatorul Statistic al Romaniei.

(1) These figures do not include the population of the territory annexed in 1913. The report mentions that a special enumeration of this population was under way in 1913, but the details of this enumeration are not available for the present study. However statistics concerning the population of this territory, New Dobrogea, were obtained from the Bulgarian Statistical Office. The population of New Dobrogea, an area of 772,585 hectares, in 1910 amounted to 273,090 inhabitants.

TABLE VIII. URBAN AND RURAL COMMUNES ACCORDING TO SIZE,  
1899 and 1912 \*

No. of inhabitants	Urban communes		Rural communes	
	1899	1912	1899	1912
Below 500	:	:	:	60
From 500 - 999	:	(1)	(1)	661
From 1,000 - 1,999	:	5	4	1,414
From 2,000 - 2,999	:	5	4	538
From 3,000 - 3,999	:	10	8	162
From 4,000 - 4,999	:	7	5	47
From 5,000 - 9,999	:	17	21	27 (3)
From 10,000 - 14,999	:	9	8	1 (3)
From 15,000 - 19,999	:	7	8	:
From 20,000 - 29,999	:	4	7	:
From 30,000 - 39,999	:	1	1	:
From 40,000 - 49,999	:	2	0	:
	:	:	:	:

TABLE IX. POPULATION IN URBAN AND RURAL COMMUNES ACCORDING  
TO SEX, 1912 \*\*

Communes	Number of inhabitants			
	1899		1912	
	Total	Total	Male	Female
The Kingdom	5,956,690	7,234,919	3,655,573	3,579,346
Rural communes	4,831,418	5,904,787	2,953,970	2,950,817
Urban communes	1,112,272	1,130,132	701,603	628,529
	:	:	:	:

Returns from the 1930 census show an increase due to political and administrative changes in the number of prefectures to 71, of rural communes to 15,201 and of urban communes to 172. The total rural population was 14,420,718 and the urban population 3,632,178. Some idea as to the shift in distribution of population between rural and urban communes in the last 10 years can be obtained from Table X.\*\*\*

\*Population censuses of 1899 and 1912.

(1) Below 2,000 inhabitants

(2) In 1912 the classes were 5,000-7,999 and 8,000-10,000; there were 55 communes in the former and 4 in the latter.

(3) Above 10,000 inhabitants.

\*\*Population censuses of 1899 and 1912.

\*\*\*For further discussion of the population of rural communes, see section F.

With regard to density of population, the 1912 census reports that in an area of 30,177 square kilometers, the number of inhabitants per square kilometer was 56.6; the number of rural inhabitants per square kilometer was 45.4 and of urban inhabitants 11.2. In 1930 the density of population in Rumania was 61.2 inhabitants per square kilometer,\* making Rumania sixteenth of the European countries, in point of density, Belgium being first with 264.7 and Norway last with 8.9. Table XI following compares the density of population in 1910, 1915 and 1930.

TABLE X. PERCENT OF URBAN AND RURAL POPULATION ACCORDING TO PROVINCES \*\*

	1920 (1)		1930	
	Urban	Rural	Urban	Rural
Old Kingdom	18.6	81.40	22.1 (2)	77.9 (2)
Bessarabia	14.5	85.49	12.9	87.1
Transylvania	18.44	81.56	17.0 (2)	83.7 (2)
Bucovina	21.62	78.38	26.6	73.4

TABLE XI. DENSITY OF POPULATION IN RUMANIA, BY PROVINCES\*\*\*

Province	Area in square kilometers	Inhabitants per square kilometer		
		1910	1915	1930****
Old Kingdom	137,903	50	57	63.9
Transylvania	102,200	51	54 (3)	54.3
Bessarabia	44,422	52.8 (4)	66 (5)	64.5
Bucovina	10,442	77.1	77.7	81.7
Total of Rumania	294,967	--	--	61.2

\*The first exact measure of density of population

\*\*Anuarul Statistic for earlier data. Indicatorul Statistic al Romaniei, for 1930 data. (Condensed)

(1)The actual dates vary somewhat, that for the Old Kingdom being 1915, Bessarabia, 1922, Transylvania 1923, and Bucovina 1919.

(2)Simple averages of densities of territories making up the provinces.

\*\*\*Anuarul Statistica al Romaniei, 1929, p.18-20, for 1910 and 1915.

\*\*\*\*Indicatorul al Romaniei, p. 42 for 1930. The area of Rumania was obtained more exactly, 295,922 square kilometers, so that 1930 density statistics were more accurate than those of earlier date.

(3)In 1923.

(4)In 1908.

(5)In 1919.

The 1912 census made for the first time a detailed survey of all buildings and houses in Rumania to determine the housing conditions of the people, especially in rural parts of the country. The total number of buildings was 1,490,235, of which 1,390,495 were inhabited and 99,740 vacant. This information was also asked for in the 1930 census schedule. Of a total of 3,792,992 buildings, 560,558 or 14.8 per cent were in urban communes and 3,232,434 or 85.2 per cent in rural communes.

The composition of families was also studied in both censuses. The average household, both urban and rural, consisted of around 4.4 persons in 1912. There were 1,336,624 rural families and 299,179 urban families, making a total of 1,635,803. In 1930 the average of persons per family was still unchanged, though the total number of households increased to 3,280,361, or 79 per cent in rural communes and 862,924, or 21 per cent in urban communes, a total of 4,143,285.

In December 1912 the first census of occupations was taken in Rumania, covering only the regions of the Old Kingdom, namely, Moldavia, Muntenia, Oltenia and Dobrogea. The following simple method was used in collecting the data for this work. The information was taken from the census household lists, and classified in individual bulletins. These bulletins were used in summarizing the data on occupations, first for the communes, then for the prefectures, and finally for the whole country, thus establishing separate statistics on the occupations of the country. However, the only statistical information available is that relating to the country as a whole; it is summarized according to class of occupation, sex, age, religion, and type of community (i.e. rural or urban).

Occupations were classified as follows:

I. Gainfully employed: Entrepreneurs; managers (salaries); workmen (wage earners); apprentices; members of the family assisting in the occupation.

II. Persons without occupations (idle), including women, children, aged, and invalids.

III. Domestics (servants).

The classification of occupations according to industries was made as follows:

A. Occupations dealing with the production of raw materials, under two headings, agricultural production, and the mining industries. Agricultural production, under which were classed all agricultural workers and their dependents, was subdivided into three major groups: 1. Agricultural industries: Agriculture and rural economy in general; market gardening; viticulture; horticulture; animal husbandry; apiculture and sericulture; 2. Forestry; 3. Fishing and hunting.

B. All occupations engaged in the transformation of raw materials. Under this division there were three classes: Industry, transportation, and credit and commerce, each with various subclasses.

C. Occupations relating to public service, the army, religion, justice, education and other professions, further subdivided into groups and special occupations, according to religion, nationality, age, and sex for both the rural and urban communes of the country.

D. A separate division, D, was made for persons living on their incomes, workers by the day (casual unskilled laborers), annual laborers (certain kinds of farm hands and servants), etc., and persons with occupations unknown. These classes were in turn subdivided into many groups.

Percentages as well as numbers are given for each group in each category of the above classification.

The total population of Rumania in 1912 was 7,234,919; 4,039,262, or 55.8 percent were gainfully employed (this figure includes 113,294 domestics, or servants), and 3,195,657, or 44.2 percent were dependent. Table XII classifies the gainfully employed by age groups for all occupations together and for agriculture as a whole and by groups.

TABLE XII. CLASSIFICATION OF POPULATION IN RUMANIA BY AGE GROUPS AND AGRICULTURAL OCCUPATIONS, 1912.\* TOTAL FOR ACTIVELY EMPLOYED AND DOMESTICS. (DOES NOT INCLUDE DEPENDENTS)

Class	: Under:	: 15 yrs:	: 15-20:	: 21-25:	: 26-30:	: 31:	: 35:	: 36-40:	: 41-45:	: 46-50:
1. <u>Agriculture</u>	:	:	:	:	:	:	:	:	:	:
a. Agriculture plus	:	:	:	:	:	:	:	:	:	:
rural economy	:	2622	6370	7839	1308	4569	4326	3833	3154	9420
b. Garden culture	:	162	1312	693	897	633	784	556	556	609
c. Nursery & viticulture	:	18	970	707	1047	771	821	551	551	749
d. Horticulture	:	12	80	68	105	64	73	55	55	68
e. Cattle breeding	:	1275	4737	1731	2298	1552	2048	1450	1450	1820
f. Apiculture and sericulture	:	3	8	12	12	13	13	4	4	24
2. <u>Forestry</u>	:	24	487	502	1332	1123	1317	899	899	983
3. <u>Hunting &amp; fishing</u>	:	11	877	525	877	497	572	347	347	446
Total agriculture	:	4127	645549	385546	463511	268486	321122	205557	265112	
Total population of Rumania	:	48558	790497	552351	570292	343111	401570	261334	324995	

\*Occupation census December 19, 1912.

TABLE XIII. CLASSIFICATION OF POPULATION IN RUMANIA BY AGE GROUPS AND AGRICULTURAL OCCUPATIONS, 1912.\* TOTAL FOR ACTIVELY EMPLOYED AND DOMESTICS. (DOES NOT INCLUDE DEPENDENTS) -continued

Class	51 - 55	56 - 60	61 - 70	71 - 80	80 and over	Age unknown	Total
<u>1. Agriculture</u>	:	:	:	:	:	:	:
a. Agriculture plus rural economy	145836	213093	183413	56332	7498	1167	3106725
b. Garden culture	402	540	547	142	35	6	7318
c. Nursery & viticulture	495	608	707	254	69	11	7758
d. Horticulture	45	53	46	21	2	-	692
e. Cattle breeding	1104	1772	1881	593	134	28	22423
f. Apiculture and sericulture	10	13	16	9	6	-	143
<u>2. Forestry</u>	581	657	574	139	14	18	8650
<u>3. Hunting and Fishing</u>	247	316	382	112	35	2	5246
Total agriculture	148720	217052	187566	37582	7793	1232	3158955
Total population of Rumania	186717	260003	231493	54008	11972	2361	4039262

Figures for the gainfully employed (excluding domestics and dependents by sex, for the four main categories mentioned above were as follows:

A. Occupations producing raw materials	3,168,121 - 80.7 percent
Men	1,593,202
Women	1,574,919
B. Transportation and use of raw materials	486,619 - 12.4 percent
Men	415,153
Women	71,466
C. Public services, army and other professions	182,071 - 4.6 percent
Men	167,420
Women	14,651
D. Different occupations	89,157 - 2.3 percent
Men	45,360
Women	43,797

Total: 3,925,968 - 100 percent  
 56.6 percent Men - 2,221,135  
 43.4 percent Women 1,704,833

Class A, combining agricultural production and mining industries, embraced in 1912 eighty percent of the population. Table XIII gives figures

for the various subgroups of agricultural production by sex and according to gainfully employed, dependents, and domestics. In the group agriculture and rural economy in general there are 3,106,725 gainfully employed, by far the largest number in any group in any class. The other groups under agricultural production, though important from an economic point of view, are small numerically; even combined with the gainfully employed in the mining industries they contain only 61,396 persons.

TABLE XIII. GAINFULLY EMPLOYED, DEPENDENTS AND DOMESTICS, BY SEX, IN  
AGRICULTURAL INDUSTRIES IN RUMANIA, 1912\*

Class	Employers		Employees		Workers		Appren-	
	Males	Females	Males	Females	Males	Females	Males	Females
<u>1. Agriculture</u>								
a. Agricultural	Urban	22086	2177	781	1	7421	4004	-
and rural economy	Rural	983967	114626	7427	67	89338	76718	-
	Total	1006053	116803	8208	68	96759	80722	-
b. Garden cultivation	Urban	1530	72	4	-	1254	402	-
	Rural	1516	64	16	-	1254	144	-
	Total	3046	136	20	-	2508	546	-
c. Nursery and vine-cultivation	Urban	508	72	159	41	567	65	-
	Rural	1858	139	394	52	1609	454	-
	Total	2366	211	553	93	2176	519	-
d. Horticulture	Urban	124	8	50	-	239	36	4
	Rural	57	1	23	-	137	4	-
	Total	181	9	73	-	376	40	4
e. Cattle breeding	Urban	791	328	3	-	756	18	-
	Rural	3103	328	157	2	16133	268	-
	Total	3894	656	160	2	16889	286	-
f. Apiculture and sericulture	Urban	14	8	2	1	2	3	-
	Rural	28	17	4	-	34	29	-
	Total	42	25	6	1	36	32	-
2. Forestry	Total	765	1	5636	3	2086	155	-
3. Hunting and fishing	Total	3201	22	34	-	1392	50	-
Total 1,2,3	Urban	26205	2669	1382	44	10635	4540	4
	Rural	993343	115194	13308	123	111478	77810	-
	Total	1019548	117863	14690	167	122113	82350	4
Total population	Urban	160241	50847	175138	9977	111529	34644	19348
	Rural	1073872	129999	73824	6312	169940	88962	5321
	Total	1234113	180846	218962	16289	281469	123606	24669
								5734

\*Occupation census December 19, 1912.

TABLE XIII. GAINFULLY EMPLOYED, DEPENDENTS AND DOMESTICS, BY SEX, IN AGRICULTURAL INDUSTRIES IN RUMANIA, 1912 - continued

Class	:Members of family:				Total	Active workers		
	: assisting		:					
	Males	Females	Males	Females				
<u>1. Agriculture</u>	:	:	:	:	:	:		
a. Agricultural and rural economy	)Urban:	6306	14746	37094	20928	58022		
	)Rural:	419204	1357356	1499936	1548767	3048703		
	)Total:	426010	1372102	1537030	1569695	3106725		
b. Garden cultivation	)Urban:	171	263	2959	737	3696		
	)Rural:	181	456	2958	664	3622		
	)Total:	352	719	5917	1401	7318		
c. Nursery and vine cultivation	)Urban:	39	103	1273	281	1554		
	)Rural:	497	1201	4358	1846	6204		
	)Total:	536	1304	5631	2127	7758		
d. Horticulture	)Urban:	6	3	423	47	470		
	)Rural:	-	-	217	5	222		
	)Total:	6	3	640	52	692		
e. Cattle breeding	)Urban:	60	88	1510	434	1944		
	)Rural:	290	198	19683	796	20479		
	)Total:	350	286	21193	1230	22423		
f. Apiculture and sericulture	)Urban:	-	-	18	12	30		
	)Rural:	-	-	1	66	47		
	)Total:	-	-	1	84	59		
<u>2. Forestry</u>	)Total:	2	2	8429	161	3650		
<u>3. Hunting and fishing</u>								
Total 1,2,3	)Urban :	7144	15203	45370	22456	67826		
	)Rural :	420645	1359228	1538774	1552355	3091129		
	)Total :	427789	1374431	1584144	1574811	3158955		
Total population	)Urban :	8894	15757	475150	116258	591408		
	)Rural :	423028	1362601	1745985	1583575	3334560		
	)Total :	431922	1378358	2221135	1704833	3925968		

TABLE XIII. GAINFULLY EMPLOYED, DEPENDENTS AND DOMESTICS, BY SEX, IN AGRICULTURAL INDUSTRIES IN RUMANIA, 1912 - continued

Class	Dependents			Servants			
	: women-children-aged-sick :						
	Males	Females	Total	Males	Females	Total	
<u>1. Agriculture</u>							
a. Agricultural							
and rural economy	)Urban:	26641	45024	71845	2016	2314	4830
	)Rural:	1046751	1092239	2138990	17325	15364	32689
	)Total:	1073392	1137263	2210835	19341	18178	37519
b. Garden cultivation	)Urban:	2076	3887	5963	56	37	93
	)Rural:	1603	2291	3894	48	22	70
	)Total:	3679	6178	9857	104	59	163
c. Nursery and vine cultivation	)Urban:	641	1474	2115	77	123	200
	)Rural:	2501	3617	6118	108	76	184
	)Total:	3142	5091	8233	185	199	384
d. Horticulture	)Urban:	137	387	524	17	14	31
	)Rural:	130	260	390	13	9	22
	)Total:	267	647	914	30	23	53
e. Cattle breeding	)Urban:	915	1863	2778	95	13	108
	)Rural:	4503	7243	11746	123	102	225
	)Total:	5418	9106	14524	218	115	333
f. Apiculture and sericulture	)Urban:	6	23	29	-	-	-
	)Rural:	17	48	65	2	-	2
	)Total:	23	71	94	2	-	2
<u>2. Forestry</u>	)Total:	5869	8600	14469	357	509	866
<u>3. Hunting and fishing</u>	)Total:	4393	7719	12112	19	11	30
Total 1,2,3	)Urban:	32167	56426	88593	2350	3224	5574
	)Rural:	1064016	1118429	2182445	17906	15870	33776
	)Total:	1096183	1174855	2271038	20256	19094	39350
Total population	)Urban:	204310	466914	671224	22143	45357	67500
	)Rural:	1185161	1339272	2524433	22324	22970	45794
	)Total:	1339471	1806186	3195657	44967	68327	113294

TABLE XIII. GAINFULLY EMPLOYED, DEPENDENTS AND DOMESTICS, BY SEX, IN AGRICULTURAL INDUSTRIES IN RUMANIA, 1912 - continued

Class	:	Total			Total
		Males	:	Females	
<u>1. Agriculture</u>	:		:		
a. Agricultural economy	)Urban	65751	:	68946	134697
	)Rural	2564012	:	2656370	5220382
	)Total	2629763	:	2725316	5355079
b. Garden cultivation	)Urban	5091	:	4661	9752
	)Rural	4609	:	2977	7586
	)Total	9700	:	7638	17338
c. Nursery and vine cultivation	)Urban	1991	:	1878	3869
	)Rural	6967	:	5539	12506
	)Total	8958	:	7417	16375
d. Horticulture	)Urban	577	:	448	1025
	)Rural	356	:	271	627
	)Total	933	:	719	1652
e. Cattle breeding	)Urban	2520	:	2310	4830
	)Rural	24309	:	8141	32450
	)Total	26829	:	10451	37280
f. Apiculture and sericulture	)Urban	24	:	35	59
	)Rural	85	:	95	180
	)Total	109	:	130	239
2. Forestry	)Total	14715	:	9270	23985
3. Hunting and fishing		9572	:	7816	17388
Total 1, 2, 3	)Urban	79887	:	82106	161993
	)Rural	2620696	:	2686654	5307350
	)Total	2700583	:	2768760	5469343
Total population	)Urban	701603	:	628529	1330132
	)Rural	2953970	:	2950817	5904787
	)Total	3655573	:	3579346	7234919

There are also in the report tables which show the population of the territories and departments by urban and rural communes according to all the above-mentioned classifications. They bring out the fact that in rural communes, unlike the cities, the number of gainfully employed persons is much larger than the number of dependent or unoccupied people. The general character of work in the rural communities contracted with the division of

labor in cities accounts, to a large extent, for the small number of unoccupied persons in the villages compared with the large number of dependents in the cities. Also among the "unoccupied" are included invalids, old people, students, beggars, vagabonds, etc., whose number is very limited in rural communes. The population was also classified according to religion.

Detailed information as to the occupation census of 1930 has not yet been published. The only data available relate to the number of industrial and commercial enterprises, as follows, according to provinces:

Province	Permanent residents	Total number of enterprises	Percent of population engaged therein
Oltenia	1,519,389	14,113	0.9
Muntenia	4,028,303	57,801	1.4
Dobrogea	311,332	11,939	1.5
Moldavia	2,427,498	37,838	1.6
Bessarabia	2,863,409	36,492	1.3
Bucovina	853,524	15,999	1.9
Transylvania	3,217,677	53,699	1.7
Banat	941,521	17,990	1.9
Crisana-Maramuresh	1,390,243	20,358	1.5
Rumania	18,052,896	266,229	1.5

F. Farm Labor:

Sources of information listed in Part I are: Ministerul Agriculturii si Domeniilor, Agricultorii si Repartizarea; Ministerul Industriei si Comertului, Buletinul Statistic. Another source is the Rumanian census schedule for 1930.

There are practically no data available on farm labor in Rumania because in the Old Kingdom such labor was, with few exceptions, done by peasants living in the community. However, in Les Agriculteurs et les Repartitions des Terres Labourées en 1913, the heads of households in rural communes have been classified into three distinct groups: farmers owning their land, tenants, and agricultural wage earners or other workers (also non-landowning). In the latter classification are included artisans and tradesmen as well as officials. But since division of labor in the villages is not far enough advanced to enable artisans and tradesmen to engage in these occupations alone, the grocer, innkeeper, shoemaker, carpenter, etc., have in the majority of cases a farm. Only in more populated or industrial centers, as, for example, in the oil regions or in regions where forestry exploitation is carried on, is specialization so advanced that the industrial worker is not also an agricultural worker.

Of the 1,336,624 heads of families in rural communes in 1913, (taken to be the same as the number of households), 1,112,578 were "holders" of agricul-

tural land, either owners or tenants, and 222,271 were persons with other occupations besides agriculture. Table XIV shows the distribution by agricultural regions. Table XV makes a further classification between land owners and those not owning land. There is very little change in the column "Agricultural workers and others", so apparently very few of them own land. It is clear from the explanation given above that this is no accurate indication of the number of farm laborers since some of the persons in the other occupations would be more likely to hire than be hired, and some farm laborers come from the "farmers" class itself. Table XVI compares the rural population in 1860 and 1913. There are no similar data for the postwar period, but the situation changed very little.

When returns from the 1930 census are published there will be more definite information. With regard to permanent labor employed in agriculture, the 1930 census asked, as recommended for the world census by the International Institute of Agriculture, the number of laborers according to sex, age (those under and those over 15 years of age), and whether they were members of the family or not. Farm wages are discussed in section I.

TABLE XIV. RURAL POPULATION IN 1913

			Number of heads:			
	Heads of	Number of	of families		Percentage	
	families in	Agriculturalists	with no agricultu-			
	Rural Communes	with property	tural property	Farmers	Others	
The Plain of	300,748	249,642	51,106	83.0	17.0	
Siret and Prut						
(10 prefectures)						
The Carpathes	256,057	116,072	39,985	74.4	25.6	
of Moldavia						
(4 prefectures)						
The Carpathes	410,972	341,396*	69,576	83.1	16.9	
of Muntenia						
(6 prefectures)						
The Plains of	409,588	364,777	44,811	89.1	10.9	
the Danube						
(8 prefectures)						
Dobrogea	57,434	40,691	16,793	70.8	29.2	
(2 prefectures)						
Rumania	1,434,849	1,112,578	222,271*	83.3	16.7	

\*This number comprises also the cultivators of vines or fruit trees who are engaged only in these types of agriculture. Their number is 10,805 for the entire country.

TABLE XV. RURAL POPULATION IN 1913 ACCORDING TO ECONOMIC STATUS

Prefectures	Heads of Families				Percent			
	Not owning land		Total		Not owning land		Total	
	Land- owners	Inde- pendent	Agricul- tural (owners: workers)	Total	Land- owners	Inde- pendent	Agricul- tural (own- ers, etc.)	Total
The Plain of Siret and Prut (10 prefectures)	213,726	35,916	51,126	87,042	71.1	11.9	17.0	28.9
The Carpathes of Moldavia (4 prefectures)	109,461	6,611	40,285	46,896	70.0	4.2	25.8	30.0
The Carpathes of Muntenia (6 prefectures)	313,457	27,939	70,647	98,586	76.1	6.8	17.1	23.9
The Plains of the Danube (8 prefectures)	299,309	65,468	45,132	110,600	73.0	16.0	11.0	27.0
Dobrogea (2 prefectures)	31,944	8,747	16,856	25,603	55.5	15.2	29.3	44.5
Rumania	967,897	144,681	224,046	368,727	72.4	10.8	16.8	27.6

TABLE XVI. AGRICULTURAL POPULATION IN 1860 and 1913

Agricultural regions	Number of proprietors (heads of families)			
	1913	1 8 6 0		
		Owners	"Clacas"	Total
N U M B E R				
The Carpathes of Muntenia and Oltenia	339,483	88,866	148,902	237,768
The Plain of the Danube	299,309	22,000	139,190	171,190
Muntenia and Oltenia	638,792	110,866	288,092	408,064
P E R C E N T A G E				
The Carpathes of Muntenia and Oltenia	76.2	32.0	53.2	85.7
The Plains of the Danube	73.1	11.6	78.6	90.2
Muntenia and Oltenia	74.2	23.7	65.8	87.5

\*Peasants subject to servile dues.

TABLE XVI. AGRICULTURAL POPULATION IN 1860 and 1913 - continued

	Tenants		Agricultural laborers and other hands		Total	
	1913	1860	1913	1860	1913	1860
	N U M B E R					
The Carpathes of Muntenia and Oltenia	34,596	1,371	72,438	38,385	446,517	277,524
The Plain of the Danube	65,468	1,609	45,132	16,947	16,947	29,746
Muntenia and Oltenia	100,064	2,980	117,570	55,332	55,332	307,270
			P E R C E N T A G E			
The Carpathes of Muntenia and Oltenia	7.8	0.5	16.0	13.8	100.0	100.0
The Plains of the Danube	16.0	0.8	10.9	9.0	100.0	100.0
Muntenia and Oltenia	11.7	0.6	13.6	11.9	100.0	100.0

#### G. Vital Statistics

The sources listed in Part I are Ministerul Industriei si Comerciului, Anuarul Statistic al Romaniei; Ministerul Industriei si Comertului, Buletinul Statistic. Another official source is Ministerul Agriculturei si al Domeniilor, Miscarea Populatiunii Romaniei in anii 1901-1903. Serviciul Statisticei.

Vital statistics in Rumania are available back to 1881 for births, to 1890 for marriages, to 1893 for divorces, and to 1880 for deaths. How the data were collected in the earlier years is not stated in the material available to the writer. In 1903, however, an act was passed requiring automatic registration of all births, marriages, and deaths in the registrar's book. The data from these books, reported monthly to the Bureau of Statistics, were published regularly until 1915 when interrupted by the World War. In 1919 publication of vital statistics was resumed (the 1915 figures were published then). Whether there was any change made in the method of obtaining and collecting them cannot be ascertained from material available to the writers.

The annexation of new territories has brought some confusion into Rumanian vital statistics. To show the effect of the increase in population in 1913 on the birth rate, death rate, number of marriages, etc., the statistical service has prepared tables summarizing vital statistics for the period 1904 to 1913 when the Old Kingdom of Rumania was composed of 32 districts, and for the later period when the number of districts was increased to 34. Differences in administration and organization of the civil state in the newly acquired provinces make the statistics for these not entirely comparable with the statistics for the Old Kingdom. For purposes of such statistics, the population is classified as to "civil status" under the following headings: Boys

under 18 years of age or girls under 15 years of age; unmarried persons; married persons; widowers or widows; divorced persons; persons with status unknown.

