

Soviet Bloc Agricultural Land Use and Livestock Distribution

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Introduction

In this report information on the production and distribution of crops and livestock are presented in three parts -- USSR, European Satellites, and Chias. In each of these areas agriculture is important for the significant contribution that it makes to the national product, and for the livelihood it directly provides for a large segment of the population. In every country the destruction of, or a major decrease in agriculture production could eliminate or greatly reduce the capability of that country to engage in war.

This study does not measure the effect of such destruction. It presents information on the annual production of crops (excepting for the USSR which was not requested). It also presents the inventory of livestock by categories, and the geographic distribution of each estegory for the most recent year for which data are available for small administrative subdivisions of the countries. Although the production figures have changed somewhat from the base period to the present, there have been few major changes in the distribution during that period, generally 1938 to 1953. An exception to the rule is the rapid increase in the number of sheep in Kazekhatan SSR with nearly corresponding decreases in the remainder of the sheep raising regions. These changes where known have been made in data presented here. No major shifts in production are expected during the period 1955-60. Some shifts in the wheat acreage in both the USSR and China have been noted and developments in this line should be followed. Likewise, a planned increase in the size of the USSR's corn acreage may develop following the decree on grain production in the USSR which was announced in February 1955.

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I. USSR.

A. Target Grains.

The grain target system for the USSR has been defined in CIA/RR, RR-23, "The Pattern of Land Use in Relation to Target Grains in the USSR and the Probable Spread of Stem Rust on Cereal Grains," dated 18 February 1953. Due to the expansion of the grain area which has been taking place in the Soviet Union the initiation of this project, it is necessary to comment briefly on these changes.

During the period 1954-57 an area of between 28 million and 30 million hectares are to be seeded to grain on new and reclaimed land. During the first year of the program about 3.6 million hectares were seeded and the rate of expansion is to be accelerated rapidly by 1957. The expansion, largely of spring wheat, will take place in marginal areas of production (areas having from 12 to 16 inches of precipitation, annually) extending from the Volga river in the west to Krasnoyarsk Krai in the east, with minor acreages on scattered lands elsewhere. Most of the new seeding will take place in that part of Siberia and Kazakhstan which lie to the east of the historically important grain-producing regions delineated in the CIA report PR-23. The importance of the new area to the Soviet grain supply in the long run is debatable; historical climatic patterns would point to nearly complete crop failure in two out of five years on the average. The long-run unit cost of production in these marginal lands will be much greater than in the thaditional grain areas and it is entirely possible that, following a few years of drought, large-scale retraction may occur as in a previous similar program in the early 1930's.

B. Livestock.

Despite grandiose Soviet plans for increasing livestock numbers under the various five year plans, the number of livestock in the various categories have increased but little, if at all. There have, however, been some shifts in the distribution of livestock which may be noted from one period to another. There have been, however, many items in official announcements and in the press concerning livestock numbers in certain rayons and oblasts. These data, together with those which give a basis for estimating rates of change in numbers, have been collected and collated for recent years, culminating in the estimated distribution for 1953. The 1953 distribution was found to be similar to that of 1938 with the exception that sheep had increased rapidly in Karakhstan during the interim period.

In Kazakh SSR (Region Xa) sheep and goat numbers increased from 5.3 million head in 1938 to 14.6 million on 1 January 1949, or an increase of 9.3 million head. For the same period, sheep and goat numbers in the entire USSR increased by 12 million. Thus a major redistribution of sheep and goat numbers becomes apparent for this period. Other adjustments in the distribution of animal numbers have been made according to similar known changes. There is no evidence that any major shifts in livestock production will occur during the period 1955-60. If the Soviet plan to increase livestock (notably swine) is successful from 1955 to

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1960 it is probable that the increases will take place in those areas which were known to be important in 1953. (See Appendix A, maps showing distribution of livestock).