### Births

Reliable statistics on births date back to 1881. From that year on yearly statistics up to 1929, with the exception of the years 1916-1918, are available in the *Miscarea Populației României*, published by the Bureau of Statistics, and the *Anuarul Statistic*. Detailed information with regard to births is given in these publications. Live-born children are classified according to month of birth, sex, and parents, religion, and "civil status", for urban and rural communes, prefectures, and provinces. Legitimate live-born children are also classified according to priority of birth and duration of the marriage of the parents. The 1929 *Anuarul Statistic* gives the number of births for the years 1907 to 1928 according to sex and legitimacy or illegitimacy, and for the years 1910-1928, according to religion of parents. The number of births in urban and rural communes for the years 1901-1929 and the excess of births over deaths in urban and rural communes for the years 1905 to 1929 are available in the 1930 *Anuarul Statistic* which also gives the number of births according to sex for the years 1907 to 1929, and the excess of births according to sex for the years 1910 to 1929. The birth rate for Greater Rumania, calculated by dividing the number of births for the period by the number of inhabitants was 40.8 per 1000 for the years 1904-1913. After the War, 1920-1924, it dropped to 36.4, and in 1925 to 35.5. The excess of births over deaths per 1000 inhabitants has varied in the years 1905 to 1915 from 12.9 (1908) to 20.5 (1912); in 1919 there was no excess, the cities even showing an excess of deaths over births of 14,000. Since the war the rate of growth has varied between 11.9 (1927) and 15.3 (1921).

### Marriages and divorces

Detailed statistics on marriages are to be found in the same sources as those on births. Marriages are classified for urban and rural communes, prefectures, and provinces by months, according to age, religion, education, occupation, "civil status", and number of legitimate children of former marriages of husband and wife. Among the religions listed in the 1929 *Anuarul Statistic* were Orthodox, Greek Catholic, Protestant, Mohammedan, Armenian, Russian Schismatic, etc. Data concerning divorces are available for 1893 and following years, but there is no information concerning the method of collection. Classification of divorces is made according to religion, occupation, "civil status", duration of marriage (7 groups), and age (very detailed) of husband and wife, for urban and rural communes, prefectures, and provinces. The 1929 *Anuarul Statistic* presents figures for 1904-1908 and 1922-1926.

### Deaths

Official death statistics have been available since 1880. They are classified according to sex, age, and "civil status" for urban and rural communes, prefectures, and provinces. The grouping of deaths by ages is carried into great detail in *Miscarea Populației*, in which there are 14 age groups in contrast to 5 found in the *Anuarul Statistic* from 1924 on; these 5 are divided

into those less than 1 year, 1-5 years, 5-20 years, 20-40 years and above 40 years.

A description of the causes of deaths in Rumania may also be found in the *Miscarea populatiunii Romaniei*. During the period 1890-1903, for which information is available, these causes were unsystematically classified due to the inefficient organization of the sanitary service. This partly explains why the causes of death in the rural communities are not classified in the official statistical books. Another reason for the imperfect classification was lack of a uniform nomenclature for disease - a fact which has brought much confusion in the recording of deaths in the registrar's books. In 1903 the classification of diseases consisted of 45 categories, which included organic diseases mostly, with 2 categories in the last part of the scale embracing all undesigned and unknown diseases.

Deaths are classified by sex and according to causes of death for the four historical divisions of the Old Kingdom only. Twelve of the most important diseases are medically analyzed for statistical purposes and comparisons are made with other diseases which ravage the urban population. These twelve are as follows: Typhoid fever; measles; smallpox; scarlet fever; diphtheria; dysentery; syphilis; tetanus; gastro enteritis; marsh fever; pellagra; alcoholism. The death rate per 1000 inhabitants in urban and rural communes is also given.

#### H. Land Utilization

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Directiunea Statisticei Generale, Inventarul Mosiilor Statului; Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, *Progrès de la Dobrodja, Réponse Officielle, Statistica Pădurilor Statului, Statistica Viilor, and Statistica Agricola*; Ministerul Agriculturei si Domeniilor, *L'Agriculture en Roumanie, Statistica Agricola, and Buletinul Agriculturei*; Ministerul de Industrie si Comert, *Correspondance Économique Roumaine*; Ministerul Industriei si Comerciului, *Anuarul Statistic, La Roumanie Économique, and Buletinul Statistic*.

Other official sources on land utilization are Ministerul Agriculturei Industriei, Comerciului si Domeniilor; *La Roumanie, 1866-1906*; Ionescu-Sisesti, George, *Structure Agraire et Production Agricole de la Roumanie. Édition du Service des Publications du Ministère de l'Agriculture*; Chiritescu-Arva, Marin and Petrova, *Evd. Zonele de Cultivare si Productiune ale Principalelor Plante Cereale in Diferitele Regiuni din Tara, Statistica Padurilor, 1907 and 1922*.

Statistics of land utilization date back to 1860. At that time the land (Plains of Seret and Prut and of the Danube, and Carpates of Moldavia and of Wallachia and Dobrogea) was classified according to use as follows: Arable land; vineyards (without orchards); meadows; pastures; forests; buildings and yards; lakes, ponds, roads, unused land.

The next period for which statistics are available is 1901-1905. From then on figures have appeared in the *Statistica Agricola*. They were based until 1915 on statements made by landowners as to the use to which their land was put. Such a method, really a census, was possible then because landownership was not broken up as it is now. Landowners were few with large holdings. The information in the statement or schedule of each landowner was entered on

a roll from which the statistics were compiled.\*

The classification of land for the period 1901-1905 was the same as for 1860 except that roads together with railroads formed a separate classification as did unused land. Detailed definitions of the classes are not given. There is, however, a general discussion of meadows and pastures.\*\* Meadows were divided into two categories; natural and artificial. Pastures were also classified into two groups, permanent and temporary. The temporary pastures were mostly arid lands which the farmers allowed to remain fallow once in three years. Detailed information on pastures in the Old Kingdom of Rumania may be found in the Statistica Recoltelor din Toamna Anului 1901. The distribution of the arable land for the period 1901-1905 according to the acreage of crops planted is given in Section J.

A detailed analysis of forest areas in Rumania for the same period can be found in Statistica Padurilor, 1907,\*\*\* published by the Ministry of Agriculture, Industry, Commerce, and Domains. The forest area was classified according to ownership as follows:

1. The State	1,065,528	hectares or 38.6	percent	
2. Public institutions	125,925	" " 4.6	"	
3. Domains of the Crown	71,401	" " 2.6	"	
4. Individuals	1,492,341	" " 54.2	"	
Total:	2,755,695	" " 100.0	"	

In the above total area (20 percent of the total area of the country) were included the open grassy spaces of the interior of the forests. The area belonging to The State included all other empty spaces which, according to the statistics in 1907, represented almost 15 percent of the total forest area.

Another classification of forest areas was as follows: Empty spaces; unexploited areas; exploited areas or areas in the course of exploitation.

The principal tree species in the forests of Rumania were classified as follows: Resinous; beech trees, only, or <sup>together</sup> with resinous trees; mixed species (beech, oaks, others); oak trees only, or predominating; deal wood (poplar, willow, etc.); locust trees.

The report gives no explanation of the method of collection of the above data. The Bureau of Statistics, however, has stated\*\*\*\* that the true method used was only approximate, and that no prewar survey gave a true picture of forest areas in Rumania, since the data, based in large part on valuations, were inaccurate.

Data for the period 1906-1911 and 1911-1915, are not available here. The Statistica Agricola for 1911-1915, however, contains information on the cultivated area in relation to the total area of the country; on division of land according to use and of arable land according to crops; in the various administrative regions; on large and small holdings; and on different weather conditions covering loss of crops together with amount of such losses.

After the War land utilization statistics continued to be published in the Statistica Agricola. The prewar method of collecting data on land under

\*Information supplied by Bureau of Statistics (See section A).

\*\*Statistica Agricola, 1906.

\*\*\*Statistica Padurilor, Bucharest, 1907. (Official publication of the Ministry of Agriculture, Industry, Commerce, and Domains.)

\*\*\*\*In answer to inquiry. See p. 83.

cultivation from a census by landowners was given up because, with the breaking up of the large estates, this was too long and too costly a procedure.\* The first survey after the War was made in 1919. The data were collected by communes, as explained in section A. Where large estates were left, the owners were asked to state on schedules sent them for the purpose the various uses to which their land was put. For the small holdings this information was collected by the local administrative officials. There has been little change in the method, not very precise, of obtaining the area of cultivated land. The Rumanian Statistical Department Act of 1925 stipulates that data relating to postwar land and agriculture are to be collected by a committee in each commune (see section N) consisting of a representative of the public administration, the priests, the school teachers, etc. This provision, however, has not yet been carried out.\*\* The data are still collected by some one of the communal authorities. In Transylvania and Bucovina the data thus obtained are checked with the land survey registers there available.\*\*\* In 1925 the Bureau of Statistics made a new classification of land as follows:

- I. Arable land
  - 1. Grain.
  - 2. Artificial meadows and other forage crops.
  - 3. Other crops and fallow land.
    - A. Alimentary crops
    - B. Industrial crops
    - C. Fallow land
- II. Natural meadows and pastures
- III. Trees and vines
- IV. Woods and forests
  - V. Unproductive lands and waters

The annual reporting of area occupied by vineyards, gardens, natural meadows, forests, and pastures was given up at this time because these areas do not vary much from year to year, and because collecting the necessary data involves more hard work and difficulties than are required to estimate the arable land. Data on these areas will be collected in the 1930 agricultural census, and every five years thereafter.

Forest areas fall into two classes, those under state supervision and those privately controlled. The first class - over half the total area - includes state-owned forests, forests owned by public institutions, and some privately owned forests. Up to 1930 the administration, exploitation, and reforestation were regulated by the Casa Padurilor (Forestry Board) in the Ministry of Agriculture, according to the provisions of the Forest Code of 1910. In 1921 a survey was begun which was completed in 3 years. The heads of each forest district, aided by communal officials, collected the data. The results of this survey are available in Statistica Padurilor in 1922, published in 1925 by the Casa Padurilor. The material was divided into 3 parts, volume 1 dealing with forests administered by the State, volume 2 with forests of public institutions, and volume 3 with privately owned forests privately administered. The name and wooded area of each forest is given, the area of meadows and unwooded mountains within the forests, the different kinds of trees which grow in the forests, their growth by age groups (0-20, 21-40, 41-60, 61-80, 81-100, over 100 years), and, for state forests and those owned by public bodies, the areas

\*Bureau of Statistics in answer to inquiry. See p. 83.

\*\*See footnote, Section A, p. 80.

\*\*\*Bureau of Statistics in answer to inquiry. See p. 83.

exploited up to 1922. All statistical data given in official statistical publications since 1925 are extracts from this source.

This survey however did not correspond to the actual facts at the time it was finished, nor has it been revised since, due mainly to the land reform which is still going on, causing many changes with regard to ownership and area of wooded land. Under the Land Reform Act of 1921 in Bessarabia, privately owned forests owned by certain public bodies and by absentees have gradually passed to the state; and the constitution of 1923 provided for the expropriation of more than 500,000 hectares of wooded land for use by peasant owners and for communal forests and pastures. Then too the reform of state administration in 1926, which modified the areas and boundaries of the prefectures, made obsolete that part of the survey showing distribution of forests by prefectures, and percentage of wooded area compared with the number of inhabitants in each prefecture.

In 1930 a new bill for the administration of State forests was passed, putting the management and exploitation of State forests under the Institute of State Forests, called CAPS, created for this purpose, and enjoying technical, financial, and administrative autonomy; thus were separated definitely the forests owned and operated by the State and those under State regulation.

CAPS has made an inventory of the State forests. The acreage, kind of trees, value of land, value of standing trees, and age are recorded for every part of each forest by means of maps, surveys, detailed sketches, etc., which are attached to the inventory cards. These cards are tabulated for each of the fourteen forest districts by the district administrations and then sent to CAPS where they are tabulated for the whole country. A similar method was used for collecting information on saw mills, forest railways (narrow-gauge), buildings, and other properties under the forest service.

The area of unproductive land, buildings, yards, roads, unused land, and water is not estimated or surveyed directly, but is obtained by subtracting from the total area of each prefecture the land under cultivation (including forests) together with that which is untilled and barren.\* However, the area occupied by state railways in roadbeds, depots, etc., will be obtainable from a physical survey, the results of which have not yet been published. The "water" area includes the marsh and swamp lands of the Danube, part of which are subject to inundation. Besides fishing grounds this region provides abundant grazing land protected from floods by forests which provide a natural dam, and which will eventually become an important source of soft wood. The Bureau of Statistics states that the extent of this area is estimated by experts but gives no information as to how this is done.\*\*

The following tables present figures on land utilization in Rumania, Table XVII for prewar Rumania and Table XVIII for postwar Rumania which includes Transylvania, Bessarabia, and Bucovina.

Comparison of the various years is difficult because of lack of definition of the classes, particularly in the earlier years. Arable land appears in the classification for each of the specified periods but includes different things at different times. In the years 1924-28, 1923, and 1929, when arable land included land in grain, artificial meadows and other forage crop lands, and land in other crops and fallow, the percentage of arable land ranged from 42 to 44. In 1922 fallow lands were classified separately from arable lands, fallow lands representing 6.8 percent of the total area and arable lands 35.1

\*Bureau of Statistics, in answer to inquiry. See p. 83.

\*\*Ibid.

percent. The two classes combined represent about 42 percent of the total, which is probably comparable to arable land in 1924-1929. In 1915 the classification was practically the same as for 1922, but represents the area of the Old Kingdom only. Arable land plus fallow land comprised 44 percent of the total area. For the period 1901-1905, arable land was 40 percent of the total area of the Old Kingdom, while in 1860 the percentage was only 20. This difference in relative distribution in these two periods may be due in part to differences in the categories included, but concerning this point there is no information available to the writers at this time. No comparisons can be made at present with the classifications called for in the 1930 agricultural census. The recommendations of the International Institute of Agriculture for the 1930 world census included the following under arable land: All cultivated land; fallow land; artificial meadows plowed in 1929 or one of the preceding four years. It is possible that arable plus fallow land in 1924 to 1929 is fairly comparable with the above definition recommended for the world census except in regard to artificial meadows, which may or may not be included in the class "artificial meadows" used in Rumania in 1924 to 1929.

TABLE XVII. CLASSIFICATION OF LAND ACCORDING TO USE IN THE OLD KINGDOM OF RUMANIA, 1860-1915\*  
(in hectares)

	1860 <sup>(1)</sup>		Average 1901-1905		1915	
	Area	Percent	Area	Percent	Area	Percent
	:	:	:	:	:	:
1 -Arable	2,494,220	19.9	5,236,332	39.9	5,549,280	40.2
2 -Fallow	:	:	:	:	564,803 <sup>(b)</sup>	4.1
3 -Vineyards	105,130	0.8	224,800 <sup>(a)</sup>	1.7	161,410 <sup>(b)</sup>	1.2
4 -Orchards	:	:	:	:	:	:
5 -Meadows	1,046,610	8.4	511,118 <sup>(c)</sup>	3.8	391,704 <sup>(d)</sup>	2.8
6 -Pastures	3,043,230	24.3	1,781,380	13.6	1,075,643	7.8
7 -Forests	2,225,200	17.8	2,755,755	21.0	2,497,632	18.1
8 -Buildings & yards	167,010	1.3	270,000	2.1	:	:
9 -Roads & railroads	:	:	200,000	1.5	:	:
10-Waters	:	:	307,300	6.1	854,990 <sup>(f)</sup>	6.2
11-Unused land	3,440,300	27.5 <sup>(e)</sup>	1,348,615	10.3	2,694,838 <sup>(f)</sup>	19.6
Total	12,519,700	100.0	13,135,300	100.0	13,790,300	100.0

\*La Roumanie, 1866-1906; Statistica Agricola a Roumanie, 1901, 1906 and 1915; Chiritescu-Arva, Les Zones de Culture.

(1) For five regions of the Old Kingdom: Plains of Seret and Prut, Carpathians of Moldavia, Plains of Danube, Carpathians of Wallachia and Dobrogea.

(a) Includes gardens.

(b) Orchards of plums included.

(c) Includes natural and artificial meadows.

(d) Natural meadows and pastures

(e) Includes roads, railroads, waters, and unused land.

(f) Includes buildings and roads.

TABLE XVIII. CLASSIFICATION OF LAND IN RUMANIA ACCORDING TO USE,  
1922 - 1929\*

Classification	1922		Average 1923-1927	
	Area in hectares	Percent of total area	Area in hectares	Percent of total area
Arable land	10,338,289	35.1	11,957,587	40.6
1. Cereals			10,256,952	34.8
2. Hay and forage crops			562,914	1.9
3. Other crops and fallow land			1,137,721	3.9
A. Food crops			409,025	1.4
B. Industrial crops			341,858	1.2
C. Fallow lands	1,891,800	6.4	386,828	1.3
Natural meadows and pastures	(a) 4,266,557	14.5	4,219,421	14.3
Trees and vineyards	(b) 290,022	1.1	537,105	1.8
Forest and forest wood	7,308,600	24.8	7,244,623	24.6
Unproductive land and waters	(c) 5,329,132	18.1	(c) 5,530,464	18.8
Total territorial area	29,424,400	100.0	29,489,200	100.0

Classification	1928		1929	
	Area in hectares	Percent of total area	Area in hectares	Percent of total area
Arable land	12,751,636	43.3	13,010,989	44.1
1. Cereals	10,910,496	37.0	11,222,522	38.1
2. Hay and forage crops	640,846	2.2	648,251	2.2
3. Other crops and fallow land	1,200,294	4.1	1,140,216	3.9
A. Food crops	415,278	1.4	424,529	1.4
B. Industrial crops	372,616	1.3	365,780	1.2
C. Fallow lands	412,400	1.4	349,907	1.2
Natural meadows and pastures	4,054,475	13.7	4,054,475	13.7
Trees and vineyards	613,657	2.1	613,614	2.1
Forest and forest wood	7,224,071	24.5	7,224,071	24.5
Unproductive land and waters	(c) 4,845,361	16.4	(c) 4,586,051	15.6
Total territorial area	29,489,200	100.0	29,489,200	100.0

\*Statistica Agricola, 1922. For the Old Kingdom, Bessarabia, and Transylvania. Statistica Agricola, 1927, 1928 and 1929. Partea I: Suprafetele Cultivate. For the Old Kingdom, Bessarabia, and Transylvania.

(a) Natural and artificial meadows not distinguished.

(b) Vineyards only.

(c) Includes roads, railroads, waters, buildings, yards, and unused land.

Orchards and vineyards as a separate class comprised about two percent of the total area in 1931-1929. In 1915 and 1922 orchards were designated "orchards of plums" and included vineyards; they comprised about one percent of the total area. For the period 1901-1905 there was no class for orchards, but a class for vineyards, which included gardens, was specified. This class amounted to two percent of the total area. In 1860 the vineyards without orchards comprised about one percent of the total area. The records do not indicate where orchards appeared in the classification. The recommendations for the world census include a class for orchard land used for growing trees and shrubs (not included under woods and forest lands).

Meadows and pastures appeared as one class in the period 1924 to 1929, the meadows in this case being only the natural meadows. Artificial meadows were included with arable land, as already noted. This class amounted to 14 percent of the total area. In 1915 and 1922 natural meadows and pastures were classified separately; there is no record as to the distribution of artificial meadows. Meadows in 1915 amounted to 3 percent of the total area of the Old Kingdom, and in 1922 to 5 percent of the total area of the Old Kingdom and the newly annexed provinces, while pastures in 1915 amounted to 10 percent. For the period 1901-1905 natural and artificial meadows comprised 4 percent, and pastures 14 percent of the total area. In 1860 meadows were 8 percent and pastures 24 percent. The recommendation for the world census included a class for permanent meadow and pasture and another for productive marshlands, heath lands, and other productive but uncultivated lands, and finally a class for unproductive lands.

Forest lands covered about 25 percent of the total area in 1929\*, 1924, and 1922; 18 percent in 1915, 21 percent in 1901-1905, and 18 percent in 1860. As explained above forest surveys, especially the earlier ones, were inaccurate and probably accounts for the apparent inconsistency of these figures. Estimates of total forest area for 1929 as shown in table XIX, which classifies forests according to ownership and by wooded and cleared area, and in table XX, which gives forest area according to a different ownership classification, do not agree. It is not stated in the material available how these estimates were made. Tables XXI and XXII show kinds and ages of trees in Rumania.

TABLE XIX. FORESTS IN RUMANIA ACCORDING TO OWNERSHIP, 1929\*\*

	Wooded area	Cleared area	Total area	Hec-			
	: Hec-	: Per-	: Hec-	: Per-	: Hec-	: Per-	: per
	: tares	: cent	: tares	: cent	: tares	: cent	: Inhabi-
I. State forests	: 1,904,004	: 29.52	: 149,687	: 21.83	: 2,053,691	: 28.79	: 0.11
II. Forests administered by the State	: 1,786,882	: 27.71	: 134,648	: 19.64	: 1,921,530	: 26.93	: 0.04
III. Forests of public institutions***	: 193,293	: 3.00	: 24,587	: 3.58	: 217,880	: 3.05	: 0.07
IV. Private forests with their own administration.	: 2,564,296	: 39.77	: 376,803	: 54.95	: 2,941,099	: 41.23	: 0.16
Total:	: 6,448,475	: 90.39	: 685,725	: 9.61	: 7,134,200	: 100.0	: 0.38

\*According to the Bureau of Statistics, in answer to a questionnaire, the forest area was 22 percent of the total area.

\*\*Anuarul Statistic al Romaniei, 1929, p. 37.

\*\*\*These forests are to be found only in the Old Kingdom.

TABLE XX. FOREST AREAS IN RUMANIA ACCORDING TO OWNERSHIP, 1929\*

	Hectares	Percent
State	1,942,000	29.9
Royal estates	66,492	1.0
Communes, counties	681,197	10.5
Public institutions	125,628	1.9
Churches, religious institutions	467,605	7.3
Common land	655,707	10.1
Small estates	450,566	6.9
Corporations and private	2,097,276	32.4
Total	6,486,471	100.0

TABLE XXI. FORESTS IN RUMANIA ACCORDING TO KINDS OF TREES, 1929\*

	Country's forests	State forests
	Percent	
Coniferous varieties (fir, pine, spruce, larch)	24.4	17.5
Beech	37.7	33.5
Oak	21.1	23.6
Other hard woods	7.9	17.6
Soft woods (lime, alder, willow, poplar)	8.9	7.8
Total	100.0	100.0

TABLE XXII. FORESTS IN RUMANIA ACCORDING TO AGE OF TREES, 1929\*

	Country's forests	State forests
	Percent	
0 - 20 years	33.1	29.7
21 - 40 "	18.8	18.3
41 - 60 "	13.6	11.2
61 - 80 "	11.2	10.9
81 - 100 "	10.6	11.8
Over 100 "	12.7	18.1
	100.0	100.0

From 1922 to 1929 the classification "unproductive land and waters," which includes areas for building, yards, roads, railroads, and water, etc., comprised from 16 to 18 percent of the total area. The area of rivers and of marsh lands which are being reclaimed (through canals, dams, draining, and irrigation) for use in farming and feeding, has been estimated by experts at 1,947,580 hectares, of which 1,029,620 hectares are in the region of the Rumanian Danube marsh lands. This latter area, 73 percent of which is owned by the State, is classified according to ownership and kind of land as follows:

\*Bureau of Statistics, in answer to inquiry. See p. 83.

	Land usually covered with water		Land not usually covered with water	
	Hectares	Percent	Hectares	Percent
State owned	432,250	85	292,250	56
Privately owned	74,450	15	230,670	44

In 1915 the water area (marsh land, rivers, etc.), classified separately, occupied 6 percent of the total area, while buildings, roads, etc., occupied 20 percent. In 1901-1905, when the above were classified separately, buildings and yards amounted to 2 percent of the total area, the area of roads and railroads to 2 percent, the water area to 6 percent, other unemployed land to 10 percent, making a total of 20 percent. In 1860 buildings and yards were 1 percent of the total area, while the area in roads and railroads, waters and other unemployed area, classified together, was 23 percent of the total area. As the recommendations for the world census pertain only to the classification of agricultural land, no provision is made there for these classes of land.

Table XXIII shows changes in land utilization in Rumania from 1860 to 1930. Table XXIV compares the division of land according to use in the various provinces of Rumania in 1929, while Table XXV compares this division in the United States and Rumania, using the United States classification.

TABLE XXIII. THE DEVELOPMENT OF RUMANIAN AGRICULTURE, 1860-1930\*

	Cultivated area		Trees and orchards		Meadows and pastures	
	Thousands of	Percent	Thousands	Percent	Thousands	Percent
	hectares		of		of	
	:	:	hectares	:	hectares	:
1860**	2,494	19.9	105***	0.8	4,090	32.7
1900-1904	5,163	39.5	235	1.8	2,301	17.6
1911-1915	6,114	44.3	88***	0.7	1,468	10.6
1924-1928	12,295,500	41.7	562,787	1.9	4,174,584	14.2
1930	12,857,138	43.59	613,614	2.08	4,054,475	13.75

	Woods and forests		Unproductive land		Total
	Thousands	Percent	Thousands	Percent	
	of		of		
	hectares		hectares		
1860**	2,235	17.8	3,607	28.8	12,529
1900-1904	2,756	21.1	2,617	20.0	13,072
1911-1915	2,498	18.1	3,623	26.3	13,791
1924-1928	7,241,093	24.6	5,215,236	17.7	29,489,200
1930	7,224,071	24.5	4,739,902	16.08	29,489,200

\*Bulletin d'Information et Document de la BNR, 1930. Correspondance Économique, 1930. Statistica Agricola, 1930.

\*\*Includes Southern Bessarabia but not Dobrogea.

\*\*\*Does not include Southern Bessarabia or Dobrogea.

TABLE XXIV. AREA OF RUMANIA ACCORDING TO PROVINCES FOR THE YEAR 1929\*

Classification	Bessarabia	Percent	Bucovina	Percent	Transylvania	Percent
	Area in hectares	(1)	Area in hectares	(1)	Area in hectares	(1)
Arable land	2,862,308	68.49	321,720	29.08	3,143,551	30.46
1. Grain	2,534,439	60.64	208,814	18.37	2,471,688	23.95
2. Hay and forage crops	60,766	1.46	33,554	3.49	227,753	2.21
3. Other crops and fallow land	267,103	6.39	74,352	6.72	444,110	4.30
A. Food crops	72,747	1.74	56,508	5.11	138,534	1.34
B. Industrial crops	178,440	4.27	15,850	1.43	59,184	0.57
C. Fallow land	15,916	0.38	1,994	0.18	246,392	2.39
Natural meadows and pastures	448,309	10.73	171,723	15.52	2,034,685	19.72
Trees and vineyards	148,245	3.55	7,400	0.67	137,758	1.82
Forest and forest wood	233,095	5.58	491,040	44.39	3,568,768	34.59
Unproductive land and waters	487,293	11.65	114,347	10.34	1,383,748	13.41
Total territorial area	4,179,250	100.00	1,106,230	100.00	10,318,510	100.00

Classification	Old Kingdom		Total Rumania	
	Area in hectares	Percent	Area in hectares	Percent
	(1)		(1)	
Arable land	6,683,410	48.13	13,010,989	44.12
1. Grain	6,007,581	43.26	11,222,522	38.05
2. Hay and forage crops	321,178	2.31	648,251	2.20
3. Other crops and fallow land	354,651	2.56	1,140,216	3.87
A. Food crops	156,740	1.13	424,529	1.44
B. Industrial crops	112,306	0.81	365,780	1.24
C. Fallow land	85,605	0.62	349,907	1.19
Natural meadows and pastures	1,399,758	10.08	4,054,475	13.75
Trees and vineyards	270,211	1.95	613,614	2.08
Forest and forest wood	2,931,168	21.11	7,224,071	24.50
Unproductive land and waters	2,600,663	18.73	4,586,051	15.55
Total territorial area	13,885,210	100.00	29,489,200	100.00

\*Statistica Agricola, 1929. Partea I: Suprafetele Cultivate.

(1)Percent of the total area of the province.