In 1953 the area now included in European USSR accounted for the following percentages of the total livestock numbers: 64.9 percent of the cattle, 84.3 percent of the swine, 45.3 percent of the sheep, and 44.5 percent of the goats. Thus, there remained the following percentages in Asiatic USSR: cattle, 35.1 percent; swine, 15.7 percent; sheep, 54.7 percent; and goats, 55.5 percent.

Cattle. The distribution of cattle is closely related to the availability of pastures, hay and other roughages, and in some localities is related to the need for draft power. In 1953 the distribution of cattle in the major areas of production in the USSR was as follows: the Ukraine (Region III) led the economic regions in percentage of total cattle in the USSR with 10.8 million head, or 19 percent; Central European USSR (Region VII) had 9.1 million, or 16 percent; the Baltics and Belorussia SSR (Regions IIa and IIb) had 5.2 million head, or 9.1 percent; West Siberia (Region IX) had 5.1 million, or 9 percent; Kasakhstan (Region Xa) had 4.5 million, or 8 percent; the Lower Don-North Caucasus (Region IV) had 4.1 million, or 7.3 percent; and the Transcaucasus (Region V) had 3.2 million or about 5.7 percent each. All other regions had 14.6 million, or about 26.9 percent. (See Table 1 and the map "Distribution of Cattle.")

Swine. The distribution of swine in the USSR is based upon three factors: climate, available feed grain and the religious and social customs of a people. Climate is one of the factors that limit the raising of swine. Swine are not adapted to extreme climatic conditions, and the effect of climate on the feeds that may be grown tends to affect the ability of an area to sustain swine. In certain areas of the Transcaucasus, Kasakhstan, and the Central Asiatic republics, large segments of the population are Mohammedans and will neither eat pork nor raise swine.

The greatest concentrations of swine are in the Baltic, Belorussia, and in the Ukraine. Large numbers of swine are also found in Central European USSR. Of the total swine in the USSR in 1953, the distribution in the major regions of production was as follows: 9.2 million, or 32.2 percent were in the Ukraine (Region III); 5.0 million, or 17.6 percent in Central European USSR (Region VII); 2.3 million, or 8.2 percent in the Baltic (Region IIa); and 2.3 million, or 8.2 percent, in Belorussia (Region IIb). All other regions had 9.7 million, or about 33.8 percent. (See Table 1 and the map "Distribution of Swine.")

Sheep. In the USSR, as in the US, sheep-raising tends to be concentrated on land which is of minor use for raising crops. Sheep in the USSR subsist mainly on pastures and the necessary roughage for carrying them through the winter. In 1953 the distribution of sheep in the USSR was as follows: Kazakhstan SSR (Region Xa) 19.1 million, or 20.0 percent; Central Asia (Region Xb) 15.4 million, or 16.1 percent; Central European USSR (Region VII) 10.4 million, or 10.9 percent; Lower Don-North Caucasus (Region IV) 8.6 million, or 9 percent; Volga (Region VI) 8.5 million, or 8.9 percent; and Transcaucasus (Region V) with 7.4 million, or 7.8 percent. All other regions had 64.5 million head, or 27.3 percent. (See Table 1 and the map "Distribution of Sheep.")

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Goats. Of the 14.3 million goats in the USSR in 1953, the distribution was as follows: 2.9 million head, or 20.3 percent in Kasakhstan SSR (Region Xa); 2.4 million, or 16.4 percent in Central Asia (Region Xb); 1.6 million, or 11.0 percent in Central European USSR (Region VII); 1.3 million, or 9.2 percent in the Lower Don-North Caucasus (Region IV); a similar number in the Volga (Region VI); and 1.1 million, or 7.9 percent in the Transcaucasus (Region V). The remaining 3.7 million head, or 26.1 percent were scattered in smaller numbers throughout other parts of the USSR.

1. Meat and Milk Production.

In 1954 the meat produced in the USSR was derived from the following sources: swine (pork) 1.8 million metric tons, or 45.3 percent; cattle (beef and veal) 1.4 million tons, or 36.5 percent; and sheep and goats (lamb, mutton, and goat meat) .7 million tons, or 18.2 percent.

Meat and milk production are not the specialized operations in the Soviet Union to the same degree that they are in Western Europe or in the U.S. Only in the former Baltic States, is dairying a well developed form of animal industry. The Leningrad and Moscow areas have some state farms specializing in milk production; but the vast majority of cattle in the Soviet Union, however, are dual or triple purpose animals, kept for milk, meat, and in some areas for power.

Livestock is pastured in mixed flocks—even pigs may be herded with cattle and sheep along the roads, in harvested fields, or in the pastures. The various species often share the same watering facilities as well as grazing grounds. Animals are often driven long distances across country to market and are frequently corralled in temporary holding pens at railroad yards or in the stockyards of the meat combines.

Most of the animals delivered for slaughter are taken to market in the late fall and early winter. As a result, the packing plants are often unable to keep pace with deliveries. This necessitates holding animals on farms or feed lots controlled by the governmentment-packing plants until they can be slaughtered. These methods of handling stock are conducive to the spread of disease.

2. Animal Diseases in the USSR.

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Cattle. The most prevalent diseases among cattle were anthrax, black leg, tuberculosis, and brucellosis. Occassional outbreaks of hoof and mouth disease have occurred in various parts of the country. Rhinderpest (cattle plague) is reported by the Soviets to have been stamped out in 1927-28. A very strict quarantine is said to exist along the southern borders of the USSR, especially against its penetration from Turkey, Itan, Afghanistan, Mongolia, and China, where epimootics of this disease still occur.

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Sheep. The most prevalent disease among sheep was anthrax. All sheep and cows are vaccinated in the spring. If any village had a history of anthrax for the previous 25 years, then all sheep, cattle, and horses had to be vaccinated. A disease peculiar to sheep concerned anaerobic bacteria. Scabies are prevalent among sheep and the dipping of sheep twice each year was mandatory to forestall epidemics.

Swine. Each republic of the USSR had incidence of swine pest and swine erysipelas. It is estimated that hog cholera is sporadic in occurance in the USSR and that a relatively small proportion of the swine population is immunized each year. Practices and measures for the prevention and control of hog cholera appear to be most adequate on the state farms, less so in collectives, and least so among swine owned by private individuals.

Poultry. Prevalent among poultry were cholera (pasteurellosis), typhus, pox, diphtheria and fowl post.

Rabbits. The most prevalent disease both among field and domestic rabbits was tularemia which can be passed on to human beings.

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II. <u>European Satellites</u>*

Introduction.

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The last reliable official European Satellite acreage and livestock statistics, except for Czechoslovakia 1949, are those for 1938. These data have been used blotting dot maps to show the distribution of grains and livestock. All country boundaries have been adjusted to conform with 1954 boundaries.

Although prewar land-use pattern data were used in compiling this report, there has been no significant shifts in acreages of grains that would make them unusable for the purposes of this report. This is also true in projecting data to 1955-60. There is very little land not presently being used in the satellites that can or will be put into grain production according to officially announced plans. There has been a decrease in grain acreage since World War II as planned to permit expansion of the industrial crop area. Increases in yields were planned to offset any resultant loss in production from reduced acreages. To date, however, the governments have not been successful in raising grain yields.

Livestock distribution, like grain acreage, is based on prewar data due to the lack of postwar data on a small administrative divisional level. The only area for which postwar data were available was for Csechoslovakia.

Although prewer data were used for the dot maps, no significant changes have occurred in the postwar distribution pattern of livestock which would make them unsatisfactory for this study.** Heg and horse numbers are approximately the same or less than prewar. It is estimated that by 1960 the situation will not show any significant change.

A. Distribution of Target Grains.

The target grain data as requested are for wheat, rye, barley, and oats. For the Suropean Satellites, in terms of gross production and area seeded to crop in order of rank are wheat, rye, oats and barley as determined by 1953 information. There has been a shift in acreage since World War II, primarily as a result of land reform, from rye to wheat (see Table 1, Appendix 8).