TABLE XXV. LAND UTILIZATION IN RUMANIA COMPARED WITH SIMILAR STATISTICS  
FOR THE UNITED STATES IN SELECTED YEARS  
(Area in acres)

Land Class	Rumania	
	1905	1927
Agricultural land	19,151,466 (a)	42,326,335 (a)
Arable land	14,751,458 (d)	30,746,975 (e)
Improved land in farms	-	-
Woodland in farms	-	-
Timber land	6,806,715	17,984,581
Pasture land in farms	-	-
Pasture land	4,400,009	6,784,161
Land in crops	-	35,542,174 (g)
Land in farms	19,681,691	49,089,605
Total area	32,444,168	72,856,849

Land Class	United States		
	1899	1909	1924
Agricultural land	-	745,770,393 (b)	799,395,460 (c)
Arable land	277,543,000 (f)	304,313,000 (f)	332,395,000 (f)
Improved land in farms	434,093,287	400,346,575	-
Woodland in farms	-	190,865,553	143,794,192
Timber land	-	-	-
Pasture land in farms	-	-	407,935,558
Pasture land	-	-	-
Land in crops	293,000,000 (h)	321,500,000 (h)	347,600,000 (h)
Land in farms	838,591,774	878,798,325	924,319,352
Total area	1,903,461,760	1,903,289,600	1,903,216,640

\*Rumania 1905: La Roumanie 1866-1906. Rumania 1927: Anuarul Statistic al Romaniei 1927. United States, 1899, 1909, 1924: United States Census Reports together with estimates made by Dr. O. E. Baker for (1) Land in crops (unpublished), (2) Pasture land (U.S.D.A. Yearbook, 1923), (3) Pasture land in farms prior to 1924 (U.S.D.A. Yearbook, 1923), (4) Timber land.

(a) Includes arable land plus pasture and fruit.

(b) Improved land in farms as reported by the United States census plus an estimate of woodland pasture and other pasture land comparable with 1924 classification. The acreage for woodland pasture in 1909 was estimated by multiplying the acreage of woodland in 1909 by the percentage of woodland pasture area to total woodland area in 1924. Similarly, the acreage of other pasture land in 1909 was estimated by multiplying the acreage of other unimproved land in farms in 1909 by the percentage of other pasture land area to total area of other pasture land and other land in farms in 1924.

Footnote continued -

In 1930, in conformity with the recommendations of the International Institute of Agriculture, a general agricultural census for the year 1929 was taken in Rumania. The schedules being communal (chestionar comun) were not distributed; instead the farmers were required to come to the city hall to be registered and to answer the questions on the schedule with respect to their own farms. Each farmer had to sign his statement; if illiterate, his fingerprints were taken. In the case of farmers owning more than 50 hectares who for one reason or another did not appear at the city hall, the necessary information was obtained through a visit to the farm by the agent. The statements of the farmers were checked by the mayors and notaries public. The period set for the collection of the data was January 10 to March 10, an interval sufficient for obtaining and checking the information. During this time the regional chiefs visited the various communes in their region, inspecting the progress of the census. On March 10 the completed schedules were sent by the communal authorities to their prefectures where the data were tabulated. The schedule used was in eight parts as follows: Name and surname of the agriculturist; permanent labor employed on the farm; area of farm; method of exploitation according to ownership; cultivated area and production in 1929; domestic animals; animal products in 1929; agricultural machines and implements.

Under area of farm there are seven subgroups: Total area of farm; area of arable land; area of natural meadows (permanent and in pastures); area of trees and vines; forest area; area of land in marshes; area of unproductive land. Group 1 included all land cultivated by the farmers in 1929. It did not include land rented to or cropped by other persons. Under group 2 were classed all cultivated (including fallow) land, noncultivated land, artificial meadows, sown land, and land not harvested. Group 7 embraced land occupied by buildings, roads, and mines, that is, land with no vegetation on it. With respect to farm area, the Rumanian census is in close agreement with recommendations made for the world census. The returns of the 1930 Rumanian agricultural census are not yet available here.

#### I. Ratios of Population to Land and of Agricultural Workers to Land

The data necessary to develop these ratios in comparison with those of the United States have not been collected for Rumania.

#### J. Crop Acreage

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Directiunea Statistica Generale, Inventarul Mosiilar Statului, and Statistica Agricola; Directiunea Vamilor, Comerciul Exterior al Romaniei; Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, Progres de la Dobroudja, Réponse Officielle, Statistica Viilor, Evaluatiunile Intinderilor, Statistica Agricola, and Statistica Recoltelor;

(c) Land in crops and pasture.

(d) Includes acreage of cereals, artificial prairies, forage crops, and fruit.

(e) Same as "d" omitting acreage of fruit.

(f) Acreage of land in crops minus acreage of wild grasses cut for hay.

(g) Acreage of arable land plus natural prairies and fruit acreage.

(h) Acreage of land in crops harvested.

Ministerul Agricultrei si Domeniilor, L'agriculture en Roumanie, Statistica Semanaturilor, Statistica Agricola, Buletinul Agriculturii, and Evaluatiunea Aproximativa; Ministerul de Industrie si Comert, Correspondance Économique Roumaine; Ministerul de Interne, Cresterea Arenzii, Anuarul Statistic, La Roumanie Économique, and Buletinul Statistic; Zaharia, Alexandru, Le Ble Roumain. Another important source is La Roumanie, 1896-1905.

The main source of information concerning crop acreage is the Statistica Agricola. Many figures on arable land and its classification according to crops are also reported in the Anuarul Statistic. Statistics are available for the periods 1901-1905, 1913-1915 and 1918-1930. The prewar figures were based on information obtained from a census of landowners. Since the War this information has been collected from the peasants by the local authorities in each commune, and verified and summarized by the chiefs of the agricultural regions, each comprising about 15 to 20 communes. Both methods are explained in detail in section H.\*

Classification of crops for 1901-1905 was as follows: 1. Grain: Wheat, rye, barley, oats, corn, millet, buckwheat; 2. textiles and oleaginous crops: Rapeseed, linseed, hemp; 3. forage crops; 4. leguminous crops: Beans, peas, chickpeas, lentils; 5. other crops: Potatoes, beets, tobacco, other crops. No explanation is given of crops included under forage crops. Meadows where hay is mowed are not included in the classification.

The classification made in 1913-1915 in the Buletinul Statistic, 1915, was somewhat more detailed than that made in 1901-1905. The first four classes were retained, individual crops in some cases being shifted from one class to another; forage crops included natural meadows (whether mowed or not is not stated), artificial meadows, lucerne, clover and forage roots, and potatoes went under dry legumes and tubers. The designation "other crops" entirely disappeared, its place being taken by the three following groups: Vegetables: Cabbage, onions, legumes, melons, other vegetables; Industrial crops: Beets, tobacco, others (lupine, chicory, sorgho, mustard, etc.); Plantations: Native productive vines, American productive vines, unproductive vines, and plum trees.

The first statistics after the War were for the year 1918. Classification of crop acreage from then until 1925 was practically the same as in 1913-15. In 1924 industrial crops and tubers were combined in one group, and a few more crops were added to various other groups. One important difference was that plantations were treated separately from 1920-1924 both in the Anuarul Statistic and the Buletinul Agriculturii. They were divided into two classes; vines in production, American or native, and replanted vines still unproductive, American or native. In 1925 the Bureau of Statistics reclassified crop acreage. This classification has been continued up to date:

1929-1930

I. Arable land.

1. Grain: Oats, wheat, corn, millet, barley, buckwheat, rye, sorgho.
2. Hay and forage crops: Lucerne (grain and forage), clover (grain and forage), other artificial meadows, root forages, millet forage.
3. Other crops and fallow.

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\*See also section A.

- A. Food crops: Beans, kidney beans, intercropped beans, lentils, peas, chickpeas, onions, potatoes, intercropped potatoes, cabbage, melons and watermelons, squash, intercropped squash, other legumes.
- B. Industrial crops: Hemp (grain and fiber), linseed (grain and fiber), rape, poppy, litmus, sugar beets, chicory, tobacco, anise, mustard, hops, cotton, other plants.
- C. Fallow land.

II. Natural meadows and pastures.

III. Trees and vines: Plum trees, other fruit trees, vines in production, young vines.

The chief differences between the 1925 classification and previous ones are that natural meadows no longer come under forage crops, but form a separate group together with natural pastures; vines, trees, and orchards are included under a separate heading; sorgho is classified under grain whereas before it came under industrial crops; and millet is reported under both grain and forage crops.

The 1928 *Statistica Agricola*, which is more detailed and includes more diagrams showing crop acreage according to different classifications than previous issues, gives figures showing the number of hectares planted to crops in the various classes described above, and averages for the years 1923-1928 by prefectures for the Old Kingdom and the new territories. It also shows the relation of arable land to the area of the prefectures and of the whole country; and the division of arable land according to large holdings (over 100 hectares) and small holdings, and according to autumn and spring sowings.

Tables XVII and XVIII in section H show the number of hectares in the various classifications from 1860 to 1929. Table XXIV, section H shows the area according to territorial divisions of the country. Figures are also available for the prefectures in each of these territorial divisions, and for Moldavia, Muntenia, Oltenia, and Dobrogea in the Old Kingdom. Table XXVI following compares the area planted to individual crops in 1901-1905 (average), 1912-1914 (average), 1924-1928 (average), and 1929. An attempt has been made to adjust the classifications of 1901-1905 and 1912-1914 to that of 1925. This cannot be done with any great degree of precision due to differences in classification during the various periods and lack of detail in data for the earlier one. Nevertheless, if one bears in mind that such a comparison cannot be exact, it is not without interest or value.

The 1901-1905 data apply to the Old Kingdom only. As explained above the class "forage plants" is not defined. Statistics for 1915 were somewhat affected by the acquisition of 310,000 hectares of land, formerly Bulgarian, of which 276,000 hectares were classified as cultivable land. No special inquiry was made, however, to determine the acreage of crops planted on this land. Most of the natural meadows in 1915 were in the mountains, with a few poor meadows in the plains of the Danube, especially Dobrogea.

In the postwar figures the acreage of natural meadows was classified under forage crops until 1925, and vines and fruit trees were treated separately until 1924, as mentioned above. The most important fruit trees in Rumania are the plum trees. Such orchards occupied an average area of about 183,389 hectares for the period 1924-1928. Each hectare averaged about 600 plum trees.

TABLE XXVI. CROP ACREAGE IN RUMANIA, 1901-1905, 1912-1914, 1924-  
1928, and 1929\* (In thousands)

Crops	Average		Average		Average			
	1901-1905		1912-1914		1924-1928		1929	
	Area	Per-	Area	Per-	Area	Per-	Area	Per-
	in	cent	in	cent	in	cent	in	cent
	hect-	(1)	hect-	(1)	hect-	(1)	hect-	(1)
	tares		tares		tares		tares	
I.Arable lands (total)	5,236	100.00	5,585	100.00	12,296	100.00	13,011	100.00
1. Grains (total)	4,904	93.63	5,158		10,508	85.46	11,223	86.25
Oats	363		444		1,140	9.27	1,211	9.32
Wheat	1,681		1,935		3,222	26.21	2,737	21.04
Maize	2,090		2,097		4,057	33.00	4,795	36.85
Millet	81	(2)	46	(2)	72	0.59	99	0.76
Barley	521		544	(3)	1,724	14.02	2,054	15.78
Buckwheat	1		1		5	0.04	4	0.03
Rye	167		94		284	2.30	313	2.40
Sorgho					4	0.03	8	0.07
2. Hay and forage crops	71	(4)	258		597	4.86	648	4.98
Lucerne (alfalfa)					103	0.84	114	0.88
Clover			72		103	0.84	126	0.97
Other hay crops			112	(5)	189	1.54	167	1.28
Forage roots			73	(6)	20	0.16	29	0.22
Forage millet			1	(6)	182	1.48	213	1.63
3. Other crops and fallow land								
A. Food crops			106		421	3.42	425	3.27
Broad beans					3	0.02	3	0.02
Kidney beans	31		50		97	0.79	80	0.62
Kidney beans (intercropped)		0.76	(552)		(783)		857	
Lentils			1	(7)	18	0.15	8	0.06
Peas	7		21	(7)	11	0.09	17	0.13
Chickpeas					1	0.01	1	0.01
Onions		(8)	4		17	0.14	20	0.15
Potatoes	11	0.52	11		191	1.56	208	1.60
Potatoes (intercropped)			(24)		(61)		(93)	
Cabbage			5		22	0.18	22	0.17
Melons and watermelons								
Squash			8		31	0.25	32	0.25
Squash (intercropped)			(9)		6	0.05	7	0.06
Other legumes			(494)		(845)		(952)	

\*Statistica Agricola, 1929, Partea I: Suprafetele Cultivate; and 1901-1905. For 1912-1914, averages were calculated from figures in the Buletinul Statistic al Romaniei, Vol. XII, No. 30-31.

TABLE XXVI. CROP ACREAGE IN RUMANIA, 1901-1905, 1912-1914, 1924-1928, and 1929\* (In thousands) - continued.

Crops	Average		Average		Average		1929
	1901-1905	1912-1914	1924-1928	1929			
	Area: in hect- tares	Per- cent	Area: in hect- tares	Per- cent	Area: in hect- tares	Per- cent	
B. Industrial plants							
Hemp	7		63		371	3.01	366 2.81
Linseed	48	3.70	26		40	0.32	37 0.28
Rape	7				21	0.17	17 0.13
Poppy					51	0.41	58 0.45
Litmus					2	0.02	1 0.01
Sugar beets	10	0.52 <sup>(8)</sup>	14		68	0.56	49 0.38
Chicory			(9)		(9)		1 0.01
Tobacco	7	0.52 <sup>(8)</sup>	10		31	0.25	31 0.23
Anise					(9)		1
Mustard					(9)		1
Hops							(9)
Cotton					(9)		(9)
Other crops	1	0.52 <sup>(8)</sup>	8 <sup>(10)</sup>		3	0.03	10 0.07
C. Fallow land					339	3.25	350 2.69
II. Natural meadows and pastures:							
Natural meadows			388		1,369		1,313
Pastures					2,806		2,742
III. Trees and vineyards:			165		563		614
Plum trees			76		183		209
Other fruit trees					114		133
Vines in production			71		229		240
Young vines			17 <sup>(11)</sup>		36		32
IV. Forest and forest wood							
V. Unproductive land and waters					7,241		7,224
Total area					5,215		4,586
					29,489		29,489

(1) In relation to arable land.

(2) Millet not separated into grain and forage millet.

(3) Barley

(4) Forage plants, for explanation see p. 123.

(5) Field cabbage.

(6) Forage crops.

(7) Peas.

(8) Potatoes, beets, tobacco, and other crops occupied 0.52 percent of arable land.

(9) Area under 500 hectares.

(10) Of this area sunflower takes 6 hectares.

(11) Unproductive vines.

Intercropping is discussed in section N. Acreage of companion crops is given in table XXVI as reported in the *Statistica Agricola* which, however, gives no further explanation with regard to intercropping.

In 1930 the first agricultural census in Rumania was taken. For details as to collection of data, etc., see the latter part of section H. Crop acreage and production were classified in part 5 of the schedule as follows:

- A. Grain. Autumn wheat, spring wheat, oats, barley, rye, millet, maize, sorgho, buckwheat.
- B. Leguminous crops, cultivated for seed. Broad beans, kidney beans, peas, lentils, other cultivated legumes for seed.
- C. Roots and tuber crops for food and for forage. Potatoes, forage roots.
- D. Grasses and leguminous forage cultivated for feed. Clover, lucerne, forage millet, other cultivated artificial meadows.
- E. Industrial crops. Sugar beets, linseed cultivated for fiber, hemp cultivated for fiber, linseed, hemp for grain, linseed grain, tobacco, hops, mustard, poppy, other industrial plants (anise, chicory, etc.)
- F. Vegetables. Cabbage, string beans, onions and garlic, green peas, tomatoes, melons and watermelons, squash, other vegetables.
- G. Plantations for seed. Sugar beet seed, clover seed, lucerne seed.
- H. Area sown but not harvested.
- I. Follow land not cultivated in 1929.
- J. Natural meadows (permanent) and pastures. (1) Natural meadows mown.  
(2) Pastures.
- K. Vineyards, bearing and nonbearing, with subclasses under each head.
- L. Trees, bearing and nonbearing. Plum trees, nut trees, cherry trees, sour cherry trees, apple trees, pear trees, apricot trees, peach trees, quince trees, mulberry trees.

The above classification in the arrangement and grouping of the crops under classes follows closely the recommendations made for the world agricultural census, which explains the slight deviation from the annual classification of crops as found in the *Statistica Agricola* for the years 1925-1930. However, the same number of crops were reported on in the latter as in the former, though, with regard to trees, the 1930 census goes into much greater detail as to kind and number of trees, bearing and nonbearing. Although the world census recommendations as to classification of crop acreage were adopted in Rumania, those with regard to the reporting of intercropped areas were not. No instructions were given in the 1930 Rumanian schedules regarding the reporting of companion crops.

The cultivated area in Rumania was estimated in 1929 as follows:

Old Kingdom	6,685,410	hectares
Transylvania	3,143,551	"
Bessarabia	2,862,308	"
Bucovina	321,720	"
Total	13,010,989	"

This is 44 percent of the total area of the country. The area of land favorable to agriculture would be put at much more than 44 percent since Rumania is a young country with fertile soils, only the best of which have been exploited. The greater part of the cultivated area since the War as well as before it, has been used for grain as shown in the following:

Grain	Artificial	Food	Industrial	Fallow	Total
Hec-tares	Per-cent	Hec-tares	Per-cent	Hec-tares	Per-cent
1914: 5,296	86.63	575	9.41	124	2.02
1924: 10,210	87.04	572	4.36	399	3.40
1929: 11,223	86.25	648	4.93	424	3.27

It is of interest to note the shift in the acreage of the four most important grain crops since the War and the agricultural reforms. Professor Chiritescu-Arva has developed detailed tables and charts showing those changes in his study listed in the bibliography at the beginning of section H. Only the summary table for the country as a whole (table XXVIIa, following) is given here. The table groups the various prefectures according to the percentage of cultivated land which is sown to wheat, maize, barley, and oats, and then gives for each group the acreage in each grain, and the percentage that acreage is of the total acreage in that grain. The number of prefectures of course has increased with the increase in territory. For wheat, group IV (wheat acreage from 35-49.5 percent of total cultivated acreage) had 62.88 percent of the total wheat acreage of the country before the reform. After the reform this percentage dropped to 39.00 and group I (wheat acreage from 0.8-15 percent of the total cultivated acreage) increased its share of the total wheat acreage from 1.02 to 10.73 percent. Group III also increased its percentage share. In the case of maize the trend has been somewhat similar, though it was group II, not group III, which increased its share of total maize acreage. The trend in barley acreage has been in the opposite direction. Group IV has increased and the others have declined. For oats group III shows the greatest percentage increase and group I the greatest percentage decline.

TABLE XXVIIa. AREA IN GRAIN IN PREFECTURES, GROUPED ACCORDING TO PERCENTAGE OF CULTIVATED ACREAGE IN GRAIN\*

WHEAT

Percentage	1905-1914			1923-1927		
of cultivated area in wheat	Number of departments	Hectares in wheat	Percentage in wheat	Number of departments	Hectares in wheat	Percentage in wheat
0.8-15	3	19,090	1.02	26	334,538	10.74
15-25	13	353,071	18.77	21	651,360	20.90
25-35	7	322,233	17.13	13	914,259	29.35
35-49.5	9	1,186,310	63.08	11	1,215,169	39.01
Total	-	1,880,704	-	-	3,115,326	-

TABLE XXVIA. AREA IN GRAIN IN PREFECTURES, GROUPED ACCORDING TO  
PERCENTAGE OF CULTIVATED ACREAGE IN GRAIN\* -continued

MAIZE

Percentage : maize	1905-1914			1923-1927			
of cultivated area in : depart- ments	Number of : in maize	Hectares : in maize	Percentage : in maize	of all land	Number of : in maize	Hectares : in maize	Percentage : in maize
Group I. 13-20	2	89,767	4.37	13	13	294,611	9.08
Group II. 20-35	8	639,820	33.57	37	37	1,517,139	46.80
Group III. 35-50	17	1,060,492	51.60	17	17	1,281,352	39.53
Group IV. 50-78	5	214,743	10.46	4	4	148,714	4.59
Total	-	2,054,822	-	-	-	3,241,816	-

BARLEY

Percentage : barley	1905-1914			1923-1927			
of cultivated area in : depart- ments	Number of : in barley	Hectares : in barley	Percentage : in barley	of all land	Number of : in barley	Hectares : in barley	Percentage : in barley
Group I. 0.4-5	13	40,653	7.57	14	14	107,578	6.16
Group II. 5-10	7	81,902	15.25	23	23	99,149	5.68
Group III. 10-15	7	104,678	19.50	15	15	250,870	14.37
Group IV. 15-34	5	309,682	57.68	19	19	1,288,390	73.79
Total	-	536,915	-	-	-	1,745,987	-

TABLE XVIIa. AREA IN GRAIN IN PREFECTURES, GROUPED ACCORDING TO PERCENTAGE OF CULTIVATED ACREAGE IN GRAIN\* - continued

OATS

Percentage of cultivated area in oats	1905-1914	1923-1927
of cultivated area in oats	Number of departments	Number of departments
	Number of Hectares in oats	Number of Hectares in oats
	Percentage of all land in oats	Percentage of all land in oats
Group I. 1-5	14	14
Group II. 5-10	9	23
Group III. 10-15	5	15
Group IV. 15-21	4	19
Total	424,253	1,164,739

K. Livestock

Sources listed in Part I are Nicoleanu, George, and Maitu, C., Amelioration des Moutons Roumains; Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, Progres de la Dobroudja, Reponse Officielle, Harta Figurativa, Numeratoarea Animalelor Domestice, Statistica Agricola, and Statistica Recoltelor; Ministerul Agriculturei si Domeniilor, L'Agriculture en Roumanie, Statistica Animalelor Domestice, and Buletinul Agriculturei; Ministerul de Industrie si Comert, Correspondance Economique Roumaine, Anuarul Statistic, La Roumanie Economique, and Buletinul Statistic. Another official source is Serviciul Statistic General Ministerul Agriculturii Comerciului, Recensamintul Animalelor din 1930.

The first census of livestock and other animals in Rumania was taken in the seventeenth century, according to the statements of the Serviciul Statistic General. No details are known about this census except that it was taken for taxation purposes. Again in the nineteenth century the Bureau of Statistics of Moldavia published yearly statistics of livestock within its borders. This was before the union of Moldavia and Muntenia in 1859 to form the Kingdom of Rumania. In the material available there are records of only three livestock censuses thereafter.\*\* The first was taken in 1859 based mostly on estimates made by the communal authorities. Lack of trained officials made this a difficult undertaking. The second was taken in 1873 by the Central Statistical Office of the Ministry of the Interior, for the purpose of furnishing exact data to the French Government which at that time was publishing an international and comparative study of agriculture. The methods employed in taking this census did not vary greatly from those of the previous census. The results are not available

\*Zonele de Cultivare si Productiune ale Principalelor Plante Cereale in Diferitele Regiuni din Tara, by M. Chiritescu-Arva and Evd. Petrova.

\*\*There is no mention in it of the census of 1916 referred to in section A.

here. Neither of these censuses gave a true picture of the livestock in the country due first to the method of estimates used for the enumeration of the animals, and second to the fact that the commission in charge of the enumeration made its estimates on animals in the villages only, excluding from the study the capital of the country, Bucharest.

The livestock census of 1900 differs in many respects from the former censuses. The end of autumn was chosen as the best period for taking it, for at that time animals rented out for the summer work are on the home farm, and herds and flocks are back from the mountains where they are pastured in the spring and summer months. Taking the house as the basic unit, agents visited each one and registered all animals belonging to the family, even in cases where the people were absent from their homes. No information is given as to the method used in counting herds still in the mountains, nor are explanations available on measures taken to avoid double counting of animals. The enumeration was completed in 3 days by a committee of communal authorities, including the teacher and the priest, and a printed questionnaire recorded the numbers of animals owned by each family. The data were summarized in tables giving the number of families, the occupation of the head of the family, and the number of animals on the farm or belonging to the household. The classification of animals in Rumania in the census of 1900 as in the earlier censuses was made along biological lines. The following groups of animals were included.

- I. Horses. Stallions, geldings, mares, and foals.
- II. Oxen. Bulls, oxen, cows for milking, other cows, young oxen and heifers, calves, and buffaloes (male, female, and calves.)
- III. Sheep. Ewes, sterile ewes, lambs two years old.
- IV. Goats. Male goats, female goats.
- V. Pigs. Boars, sows, young pigs, sucklings.
- VI. Mules and asses.
- VII. Hives of bees. Native beehives, other beehives.
- VIII. Area of pastures. Permanent pastures, temporary pastures.

Figures on the above classification of animals by groups and classes are given in general tables for the capitals of the departments of the country, for the cities (urban communes) and for the rural communes separately, by sex and according to the following ownership groups: Large landowners (Proprietarii); livestock raisers and livestock dealers or buyers; farmers, owners of their land; agricultural laborers without land; merchants and professional men; transport workers; public institutions; other occupations. Other tables show: The proportion of each class of animal per occupation group by prefectures; the prices, wholesale, retail and average, of oxen, cows, etc.; the production of cheese and wool, the average yield, and the average sale for each prefecture; imports and exports of animals during the year.

No effort was made, however, to ascertain the ages of the animals. In the appendix to the 1900 census publications are general tables showing the average weight of oxen, cows, and calves destined for slaughterhouses in the capitals of the prefectures. These data were communicated to the Statistical Office by the veterinarian of each city. Weights were recorded in kilograms for both live and dressed animals under the three following categories: Animals not fattened; animals fed in pastures; animals fed at distilleries (velnita). For purposes of comparison the Rumanian Statistical Office reduced all animals to a unit basis. The following scale, used by the Central

Commission of Statistics of Austria, was adopted for this purpose: Horses, oxen, asses - 1 unit; sheep, goats, pigs - 1/10 unit.

According to the Rumanian Bureau of Statistics\*, before the War live-stock censuses were taken every 10 years. As stated above, however, there is no record available here of any censuses after 1900 until 1930. But although no census in the strict meaning of the term was taken, estimates of numbers of livestock have been published annually since the War. In comparing these estimates with the 1900 figures, it should be remembered that the latter apply to the Old Kingdom consisting of Moldavia, Muntenia and Dobrogea, whereas the former refer in addition to the territories acquired by Rumania since 1900.

In 1919 the annual statistics of domestic animals in Rumania were published in the *Statistica Animalelor Domestice din Regatul Roman*, an extract from the *Buletinul Agriculturii*. The Ministry of Agriculture collected the data from the various services, consisting mostly of agricultural advisers, regional agriculturists in the prefectures, and agricultural agents in the provinces of the country. The *Statistica Generala a Vitelor din Romania pe Anul 1920*, in which the 1920 livestock statistics were published, does not give any specific information as to the means of enumeration of livestock in the farm districts. It contains many tables with French translations, but the information is available only for the Old Kingdom. Not until 1921 were Bessarabia, Transylvania, and Bucovina included. Since 1921 the annual statistics of livestock have been published by the *Directiunea Generala a Indrumarilor*, in the Ministry of Agriculture and Domains. From 1921-1927 this publication was issued under the title *Animalele Domestice din Romania*, but since 1928 it has appeared as *Statistica Animalelor Domestice*.