1. Sulgaria***

The area sown to bread grains in Bulgaria constitute almost 38 percent of the total erable land. Wheat, primarily winter wheat, is the principal bread grain and represents approximately 8h percent of the bread grain areas. Rye is of lesser importance occupying less than 6 percent of the total arable land, and only 16 percent of the bread grain areas.

Apart from corn, the major feed grains in Bulgards are barley and cats, but together are sown on less than 10 percent of the total arable land.

*** See map, Appendix B, Figure 1.

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^{*} Includes Bulgaria, Caechoslovakia, Hungary, S. Garmany, Poland, and Rumania.
** The 1949 livestock data for Czechoslovakia showed the same distribution
on a dot map as that for 1933-37.

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Barley is the most predominant of the two and is seeded over 6.4 percent of the total arable land compared to 3.4 percent for cats.

The geographic features of Bulgaria clearly divide the country into three separate agricultural areas, the northern plains area, the central lowlands, and the southern highlands. Of the three, the southern highlands are the least significant as a production area.

The major cropped area for grains lies in the northern plains along the Danube River, which is favored by the rich black soils and a continental climate. About 63 percent of the wheat, 19 percent of the rye, and 30 percent of the cats and barley are produced in this area.

In the central lowlands, the major cereal crop lands are located along the Marista and Stredstaka Rivers. The proportion of crop production in the central lowlands is estimated at 3h percent for wheat, 6h percent for rya, 53 percent for barley, and 29 percent for oats.

All of the rice in Bulgaria is produced in this geographic area, most of which is concentrated in Plovinov plains.

The trand of agricultural production since prewar years has been relatively stable, with no significant changes in the pattern of production or in the mass development of new agricultural practices for improving crop yields. Bulgaria may be considered self-sufficient in grain production, subject to cyclical deficiencies created by weather. There is little probability that major changes in the crop pattern will occur in the future.

2. Czechoslovakia.

a. Wheat. Both spring and winter wheat are produced, but winter wheat normally constitutes 95 percent of the total wheat acreage. Spring wheat yields average about two quintals per hectare less than yields of fall sown varieties.

An important food crop, wheat is grown to some extent in every district of the country. Wheat occupies about 16 percent of the country's cropland. A larger proportion of cropland is sown to wheat in Slovakia than in Bohemia-Moravia. Southwest Slovakia is also the surplus producing region in Csechoslovakia. Throughout the country both area and yields decline sharply in the mountainous border regions of Bohemia-Moravia and most of the northern half of Slovakia. In those areas, wheat culture is limited chiefly to the nerrow alluvial valley floors which traverse these areas from north to south.

Caschoslovekia has been a deficit wheat producing country for many years. They are presently dependent upon the USSR and other Bloc countries for imports. Therefore, a sharp drop in production for any one year has a significant effect upon the food evailabilities and economy.

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b. Rys.* Long the leading cereal in area and production, rys has declined in recent years and now ranks second to wheat. In 1949, rys utilized 14 percent of the country's cropland compared with 17 percent before the war.

The largest proportion of arable land sown to rye is in south-central Bohemia and western Moravis; Slovakia is not an intensive producing area although rye is an important crop in the rough and less fertile eastern districts. Because of its hardiness, rye is an important cereal crop in the mountains and on plateaus.

Czechoslovakia being deficit in bread grains imported both wheat and rye before World War II, with rye dominating. However, in the postwar period wheat imports have increased sharply; imports of rye and rye flour, on the other hand, have declined, and since 1949 only about 1/h as much rye compared to wheat is imported.

The only surplus producing area would probably be two or three provinces in southeastern Bohemia. As in the case of wheat, a shortfall in production would have serious repercussions on the food supply.

c. Barley. Data on area, yield, and production indicate little fluctuation in the past 15-20 years. The estimated 1953 barley acreage was approximately the same as that for prewer.