Estimates of numbers of livestock are based on direct inquiries made by communal officials as to the number of each kind of farm animal in the commune. Up to 1931 the communal returns were summarized by the prefectural agricultural services, and the summaries alone sent to the Ministry of Agriculture. In 1931, however, the schedules were merely checked by the prefectural services and then sent on to the Division of Surveys and Statistics of the Ministry of Agriculture to be compiled. This change permits a stricter control over the data sent in. The results, checked with those obtained by regional agronomists and other experts, are not exact, as the Statistical Bureau admits, but it does maintain that they are reasonably reliable, considering that the communal authorities have considerable information regarding taxes, sales, etc.

This method, however, does not allow the collection of elaborate and detailed information on domestic animals. Livestock is classified according to species and sex for urban and rural communes and for the prefectures of Transylvania, Bessarabia, Bucovina and the Old Kingdom, with separate figures for Moldavia, Muntenia, Oltenia and Dobrogea; there is no classification according to age or according to varieties within the species. The species classification used is as follows\*\*:

1. Equine. Stallions, geldings, mares and colts.
2. Bovine. Bulls, oxen, cows (milking), cows (farrow), and calves.
3. Buffalo. Milking buffaloes, sterile buffaloes, buffalo calves.
4. Ovine. Rams, sheep, lambs.

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\*In answer to inquiry. See p. 83. Much of the following discussion of methods of collection and estimates is based on this.

\*\**Statistica Animalelor Domestice*, 1930.

5. Goat. Goats, male and female, kids.
6. Porcine. Boars, sows, young pigs.
7. Mules.
8. Asses.

This is almost the same as the 1900 classification. Some classes are subdivided in greater detail and others in less. Table XXVII compares the number in each class in the various parts of the country in 1929. According to the report from which these figures were taken, the greatest number of stallions is found in Transylvania, and the smallest in the Old Kingdom; only 5 percent of the oxen are in Bucovina where the agricultural work is done exclusively by horses, while 50 percent are in the Danubian plains where the work is mostly carried on by oxen. As for cows, the proportion of milk cows to farrow is 3 to 1. Table XXIX shows the number of each species in urban and rural communes in 1928. In the cities sheep are numerically the most important group, but relatively pigs are more important.

TABLE XXVII. NUMBER OF DOMESTIC ANIMALS IN RUMANIA BY PROVINCES,  
1929\*

	Species			
	Equine	Bovine	Buffalo	Ovine
Old Kingdom	961,808	2,179,328	35,191	7,208,143
Bessarabia	429,698	467,174	5	2,056,576
Bucovina	83,742	203,810	18	255,555
Transylvania	483,261	1,484,129	151,392	2,836,154
Rumania, 1929	1,958,509	4,334,441	186,606	12,406,428
Rumania, 1921	1,686,728	5,520,914	200,256	11,194,047

	Species			
	Goat	Porcine	Mules	Asses
Old Kingdom	196,012	1,231,560	1,175	6,837
Bessarabia	10,820	311,619	34	726
Bucovina	5,171	94,838	13	17
Transylvania	160,804	774,481	730	3,058
Rumania, 1929	372,807	2,412,498	1,952	10,638
Rumania, 1921	573,900	3,159,591	2,221	10,621

\*Statistica Animalelor Domestice, 1929, 1927, p. 30.

TABLE XXVIII. NUMBER OF DOMESTIC ANIMALS IN RUMANIA IN 1931\*

Provinces	Horses	Cattle	Buffaloes	Sheep
Bessarabia	449,565	509,446	330	2,156,896
Bucovina	90,062	200,101	14	281,398
Transylvania	493,714	1,379,394	151,980	2,991,253
Old Kingdom	954,785	1,990,526	36,915	6,926,468
Rumania 1931	1,988,126	4,079,467	189,239	12,356,015
Rumania 1929	1,958,509	4,334,441	186,606	12,406,428
Rumania 1928	1,944,700	4,435,697	189,641	12,800,576
Rumania 1927	1,941,508	4,552,679	192,285	12,941,090
Rumania 1926	1,877,285	4,079,384	193,286	13,581,869

Provinces	Goats	Swine	Mules	Asses
Bessarabia	13,137	537,026	47	815
Bucovina	6,061	149,755	25	32
Transylvania	190,252	1,064,888	384	3,202
Old Kingdom	215,405	1,469,803	673	7,601
Rumania 1931	424,855	3,221,472	1,129	11,650
Rumania 1929	372,807	2,412,498	1,952	10,638
Rumania 1928	386,045	2,831,524	2,134	10,405
Rumania 1927	418,618	3,075,752	2,531	11,596
Rumania 1926	476,760	3,167,722	2,150	10,502

TABLE XXIX. LIVESTOCK IN URBAN AND RURAL COMMUNES ACCORDING TO SPECIES, 1928\*\*

Communes	Species			
	Equine	Bovine	Buffalo	Ovine
Rural communes	1,849,839	4,256,364	185,877	12,422,881
Urban communes	94,861	179,333	3,764	377,695
Total for Rumania	1,944,700	4,435,697	189,641	12,800,576

	Species			
	Goat	Porcine	Mules	Asses
Rural communes	374,450	2,684,048	1,639	8,984
Urban communes	11,595	147,476	495	1,421
Total for Rumania	386,045	2,831,524	2,134	10,405

\*Statistica Animalelor Domestice, 1931. The year 1930 has been omitted in this table, since in this year estimates as to number of animals were made for rural communes only, and the results therefore are not comparable with figures for the entire country.

\*\*Statistica Animalelor Domestice, 1928.

A comparison of results from the various censuses reveals an increase in the number of livestock up to 1921. This increase was much more rapid after the agrarian reform than before, as table XXX worked out by Dr. G. N. Constantinesco shows. Among the causes for this postreform increase, aside from the general increase of the population of the country, is the transformation of the agricultural structure of the country. The small holding calls for more livestock than the big estate. Dr. Alimanestianu is of the same opinion and says in his book *L'Organisation des Travail Agricole* that the peasant has a custom of keeping too many animals in relation to the area which he has to cultivate.

Whether a readjustment of number of cattle to area cultivated is taking place or whether hard times have caused it, there has been a decrease in number of livestock in the last decade, most marked in the case of cows, the number of which shows a decrease each year. The only species which are greater in number in 1931 than in 1921 are horses, sheep, swine, and mules. The percent changes in 1929 in relation to 1928, and 1930 in relation to 1929 are as follows:

Year	Horses	Cows	Buffaloes	Sheep	Goats	Pigs
1930 in relation to 1929.	-3.1%	-8.1%	-3.4%	-1.4%	+2.6%	+2.0%
1929 " " 1928.	+0.7%	-2.3%	-1.6%	-3.1%	-3.4%	-14.7%

TABLE XXX. INCREASE IN LIVESTOCK FROM 1897-1900 TO 1920-21\*

Increase in livestock 1897-1900			Increase in livestock 1920-1921		
Total increase for 3 years	: Percent : annual : increase		Total increase for 1 year	: Percent : annual : increase	
Horses.....	193,415	: 9.6	117,408	: 12.4	
Cattle.....	450,211	: 7.0	407,523	: 19.2	
Swine.....	629,883	: 19.4	336,540	: 32.3	
Average		: 12.0			: 23.0

In the 1928 *Statistica Animalelor Domestice*, the numbers of the various species have been reduced to equivalent animal units. Taking each large animal as one animal unit, and each small animal as 1/10 of a unit, the total number of animal units for the country amounted to 8,184,376. On this basis there were 27.7 animal units per square kilometer and 457 animal units per 1000 inhabitants in 1928. The corresponding figures for 1927 were 28 and 478; and for 1929, 27.1 and 457. The *Buletinul Agriculturii* also gives considerable statistical information on the livestock of the country and there is a great deal of agricultural literature and statistics on the species of the domestic animals and breeding of livestock in general.

The *Correspondance Economique* discusses for each species the native and imported breeds, the parts of the country in which they are bred or raised and their size and height. According to this source the mountain cow is a better milk producer than the steppe cow, and steppe oxen, larger than the mountain variety, are used mostly for plowing. The breeding of goats has not

\*Economia Nationala, 1924.

been encouraged in Rumania, but sheep are raised in considerable numbers, mostly for wool. There are few of the English mutton breed. Merinos and Frises, however, have been intercrossed with native breeds. As for pigs, the primitive local breeds, named according to the localities in which they are raised, are most important. Those in the Danubian plains, called Marsh pigs, are large, while those in the mountains, the Stocli, are smaller. Other native breeds are the Mangalitza, common in all Balkan countries, of which there are two varieties, white and black, both important in the production of lard; and the Buza, a cross between the Mangalitza, and the Berks, an imported variety.

Various measures have been taken for the encouragement of livestock breeding in Rumania. The State makes loans without interest for this purpose and maintains national studfarms for general breeding purposes, stallion depots, and national cattle-breeding, sheep-breeding, and pig-breeding farms. It also works through associations and agricultural societies organized for the promotion and encouragement of breeding. Figures and statistical information on breeding will be found in the *Buletinul Agriculturii*, 1927, 1929, and in the *Correspondance Économique*, 1926.

It will be noted that in the above discussion poultry has not been mentioned. The *Correspondance Économique* states that poultry is relatively unimportant in Rumania. This probably accounts to some extent for its omission from livestock studies. It was included in 1930, but the figures are not yet available. However, there are some figures for the year 1927 in *L'Agriculture en Roumanie*, though there is no explanation as to how they were obtained. These figures are as follows: Chickens, 32,450,000; geese, 4,200,000; ducks, 6,730,000; turkeys, 1,690,000; guinea fowls, 78,000; pigeons, 620,000.

There are also in this same source a few figures on apiculture and sericulture.

A detailed study of livestock in the country was made in the 1930 agricultural census. Part IV of the schedule dealt with domestic animals as follows:

A. Horses

- Colts under 1 year of age
- Colts from 1 to 3 years of age
- Stallions 3 years of age and over
- Mares and horses 3 years of age and over

B. Mules

- Mule colts less than 2 years of age
- Mules 2 years of age and over

C. Asses

- Asses of all ages

D. Cattle

- Calves (bulls and heifers) under 1 year of age
- Heifers and cows 1 year and over
- Milk cows
- Sterile cows
- Bulls and cows for reproduction
- Other cattle 1 year old and over

E. Buffaloes

- Calves under 1 year of age
- Young animals 1 to 2 years of age
- Buffaloes over 2 years of age, male and female.

F. Sheep

Lambs under 1 year of age  
Rams 1 year of age and over  
Ewes 1 year of age and over  
All other sheep 1 year of age and over

G. Goats

Total number of all ages

H. Swine

Young pigs less than 6 months old  
Boars for breeding, 6 months old and over  
Sows for breeding, 6 months old and over  
All other pigs 6 months old and over

I. Poultry

Hens (chickens) and young chickens  
Ducks  
Geese  
Pigeons  
Turkeys

J. Bees

Number of beehives.

This classification, very different from those formerly used, corresponds exactly with the recommendations made for the world census schedule, except that buffaloes, classed in the world census as domesticated animals peculiar to certain countries, form a separate group in the Rumanian schedule. No figures from this census are available here.

L. Ratio of Livestock to Land

The most important source of information listed in Part I is Statistica Animalelor Domestice, issued by the Ministerul Agriculturii si Domeniilor.

Information on the ratio of livestock to land, such of it as there is, is to be found only in recent issues of the Statistica Animalelor Domestice, as far as can be ascertained from the material available here. In 1927 the number of animals by species per square kilometer is given for the country as a whole. In 1930 these further figures for the various agricultural regions of the country are presented: The number of animals according to the subclasses of the different species (see table XXXI which gives totals for the species); the number of animals by species per square kilometer (see table XXXII); the number of animal units per hectare of natural meadows and pastures (see table XXXIII). There are no statistics showing the number of animals per hectare of land in farms nor per hectare of arable land.

It will be seen from tables XXXI and XXXII that the largest number of horses are found in Northern Bessarabia, and the smallest in the mountainous regions, the Carpathes of Moldavia, Muntenia, and Northern Transylvania. The number of cattle is fairly uniform for all regions except Dobrogea and Southern Bessarabia where cattle are fewer. Sheep are fairly equally distributed in Bessarabia and the Old Kingdom but Bucovina and Transylvania have considerably fewer per square kilometer.\*

\*The larger number of horses in Northern Bessarabia and of cows in Transylvania and Bucovina is due to a more intensive system of cultivation in these regions. The relatively large number of horses in Dobrogea is due to the long distances which must be traversed in this desert region.

In table XXXIII, each of the larger animals (bovine and equine species) is considered as equal to one animal unit while it takes 10 of the smaller animals (sheep, goats, pigs) to make up an animal unit. On the basis of the figures in this table, the Statistical Bureau finds that there is one animal unit per 0.56 hectares, or 18 animal units per 100 hectares of pasture or natural meadows. In Northern Bessarabia and the Danubian Plains, where the meadow area is smallest, there are 4 animal units per hectare of meadow land; in Transylvania and Bucovina where there is much pasture and meadow land, the number of animal units per hectare varies from 1 to 1.65.

TABLE XXXI. NUMBER OF ANIMALS ACCORDING TO AGRICULTURAL REGIONS, 1930\*

Region	Horses	Cattle	Buffaloes	Sheep	Goats	Pigs
Plains of Moldavia	178,471	455,922	346	1,471,657	10,290	236,886
Carpathes of Moldavia	67,179	186,768	31	745,288	12,364	101,289
Carpathes of Muntenia	136,703	508,010	524	1,449,137	97,148	363,193
Plains of Danube	303,366	528,803	15,663	1,996,323	25,944	362,594
Dobrogea	164,940	164,905	16,543	1,095,256	35,017	76,112
Northern Bessarabia	221,890	290,565	-	1,012,441	6,006	209,574
Southern Bessarabia	195,880	173,003	-	1,045,483	3,892	117,273
Bucovina	77,821	170,490	-	244,954	3,444	96,154
Plateau of Transylvania	155,421	673,085	100,908	1,552,748	52,022	316,418
Plains of Tissa	264,109	482,111	17,795	809,236	67,471	368,785
Northern Transylvania	43,431	200,471	25,198	497,979	39,247	74,693
Rumania	1,809,211	3,834,133	177,008	11,920,502	352,845	2,322,971

TABLE XXXII. NUMBER OF ANIMALS PER SQUARE KILOMETER IN AGRICULTURAL REGIONS, 1930\*

Region	Horses	Cattle and buffaloes	Sheep	Goats	Pigs
Plains of Moldavia	6.2	15.9	51.3	0.4	8.2
Carpathes of Moldavia	4.3	12.0	48.1	0.8	6.5
Carpathes of Muntenia	4.0	14.9	42.5	2.9	10.7
Plains of the Danube	8.0	14.4	52.7	0.7	9.5
Dobrogea	7.2	7.9	48.2	1.5	3.4
Northern Bessarabia	10.9	14.3	49.8	0.3	10.3
Southern Bessarabia	9.1	3.0	48.7	0.2	5.5
Bucovina	7.0	15.4	22.1	0.3	8.7
Plateau of Transylvania	3.2	15.8	31.7	1.1	6.5
Plains of Tissa	7.1	13.4	21.6	1.8	9.8
Northern Transylvania	2.6	15.3	29.8	2.3	4.3
Rumania	6.3	13.4	40.6	1.1	7.6

\*Statistica Animalelor Domestice, 1930.

TABLE XXXIII. NUMBER OF ANIMAL UNITS PER HECTARE OF NATURAL MEADOWS AND PASTURES, 1930\*

Region	Animal units
Plains of Moldavia	2.25
Carpathes of Moldavia	1.95
Carpathes of Muntenia	2.13
Plains of the Danube	4.19
Dobrogea	2.18
Northern Bessarabia	3.35
Southern Bessarabia	1.88
Bucovina	1.65
Plateau of Transylvania	1.00
Plains of Tissa	1.55
Northern Transylvania	1.00
Rumania	2.10

M. Ratio of Livestock to Population and Agricultural Workers

The most important source of information listed in Part I is Statistica Animalelor Domestice, issued by the Ministerul Agriculturii si Domeniilor.

Information on the ratio of livestock to population and agricultural workers is restricted to statistics published in the Statistica Animalelor Domestice showing the number of domestic animals per 1000 inhabitants in Rumania. In 1927 these figures were given for Rumania as a whole; in 1930 for the agricultural regions of Rumania as well. (See table XXIV.)

TABLE XXXIV. NUMBER OF DOMESTIC ANIMALS PER 1000 INHABITANTS, 1930\*\*

Region	Cattle and					
	Horses	buffaloes	Sheep	Goats	Pigs	
Plains of Moldavia	99	252	816	6	131	
Carpathes of Moldavia	85	235	939	16	127	
Carpathes of Muntenia	60	225	643	43	641	
Plains of the Danube	98	176	646	8	117	
Dobrogea	202	222	1,345	43	94	
Northern Bessarabia	123	161	565	3	116	
Southern Bessarabia	186	165	994	4	111	
Bucovina	91	200	237	4	113	
Plateau of Transylvania	62	308	618	21	126	
Plains of Tissa	120	237	367	30	166	
Northern Transylvania	51	265	586	46	88	
Rumania	100	221	661	44	129	

\*Statistica Animalelor Domestice, 1930. One head of the bovine and equine species or 10 of the other smaller species equals 1 animal unit.

\*\*Statistica Animalelor Domestice, 1930.

There is no further information as to the number of animals per capita of total population, farm, or rural population, etc., according to the available information.

#### N. Crop Production

Sources listed in Part I are the same as those given in section J, Crop Acreage, with the exception of *Statistica Semanaturilor* and *Evaluatiunea Aproximativa* which contain no data on crop production. A further source in Part I dealing with crop production is *Harta Figurativa*, issued by the Ministerul Agriculturiei, Industriei, Comerciului si Domeniilor. Other official sources are *Loi du Classement des Céréales*, published in *Moniteur Officiel*, May 1928, by the *Ministère de l'Agriculture et du Domaines*, and *ture La Roumanie, 1866-1906*, official publication of the *Ministère des de l'Agriculture et des Domaines*.

The *Statistica Agricola* is the main source of information concerning annual statistics of agricultural production. Prewar methods of collection of data are explained in sections A, H, and J. In 1919 the communes were responsible for gathering the information. On a printed table received from the Bureau of Statistics, the secretary of the mayor of each commune, assisted by the teacher, priest, head of the farm association, etc., recorded the production data for two types of farmers, the large landowners who cultivated more than 100 hectares, and the peasants or smallholders cultivating less than 100 hectares of crop land. The owners of large holdings were asked to state on individual cards the yield per hectare and the crop production for the year. The peasants simply stated their production according to kinds of crops. This information, tabulated and summarized according to the instructions given by the Bureau of Statistics, was inspected by the regional agriculturists, and then submitted to the prefectures. After a second verification, it was sent to the Bureau of Agricultural Statistics for final classification.

No information is available concerning the method employed in obtaining statistics on yields and crop production for the provinces of Bessarabia, Bucovina, and Transylvania in 1918-1919. M. Giurgea, at that time chief of the Service of Statistics in the region Chisinau, made the statistics of crop production in Bessarabia the subject of special study in 1919, but no information is available concerning his methods of collecting the data.

At present crop production statistics are based on estimates made by communal officials of the average yield per hectare, not for each farmer but for the whole district. The accuracy of the results depends upon the training and conscientiousness of each individual official, as the yields are estimated quite empirically. The data thus obtained are sent to the agricultural statistics subdivision of the Ministry of Agriculture where they are checked with figures obtained by the regional agriculturists and other experts.\*

Table XXXV following gives averages of crop yields and production for the years 1912-1914 and 1927-1929. Production of many of the crops fluctuated widely during these periods.

Until 1925, though the production of some crops was reported according to weight in metric quintals, or by the piece, that of most crops was reported in hectrolitres per hectare.

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\*Bureau of Statistics, in answer to inquiry. See p. 83.

TABLE XXXV. PRODUCTION OF CROPS IN RUMANIA 1912-1914 and 1927-1929<sup>X</sup>  
(In thousands)

Crops	(1)			(1)		
	1912-1914		In quintals	1927-1929		In quintals
	Total production	Average yield per hectare		Total production	Average yield per hectare	
I. Arable land						
1. Grain (2)						
Oats	9,506*	21.2*		10,693	9.3	
Wheat	59,346*	13.8*		28,307	9.4	
Maize	37,722*	8.0*		42,252	9.3	
Millet	523*	11.6*		692	7.9	
Barley	8,709*	16.0*		18,377	9.7	
Buckwheat	5*	7.6*		30	6.0	
Rye	1,087*	11.5*		2,885	9.7	
Sorgho				124	17.1	
2. Hay and forage crops						
Lucerne (forage)				3,817	33.9	
Lucerne (grain)				42	0.5	(3)
Clover (forage)	2,906	42.4		3,696	29.0	(3)
Clover (grain)				402	0.9	(3)
Other hays	2,921	25.9		3,685	21.5	
Forage roots	121 <sup>(4)</sup>	140.2 <sup>(4)</sup>		3,679	143.9	
Forage millet				4,060	20.2	
3. Other crops and fallow land						
A. Food plants						
Broad beans	124*	.3*		29	9.9	
Kidney beans	531*	10.5*		575	6.7	
Kidney beans (intercropped)	1,368*	2.5*		1,253	1.5	
Lentils	6*	7.3*		98	7.1	
Peas	304*	14.1*		139	9.9	
Chickpeas				8	5.6	
Onions	227	59.5		1,034	54.8	
Potatoes	809	73.3		20,878	102.4	
Potatoes (intercropped)	277	12.4		1,404	20.5	
Cabbage	380 <sup>#</sup>	89.0 <sup>#</sup>		3,253	144.2	
Melons and watermelons						
Melons and watermelons	178 <sup>#</sup>	21.3 <sup>#</sup>		2,555	240.3	
Squash	4 <sup>#</sup>	12.4 <sup>#</sup>		410	61.8	
Squash (intercropped)	1,556 <sup>#</sup>	3.2		13,108	14.0	
Other legumes	409	6.6		711	29.7	
B. Industrial plants						
Hemp (grain)	33*	6.4*		65	1.7	
Hemp (fiber)	16	3.2		175	4.6	
Flax (seed)	177*	11.0*		64	3.4	
Flax (fiber)	24	1.1		23	1.2	

TABLE XXXV. PRODUCTION OF CROPS IN RUMANIA 1912-1914 and 1927-1929<sup>X</sup>  
(In thousands) - continued

Crops	(1)		(1)	
	1912-1914		1927-1929	
	Total production	Average yield per hectare	Total production	Average yield per hectare
In quintals				In quintals
Rape				273 : 5.0
Poppy				12 : 4.7
Litmus				1,286 : 8.0
Sugar beets	2,665	190.9	10,676	171.4
Chicory	17	159.0	64	134.6
Tobacco	74	7.4	206	6.9
Anise				3 : 5.8
Mustard				2 : 3.5
Hops				(5) : 4.8 (3)
Cotton				(5) : 2.1
Other crops	8*	12.6*	54	9.9
C. Fallow land				
II. Natural meadows and pastures				
Natural meadows	7,583	19.6	23,495	17.8
Pastures				
III. Trees and vineyards				
Plum trees	1,416	18.4	4,482	21.4
Other fruit trees				
Vines in production	1,256*	30.0*	6,425*	26.8*
Young vines				

The criterion of the quality of Romanian grains is usually their weight in kilograms per hectolitre. The Buletinul Agriculturii of 1919 gives the weight for wheat in 1919 as 74.5 kilograms in contrast to 76.9 kilograms for the period 1911-1915. Where general comparisons of crop production are made from year to year, the common unit of measurement is the wagon. Since 1926, however, the total production and the average yield per hectare of all crops have been given in metric quintals only. Vineyard products, though, are still measured in hectolitres. Data on crop yields and crop production are also distinguished according to whether they are

<sup>X</sup> Buletinul Statistic al României, vol. XII, N<sup>o</sup>. 30-31; Statistica Agricola, 1928 and 1929, Partea II, Productiunea Agricola.

\*In hectolitres.

#In hundreds.

(1)Averages.

(2)Straw production in 1912-1914 was 108,667,000 quintals, an average of 63.3 quintals per hectare.

(3)For 1928 and 1929 only.

(4)Forage Crops: Includes 640,000 hectolitres of field cabbage, an average of 8.8 hectolitres.

(5)Under 500 quintals.

harvested in the summer or autumn (end of summer and autumn). The principal crops harvested during summer are wheat, rye, barley, oats, rapeseed, linseed and peas. These crops together with maize which is harvested in the autumn, occupy most of the cultivated area.

The Anuarul Statistic al Romaniei contains valuable statistical information on crop yields and crop production for the current year, and summarizes the data on crop production for the preceding five years. Until 1924 it reported the production of crops, first, for the provinces of the Old Kingdom, and second, for both the Old Kingdom and the new provinces. Since 1924 all the provinces of Rumania have been grouped under one head with the subclassifications of Old Kingdom, Bessarabia, Bucovina, and Transylvania. The tables on crop production show a few crops such as beans, potatoes, and pumpkins grown along with principal crops, particularly maize. These crops are classified under two categories: Crops grown alone (in teren propria), and crops grown with maize (Printre porumb). The production in 1927 of crops grown alone and together with maize is given as follows:\*

	: Area : in : hectares	: Yield : per : hectare	: Production : (metric : quintals)
Beans grown alone	: 100,188	: 5.9	: 596,853
Beans grown with maize	: 775,232	: 2.4	: 1,883,285
Pumpkins grown alone	: 6,483	: 60.5	: 392,442
Pumpkins grown with maize	: 894,646	: 13.5	: 12,531,973
Potatoes grown alone	: 197,685	: 103.9	: 20,536,917
Potatoes grown with maize	: 51,667	: 18.4	: 949,840

Another source of information on crop production is La Roumanie Agricole. The section on grain explains the method of culture and the production and varieties of the most common grains. Maize is more extensively grown than any other grain. The production of wheat varies from year to year, influenced to a large extent by climatic conditions. The following table compares for the years 1927 and 1930 the total production of wheat, the yield per hectare, and the weight per hectolitre by provinces.

TABLE XXXVI. PRODUCTION OF WHEAT, YIELD AND WEIGHT, BY PROVINCES, 1927 and 1930\*\*

	: Total production(in : quintals)	: Yield per : hectare	: Weight per : hectolitre			
	: 1927	: 1930	: 1927	: 1930	: 1927	: 1930
Old Kingdom	: 13,011,202	: 17,632,377	: 8.4	: 11.5	: 77	: 76.3
Bessarabia	: 3,911,664	: 5,970,732	: 6.4	: 11.9	: 74	: 73.5
Bucovina	: 318,048	: 414,121	: 10.9	: 11.9	: 77	: 74.6
Transylvania	: 9,085,158	: 11,573,149	: 9.7	: 11.4	: 76	: 77.0
Rumania	: 26,327,072	: 35,590,379	: 8.9	: 11.6	: 76	: 75.3

\*Anuarul Statistic, 1927.

\*\*La Roumanie Agricole, 1929.

This volume also contains useful information on pastures and meadows in Rumania. It separates the hay production of the irrigated parts of the country, the fertile lands, and the dry regions. In order of importance of production, Transylvania comes first, followed by Bucovina, the Old Kingdom, and Bessarabia. The report states that the natural meadows in Rumania yield annually an average of 23,000,000 quintals of hay.

In the section *Le Tabac en Roumanie*, the culture and production of tobacco is discussed, the method of production, the method of curing, climatic conditions, and regional adaptations, and imports and exports of leaf tobacco. Statistics concerning the production of tobacco from 1923 to 1927 can be found in *L'Agriculture en Roumanie*, a statistical album of the Ministry of Agriculture.

In its discussion of vineyards *La Roumanie Agricole* classifies the kinds of vines cultivated in 4 groups: American vines, grafted; hybrids (*Hybrides producteurs-directs*); native vines, not grafted; American vines.

Native production and importation of grafted plants in 1927 were as follows: About 391 private nursery men, authorized and controlled by the state, produced 11,250,000 grafted plants; producers and nursery men, unauthorized and uncontrolled, produced about 3,000,000 grafted plants; the State nurseries distributed 1,290,897 grafted plants; imported 4,490,396 grafted plants; farmers who had taken courses in grafting at the State nurseries produced 255,000 grafted plants. The total annual production was 20,286,293 grafted plants.

The production, consumption, and distillation of wine are also discussed fully. According to this source the 250,000 hectares of bearing vines produced 7 1/2 million hectolitres of wine, an average of 30 hectolitres per hectare. These figures are somewhat larger than those given in *Statistica Agricola*. Which are the more accurate cannot be determined here.

Statistics concerning the production of fruit trees in Rumania can be found in *L'Agriculture en Roumanie* and *Statistica Agricola*, 1924-1930, as well as in *La Roumanie Agricole*. Until 1925 the *Statistica Agricola* gave figures on: Production of plum trees, showing area in hectares, production according to weight in metric quintals and average production per fruit tree in metric quintals; production of orchards of other fruit trees, as above; production of fruit trees by number, showing the number of trees bearing fruits, the total production in metric quintals, and the average production per fruit tree in metric quintals. Since 1927 the statistics of fruit production in the *Statistica Agricola* have been confined to plum trees, with no figures on production of other fruit trees. Data are collected in the same way as for the other crops. According to *La Roumanie Agricole*, of the 340,967 hectares of fruit trees, 209,321 hectares are occupied by plum trees and 131,646 by all other kinds of fruit trees. The production of plums in 1927 was 553,599,500 kilograms, an average of 2630 kilograms per hectare and 11.4 kilograms per plum tree. These figures also are larger than those in the *Statistica Agricola*. Most of the plums are used for making plum brandy (*tzuica*). According to statistics, in 1927 there were consumed about 45,275,546 litres of brandy made from plums. The production of walnuts in 1927 was estimated at 39,706,000 kilograms, an average of 11 kilograms per walnut tree. Statistics concerning other fruit trees in Rumania are not available.

A further source of information on crop yields and crop production published especially for foreigners who wish to follow the agricultural situa-

tion in Rumania is the Correspondance Économique, issued quarterly by the Ministry of Industry and Commerce, in both English and French. This bulletin, although a commercial publication, contains regular monthly reports concerning the agricultural situation, estimates on production of grain, livestock and weather conditions for the reported season.

The 1930 Rumanian agricultural census made a detailed inquiry as to crop yields and production in 1929. Crops included in the schedule are discussed in section J. The production in kilograms is shown for: Grain, 9 classes; leguminous crops cultivated for grain, 5 classes; root crops and tubers for food and feed, 2 classes; grasses and forage legumes, 4 classes; industrial crops, 11 classes; vegetables (legumes), 8 classes; crops for the production of seed, 3 classes; natural meadows, mown, for the production of hay.

Vine products are given in decalitres only. In the case of trees, the census schedule asked for the number of trees bearing fruit, the number of trees not yet in production, and the total production of fruit in kilograms obtained in 1929.

The agricultural reforms have so changed the agriculture of Rumania that one is not able to use the statistics correctly if unaware of these changes. Attention was called to the changes in proportion of crop land in different crops in the section of crop acreages. Some tables compiled by Professor Chiritescu-Arva in his book Les Zones de Culture et de Production show some equally significant changes in yields per hectare. These tables are for the entire country.

TABLE XXXVII. CHANGES IN YIELDS (HECTOLITRES PER HECTARE)

Wheat

1905-1914				1923-1924				
Groups	Yield per hectare	: Number of departments	: Hl / Ha	Groups	Yield per hectare	: Number of departments	: Hl / Ha	
I (6.7-9.25)	1	:	6.70	I (7-9.25)	:	14	:	8.36
II (9.25-11.50)	2	:	10.50	II (9.25-11.5)	:	25	:	10.20
III (11.5-13.75)	3	:	12.46	III (11.5-13.75)	:	18	:	12.63
IV (13.75-17.20)	26	:	15.50	IV (13.75-16.00)	:	13	:	14.81
		:		V (16-22)	:	1	:	22.00

Maize

1905-1914				1923-1924				
Groups	Yield per hectare	: Number of departments	: Hl / Ha	Groups	Yield per hectare	: Number of departments	: Hl / Ha	
I (9.6-11.5)	4	:	9.97	I (7.4-11.5)	:	7	:	9.85
II (11.5-15.75)	12	:	13.30	II (11.5-15.75)	:	41	:	13.80
III (15.75-20)	13	:	17.53	III (15.75-20)	:	20	:	17.55
IV (20-21.2)	3	:	20.30	IV (20-24.3)	:	3	:	22.30
		:				:		

TABLE XXXVII. CHANGES IN YIELDS (HECTOLITRES PER HECTARE)  
continued

Barley

1905-1914				1923-1924			
Groups	: Number of:	Hl/	: Yield per	Groups	: Number of:	Hl/	: Yield per
Yield per	: depart- : ments	/Ha	hectare	Yield per	: depart- : ments	/Ha	hectare
I (8-10.5)	:	-	:	I (8-10.5)	:	11	:
II (10.5-13)	:	4	:	II (10.5-13)	:	23	:
III (13-15.5)	:	5	:	III (13-15.5)	:	21	:
IV (15.5-22)	:	23	:	IV (15.5-18.6)	:	15	:
	:	:	:	V	:	1	:
							25.10

Oats

1905-1914				1923-1924			
Groups	: Number of:	Hl/	: Yield per	Groups	: Number of:	Hl/	: Yield per
Yield per	: depart- : ments	/Ha	hectare	Yield per	: depart- : ments	/Ha	hectare
I (12.3-13.5)	:	4	:	I (9-13.5)	:	10	:
II (13.5-18)	:	5	:	II (13.5-18)	:	33	:
III (18-22.5)	:	15	:	III (18-22.5)	:	20	:
IV (22.5-27.30)	:	8	:	IV (22.5-27.4)	:	7	:
	:	:	:	V	-	:	1
							31.30

The agricultural reform has radically changed the wheat situation. Before the agricultural reform, wheat was the crop preferred on the large estates, as maize was the favorite crop on the small holdings. Having found their greatest returns in the raising of wheat the estate owners increased the acreage of it and improved the technic of production. Not only has the area in wheat diminished since then, but the yield per hectare has decreased. Only three of the prefectures which were in the high-yield group in 1904-1905 are still there. In general it can be said that the parceling out of the land has caused the conditions necessary for technical progress to disappear. In the case of maize the situation is better. Of the 32 prefectures in the Old Kingdom, only 11 have decreased the area in maize, while 21 have increased it perceptibly. As for the average production per hectare, 21 prefectures have a lower yield and 11 have increased it. The barley acreage shows the greatest increase, but yields have perceptibly diminished, particularly in the Old Kingdom. The oats acreage has changed little, but yields have declined. Data are available in the above sources as to yield per hectare and the distribution of crops for 15 regions of Rumania. Professor Chiritescu-Arva has published an interesting table in his book showing the relation of rainfall to yield for the five grain crops.

O. Ratio of Crop Production to Livestock

Some of the ratios of crop production to livestock which have been worked out in the report in this series on Switzerland could be worked out from the above-described data. Space will not be taken for it here.

P. Livestock Production

Sources listed in Part I are Ministerul Industriei si Comerțului, Moniteur Commercial Roumain; Nicoleanu, George and Mantu, C., Amélioration des Moutons Roumains; Ministerul Agricultrei, Industriei, Comerçului si Domenilor, Statistica Agricola and Statistica Recoltelor; Ministerul Agriculturei si Domenilor, L'Agriculture en Roumanie and Buletinul Agriculturii; Ministerul de Industrie si Comerç., Correspondance Économique Roumaine; Ministerul Industriei si Comerçului, Anuarul Statistic, La Roumanie Economique, and Buletinul Statistic. Another important source of information is La Roumanie Agricole, 1929, 14, Congrès International d'Agriculture, Bucharest, June 7, 8 and 10.

There is very little information available on livestock products, and what is available is unsatisfactory from the point of view both of accuracy and the number of years for which it is available. The only years for which such data are obtainable here are 1923-1927, the years covered by La Roumanie Agricole and L'Agriculture en Roumanie. Some official production data for the year 1926, based on an enumeration of livestock in 1923, also appear in the Correspondance Économique. The data on animals killed in slaughterhouses are probably accurate; but no data are recorded for home slaughtering.\* The production figures on milk, eggs, wool, etc., are estimates obtained by multiplying the estimated annual average production per animal by the number of animals in each class.\*\* As was stated in section K, there has been no real census of animals since the War. Since both elements from which production figures are calculated are more or less inexact, their product is of doubtful accuracy.

Table XXXVIII following shows livestock production in 1926. As will be noted from the figures, estimates are in round numbers. La Roumanie Agricole, from which this table was taken, gives for cattle, sheep, goats, and pigs the number slaughtered for the home market and the exports of live animals, meat and hides. With regard to cattle, the live weight of the animal is determined according to its type and its breed. For example, the Moldavian cattle, a steppe breed, weigh about 600-650 kilograms; after fattening they may obtain a weight of 800-900 kilograms. The mountain breed has an average weight of 300-350 kilograms. This source does not give any statistics of dressed weight.

TABLE XXXVIII. LIVESTOCK PRODUCTS IN RUMANIA, 1926\*\*\*

Product	: Quantity in kilograms	: Value in lei
Beef (1)	: 134,050,455	: 4,021,513,650
Mutton	: 22,670,603	: 680,118,090
Pork (2)	: 123,061,158	: 6,153,057,900
Poultry meat	: 50,000,000	: 2,500,000,000
Eggs	: 1,500,000,000	: 3,000,000,000
Milk	: 2,400,000,000	: 14,400,000,000
Cheese	: 60,000,000	: 3,000,000,000
Wool	: 20,000,000	: 1,600,000,000
Sheepskin	: 3,600,000	: 348,000,000
Hides (1)	: 1,200,000	: 1,200,000,000
Manure	: 60,000,000,000	: 1,500,000,000

\*For further discussion of these data, see section V.

\*\*Bureau of Statistics, in answer to inquiry. See p. 85.

\*\*\*La Roumanie Agricole, p. 189.

(1) The class of "gros bătăilă" includes horses and buffaloes as well as cattle.

(2) Slaughtered at home and in slaughterhouses.

The figure for total production of beef given in this table is less by over 100,000,000 kilograms than the estimate made by Dr. G. K. Constantinesco.\* He states that about 1,100,000 cattle, with an average live weight of 350-400 kilograms and an average dressed weight of 175-200 kilograms (dressed weight 50 percent of live weight) were slaughtered in Rumania in 1926. He thus arrives at a total of around 200,000,000 kilograms of meat produced for home consumption. In estimating exports, for reasons not known here, Dr. Constantinescu applied different live weight and dressed weights, 800-1000 kilograms live weight and 60 percent of live weight for dressed weight, to the 100,000 animals exported annually,\*\* Adding the total exports, 54,000,000 kilograms, to total produced for home consumption, his figure for total production is 254,000,000 kilograms. Which estimate is more accurate cannot be determined here. No distinction is made between calves and heifers according to weight and age, nor has there been an attempt to estimate the number of animals slaughtered on farms. As for horses, 1,294,200 kilograms in 1924 and 94,950 kilograms in 1925 were slaughtered for export.

Milk production is reported under two heads, cow's milk and sheep's milk. The average annual yield of milk per cow in Rumania is estimated at 700 litres (300-900 litres for steppe cows and 1500-3000 litres for imported breeds).\*\*\* This is somewhat lower than Dr. Constantinescu's estimate of 1000 litres. With the decrease in the number of cows, the annual production has decreased, and in 1930, on the basis of the former average yield per cow, was around 1,040,000,000 litres, with a value of 4.8 million lei (4 lei per litre). Sheep, it is estimated, produce an average of 60 litres of milk per year per animal. Their milk is used almost exclusively for making cheese, 60 litres of milk producing 15 kilograms of cheese. The total production of cheese from this source is from 60/100 million kilograms per year.

The only information on butter produced is the amount exported. Most of the butter consumed in Rumania is homemade, and it is therefore impossible to estimate the amount. Exports in 1926 of fresh butter came to 28,194 kilograms, and of melted butter to 88,583 kilograms.

The estimate of the amount of wool produced per sheep in Rumania is around 2 kilograms. In 1930 there were 11,920,502 head, making a total of about 20,000,000 kilograms of wool.

With regard to hides, the Bulletin de la Direction Générale Zootechnique et Sanitaire Vétérinaire gives detailed information on tanning in 1923. The most important hides worked were horse and colt hides (about 122,385), ox, cow, calf, and buffalo hides (about 935,068), sheep and goat skins (about 433,088), and ass, dog, and pig hides. (See section Z for exports). Catgut is also produced, mostly for export.

The production of poultry meat in 1927 amounted to 500,000 quintals. The eggs produced for the same year were estimated at 15,000,000. No other information on poultry products consumed in Rumania is available. There are, however, statistics on exports of eggs, live poultry, and poultry meat, for the years 1921-1930.

\*The Livestock of Roumania and its Value. Correspondance Economique Roumaine, No. 1, 1926.

\*\*Possibly only the full-grown fattened Moldavian cattle are exported.

\*\*\*M. Majewsky. According to the Statistica Agricola, 1929, many of the mountainous breeds produce 10 litres per day with an average of 4.6 percent butter fat.

Silkworm production is measured in number of cocoons produced. Most of the cocoons in Rumania are produced in the region of Banat and the fewest number in the province of Bucovina. The State has a monopoly of the distribution of silkworm eggs. They can be imported only by the Ministry of Agriculture, and home production can be carried on only with the authorization and under the control of the Ministry of Agriculture. Eggs produced, imported, put up for sale, distributed or sold contrary to the provision of the law are confiscated and the violators punished. Since in Transylvania all farmers must sell the cocoons produced from the eggs to the State, the data on cocoon production are most exact for that region. For the rest of the provinces, the estimates of the production of cocoons are made on the basis of the quantity of eggs put into incubation. A gram of eggs from licensed farms is estimated to yield from 1-1.25 kilograms of fresh cocoons, and a gram from non-licensed farms 0.50 kilograms. The following figures taken from *La Roumanie Agricole* show the production of cocoons for 1928, a good year for silkworm producers:

:	Eggs put into incubation (kilograms)	:	Average yield (kilograms)	:	Production of fresh cocoons (kilograms)
Transylvania	:	:	:	:	220,846
Old Kingdom	:	198	:	1.10	217,800
Bessarabia	:	15	:	1.10	16,500
Rumania	:	:	:	:	455,146
	:	:	:	:	

There were also 50 kilograms of eggs put into incubation illegally, with an average yield of 0.50 kilograms, and a production of fresh cocoons of 25,000 kilograms, bringing the total cocoon production for 1928 up to 480,146 kilograms.

*L'Agriculture en Roumanie* presents the following figures on the production of honey and wax in 1927:

:	Number of hives	:	Percent of total	:	Amount of honey	:	Amount of wax
Hives - blocks	480,410	:	77.7	:	24,020	:	13,759
Hives in mov- able frames	137,589	:	22.3	:	343,973	:	68,795
Total	617,999	:	100.0	:	367,993	:	82,554

No information is available as to the method of collecting the statistics on production of honey.

It should be remembered that the figures given in this section are only estimates, and there are no other data against which to check them. It is expected that the results of the 1930 agricultural census when published will give more detailed and accurate information on livestock production and the methods employed in the collection and tabulation of the data. The data asked for in part VII of the schedule are as follows:

A. Milk

1. Milk from cows or buffaloes, in litres.
2. Milk from sheep or goats, in litres.
3. Butter made on the farm, in kilograms.
4. Cheese made on the farm, in kilograms.

B. Eggs, number of eggs.

C. Wool

1. Number of sheep shorn in 1929.
2. Total weight of wool obtained in 1929, in kilograms.

D. Honey and wax, in kilograms

E. Sericulture

1. Quantity of eggs put into incubation in 1929, in grams.
2. Quantity of cocoons produced in 1929, in hectograms.

This schedule follows exactly the recommendations made for the world census in obtaining data on livestock products.

Q. Combined Agricultural Production

For a discussion of the possibility of compiling index numbers for changes in combined agricultural production (crop and livestock), see section Q of the report in this series on Switzerland.

R. Ratio of Agricultural Production to Agricultural Workers

This ratio is discussed in section R of the report in this series on Switzerland.

S. Ratio of Agricultural Production to Land

This ratio is discussed in section S of the report in this series on Switzerland.

T. Forest Products

Sources listed in Part I are: Ministerul Agricultiei, Industriei, Comerciului si Domeniilor, Notices sur les Forêts du Royaume de Roumanie, and Statistica Padurilor Statului; Ministerul de Industriei si Comert., Correspondance Économique Roumaine, Anuarul Statistic, La Roumanie Économique, and Buletinul Statistic. Other important sources are Ministère de l'Agriculture, du Commerce, de l'Industrie et des Domaines, La Roumanie 1866-1906; Rommenhöeller, C. G., Consul General de la Roumanie, La Grande Roumanie; and Situatiunea Tezaurului Public, issued by the Ministry of Finance.

A discussion of forest areas and forest administration will be found in section H. Statistics of forest products go back to 1900, when tables showing the production of wood and timber and their value per hectare and per average trée were published in Notices sur les Forêts. The Statistica Padurilor, 1906, and the Situatiunea Tezaurului Public give statistics on forest products for 1906. Among sources of more recent data is the Anuarul Statistic in which are published yearly figures on forest products and their value. The issue for 1927 contains tables showing production of timber per hectare of woodland, personnel employed in the various forest industries, number of enterprises in each subgroup of the industries, figures on motive power, capital invested in the ground, buildings and installations, and finally the value of the

products, concerning which there are figures for the value of raw materials, the value of fuel, and the value of the finished product, timber, or paper. The timber industry, according to the Anuarul Statistic, is subdivided into the following groups: Construction timber, carpentering, furniture, packing, brushes and pencils (brush), lasts and pegs for shoemakers, cork, school furniture, and other wood products. The paper industry is divided into three groups.

Rumanian forest products from the point of view of utilization are classified in three categories:

1. Principal products, comprising all wood materials resulting from a rational exploitation of the forests. They include logs ready for sawmills, railway ties, telegraph posts, bridge timbers, all kinds of wood used for tools in agricultural work, the wooden parts of the vehicles and aeroplanes, timber for building purposes and furniture, firewood, and wood for paper cellulose.

2. Secondary products: Dead and fallen trees, clearings of old trees, and branches of trees used for any purpose.

3. By-products: Beechnuts, acorns, chestnuts, products harvested in the open grassy spaces in the mountains, and fodder or grain found in mountain valleys.

L'enquête d'industrie, 1920, which gathered data from 502 establishments manufacturing wood products, classified the wood taken annually from the Rumanian forests according to kind and destination as follows: 600,000 wagonloads of firewood (about 2/5 of this quantity is exported); 150,000 wagonloads of boards (4/5 resinous and the rest other species), about 3/4 resinous and 1/4 of other species are consumed at home; 20,000 wagonloads of oak and beech ties (used almost entirely for domestic consumption); 6,000 wagonloads of resinous and beech timber for paper manufacture; a total of 736,000 to 800,000 wagonloads per year.

These production figures were calculated on the basis of a yield of 2.5 square meters per hectare. It is possible to estimate the yield thus because more than one half of the wooded area in Rumania is under the jurisdiction of the forestry service (see section H) and must be exploited in conformity with the regulations of the Forest Code (of 1910 at the time these yields were estimated). Timber waste resulting from the cutting of logs is estimated to represent an average of 40-50 percent of the raw volume. According to these figures, for the manufacturing of 104.5 cubic meters\* of boards there will probably be needed about 190 cubic meters of trunk.

The Correspondance Économique, 1926, reporting the official figures of the Ministry of Industry and Commerce, analyzes the net cost of the forest production in accordance with the prevailing practices and conditions. According to this official report, the net cost of the production in the wood industry comprises the following items: The amount paid for the raw forest material; the necessary expenses involved in the production of wood material, officially called "production expenditure"; all other indirect expenses involved in the production of finished forest goods.

A detailed discussion of forest products may also be found in a semi-official publication, La Grande Roumanie, by C. G. Rommenhöller, Consul General of Rumania. In the timber industry are included also the industries

\*See Correspondance Économique, 1928 for detailed discussion of the different units of measurement of forest products. In Rumania only the cubic meter is in common use. Even at auctions where the State sells according to the number of trees, the estimate is based on cubic measurements.

making cellulose and paper. The book gives, among the many figures on production, the number of companies (associations) engaged in the timber industry and other related industries, and the production and manufacture of various kinds of forest products for each province in the country.

Information relating to the purchase of forests and forest lands can be found in the laws and regulations published in the Monitorul Oficial no. 93, July 1921. The Casa Padurilor published regularly reports on forest regulation which may be found in either the Monitorul Oficial or the Correspondance Économique Roumaine, both bulletins published by the Ministry of Industry and Commerce. The schedule for the 1930 agricultural census in Rumania made no provision for information pertaining to forest products though such was recommended for the world census.

### U. Fisheries

Sources listed in Part I are Ministerul de Industriei si Comert., Correspondance Économique Roumaine, and Anuarul Statistic. Other important sources are Ministère de l'Agriculture, de l'Industrie du Commerce et des Domaines, La Roumanie; Rommenhoeller, C. G., La Grande Roumanie; Daia, Les Pêcheries en Roumanie; Administration Générale des Pêcheries et Amélioration de la Région Innondable du Danube, Comptes-Rendus, 1929-1931.

Statistics on Rumanian fisheries are rather limited, in spite of the fact that the rivers and lakes of the country cover an area of 1,200,000 hectares, and constitute the greatest fresh water fisheries of Europe, with the exception of those of the Volga. However, some data can be found in reports of the Bureau of Fisheries published in Official bulletins such as Buletinul Agriculturii and Buletinul Statistic. Some annual statistics are given in the Anuarul Statistic. La Roumanie Agricole has figures on quantities and values of fish taken from state-owned waters from 1895-1927; and detailed information on the Danube Delta fisheries is available in the Correspondance Économique, 1927, which contains a report by the General Director of the State Fisheries, Dr. P. Daia.

Until 1895 the Rumanian fisheries were exploited by the inhabitants with no intervention on the part of the Government. They were usually leased for a period of five years to enterprising fishermen who fished with small nets, narcotics, and poisons. This destructive system reduced the fisheries to a deplorable state, with the result that in 1896 a law was passed forbidding the use of small nets, explosives, narcotics, and poisons, the taking of eggs and small fish, the catching of fish during the period of reproduction, or in places which might prevent their reproduction, and the discharging of waste materials in water where it might be injurious to fish. This law protecting the fish industry was put into effect immediately, and in a few years production not only increased in quantity but also improved in quality. Measures providing for the development of fisheries have been based on studies of the ichthyological fauna of the waters, made by the State Fisheries Service. The enforcement rests with the forest guards, customs officers, and other public agents.

The greatest number of fish are caught in the Danube regions of marshes and swamps, 93 percent of which are owned by the State, and in those of the fields and marshes subject to inundation, 58 percent of which are state-owned. The area of the State fisheries is about 600,000 hectares. Thus far, these fisheries have yielded a yearly average of only 20,000,000 kilograms,

or 34 kilograms per hectare.\* The State figures do not take into account the quantity of fish caught in the 50,000 hectares of marsh and 50,000 hectares of ponds which, though state-supervised, are privately owned. The production from privately owned fisheries in 1925 was estimated as follows:\*\*

1. Fish from the marshes of Bessarabia, mostly private property .....	6,000 tons
2. Fish caught by poachers.....	5,000 "
3. Fish consumed by fishermen, river services, employees (not registered).....	5,400 "
4. Fish caught in the ponds, about .....	500 "
5. Fish caught in private marshes, average.....	5,000 "
Total	21,900 tons

If to this be added the 20,000 tons registered by the State, a total is obtained of 41,900 tons produced by 700,000 hectares, i.e., 59 kilograms per hectare. Table XXXIX shows changes in the total production of fish caught in State fisheries from 1895 to 1930. It increased up to 1927 with the exception of 1925. Since 1927, however, there has been a marked decrease, due to the dyke projects carried out in the regions of the Danube subject to flood. To meet this situation the Bureau of Fisheries, formerly attached to the Department of Agriculture and Domains, was transformed into an autonomous office, The General Administration of Fisheries and the Improvement of the Danubian Region subject to Flood (P.A.R.T.C.). Production, however, has not been improved as shown by the 1930 figures.

TABLE XXXIX. AMOUNT AND VALUE OF FISH CAUGHT IN STATE FISHERIES BY YEARS\*\*\*

Years:	Fresh or salted fish (kilograms)	Total production sold (in lei)	Part accruing to the State (in lei)	Part accruing to fisherman (in lei)
:	:	:	:	:
1895 :	7,885,890	1,699,614.38	415,571.19	1,284,043.19
1900 :	11,952,282	3,184,547.59	1,163,954.49	2,020,620.10
1910 :	16,892,670	6,610,780.83	3,175,995.50	3,436,785.33
1915 :	21,539,724	7,986,025.06	3,453,653.37	4,532,371.09
1920 :	23,952,071	89,752,001.12	24,213,148.16	65,538,852.96
1925 :	19,680,862	181,255,264.31	63,525,193.05	117,730,071.26
1927 :	26,327,612	389,273,964.44	154,003,085.66	235,270,878.78
1928 :	14,795,569	306,638,287	115,409,816	131,228,391
1929 :	13,492,316	247,720,696	103,599,740	144,720,956
1930 :	13,028,822	266,396,577	113,479,101	152,919,003
:	:	:	:	:

State fisheries are operated either on a cash-rent or a share-rent basis. The proportion rented for cash is small. The fisheries are leased only at public auction by the year or for longer terms, and certain stipula-

\*Official report on State fisheries. The State keeps records of fish caught in its own waters only.

\*\*Correspondance Économique, 1925. No information is given as to how the estimates were made.

\*\*\*La Roumaine Agricole, 1929. From 1920 on the values are given in paper lei.

tions as to maintenance and improvement of the property according to need are imposed on the operator. The most common form of tenure is the share rent. In return for a certain percentage of the catch, the State puts at the disposal of professional fishermen who have proper equipment its Danubian and inland sea fish ponds, with the privilege of fishing at all seasons of the year except from the 15th of April to the 15th of June. The fisherman gives back to the State 15 to 20 percent of fish caught at sea, 35 percent of fish caught in the delta, and 40 to 60 percent of fish caught in other fish ponds.

In a study published in the *Revue V. Adamachi* (Vol. 16) Th. Busnita classifies the ichthyological fauna of Rumania in the following zones: The Rumanian coast of the Black Sea or the mackerel zone; the coastal lakes or the mullet zone; the Danube between its mouths and Galatz or the zone of the Danube shad; the Danube between Galatz and Vienna, or the sterlet zone; the shore lakes of the Danube or the zone of the pike-perch; inland waters or the zones of the perch, the trout, and the barbel. Production of fish is shown in two tables; the first gives the production of the various species of fish in kilograms by regions, and the total amount of money received from the sale of the fish divided between the State and the fishermen. The second gives the total production and value of the fish for a number of years.

#### V. Food Production and Consumption in Relation to the Population

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Ministerul Agriculturiei, Industriei, Comerciului si Domeniilor, Statistica Viilor din Romania; Ministerul Agriculturiei si Domeniilor, L'Agriculture en Roumanie, and Buletinul Agriculturii; Ministerul de Industriei si Comert., Anuarul Statistic, and Buletinul Statistic. Other important sources of information are Congrès International d'Agriculture, 14th, Bucharest, 1929, La Roumanie Agricole; Manolescu, G., Statistica Animalelor Taiate Pentru Consumatia Publica in Romania in Anul 1908; Ministerul Agriculturii si Domeniilor, Directiunea Generala Zootechnica, Sanitara Veterinara, Statistica Animalelor Taiate Pentru Consumatia Publica in Anii 1921-25.

Food production is discussed in sections N and P. Data on consumption are scarce and unsatisfactory. The sources listed in part I give figures on production and consumption of alcohol, wines, sugar, flour, and bread for occasional years. Of material available to the writer, La Roumanie Agricole gives some estimates, as to the accuracy of which see the statements made in section P. According to this source, of the 2,500,000,000 litres of milk produced in 1927, 1/5 was consumed in the cities and the remainder, after the peasants had extracted the butterfat by the crude means at their disposal, in the country. The cheese made from sheep's milk, cascaval, cas, telemea, etc., estimated at 60,000,000 kilograms in 1927, is consumed almost entirely within the country. There are also figures given for the number of animals slaughtered for consumption in 1921 and 1925.

Complete information, however, as to livestock commercially slaughtered and the quantity of such meat consumed in the country are available in La Statistique des Animaux Abattus en Roumanie, published from 1921 to 1928 by the Ministry of Agriculture according to data gathered by the veterinarian services of the country. There are tables showing animals slaughtered for consumption by provinces, urban, and rural communes, by species, in relation to existing stocks as well as the proportion of each species killed to the

total quantity of livestock slaughtered. However, these tables do not include animals slaughtered at home or animals slaughtered for export.

The quantity of meat consumed in Rumania in 1908 was, according to Gh. Manolescu,\* 60,785,459 kilograms. After the War this amount increased for the same territory (the Old Kingdom) to 85,425,910 kilograms. For the entire country, livestock was slaughtered for consumption as follows:

Year	Amount	Year	Amount
1921	197,459,730	1925	199,877,166
1922	225,106,307	1926	199,198,654
1923	211,850,368	1927	184,217,619
1924	204,855,275	1928	211,747,790

It will be seen that consumption of meat, as measured by production of slaughter houses, decreased year by year from 225 million kilograms in 1922 to 199 million kilograms in 1925. In the Old Kingdom, on the other hand, there was a sensible increase during this period, 65 million kilograms in 1921 and 85 million kilograms in 1925. This difference in trend is due largely to the falling off of slaughtering in Transylvania.

The meat consumed per inhabitant is as follows:

Year	Urban communes	Rural communes	Average for country
:	:	:	:
1908	-	-	9.0
1921	-	-	12.5
1922	-	-	13.7
1923	-	-	13.0
1924	-	-	12.7
1925	51.3	3.5	11.6
1926	44.2	4.4	11.7
1927	41.0	3.6	10.9
1928	45.7	6.0	12.5
:	:	:	

In all the provinces of the Kingdom more meat is consumed in the urban communes than in the rural communes. The difference is greatly accentuated in Muntenia where the proportion is 93 percent for the urban communes and only 7 percent for the rural communes. Among urban communes in Muntenia, however, is Bucharest to which half the products of the slaughter houses in Muntenia are sent. Only in Ardeal is the consumption in rural communes almost equal to that of urban communes. It is hardly necessary to mention that if these data included animals slaughtered at home, the proportions as between urban and rural consumption might be very different.

In considering livestock slaughtered according to species, about 60 percent are cattle and 30 percent swine. But if the slaughtering of pigs at home, uncontrolled by the State (all over Rumania, in the villages and in many of the cities, each family slaughters from 1-2 pigs a year for their own consumption) estimated by G. Jonescu Braila\*\* at 1,000,000 kilograms per year, is taken into consideration, the amount of pork consumed is almost

\*Statistica Animalelor Taiate pentru Consumul Public din Romania in Anul 1908, by G. Manolescu.

\*\*L'Industrie et le Commerce Mondial de la Viande et la Participation de la Roumanie à ce Commerce. Bucharest, 1926.

equal to that of beef. The amount of mutton consumed is about 14 percent of the total quantity of meat consumed, and of this probably 70 percent is lamb.

It will readily be seen that data on consumption in Rumania are so inadequate that a full development of this topic is impossible.

#### X. Timber Production and Consumption in Relation to the Population

There are no Rumanian Statistics on this subject. Professor Bungeteanu, one of the most famous specialists on the timber industry estimated that the annual average consumption per inhabitant is 1 cubic meter of wood for fuel and construction.\* This low figure is due to the slight development of the industry and to urban life which reduces the proportion of wood consumed in favor of coal.

#### Y. Budgets of Farm Families and Urban Families

Sources listed in Part I are Ministerul Financelor, Situation Financière des Communes Rurales; and Ministerul Industriei si Comertului, Statistica Preturilor.

Studies of family budgets in Rumania are made in connection with investigations of the cost of living begun in 1926 by the Statistical Bureau in various cities and towns, 40 at first, increasing to 71 in 1929. Data are obtained by sending to families representative of different classes (farmers, workers, etc.) schedules to be filled out monthly showing expenditures for the following items: Food substances, including meat, fish, butter, sugar, vegetables, and all other articles of food necessary in the household; household operating expenses, including fuel and light, soap, and other similar articles; clothing and shoes; lodging; other expenses. From the information in these schedules a standard budget of the necessities of life for a middle-class family of 5 is worked out for each city.\* This shows the price paid per unit,\*\* the quantity consumed per month, and the expenditure per month for each item. Index numbers are then constructed, using 1913 as the base year.\*\*\* These data, together with average monthly prices of the necessities of life and average yearly prices of certain articles of consumption, are published in the Statistica Preturilor. The percentage of income spent in 1927 on the various groups of articles was as follows:

	<u>1913</u>	<u>1927</u>
Food substances	45.46	42.99
Fuel and light	10.21	10.36
Clothing and shoes	19.02	21.35
Lodging	20.75	19.62
Various expenses	4.46	5.68
	100.00	100.00

M. Majewsky.

\*\*Whether this family unit was chosen arbitrarily or on some other basis is not clear. The first year (1926) the unit consisted of a married couple with 1 child living on an income equivalent to 200 lei in 1914. For the same unit and the same year, the Office of Surveys of the Ministry of Finance took 150 lei as the income. This latter figure is of importance as it forms the basis of supplementary aid accorded this year to public officials.

\*\*\*Prices used in constructing the standard budget are monthly averages of daily retail price quotations in the capitals of the prefectures. There are no data on prices prevailing in other urban communes or in any of the rural communes. See section D for collection of data and construction of index.

\*\*\*\*In 1926 the base year was 1914.

Detailed budget figures for Arad, with a population of 75,000 are presented in table XL following:

TABLE XL. BUDGETS OF EXPENDITURES OF FAMILY OF FIVE, IN THE CITY OF ARAD (75,000 inhabitants) AND INDEX OF COST OF LIVING (1913 base year), 1927\*

Articles	: Unit of measure:	Price 1913 : 1927	Amount consumed per month	Monthly expenditures		Index of cost of living:	Percent of income spent
				1913	1927		
				Lei	Lei		
<b>I. Foods</b>							
Beef	1 kg.	1.00	35.25	16 kg.	16.00	564.00	:
Pork	1 "	1.26	45.50	6 "	7.56	261.00	:
Fish	1 "	1.35	59.90	10 "	13.50	599.00	:
Bread 2nd quality	1 "	0.26	10.35	50 "	13.00	517.50	:
Eggs	100	5.00	270.00	50	2.50	135.00	:
Milk	1 lt.	0.34	9.50	50 lt.	17.00	475.00	:
Cheese	1 kg.	1.40	54.00	3 kg.	4.20	162.00	:
Olive oil	1 lt.	1.60	104.00	2 lt.	3.20	208.00	:
Rice	1 kg.	0.50	30.00	3 kg.	1.50	90.00	:
Maize	1 "	0.14	8.80	6 "	0.84	52.80	:
Sugar	1 "	1.19	39.00	6 "	9.52	312.00	:
Coffee	1 "	2.70	167.95	2 "	5.40	335.90	:
Tea	1 "	4.00	297.50	1/3 "	1.32	98.17	:
Beans	1 "	0.32	11.00	8 "	2.56	88.00	:
Potatoes	1 "	0.12	6.00	25 "	3.00	150.00	:
Onions	1 "	0.26	10.50	16 "	4.16	168.00	:
Cabbage	100 heads	14.00	600.00	10 heads	1.40	60.00	:
Legumes	1 kg.	0.07	4.00	25 kg.	1.75	100.00	:
Tomatoes	100 kg.	7.50	350.00	25 kg.	1.87	87.50	:
Fresh lard	1 "	1.60	54.00	8 "	12.80	432.00	:
Others					1.42	45.13	:
				Total	124.50	4939.00	3967 : 38.90 : 33.01
<b>II. Fuel and light</b>							
Firewood	100 kg.	3.50	102.50	800 kg.	30.00	820.00	:
Soap	1 "	0.90	55.00	5 "	4.50	265.00	:
Gas	1 "	0.20	6.50	16 "	3.20	104.00	:
Denatured alcohol	1 "	0.40	31.00	3 "	1.20	93.00	:
Others					2.55	218.00	:
				Total	41.45	1500.00	3618 : 12.96 : 10.03
<b>III. Clothing and shoes</b>							
Shirts	6	28.00	600.00	1/2	2.33	133.35	:
Trousers	6	14.00	800.00	1/2	1.16	66.50	:
Handker- chiefs	6	2.50	130.00	1/2	0.20	10.80	:

TABLE XL. BUDGETS OF EXPENDITURES OF FAMILY OF FIVE, IN THE CITY OF ARAD (75,000 inhabitants) AND INDEX OF COST OF LIVING (1913 base year), 1927\* - continued.

Articles	Unit	Price	Amount	Monthly		Index: of cost:	Percent spent
				con-	expenditures		
Stockings	6	3.00	180.00	1/2	0.25	15.00	
Suit	1	75.00	4560.00	1/12	6.25	380.00	
Coat	1	90.00	5900.00	1/36	2.50	163.89	
Shoes	2	28.00	-	1/6	2.33	127.50	
Galoshes	1	7.00	-	1/12	0.58	38.36	
Repairs	-	-	-	-	0.50	60.00	
Hats	-	-	-	-	5.00	400.00	
Items for wife and children	-	-	-	-	44.50	2000.00	
Others	-	-	-	-	4.60	540.00	
				Total	70.20	3925.40	5269 22.09 24.89
IV. Lodging	1 year	820.00	48000.00	1/12	68.35	4000.00	5852 21.36 26.72
V. Other expenses	1 year	180.00	9000.00	1/12	15.00	800.00	5333 4.69 5.35
				Total			
				General	319.50	15164.40	4676 100 100

Indexes of cost of living of 71 cities in 1929 show that in general cities and towns with a large population have a higher cost of living than smaller towns, although food costs may be a little lower. The Statistica Preturilor, 1929 divides the 71 cities and towns into 3 groups according to their cost of living indexes. Group I with indexes ranging from 4550 to 5304 includes 16 of the larger cities in Rumania; group II with indexes from 4009 to 4496 includes 27 towns with a somewhat smaller population; and group III with indexes from 3906 to 3998 includes 28 smaller towns, though there are some exceptions. Table XLI following gives samples from each group. The towns for which cost of living indexes are constructed are, with one exception (C. Lungi in Bucovina), classed as urban communes. Thus it would appear that there is no information on budgets of farm families, though some of the towns are quite small and probably of a rural character.

\*Statistica Preturilor, 1927.

TABLE XLI. COST OF LIVING INDEXES AND POPULATION OF TOWNS, SAMPLES OF  
THREE GROUPS OF TOWNS CLASSED TOGETHER ON THE BASIS OF  
COST OF LIVING INDEXES 1928-1930 (1913 = 100)\*

	Index			Population
	1928	1929	1930	1930
<u>Group I</u> , 16 towns, indexes 4550-5304	5290	5304	4724	631,288
Bucuresti	4824	4856	4381	58,258
Constantza	4832	4835	4340	59,234
Brazov	4663	4672	4270	63,310
Braila	4615	4607	4096	63,063
<u>Group II</u> , 22 towns, indexes 4009-4496				
Focsani	4486	4496	4000	32,799
Buzau	4305	4300	3890	36,115
Balti	4174	4180	3838	30,667
T. Magurele	4115	4120	3326	17,351
Tulcea	4013	4020	3800	20,104
<u>Group III</u> , 28 towns, indexes 3906-3998				
Targoviste	3957	3998	3790	22,482
Blaj	3915	3917	3732	4,716
Vaslui	3931	3933	3670	15,388
C. Lung (Bucovina)	3905	3908	3590	10,124
Orhei	3897	3906	3583	14,805

### Z. Imports and Exports of Farm and Forest Products

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Nicoleanu, George, and Nantu, Constantin G., Amélioration des Moutons Roumains; Directiunea Statisticei Comerçului Exterior, Comerçul Exterior al României, Directiunea Statisticei Generale, Miscarea Porturilor in Anii 1919, 1920 si 1921; Directiunea Vanilor, Timbrului si Registrarei, Comerçul Exterior al Romaniei; Ministerul Agriculturei, Industriei, Comerçului si Domeniilor, Réponse Officielle; Ministerul Agriculturei si Domeniilor, L'Agriculture en Roumanie; and Buletinul Agriculturii; Ministerul de Industrie si Comert., Correspondance Économique Roumaine (monthly and bi-monthly), Almanach Statistic, La Roumanie Économique, Buletinul Semestrial, and Buletinul Statistic. Other important sources of information are: Buletinul Uniunii Camerelor de Comerç si Industrie, Bucarest, 1926-1931; Le Bulletin d'Information et de Documentation de la Banque Nationale de Roumanie, Bucarest 1929-1931; Bungeteanu, C., La Richesse Forestière de la Roumanie, L'Industrie et le Commerce du Bois, Bucarest, 1927; Le Problème du Bois de Chêne en Roumanie, Bucarest, 1927-1928.

Statistics on imports and exports of Romania are available in many bulletins issued by the Office of General Foreign Trade Statistics (Directiunea Statistică Comerçului Exterior, Ministerul Finançelor). The most important of these is the Comerçul Exterior al Romaniei. Until 1925 it appeared annually with annual figures only. Since then, however, it has published every quarter monthly data collected from the customhouses on 35 categories of commodities in the main groups. These groups are as follows: 1. Animals and

\*Statistica Prețurilor, 1930 and Indicatorul Statistic.

animal products. (7 categories);<sup>2</sup> products of the soil. (11 categories); 3. sub-soil products (minerals). (8 categories);<sup>3</sup> various products - combination of groups 1, 2, 3. (9 categories). The common unit of measure in Rumanian import and export data is the kilogram. Cubic meters of wood are reduced to kilograms on the basis of 500 kilograms to one cubic meter. Animals and commodities are converted into kilograms according to the following scale:

1 stallion	=	350 kilograms	1 mare	= 300 kilograms
1 cow	=	400 "	1 ox	= 550 "
1 ram	=	35 "	1 buffalo	= 600 "
1 calf	=	50 "	1 sheep	= 25 "
1 pig	=	150 "	1 chicken	= "
			(pullets)	= 1 kilogram
			17 eggs	= 1 "

In published data the kilograms are generally changed to tons.

Figures in L'Agriculture en Roumanie, however, are quoted in quintals. The value of imports and exports is determined quarterly by a special commission appointed by the Ministry of Finance. Estimates are made by means of invoices declaring the value of the goods. The commission, whose other sources of information as to value of the commodities are business men, manufacturers, chambers of commerce, etc., may change the valuations when it thinks those stated in the invoices incorrect. Conversion of foreign currencies into lei is effected at the rate of exchange for the day. The value of imports is the price c.i.f., that is, the price at the place of origin plus insurance and transportation to the frontier; it does not include tariff duties or transportation to the interior. The value of exports is the price f.o.b., i.e., the price at the place of origin plus transportation costs and insurance.

Rumanian commerce unlike that of many European states is not divided into general and special commerce, but due provision is made for the transit commerce of the country. Before the War the transit commerce of Rumania did not represent an item of great importance, but with the annexation of Transylvania, Bucovina, and Bessarabia, the geographical position of the New Kingdom was such as to increase the importance of transit commerce. The Anuarul Statistic, which has many tables on imports and exports as far back as 1901, contains in its 1929 issue information on transit trade in 1927-1928, classified according to 35 categories, as in the Comertul Exterior. The Correspondance Economique Roumaine, official bulletin of the Ministry of Industry and Commerce, in its issue of May 1927, gives a detailed report relating to the application of the new import customs tariff. The same bulletin publishes regularly many official reports on Rumanian trade, imports and exports of agricultural products, and comparisons between real prices and statistical prices in the evaluation of the imports of the country. Information as to exports by countries is available in the Comertul Exterior as well as in La Roumanie Agricole.

Grain, livestock, and wood, raw or semi-finished, are the 3 great categories of products which constitute the basis of Rumanian exports. Of these the most important is grain. The following figures show the quantity exported from 1920 to 1929 and the proportion this bears to the total production.\*

\*Bulletin d'Information de l'Union des Chambres du Commerce, 1930.

Product	Quantity exported 1920-1924		Percentage of total production
	(millions of tons)		
Wheat	270		5.3
Rye	238		2.0
Barley	5,505		38.4
Oats	921		6.4
Maize	6,883		47.9

Table XLII shows amounts and values of the various cereals exported in 1926, 1927, and 1928.

TABLE XLII. HUMANIAN EXPORTS OF GRAIN AND DERIVATIVES IN 1926, 1927  
AND 1928\*

	1926		1927		1928	
	Tons	Value in 1000 lei	Tons	Value in 1000 lei	Tons	Value in 1000 lei
	:	:	:	:	:	:
Wheat	267,746	3,406,791	209,243	1,889,472	27,922	254,717
Rye	26,563	212,220	61,064	446,531	32,519	257,944
Maize	690,387	4,757,923	1,766,143	9,554,835	473,135	3,575,066
Barley	581,002	3,873,323	703,203	5,154,479	414,549	2,846,152
Oats	61,187	373,878	89,309	533,714	16,859	112,179
Millet	13,854	78,239	21,849	140,268	4,844	38,282
Wheat flour	108,445	1,660,548	67,080	863,687	24,366	316,434
Bran	35,050	1,477,122	74,597	274,425	54,926	211,098
Total		15,840,014		18,862,411		7,611,872

Livestock exports are next in importance to grain exports. Considerable quantities were exported before the War, and after the War the exports of beef cattle and cows increased rapidly up to 1924, when they began to diminish. The export of swine has been highly variable in the past 10 years, as the following figures show:\*\*

Year	Number of animals exported		Percentage of total production	
	Cattle	Swine	Cattle	Swine
1920	1,587	355	0.2	0.0
1921	7,435	73,096	9.1	5.5
1922	149,125	176,323	8.3	13.6
1923	104,270	900	12.8	0.0
1924	106,686	82,513	13.0	6.4
1925	84,144	191,132	10.3	15.1
1926	65,382	192,465	8.0	14.9
1927	62,632	269,837	7.7	20.9
1928	75,654	192,892	9.2	14.9
1929	92,516	112,823	11.4	8.6

Table XLIII shows the number and value of animals exported. Data on dairy products are given below (table XLIII).

\*Correspondance Économique, May-June 1929, p. 247.

\*\*Bulletin d'Information de l'Union des Chambres de Commerce, 1920.

TABLE XLIII. RUMANIAN EXPORTS OF LIVESTOCK IN 1926, 1927, AND 1928\*

	1926		1927		1928	
	Number of: head	Value in lei	Number of: head	Value in lei	Number of: head	Value in lei
Bulls	1,052	23,670	1,234	24,893	3,339	68,071
Oxen	59,818	1,465,541	59,242	913,563	69,045	901,883
Cows	2,039	38,741	2,106	22,797	3,270	32,046
Sheep	13,724	8,972	11,669	856	2,784	1,606
Rams	12,674	13,455	8,471	6,664	8,936	6,183
Pigs	188,819	1,422,323	269,837	1,472,900	192,394	1,025,785
Total		2,972,702		2,441,673		2,035,574

TABLE XLIV. DAIRY PRODUCTS EXPORTED, 1921-1930\*\*  
(in quintals)

Year	Fresh butter	Melted butter	Cheese
1921	450	728	4,386
1922	43	131	3,377
1923	4	2	2,664
1924	13	590	121
1925	17	864	6,139
1926	281	835	5,523
1929	860		1,139
1930	582		252

Wood has always been of a good deal of significance among Rumanian exports. During the years of the agricultural crisis certain deficits in the balance of payments due to lack of grain were made up by the export of wood. Firewood has been the basis of wood exports during the past ten years, wood for construction taking second place with boards of oak or fir, semi-finished, coming third. Table XLV gives amounts and values of classes of wood exported.

\*Correspondance Economique, May-June 1929, p. 247.

\*\*There are no data for 1927-1928.

TABLE XLV. RUMANIAN WOOD EXPORTS IN 1926, 1927, 1928\*

	1926	1927	1928			
	Tons	: Value in : 1000 lei	Tons	: Value in : 1000 lei	Tons	: Value in : 1000 lei
Fir logs	: <sup>m</sup> 33,419:	37,542:	: <sup>m</sup> 5,619:	8,396:	: <sup>m</sup> 7,934:	10,388
Firewood	: 1,032,013:	787,488:	: 703,436:	477,388:	: 648,227:	411,860
Building timber(oak)	: 10,321:	65,803:	: 15,074:	70,747:	: 10,291:	91,853
Building timber (beech, etc.)	: 64,215:	235,158:	: 69,249:	200,709:	: 85,283:	253,729
Boards and other resinous timber	: 1,055,089:	4,535,749:	: 989,872:	3,613,636:	: 1,083,783:	3,883,151
Total	: :	5,661,740	: :	4,370,876	: :	4,650,981

Import figures available are less detailed. Table XLVI gives total imports and exports of Rumania for 1925-1929, and table XLVII gives agricultural imports and exports by main classes of products for 1923-1927.

TABLE XLVI. FOREIGN TRADE OF RUMANIA, 1925-1929

	1925	1926	1927	1928	1929
Imports	: 30,098	: 37,164	: 35,752	: 32,145	: 29,896
Exports	: 29,125	: 38,224	: 38,920	: 26,920	: 28,914
Balance	: - 973	: + 1,060	: - 5,225	: - 5,225	: - 982

TABLE XLVII. RUMANIAN EXPORTS AND IMPORTS OF AGRICULTURAL PRODUCTS;  
AVERAGES FOR THE YEARS 1923-1927\*\*

	Exports 1923-1927			Imports 1923-1927		
	Quantity (in tons)	Percent of total	Value (in thousands)	Quantity (in tons)	Percent of total	Value (in thousands)
Total vegetable products	: 1,931,666:	34.81:	14,903,113:	: 47.35:	69,767:	7.93:
Grain and grain products	: 1,734,953:	32.17:	13,049,601:	: 41.46:	27,353:	3.16:
Other vegetable products	: 146,713:	2.64:	1,853,512:	: 5.89:	41,414:	4.77:
Animal products	: 89,168:	1.61:	3,925,140:	: 12.47:	14,276:	1.65:
Total Agricultural products	: 2,020,834:	36.42:	18,828,262:	: 59.82:	83,043:	9.58:

\*Correspondance Economique Roumaine, May-June, 1939, p. 248.

\*\*La Roumanie Agricole, 1929.

TABLE XLVII. RUMANIAN EXPORTS AND IMPORTS OF AGRICULTURAL PRODUCTS;  
AVERAGES FOR THE YEARS 1923-1927 - continued

	Exports 1923-1927			Imports 1923-1927		
	Quantity (in tons)	Percent of total	Value (in thousands)	Percent of total	Quantity (in tons)	Percent of total
Forest products	2,233,564	40.26	5,191,447	16.49	37,097	4.28
Petroleum	1,011,291	18.23	5,867,966	18.64	4,641	0.54
Other products	282,334	5.09	1,589,470	5.05	742,021	85.60
Total	5,548,023	100.0	31,477,145	100.0	866,802	100.0
					29,373,802	100.0

A<sup>1</sup>. Fertilizer: Production, Import, and Export

Little information is available on this subject. The production of chemical fertilizer in Rumania has been little developed. There are three factories manufacturing phosphates, the fertilizer most used in the country, with a production, in 1926, of 12,500 tons; a factory for the manufacture of ammonia sulphate with an annual production of around 395 tons (average 1923 to 1927); and a factory producing calcium cyanide, 20,000 tons annually, 95.5 percent of which is exported. In general it can be said that the home production of fertilizer is sufficient to fill the home demands for phosphates.

Table XLVIII shows the production, import, and consumption of chemical fertilizer in 1929 and 1930. Potash is imported mostly from Germany and Poland, but the consumption is only 300 to 400 tons annually. The total imports and exports of chemical fertilizer of Rumania in 1927, according to the Commerce Exterior de la Roumanie, were 2,926,392 kilograms valued at 13,594,000 lei and 21,884,252 kilograms valued at 172,445,000 lei. La Roumanie Agricole (p. 189) states that in the year 1926 there were exported 60,000,000,000 kilograms of natural fertilizer worth 1,500,000,000 lei.

TABLE XLVIII. PRODUCTION, IMPORT, AND CONSUMPTION OF ARTIFICIAL FERTILIZER DURING THE YEARS 1929, 1930\*

Fertilizers	Production		Consumption	
	1930	1929	1930	1929
	Tons	Tons	Tons	Tons
Calcium superphosphate	10,296	5,201	6,110	5,020
Bone meal superphosphate	1,570	1,450	726	1,039
Natural superphosphate	8,100	8,480	5,441	8,445
Imported superphosphate	-	-	418	1,590
Degelatinized bone meal	1,600	1,270	1,160	1,030
Bone meal	820	910	-	-
Hornmeal	200	465	-	-
Imported bone meal	-	-	25	48
Calcium cyanide	6,043	-	4,382	16,019

\*The above data are the results of an inquiry undertaken by Mr. A. Frundianesco, of the Institute of Agronomical Research, and are based on the material put at his disposal by the societies, Maraseti, Nitrogen, and Phoenix. (Buletinul Informativ al Ministerului Agriculturii, 1931.)

TABLE XLVIII. PRODUCTION, IMPORT, AND CONSUMPTION OF ARTIFICIAL FERTILIZER DURING THE YEARS 1929, 1930 - continued

Fertilizers	Production		Consumption	
	1930 Tons	1929 Tons	1930 Tons	1929 Tons
Imported calcium cyanide	-	-	44	169
Sulphates	2,606	1,882	2,251	2,039
Imported sulphates	-	-	2,730	1,662
Potash	-	-	57	125
Imported potash	-	-	439	1,252
Imported sodium nitrate	-	-	421	428
Other imported chemicals	-	-	227	62

B'. Power on Farms

Sources listed in Part I are Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, Statistica Agricola, and Statistica Masinilor; Ministerul Agriculturei si Domeniilor, L'Agriculture en Roumanie, and Buletinul Agriculturei; Ministerul de Industriei si Comert., Correspondance Economique, and Buletinul Statistic.

There is not much information with regard to power on farms in Rumania. Some information as to animal and motor power can be found in the official reports of the Ministry of Industry and Commerce, published in the Correspondance Economique, 1926 and 1927, and the Buletinul Statistic General. While these reports contain no detailed discussion of work animals, they state that draft animals play a very important rôle in Rumanian agriculture and that therefore the Government has put much effort into the improvement of the existing stocks. Their number in 1926 is given as follows: Horses, 1,002,299; oxen, 2,474,769; buffaloes, 53,655; mules, 1,270; and asses, 6,554. La Roumanie Agricole, 1929, in its discussion of animal production in Rumania, mentions briefly the work done by the animals in the various agricultural enterprises. Mr. Jean Camarasesco's estimates on work animals are quoted to the effect that a pair of oxen can do the work necessary for 20 hectares of arable land, and a pair of horses the work necessary for 25 hectares; in addition to hauling the products to and from the market centers, often a considerable distance from the farm. The Statistica Animalelor, 1930 gives a fuller discussion of work animals in Rumania. According to its estimates there are about 195 work animals per 1000 hectares of arable land. The following table shows the number of animals per 100 hectares of arable land in various parts of the country.

Work Animals per 100 Hectares of Arable Land, 1930\*

Region	Horses	Oxen	Total
Plains of Moldavia	9.6	8.6	18.2
Carpates of Moldavia	16.6	10.8	27.4
Carpates of Muntenia	11.2	16.6	27.8
Danubian Plain	10.2	10.6	20.8
Dobrogea	11.4	4.4	15.8
Northern Bessarabia	12.9	5.0	17.8
Southern Bessarabia	9.5	1.8	11.4
Bucovina	19.3	2.9	22.7

\*Statistica Animalelor, 1930.

Work Animals per 100 Hectares of Arable Land, 1930

continued...

Region	Horses	Oxen	Total
Transylvania Plateau	10.3	12.5	22.8
Plain of Tissa	13.9	6.5	20.4
Northern Transylvania	10.1	9.5	19.6
Total Rumania :	12.3	7.6	20.4

It appears that the number of horses employed in agricultural work is somewhat greater than the number of oxen especially in Bucovina and Southern Bessarabia. In certain sections, however, the ox is predominant. As for motor power use in Rumania, up to 1927 it was only in its infancy.\* Dr. C. Nitzesco, inspector in the Ministry of Agriculture and Domains, stated that the two difficulties in the way of the use of mechanically driven machinery were the lack of trained and skilled mechanics in the country, and the lack of well-equipped workshops for necessary repairs as well as extra parts and accessories. Statistics of agricultural machinery in use in 1927 are presented in *L' Agriculture en Roumanie* for all provinces and prefectures in Rumania. There is, however, no information as to how the data were gathered. The numbers of motors and threshing machines were as follows:

	Tractors	Threshing machines	Other generators of motor force
Old Kingdom	1,590	5,408	
Bessarabia	252	1,159	
Bucovina	46	287	
Transylvania	1,369	5,925	
Rumania	3,257	12,779	11,885

One tractor is found for every 3,822 hectares of land. It is of interest to note here that in 1926 the Ministry of Agriculture and Domains owned 50 tractors of 40 hp. which were used in various localities in the country. Information for 1927 on agricultural machinery and implements drawn by animals is presented as follows:

Implements	No. of implements	No. of hectares per implement
Ploughs	1,684,389	7.4
Harrows	1,098,902	11.3
Drill machines	42,428	293.4
Hoes	319,139	39.0
Reaping machines and corn cutters	55,470	224.4
Wagons and carts	1,660,787	7.4

The 1930 agricultural census in Rumania made a detailed inquiry concerning farm machinery in the country. Part VIII of the schedule asked for information on the following: Simple ploughs with wooden beams; universal ploughs with iron or steel beams; wooden harrows; iron harrows; drill machines; wooden ploughs; iron ploughs; simple reaping machines; reaping machines with gear bound to sheaf; machines for threshing corn; threshers pulled by motor; other implements; locomotives and motors; tractors; wagons and carts. The results of the census, however, are not yet available.

With regard to power used in the forest industry, statistics are available only in reports published by the Ministry of Industry and Commerce.

\*Official reports of the Ministry of Industry and Commerce.

There are three kinds of motor power used: Animal traction. (Used in small farm enterprises with either single saw or a circular one); sawmills; mechanical power (Available in Rumania in the form of steam generators, hydraulic wheels, steam engines (portable) electric motors, and internal combustion engines). Regarding hydraulic motors, the horsepower of waterfalls is given as determined by the formula:  $1,000 q.h. : 75$ ; where  $q$  represents the flow in cubic meters per second and  $h$  the height of the waterfall in meters. A fraction of this power is utilized in a greater or smaller degree by the various hydraulic engines. More detailed statistical information on motive power in the forest industry of Rumania will be found in official reports on forests published in the references given above.

#### C'. Use of Fertilizer in Agricultural Production

The use of chemical fertilizer in Rumania is very recent and the needs of Rumanian soils and the fertilizers to fill these needs are not yet known in detail. In 1928 the Institute of Agronomical Research undertook its first experiments with fertilizer. The purpose of these experiments was to determine the quantities of nitrogen, phosphorus, and potassium available for the crops on the principal soil types, and to test the coefficients of Mitscherlich. Many laboratory experiments were conducted at l'Ecole Supérieure d'Agriculture of Nerastrau and on the land in 17 different localities. All showed that all soils in Rumania need nitrogen first of all and then phosphorus. Potassium on the other hand is found in sufficient quantities. As for the coefficients of Mitscherlich, they proved to be too small for the soils of Rumania which are much richer than those of Germany. The results of the soil study, according to the method of Mitscherlich, was published by Professors Saidel and Jonescu-Sisesti in a report made to the International Congress of Agriculture, Bucharest, 1929.\* During the year 1929 the laboratory experiments were continued. The results, published in the Bulletin de l'Institut de Recherches Agronomiques confirm the previous findings. During the same year, the Ministry of Agriculture distributed the sum of 5,000,000 lei to encourage the utilization of chemical fertilizer. Experiments were made in the same year in Arges, Olt, Salaj and Maramuresh.

As to actual consumption in Rumania, superphosphates are used most, but the consumption of this fertilizer is insufficient compared with the cultivated area of the country. In 1926 4300 tons were consumed, 8,100 tons in 1927, and 15,000 tons in 1928. This last figure shows that, at the rate of 300 kilograms of fertilizer per hectare, only 50,000 hectares were fertilized, or 4 percent of the total cultivated area (13,000,000 hectares). Cyanide of calcium is also used somewhat, 900 tons in 1927 and 2400 tons in 1928. The potassium fertilizers are used only in a very insignificant amount, from 300-to 400 tons annually. Table XLVIII in section A', shows the amount of chemical fertilizer used in Rumania in 1929 and 1930.

#### D'. Prices of Farm Products

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Ministerul Agriculturiei, Industriei, Comerciului si Domeniilor, Réponse Officielle and Evaluatiunile Intinderilor; Ministerul

\*Etude des Principaux Types de Sols de la Roumanie par la Méthode Physiologique Végétale, afin de Déterminer leur Contenu en Azote, Phosphore, et Potassium et leur Besoin en Engrais.

Agriculturei si Domeniilor, L'Agriculture en Roumanie; Ministerul de Industrie si Comert., Correspondance Économique Roumaine, Anuarul Statistic, Buletinul Statistic, and Statistica Preturilor. Other important sources of information are Le Bulletin de l'Union des Chambres de Commerce, 1926-1931; Buletinul Informativ al Ministerului Agriculturii si Domeniilor, 1930-1932; Preturile Produselor Agricole Negociate pe Principalele Piete ale Tarii. Ministerul Agriculturii si Domeniilor. Bucarest, 1911-1916.

Most of the information on the prices of farm products is to be found in studies made of prices in general. There are some data for agricultural products as such, but they have to do only with crops. From 1911 to 1916 the general statistical service of the Ministry of Agriculture and Domains published regularly the prices of products bought in the principal markets of Rumania (Braila, Constantza, Bucharest, and Galatz). These prices were average prices per 100 kilograms, and were calculated from the average of prices paid, registered by the official quotation of the principal exchanges. The prices were given for wheat (80-81 kilograms per hectolitre, 74-77 kilograms per hectolitre and 74-77 kilograms per hectolitre), rye, barley, oats, maize, kidney beans, and rapeseed. Price data in the postwar period are available in Le Bulletin Informatif of the Ministry of Agriculture which publishes the prices of agricultural products and gives for each year indexes based on the prices of 1913. The prices for 1928, 1929, and 1930 were communicated by the agricultural advisers of the regions and are those obtained by the producers.

The indexes for groups of products and the general annual index, are weighted averages, taking into consideration the value of each product. In the calculation of these index numbers 1913 prices were adjusted to the new stabilized level of the lei. In order, therefore, to compare them with other published indexes, it is necessary to multiply them by 32.26, the coefficient of devalorization. The prices of grain (rye, barley, oats, maize, beans) are given per kilogram in markets in the interior (in lei) and per 10 tons on the market of Braila. For this last market daily prices are published in Le Bulletin; later monthly, triennial, and annual averages are calculated. Table XLIX following shows the indexes of the prices of agricultural products for 1931 and for the last of 1930.

TABLE XLIX. INDEXES OF PRICES OF AGRICULTURAL PRODUCTS FOR 1931\*

		Prices : Index numbers (1913=100)					
		for 4th : 1931				: 1930	
		Quarter : (quarters)				: (quarters)	
: 1931		4th	3rd	2nd	1st	: 1st	
: Lei per :							
: quintal :		IV	III	II	I	IV	
<u>Grain</u>		:	:	:	:		
Wheat		:	-	47	54	66	57
Maize		:	242	44	44	58	55
Barley		:	158	43	63	71	60
Oats		:	206	56	50	66	52
Rye		:	258	74	71	86	62
<u>Meadows</u>		:	200	49	49	60	61
Artificial		:	-	51	49	58	58
Natural		:	135	60	58	67	71
		:	102	45	44	53	51

\*Buletinul Informativ al Ministerului Agriculturii, 1930, 1931.

TABLE XLIX. INDEXES OF PRICES OF AGRICULTURAL PRODUCTS FOR 1931  
continued

Products	Prices :		Index numbers (1913=100)				: 1930 (quarters)	
	: for 4th: : Quarter:		1931 (quarters)					
	: 1931 : 4th : 3rd : 2nd : 1st		: 1st					
	: Lei per : : quintal :	IV	III	II	I	IV		
<u>Food Crops</u>	:	:	:	:	:	:		
Beans	:	-	51	67	86	80	76	
Peas	:	325	44	65	90	92	98	
Onions	:	300	68	98	125	136	136	
Potatoes	:	310	81	69	78	80	60	
Cabbage	:	135	43	63	78	61	50	
<u>Industrial Crops</u>	:	-	81	83	100	107	107	
Rapeseed	:	245	92	93	103	101	110	
Flax	:	450	51	54	54	46	36	
Linseed	:	2,500	111	111	115	115	115	
Hemp	:	450	52	46	102	87	100	
Hempseed	:	2,000	103	103	115	115	115	
Sugar beets	:	500	95	115	127	105	84	
Tobacco	:	106	115	115	115	115	123	
Wine	:	1,778	80	80	80	80	117	
	:	50	42	60	65	62	68	
Index of prices of agricultural products	:	-	48.7	58.2	69.3	62.7	64.0	
Index 1930	:	-	64.0	87.7	90.9	99.1	:	

85.5

As for prices in general, data are available for some years prior to 1916; but where they were published or when they were first published cannot be ascertained from the available literature. After 1919 average prices for short periods within the specific year were given in the *Buletinul Statistic*. The official publication of the price-reporting service in Rumania is, however, the *Statistica Preturilor*. Before the War price data were gathered by inspectors (*verificatorii*) while performing their chief duty, the examination of weights and measures. Since the War, however, because this price-recording work interfered with the regular duties of these inspectors, the Statistical Bureau has been obliged to depend upon information furnished monthly by the Chamber of Commerce and Industries, in some instances by the mayors and even by the police service. The old price-recording service had the advantage that the agents were directly responsible to the Director of Statistics who could then more easily direct their work. The new service cannot by its very nature be so well coordinated. Schedules are sent out on which the maximum and minimum current market prices of each article are recorded.

From the instructions on the schedules for 1930 the following information as to the nature of these prices is obtained.\* In the first place each commodity price is the price for that quality of the commodity which is most in demand. For example meat prices are not prices of roasts but of meat for

\*Bureau of Statistics, in answer to inquiry. See p. 83.

stewing which is cheaper. For clothing and shoes, the prices are not those of first-quality merchandise, but those which a clerk or worker living on a monthly wage of 200-300 lei at 1914 valuation (today at least 8,000-12,000 lei) could afford. These prices, obtained weekly by a visit of the agent to the market, are averaged semi-monthly to get the price to be reported on the schedule; for example, if the price of beef is 30 lei on week and 35 lei the next week, the price quoted in the schedule will be 32.50 lei. The actual prices rather than regulated prices are used, because in practice goods are often sold for prices other than those set by a community or town.

The official statistics are not concerned with prices charged by particular merchants, but consider rather the current prices in market places and public markets which supply the great mass of consumers. The *Statistica Preturilor* states that for this reason the average prices published by the Statistical Office differ from those prepared by private parties. It will be noted that there is no distinction made between wholesale and retail prices. Market prices in Rumania are in general, however, retail prices, especially when the goods are displayed in the public markets for sale. In small villages and towns there is no difference between the prices charged for commodities sold in stores and those charged for the same commodities sold in the open public markets where the peasants take their goods to sell. Neither is any distinction made between farm prices and central market prices. These semi-monthly average prices are reported to the Institute of State Statistics during the first three days of the next month. The data are compiled and published in the *Statistica Preturilor* in two inclusive tables. The first table shows the average prices from year to year of some of the most important articles of consumption in Rumania, classified as follows:

	<u>Unit of measure</u>
1. Bread - three qualities	1 kg.
2. Meat - beef, pork, and mutton	1 "
3. Fowls	1
4. Fish - usually fresh	1 kg.
5. Animal products, vegetables and colonial products	1 " or litre
6. Drinks	1 "
7. Legumes (dry)	1 "
8. Fruits - apples and raisins	1 "
9. Fuel and other products	100 " or litre

The above classification of products of consumption has been the same since 1911. The second table presents the monthly average prices of certain of the necessities of life in about fifty cities and towns. It is not clear which towns are urban, rural, or semi-urban. In the case of the large cities, of course, there is no doubt as to the character of the population and the level of prices existing there. The classification of the necessities of life was modified in 1925 and again in 1927 as compared to the classification adopted in 1921. Following is a comparison of the classifications used in these three years:

<u>1921</u>	<u>1925</u>	<u>1927</u>
1. Animals and animal products.	1. Meat.	A. Food substances.
2. Products of the soil	2. Animal food products	1. Fresh meat (2 classes)
3. Products of mines.	3. Manufactured grain products.	2. Canned meat (3 classes)
4. Manufactured products.	4. Poultry	

1925 (continued)

5. Fish
6. Other animal products
7. Clothing and shoes
8. Grain
9. Products from colonies (tea, sugar, coffee, etc.)
10. Fuel, etc.
11. Construction materials.

1927 (continued)

3. Fats (butter, lard) (4 classes)
4. Oils (3 classes)
5. Poultry (5 classes)
6. Fresh fish (3 classes)
7. Other food products (13 classes)
8. Products from colonies (3 classes)
- B. Clothing and shoes (5 classes)
- C. Miscellaneous products
1. Fuels, etc. (4 classes)
2. Building materials (5 classes)
3. Grain

Why grain is not under "food substances" is not known. The 1930 schedule is like that of 1927 with the following addition: D. Rents for furnished and unfurnished rooms, and for 2-room and 3-room unfurnished apartments. Monthly and yearly prices are given for each of the commodities mentioned above for each town from which the information is collected and are averaged for each month and for the year. Prices are quoted per kilogram for the meat, butter, manufactured grain products, fish, colonial products, and cheeses. The prices of eggs are quoted per 100 pieces, for poultry per piece, for milk, olive oil, denatured alcohol, and petroleum, per litre, and for all grains, such as wheat, maize, and barley, per 100 kilograms. (For further information and for data, see section Y.)

Discussion of the prices of Rumanian commodities naturally involves consideration of the depreciated value of the lei, the monetary unit of the Rumanian Kingdom. Prices of 1919 and 1920 were much higher than prewar prices. The *Statistica Preturilor* gives a thorough explanation of the forces that have worked to diminish the buying power of the lei during the War and especially during the four or five years following the War. Such a study may be helpful to those who wish to follow more closely the index numbers of the prices of farm products and other commodities during the past twenty years.

The *Statistica Preturilor*, 1925, explains how the index numbers of the Institute of General Statistics, showing the price movement of the commodities discussed above, are constructed. Until 1926, 1914 was selected as the base year with an index of 100; since then it has been 1913. Prices used are the current average prices without regard to the quantities of each article or commodity sold. In order to secure more comparable results, certain imported articles, whose prices were enormously increased and whose use was somewhat restricted in the average household, were left out of consideration. The index numbers up to 1925 are as follows:\*

Year	Index	Year	Index
1914	100	1923	2,500
1921	1,305	1924	2,985
1922	1,708	1925	3,250

These index numbers according to the *Statistica Preturilor*, are always inferior to those established by private studies due to the methods employed in the assembling of the data and their calculation, and to a large extent to the kinds of articles or products which are selected to serve as a basis for the evaluations. The *Statistica Preturilor* also publishes each year the index numbers of other countries and draws many comparisons with price levels

\*For later index numbers, see section Y.

in general. More recently some work has been done with wholesale prices. Table L following shows wholesale and retail prices, the "Argus" index of retail prices and some cost of living indexes. How the wholesale price indexes are made up is not known. Besides the official indexes there are many other unofficial studies concerning the movement of prices and cost of living in Rumania. La Situation Économique et Financière de la Roumanie en 1929 by M. Libros gives a brief survey of the evolution of prices and cost of living in Rumania. It states that the purchasing power of the lei decreased still more in 1929, but that for the first time since the War the index of prices was lower.

TABLE L. INDEX FIGURES OF RETAIL AND WHOLESALE PRICES AND COST OF LIVING (1914=100)\*

Years	Ministry of Industry and Commerce			"Argus" index	
	Retail prices	Wholesale prices	Cost of living	of retail prices in Bucharest (1)	
1922	1,708	-	-	1,945	
1923	2,500	-	-	3,008	
1924	2,985	2,993	-	3,948	
1925	3,250	3,226	3,291	4,551	
1926	3,552	3,207	3,466	5,134	
1927	3,851	3,544	3,811	5,214	
1928	3,989	3,955	4,128	5,438	

#### E. Value of Agricultural Production

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Ministerul Agriculturei si Domeniilor, L'Agriculture en Roumanie, Statistica Agricola, and Buletinul Agriculturei; Ministerul Industriei si Comert., Correspondance Économique, Anuarul Statistic, Buletinul Statistic and Statistica Preturilor. Other important sources of information are XIV<sup>me</sup> Congrès International d'Agriculture, La Roumanie Agricole, 1929; Le Bulletin de l'Institut Économique Roumain, 1930; Bulletin d'Information et de Documentation de la Banque Nationale de Roumanie, 1929.

From the available literature it appears that there are no statistics on the values of agricultural production as a whole. The Anuarul Statistic records monthly and yearly prices for various articles of consumption, including meat, butter, oils, poultry, grain, etc., but it does not give any figures on the value of agricultural products. Most of the available information concerns crop production. An estimate of the total value for 1912-1914, based on the average price per hectolitre, is given in Statistica Agricola as 1,267,425,320 lei. The next evaluation of crop production was made for the harvests of 1919 in the provinces of the Old Kingdom, and the results were published in the Buletinul Statistic in 1920. The gross value

\*Bulletin d'Information et de Documentation de la BNR. 19.

(1)The Indexes of Argus, the leading Rumanian financial journal are calculated monthly only for the city of Bucharest. These indexes are compiled from 21 foodstuffs, 9 articles of clothing and 10 miscellaneous articles (soap, firewood, lamp oil, gas, leather) and have as the base price that of August 1, 1916. The method of calculating the Argus indexes has never been published.

was estimated by applying average prices to the data on production. Average prices for 1919 and 1920 were available for crops included in the general categories of grain, oleaginous plants, potatoes, legumes, hay, and straw. For other agricultural crops the prevailing prices in the markets of Bucharest and the various departments of the country, reported to the Statistical Service by various agricultural associations and regional advisers were used. It is not known to the writer whether the estimates of gross value were made by applying average prices in the community to the production data of that community and later adding the series to arrive at a total value estimate for the country, or by applying average prices for the entire country to the total production. However the figure obtained for total gross value was 5,941,388,319 lei. The Statistical Office points out that the difference in values for 1914 and 1919 is due in part to the inflation of prices during the period 1914-1919; it has prepared a general comparison of the value of agricultural products for these two periods. Throughout the following discussion the enormous inflation of Rumanian currency should be kept in mind.

The summarized gross value and acreage value per hectare are also given in the Buletinul Statistic for the following general classes of crops harvested in 1919: \* Grain, oleaginous and textile plants; leguminous plants and tubercles; industrial plants, tobacco, beetroot, etc.; products of the garden; forage crops, roots, clover, etc.; plantations, including vineyards, plum trees, etc. The value of grain in 1919 represented about 77 percent of the total value of crops in the Old Kingdom. The value of all other products is given per hectare in lei. Values are reported for crops grown separately and in combination with other crops.

As no regular statistics were available for the orchards in Rumania in 1919, the value of the harvests of plums only is given in the evaluations of 1919. The average value in that year of one hectare \*\* of plum trees (not the product, but the trees) was 766.56 lei. The value of plums is calculated on the basis of metric quintals. The Statistica Agricola, however, does not record any values of agricultural products for the past twenty years except for the period 1911-1915 when only the total value of the wine produced is shown, based upon the average price per hectolitre.

Since 1927 the values of the most important farm products included in the following categories have been reported in the Statistica Agricola: \*\*\* Grain; food substances; industrial products; hay from natural and artificial meadows; products of vines and plum trees. The values for the year 1927 were stated to be approximate only, but no statement was made concerning the values for the following years. The total value of agricultural crop production, estimated on the basis of average prices in each year, amounted in 1930 to 56,022,000,000 lei in comparison with 96,563,000,000 in 1929. The value of grain represented 31,336,000,000 lei or 55.9 percent of the total value in 1930 in contrast with 59,187,000,000 or 61.2 percent in 1929. The

\*Data are also recorded on the crops included in these classes as to total area cultivated, total production, average yield per hectare (measured in quintals), average price per 100 kilograms (See sections J and N).

\*\*It was estimated in the Statistica Agricola of 1901-1905 that on the average there were 600 plum trees per hectare. (See section N).

\*\*\*In addition to the value of crops production in metric quintals and the average yield per hectare are reported. (See sections J and N).

value \* of individual crops of the above classification is shown by the following figures (Table LI).

TABLE LI. VALUE OF CROP PRODUCTION, 1929

Crops	Average price of sale per quintal (in lei)	Gross value of production (in lei)	Average value of production per hectare (in lei)
1. Grain	:	:	:
Wheat	: 310	: 11,033,017,490	: 3,610
Maize	: 235	: 10,621,812,235	: 2,399
2. Food plants	:	:	:
Lentils	: 775	: 101,673,025	: 6,222
3. Industrial plants	:	:	:
Sugar beets	: 105	: 471,004,800	: 10,291
Tobacco	: 1,781	: 428,483,619	: 12,446
4. Artificial and natural meadows	:	:	:
Clover	: 155	: 639,323,385	: 4,682
Forage roots	: 100	: 499,269,700	: 15,475
5. Trees and vines	:	:	:
Plum trees	: 500	: 1,527,352,500	: 7,296
Productive vines	: 820	: 6,876,006,600	: 28,670
Total general	:	: 56,022,189,174	: 3,925

*L'Agriculture en Roumanie, 1927*, gives many tables concerning the values of agricultural products and land. One table reports the value of agricultural land, including arable land, natural prairies and pastures, orchards, vineyards, and woods and forests, as having an aggregate value of 679,400,000,000 lei. The value of "les bâtiments d'exploitation" is reported at 68,000,000,000 lei. No explanation is given of what is included in the above term. As to the value of livestock and livestock products there is little information. *L'Agriculture en Roumanie* gives statistics on the value of livestock in 1927 without any explanation as to how the values were estimated. The figures are as follows:

Horses	17,454,900,000 lei
Cattle and buffaloes	47,444,300,000 lei
Sheep	6,470,500,000 lei
Goats	167,400,000 lei
Swine	7,381,900,000 lei
Total	78,919,000,000 lei

*The Correspondance Économique, 1926* gives the value per head in 1926 of the most important classes of animals. For the value of animal products in 1926 see table XXXVIII, section P. Aside from the information in *La Roumanie Agricole*, there is a brief report on animal products in the *Correspondance Économique, 1926*. The value of animal products is in general computed by multiplying total production by the average price for 1926. The

\* *Statistica Agricola, 1930, Partea II.* As no explanation is given as to how these values were calculated, it is not known whether any changes in methods of estimating values have been made.

value of meat products is reported only for beef and lamb, beef being estimated at 25 lei per kilogram, and lamb estimated at an average of 25 lei per kilogram; estimates of the value of milk are made for cow's milk only at 10 lei per litre; the value of sheep's milk is not given, but an estimate is made of the value of cheese made from sheep's milk at 40 lei per kilogram. How these prices are obtained the report does not explain. Neither does it indicate whether these prices are farm prices or delivered prices. The Bulletin d'Information et de Documentation de la BNR, 1930 contains a table giving the value of all animal products for the separate years of 1926, 1927, 1928. Professor C. Brăuneteanu has compiled from official statistics a table of values of all forest products for the year 1928.

#### F'. Agricultural Income

The sources of information on this subject are League of Nations Economic Committee, The Agricultural Crisis, Geneva, 1931; Angelescu, I. N., Avutio Nationala si a Romaniei, Bucharest, 1915, Avutio Nationala si Venitul National... 1928 (Annales Économiques et Statistiques, No. 3-4, Mar.-Apr. 1929); Jordán, D. N., Venitul National al Romaniei (Institutul Economic Romanesc, No. 91); Jonescu Braila, G. and Vaida, M., Valoarea Capitalului Animal si a Productiei Animale (Ministerul Agriculturii si Domeniilor. Directiunea Zootehnica, No. 103). Some of the information in these sources deals more with wealth than with income.

Rumanian statistical sources on crop production such as Statistica Agricola or Anuarul Statistic do not contain any data relating to income derived from agriculture in Rumania. The only available information is that found in a publication of the League of Nation's Economic Committee, The Agricultural Crisis. The part of that report which bears on Rumanian agriculture states that large and small agricultural enterprises alike are working at a loss, as shown by the following figures:

	Production costs per ton				Maximum amount received by producer per ton			
	Lei	£	s.	d.	Lei	£	s.	d.
Wheat	4,840	(5	18	4 1/2)	3,000	(3	13	3 )
Barley	4,620	(5	14	0 )	1,500	(1	16	7 1/2)
Maize	3,800	(4	14	1. )	1,800	(2	4	6 )

The average yield per hectare in Rumania was 12 quintals in 1913, 12.2 quintals during 1923-1927, and 12.2 quintals in 1929. On the basis of an average yield of 12 quintals per hectare the gross receipts and average losses per hectare for large producers are as follows:

	Gross receipts per hectare				Losses per hectare			
	Lei	£	s.	d.	Lei	£	s.	d.
Wheat	3,600	(4	7	0)	1,840	(2	5	1)
Barley	1,440	(1	15	3)	3,180	(3	17	9)
Maize	2,160	(2	12	9)	2,000	(2	9	0)

The small landowners, although working under the advantage of low production costs, are losing, according to the report, "half of the amounts shown by the above figures."

The national revenue of Rumania has been calculated by Mr. Dem. N. Jordan. For the years 1926, 1927, 1928, Mr. Jordan used the method of totaling the value of the economic wealth produced during the year. He was forced to disentangle for each branch of production the value of the net product. Services and rents were evaluated separately. The results obtained were the following (table LIII).

TABLE LII. THE NATIONAL REVENUE OF RUMANIA

	In millions of lei			Percentage		
	1926	1927	1928	1926	1927	1928
<b>A. Wealth</b>						
<b>I. Agriculture and forestry</b>						
1. Grain and other crops	: 69,526	: 61,723	: 81,458	: 41.33	: 38.60	: 43.85
2. Livestock	: 34,025	: 30,282	: 29,340	: 20.23	: 18.93	: 15.69
3. Production of wood	: 7,000	: 7,000	: 7,000	: 4.16	: 4.16	: 3.77
	: 110,551	: 99,005	: 117,798	: 65.72	: 61.91	: 63.41
<b>II. Industry and Mines</b>						
1. Mineral production	: 12,184	: 10,612	: 12,026	: 7.24	: 6.64	: 6.48
2. Industrial production	: 17,428	: 19,137	: 21,262	: 10.36	: 11.96	: 11.45
3. Construction	: 3,215	: 4,487	: 5,686	: 2.91	: 2.81	: 3.06
	: 32,827	: 34,236	: 38,974	: 19.51	: 21.41	: 20.99
Net production of goods	: 143,378	: 133,241	: 156,772	: 85.23	: 83.42	: 84.40
<b>B. Services</b>						
1. Rent	: 16,596	: 17,750	: 19,096	: 9.87	: 11.10	: 10.53
2. Transportation and communication	: -	: -	: -	: -	: -	: -
3. Commercial services, banking, etc.	: 4,999	: 5,007	: 5,169	: 2.97	: 3.13	: 2.78
4. Domestic services	: -	: -	: -	: -	: -	: -
5. Professional services	: 3,246	: 3,911	: 4,251	: 1.93	: 2.45	: 2.29
6. Public services	: -	: -	: -	: -	: -	: -
	: 24,841	: 26,668	: 28,516	: 14.77	: 16.68	: 15.60
Total national revenue	: 169,219	: 159,909	: 185,288	: 100.00	: 100.00	: 100.00
Deductions for payments to foreign countries, not compensated for by the import of goods (public and private agencies, dividends)	: 11,000	: 11,000	: 11,500			
Net national revenue	: 158,219	: 148,909	: 173,788			
Revenue per inhabitant (in lei)	: 9,061	: 8,413	: 9,707			

The conclusions to be drawn from these figures are the following:

1. Agriculture (and allied industries) and forestry constitute about 66-72 percent of the net national revenue.

2. Production of grain is a very variable element. The annual values vary from 10 to 20 percent of the total, causing severe disturbances of the purchasing power of agriculture and everything related to it.

3. The marked growth of national revenue from 1927 to 1928 is in large part nominal, and resulted from the rise in agricultural prices determined by two mediocre harvests.

4. Industrial and mineral production is much more constant. However it has increased constantly in spite of the falling price of from 25 to 30 percent of oil products in 1926-27.

The industrial and mineral production (which includes construction) represented about 28 percent in 1926 and about 33-34 percent in 1927-28 of the total national revenue.

The above figures are a first approximation indicating the lower

limit. A more precise calculation can be made only as Rumanian economic statistics become better.

#### G1. Land Values

Sources listed in Part I are Conciliul Superior al Agricultrei, Tabele de Preturile Regionale; Ministerul Agricultrei, Industriei, Comerciului si Domeniilor, Réponse Officielle, and Statistica Agricola; Ministerul Agricultrei si Domeniilor, L'Agriculture en Roumanie, and Buletinul Agricultrei; Ministerul Industriei si Comerciului, Buletinul Statistic. Other important sources of information are Popovici-Lupa, N. O., Metode de Estimatiune Capitalului Fondiar in Agricultura (Ministerul Agriculturii si Domeniilor, Directiunea Statisticii si Publicatiilor); Cornateanu, N. D., Notiuni de Contabilitate Agricola.

The principal statistical sources in Rumania do not give any data on land values and prices, which seems to indicate that no regular statistical work has been done on this subject. The fact that most of the communes in Rumania do not possess cadasters also makes the study of land values difficult. However publications of the Ministry of Agriculture and Domains, especially the Buletinul Agriculturii, at irregular intervals publish estimates of the value of agricultural land for each of the large provinces and for the whole country. A study of land values by Dr. Popovici-Lupa, issued by the Ministry of Agriculture, shows the method by which "land capital" is evaluated. In Rumania, the term "capitalului fondiar in agricultura," corresponding to the French "capital foncier," includes land, land improvements and farm buildings as does the term "land values" in the United States. The report does not give any information on the estimation of the values of land improvements other than buildings, but it discusses the valuation of land and farm buildings as given below.

Farm building values in Rumania represent from 25 to 33 percent of the total land values (capital foncier). The value of buildings is obtained by subtracting from its initial value the depreciation, figured at a uniform rate, from the time of its construction until the time of evaluation. The rate of depreciation is obtained by dividing the initial value by the number of years of probable duration. The valuation of land is more difficult because of the fact that land sales are not very common in Rumania. Land dealings among the farmers are conducted in a haphazard way according to individual estimation of the value of a piece of land and according to farm experience in a given rural area. Attempts have been made to value the land in two ways: (1) Indirect evaluation, the method of capitalizing, at the current rate of interest, the net return of the land, (2) Direct valuation of land according to the current prices, the usual rent and the taxes. The report gives the exact formulas used.

The report makes special mention of valuation of land such as orchard land and forest land. The value of orchards is estimated in Rumania by capitalizing the difference between the selling value of fruit trees or their products, and the production costs such as plantation expenses, various annual expenses, and rent. Because productivity of orchards increases from year to year, an allowance is made for this in estimates of production costs. The valuation of vinelands or vineyards is much easier because their productivity usually begins in the third year in Rumania. Two years interest only on the cost of planting need be considered for the period prior to their coming into bearing.

As in the case of orchards, the valuation of forest land is made according to the prevailing rate at which the land could be sold. In case a farmer plants his own forest, the expenses of cultivation, administrative expenses, the rent of the land with compound interest and the future value of the forest land are taken into consideration in estimating the value. In 1929 a value estimated roughly at 30,000,000,000 lei (\$180,000,000) was placed on State forests.\* This included trees and land. The value of standing trees was estimated from information obtained through forest management and from reports on new developments as well as from the forest products taken from the forest. Trees were compared to similar ones which had been measured or hewn. The volume thus obtained was multiplied by market prices, auction prices, cost prices, etc. Only those trees which were marketable were taken into account; young and unsalable trees were omitted. The value of the land was estimated from the yield potentialities of the soil as estimated by specially appointed committees, and the future values of the forest land were taken into consideration in estimating the value. For information as to the forests, see section H. An attempt to establish a cadastre of the country's forests is being made.

Estimates of land values on the basis of agricultural debts have been made by the Division of Rural Economy of the Institutul Cercetari Agronomice, in Bucharest. Other land value data have been assembled by La Fel Catedra de Economie Rurala dela Academia de Inalte Studii Agronomice, and by Creditul Hipotecar Agricole, Institutie Creiata de Ceirand. A land value map has been constructed by C. Balut-Cruceru.

#### H'. Interest Rates on Loans to Agriculture

Sources listed in Part I are Ministerul Industriei si Comertului, Moniteur Commercial Roumain; Centrala Obstiilor si a Cooperativelor Agricole, Anuarul Cooperatiei Agricole; Ministerul Agriculturei, Industriei, Comerciului si Domeniilor, Réponse Officielle; Ministerul Agriculturei si Domeniilor, L'Agriculture en Roumanie; Ministerul de Industrie si Comert., Correspondance Économique Roumaine; Anuarul Statistic, and Buletinul Statistic. Other important sources of information are Ministère de l'Agriculture, de l'Industrie, du Commerce et des Domaines, La Roumanie 1866-1906; Juvara, D., Le Problème du Crédit Agricole en Roumanie, Paris, 1928; Rafmoritza, Essai d'Économie Roumaine Moderne. 1831-1931. Paris, 1932.

The only information as to the interest rate charged on loans to agriculture is in the report of the League of Nations Economic Committee on the agricultural crisis in Rumania, which states that the official discount rate is 9 percent. The farming peasants pay the highest interest rate, usually obtaining credit at 18 percent to 50 percent. The smaller the agricultural enterprise the higher the interest generally paid by these operators. Estimates made of the debts on rural property are very approximate; no official inquiry has been made so far.

A brief description of credit institutions and the interest rate charged in 1906 can be found in La Roumanie, 1906. In the Anuarul Statistic for 1929, these credit institutions are divided into 3 classes: Those for large landowners (marii proprietari), those for peasant cultivators, and those for cooperatives. This source publishes tables annually in which are shown the capitalization of each of these institutions, the extent of loans from year to year, and the number of members in credit associations.

\*Bureau of Statistics, in answer to inquiry. See p. 83.

## I'. Wages of Farm Labor

Sources listed in Part I are Ministerul Agriculturiei, Industriei, Comerciului si Domeniilor, Réponse Officielle, and Statistica Preturilor de Munci Agricole; Ministerul Agriculturiei si Domeniilor, Buletinul Agriculturiei; Ministerul de Interne, Creșterea Arenzii, and Invoielile Agricole; Ministerul Industriei si Comerciului, Anuarul Statistic, and Buletinul Statistic. Other important sources are Ministerul Muncii, Cooperatiuni si Asigurarilor Sociale, Misarea Salariilor, 1923-1926 and Buletinul Muncii, 1927-1930; Banque Nationale Roumaine, Bulletin d'Information et de Documentation, 1929-1930; Ministerul Agriculturii si Domeniilor, Buletinul Informativ 1930-1931.

Before the war the small holder generally worked his land alone or with the help of his family. In 1906 there were 985,262 peasants working small holdings, the total area of which was 3,965,215 hectares. On the average a small holding consisted of 4 hectares which required no more than 220 days of work per year. Consequently a small holder with two active persons in his family had a certain number of days which he employed as a rule in working on other estates or large farms. This work on the great estates was often an indispensable condition of the existence of the peasant, and the abuses resulting from it constituted one of the most striking characteristics of the old Rumanian agricultural régime.

The form under which the peasant worked for the estate owner or operator of a large farm was usually the agricultural contract (*invoiala*), written or verbal (the latter kind making up 80 percent due to the ignorance of the population). The system of agricultural contracts was governed by special laws. The most prominent characteristic of this system was the extreme variation in the contracts. The arrangement, statement, stipulated conditions, obligations and penalties differed widely from region to region and even in the same region or prefecture. The publication of the Ministry of the Interior, Agricultural Contracts in Rumania in Effect in 1907, shows how difficult it was for the administrative agencies to make an abstract of the obligations imposed on the workers and to reduce them to a single unit of measure or to transform them according to their real value in money.

La Statistique de Prix des Travaux Agricoles d'apres les Contrats Ecrits et Verbaux pour les Annees 1904-1907, published by the Ministry of Agriculture in 1908, classes the enormous quantity of data in 4 categories: Contracts for land rented on shares; contracts for land in money and labor; contracts for grazing land (either independent contracts or attached to other forms of contract); contracts for labor, in return for money or food received by the peasant in advance. The last category is the most important because from that category it was possible to compile tables of wages of agricultural labor. These tables showed the wages of labor with and without food for all categories of agricultural labor, classed by regions and by seasons. Prewar statistics concerning agricultural wages contain no indexes, and no comparisons have been made with prices established under new conditions of ownership. The figures have a social rather than a statistical interest. It may be noted that the general tendency of agricultural wages was downward during all the long period from the reform of 1864 up to the last rebellion of the peasants in 1908. This decrease of agricultural wages, the more grave as it was inversely proportional to rents, which surpassed greatly in this period the productive power of the peasants, is examined in the book of Dr. Creanga on rents and agricultural wages, issued by the Ministry of Agriculture in 1908.

The situation changed radically after the War and the agricultural reform. The disappearance of the large estates and the strengthening of the peasant class by the redistribution of land have left the determination of the level of agricultural wages to the normal play of supply and demand and to general economic conditions. The first statistics concerning postwar agricultural wages were published by Mr. E. Giurgea in the Buletinul Statistic of 1921-22 on the wages paid during those years in Bessarabia. During the entire decade following, information as to the level of agricultural wages has been confined to data published since 1923 by the Ministry of Labor, first in Le Movement des Salaires, and later in the Bulletin du Travail. The base of the evaluations is the average monthly wage. The averages are arithmetic averages, lack of data preventing the use of a weighted average. The year 1914 has been taken as the base year. Prewar wages of the new provinces have been converted into lei according to the exchange for that year. Observations are made regularly in 43 cities of the country on 108 occupations. An index number of real wages has never been calculated because of the lack of an exact official index of costs of living. Table LIII compares the general index of wages with that for wages in agriculture from 1923 to 1930. Wages are classified in two categories: I. Industry, commerce, agriculture; II. Forestry workers, longshoremen, watchmen, day laborers (salanori); servants.

TABLE LIII. INDEXES OF WAGES IN GENERAL AND OF AGRICULTURAL WAGES,  
1923-1930 (1914=100)

Year:	First Quarter : Gen- eral	2nd Quarter: Gen- eral	3rd Quarter : Gen- eral	4th Quarter : Gen- eral	Annual
1923:	1,583	1,380	1,745	1,571	1,838: 1,847
1924:	2,052	2,420	2,070	2,558	2,109: 2,649
1925:	2,217	2,828	2,291	2,857	2,316: 2,807
1926:	2,395	2,741	2,381	3,094	2,490: 3,179
1927:	2,671	3,099	2,715	3,273	2,714: 3,217
1928:	2,708	3,082	2,764	3,168	2,748: 3,125
1929:	2,739	3,022	2,785	3,132	2,739: 3,112
1930:	2,687	2,762	2,676	2,894	2,672: 2,914

For agricultural wages data are given on the amount of wages paid in 40 centers of the country, the monthly averages, and quarterly and yearly indexes. All the data on wages published in other Romanian statistical publications with the exception of the Bulletin Informatif are extracts from the issues of the Ministry of Labor. Since 1930 the Ministry of Agriculture has published in its Bulletin of Information the wages of agricultural labor for each fortnight, classified according to agricultural regions, seasons, sex, and kind of work (ploughing, hoeing, etc.). Each table contains averages for the country as a whole. At the beginning of each year averages are calculated for the preceding year; Table LIV gives the yearly averages for 1931. The data of the Ministry of Agriculture do not contain indexes, nor has any comparison been made between these data and those published by the Ministry of Labor.

TABLE LIV. THE WAGES OF AGRICULTURAL LABOR IN 1931, in Lei\*

Regions	Hand labor									Labor with wagons			Labor with ploughs		
	Men			Women			Children			wagons			ploughs		
	A**	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Plains of Moldavia	40	43	35	32	35	29	22	25	20	140	150	100	140	125	
Carpathes of Moldavia	40	50	41	30	43	30	21	29	22	130	165	125	150	160	
Carpathes of Muntenia	39	43	35	28	32	26	20	22	19	145	150	120	185	160	
The Plain of The Danube	39	43	35	30	35	28	21	24	20	145	145	125	160	130	
Dobrogea	56	46	40	39	35	30	27	24	19	150	145	140	175	165	
Northern Bessarabia	39	41	35	30	36	27	20	22	19	160	160	135	175	160	
Southern Bessarabia	48	54	39	33	41	30	23	26	20	210	185	140	250	175	
Bucovina	48	45	42	33	36	33	24	25	22	195	185	160	260	180	
The Plateau of Transylvania	57	54	44	40	43	34	26	26	23	210	200	180	275	200	
The Plain of Tissa	53	50	42	41	38	34	28	26	20	165	175	150	260	200	
Northern Transylvania	45	43	35	34	34	27	24	23	17	175	155	125	250	180	
Average, 1931	46	47	38	34	37	30	23	25	20	165	165	135	200	165	
Average, 1930	57	63	53	43	47	39	30	33	26	195	205	186	252	227	

J'. Land Tenure

Sources listed in Part I are Ministerul Agriculturiei, Industriei, Comerциului si Domeniilor, Réponse Officielle, and Statistica Agricola; Ministerul Agriculturiei si Domeniilor, L'Agriculture en Roumanie, Buletinul Agriculturii, and Agriculturii si Repartizarea; Ministerul Industriei si Comerциului, Correspondance Économique, and Buletinul Statistic.

Almost all statistical data concerning the farm population of Rumania deal with the three following classes: (1) owners of small properties, (2) owners of middle-sized properties, and (3) owners of large properties.\*\*\* Detailed discussion on early land ownership according to these three classes may be found in La Roumanie 1866-1906, published in 1906 by the Ministry of Agriculture, Commerce, Industry and Domains. Information for 1911-1915 is available in the Statistica Agricola which records separate crop production on large farms and on small farms.

Before the agricultural reform in Rumania the cultivated area was distributed according to size of farm as follows:

	Number of proprietors	Percentage	Area (hectares)	Percentage
Below 10 hectares	1,075,308	96.1	3,732,195	46.7
From 10 to 100 hectares	39,000	3.5	860,953	10.8
Over 100 hectares	4,171	0.4	3,397,851	42.5

\*Bulletin d'Information du Ministère d'Agriculture, 1930, 1931.

\*\* (A - spring; B - summer; C - autumn)

\*\*\*See section D.

There were thus 1,075,308 peasant farmers or 96.1 percent of the number of owners and 13.8 percent of the total population of the country, who had only 3,732,195 hectares in lots the average area of which was only 3.5 hectares. On the other hand there were 4,171 estate owners, 0.4 percent of the number of owners and only 0.05 percent of the total population, who possessed 3,397,851 hectares, or an average of 815.6 hectares per owner. The middle-sized farms occupied only 860,953 hectares, divided among 39,000 owners, an average of 11.0 hectares per owner. Small holdings were principally in the mountainous regions and the large holdings predominated on the plains. The majority of the latter were rented out. La Roumanie estimates that only 35.6 percent of the revenue from all large holdings of above 100 hectares was produced directly by the proprietors themselves, the remaining 64.4 percent being produced by the farmers who rented the land. Rental terms were very short and on a contract basis. The report does not explain the nature of the contract nor give the number of farmers renting land.

In 1906 the small holdings were distributed according to land tenure as follows: 60 percent owners, 30 percent tenants, and 10 percent share renters. A very important source of information is *Les Agriculteurs et la Répartition des Terres Labourées en 1913*, published by the Ministry of Agriculture in 1915. As was suggested in section D, there is uncertainty at times as to whether the term "propriétaire" as used in Rumanian statistics means owner or operator. In this publication, however, the operators are classified according to the method of land tenure, as reported by the owners and operators to the agents of the Ministry of Agriculture. Table LV showing distribution of land between owners and operators, presents 1896 data for property under 10 hectares, 1905 data for property from 10 to 50 hectares and 1902 data for properties of more than 50 hectares.

TABLE LV. THE DISTRIBUTION OF LAND AS BETWEEN OWNERS AND OPERATORS OF AGRICULTURAL LAND

Size of farm	Land owned (1896, 1902, 1905):			Land operated (1913)		
	Surface in hectares, cultivated	Percent	Surface in hectares, without pastures, and uncultivated land and meadows	Percent	Surface in hectares, pastures, and uncultivated areas	Percent
	and uncultivated land and meadows	age	and uncultivated areas	age	cultivated areas	age
Under 2 hectares	335,212	4.3	572,167	9.7		
2-5 hectares	1,679,997	21.5	1,546,132	26.5		
5-10 hectares	1,137,436	14.6	1,118,592	19.2		
10-50 hectares	695,953	8.9	815,395	14.0		
50-100 hectares	166,385	2.1	107,088	1.8		
100-500 hectares	816,385	10.4	588,070	10.1		
Over 500 hectares	2,993,966	38.2	1,092,177	18.7		
	7,825,334	100.0	5,839,621	100.0		

At the end of the World War Rumanian landed property was subjected to great changes instituted by the agricultural reform, about which much has been written. The *Buletinul Agriculturii* since 1920 has contained a good deal of material bearing upon the subjects of expropriation of land, distribution of small holdings to farmers hitherto renting land for short periods, and related statistical data. Many semi-official books on reform and land

distribution are also available.\* In the Old Kingdom, the agricultural reform laws were passed in 1918 and 1921. The Decree of 1918 (No. 3697) provided for the total expropriation of crown estates, estates of charitable institutions, foreigners' and absentees' estates and partial expropriation on a progressive scale of other large estates to the amount of 2,000,000 hectares. Up to 1924 the total area of expropriated property, including arable lands, meadows, pasture land, and forests, the area of which is not given separately, was as follows:\*\*

From various institutions	428,379	hectares
From the State	329,741	"
From private persons	1,807,746	"
From foreigners	70,818	"
From absentees	71,975	"
Total	2,708,599	"

The agrarian law of 1921 provided for the distribution of the land. Of those entitled to land, the farmer who possessed no land received 5 hectares, the farmer who possessed less than 5 hectares, enough to complete 5 hectares, and the farmer who was disposed to colonize thinly populated regions, 7 hectares.(1) The amount of indemnities paid by the State to the farmer owners and the prices fixed by the expropriation commissions are given in detail in the above-mentioned laws for each of the Rumanian provinces. Whether or not part of the indemnity was paid by the individuals who received the land is not shown in the available bibliography.

Laws with similar features were also enacted for distribution of the land in the new provinces, the only difference being the amount of land expropriated which naturally varied according to the agrarian situation in each province. The total expropriated area to January 1, 1925 for all provinces of Rumania is given in the *Anuarul Statistic* as follows:

	<u>Lands expropriated</u>
1. Old Kingdom	2,707,959
2. Bessarabia	1,491,920
3. Bucovina	73,494
4. Transylvania	1,580,776
Total for Rumania	5,854,149

\*Ioanescu-Sisesti, *La Réforme Agraire*, Bucharest, 1920. Basilescu, N., *La Réforme Agraire en Roumanie*, Paris, 1919. Becarn, V., *La Réforme Agraire en Roumanie*, Paris, 1928. La Loi pour la Réforme Agraire dans l'Ancien Royaume, Bucharest, 1921. La Loi pour la Réforme Agraire en Transylvanie, Bucharest, 1921. La Loi pour la Réforme Agraire en Bessarabie, Bucharest, 1918. La Loi pour la Réforme Agraire en Bucovine, Bucharest, 1919. La Roumanie Agricole, 1929.

\*\*The agrarian reform in Rumania. This pamphlet was obtained from the Rumanian Legation in Washington. From the title-page it cannot be ascertained whether or not this is an official publication.

(1) *Ibid.*

By 1927 the expropriated area had increased to 5,962,000 hectares.\* Of this, 3,440,632 hectares had been distributed to 1,475,751 villagers who prior to 1927 were not in the possession of land or who possessed less than 5 hectares, yet were employed in agricultural occupations either as farm workers or as renters of land.\*\* The remaining expropriated area of about 2,521,368 hectares had been assigned to the pasture lands and forests of the communes (table LVI). According to the *Anuarul Statistic*, there were 610,105 villagers employed in agricultural occupations who were not put in possession of land. No further information is available as to the status of these farmers. It may be that they still rent the land from landowners and will do so until further expropriation of lands occurs. Table LVII shows the postreform distribution of land between small and large properties. The *Moniteur Officiel*, March 1924, published the law referred to as "relation between landlords and tenants." This law is of special interest because it fixes the legal relationships between landowners and tenants. It deals with the regulations for buildings occupied by peasants, and for subletting, and the fixing of rent, as well as with cases of justice and legal procedure.

Regarding the tenure of forest lands, *Correspondenta Economic*, September 1928, page 58, gives a lengthy and detailed report on the oak wood of Rumania, which includes a brief sketch of the forest land ownership in the country. This report may be of help to those who undertake the study of the ownership and tenure of forest lands in Rumania.

TABLE LVI. RESULTS OF THE AGRARIAN REFORM UP TO JANUARY 1, 1927\*\*\*

	: Total area :	Area	: Number of	: Area given	: Number of
	: expropriated:	distributed	: peasants re-:	: over 'o pas-	: peasants not
			: ceiving land	: tures and	: receiving
				: forest land	: land
Old Kingdom:	2,776,820	1,928,337	630,113	848,433	423,515
Transylvania:	1,731,768	432,567	310,583	1,239,201	179,945
Bucovina	70,442	39,998	71,266	30,444	6,645
Bessarabia	1,382,970	1,039,730	463,789	343,240	-
Total	5,962,000	3,440,632	1,475,751	2,521,368	610,105

\*Figures from *Anuarul Statistic*, 1927, p. 62.

\*\*The designation "renters of land" is used instead of tenants because of the fact that the statistical books consulted do not make a separate classification of farmers as tenants.

\*\*\* *Bulletin d'Information et de Documentation de la BNR*, 1930.

TABLE LVII. AGRICULTURAL AREA IN RUMANIA FOR THE YEARS 1920-1929,  
ACCORDING TO LAND IN LARGE FARMS, SMALL FARMS, AND THAT  
OWNED BY AGRICULTURAL ASSOCIATIONS\*

Large holdings (hectares)	Per cent.	Small holdings (hectares)	Per cent.	Agri-cultural associations	Per cent.	Total area sown (hectares)	Per cent.
total		total		total (hectares)		total (hectares)	
1921:1,287,283	12.82	6,340,892	63.14	2,414,723	24.04	10,042,898	100.00
1922:1,256,390	12.15	7,855,605	75.99	1,226,294	11.86	10,338,289	100.00
1923:1,232,660	11.97	8,738,077	81.58	691,336	6.45 <sup>(1)</sup>	10,712,073	100.00
1924:1,414,228	12.42	9,491,798	83.35	482,118	4.23 <sup>(1)</sup>	11,388,144	100.00
1925:1,477,140	12.44	10,080,600	84.87	320,347	2.60 <sup>(1)</sup>	11,878,087	100.00
1926:1,632,449	13.30	10,479,176	85.36	165,182	1.34	12,276,807	100.00
1927:1,504,358	12.09	10,804,191	86.79	136,619	1.16	12,445,168	100.00
1928:1,358,335	10.65	11,393,417 <sup>(2)</sup>	89.35 <sup>(2)</sup>			12,751,752	100.00
1929:1,436,745	11.42	11,526,664 <sup>(2)</sup>	88.58 <sup>(2)</sup>			13,013,409	100.00

The 1930 agricultural census of Rumania made a study of farm tenure in the country. Part IV of the census schedule, which is concerned with the method of exploitation distinguishes between landowners and farmers who cultivate land as tenants, on shares, as hired managers, or in any other capacity. The results of the census are not available here.

\*Anuarul Statistic al Romaniei, 1929, p. 60.

(1) Excluding fallow lands which amounted in 1925 to 391,228 hectares, in 1924 to 343,276 hectares, and in 1923 to 350,000 hectares.

(2) Includes agricultural associations. Separate figures not available.

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