Barley is normally sown in March or early April. The dominant variety, Hana, is early; maturing in about 100 to 110 days and returns good yields in moderately dry weather. Less than 2 percent of the barley sown is of the winter variety, which is used exclusively for feed.

The most highly concentrated areas of barley production are southwestern Slovakia, along the Moravia River in Central Moravia, and the Elbe valley north of Prague (see map, Apprendix B, Figure 2). The major areas of barley production coincide generally with the wheat and sugar beet regions of the country.

In recent years Czechoslovakia has been importing as high as 200 thousand tons of barley for feed. The increase in hog numbers and decline in potato production has necessitated this action.

d. Oats. Like rye, cats is an important grop in the mountainous areas of the country. On the plains, cats are cultivated only to meet the needs of the farm. Oats have declined in area since World War II. This decline has been in line with the Five-Year-Plan.

The western regions of the country, Bohemia-Moravia, are the principal areas of production. Concentration in northern Blovakia is important to that section because cats are the principal feed grain.

Of the small grains (wheat, rye, barley, and oats) oats are usually the last to be harvested -- around the end of August or early September. It is customary for the farmers to harvest early varieties just before full maturity to avoid losses through shattering. The late varieties are not so likely to shatter and the shatter of the late varieties are not so likely to shatter and losses 2005/05/16: CIA-RDP79T01149A000400080007-8

* See Appendix B, Figure 2 for maps on distribution of grain area.

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Ozechoslovakia can be considered self-sufficient in the production of osts for food and feed purposes.

3. Mest Germany.

a. Aye. Occupying the largest area of any single crop, rye accounts for about 24 percent of the land devoted to field crops and makes up about 40 percent of the total grain production. The 1953 sown area approximated that of prewar years.

Eye is grown throughout the country, but is more concentrated in the areas of lighter and less fertile soils which predominate in Macklenburg and Erandenburg Laenders (map, Appendix B, Mgure 3).

Approximately 98 percent of the rye sown is of winter varieties which out-yield spring varieties by 30 percent. Winter rye is normally seeded in the latter half of September in the mountains and end of September to early October in the plains. Harvest begins around the end of June in the south and extends to middle of July in the northern part of the country and sountains.

Sast Germany has been importing large quantities of bread grains from the USSR since 1919.

b. Wheat. The production of wheat, although widespread, is concentrated in the better soil regions of west central East Germany and the southern plateau area (map, Appendix B, Figure 3).

Normally the proportion of spring wheat to that of winter wheat does not exceed 15 percent except in years when fall plaining is hampered by adverse weather conditions or winter kill occurs.

from Soviet Bloc countries to make up the deficit.

c. Barley. Barley acreage follows the same general pattern of distribution as that for wheat. Although barley does better on poorer soils than wheat, because of the high percentage of malting barley in the acreage pattern, barley is concentrated on the fertile soils. Also it is used in rotation with sugar best crops.

The spring sown barley accounts for about 70 percent of the total acreage seeded to barley. Recent government emphasis has been on increasing the area of barley. It is not believed that any increase will be substantial nor affect the land use pattern. Winter barley is sown from September to October ranging from north to south. Spring barley is sown during April. Hervesting occurs from July in the southern areas to August in the north.

throughout East Germany. In terms of soun area and production cats rank next to rye. It is used almost exclusively for livestock feed. Areas of oat acreage concentrations are the Saltic region of Macklenburg, the central plateau area, and the southern plateau areas.

^{*} In 1952 the five Lamders were changed to lk Hesirkes.

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Oats are solely spring soun daring March and April. They are the last of the small grains to be hervested which is during August.

4. Hungary

The area sown to bread grains in Mungary represents approximately 31 percent of the total arable lami. Wheat is the most predominant of the two cereal crops, occupying about 28.0 percent of the land under cultivation compared to 11.0 percent for rys. Of the total sown area to bread grains less than 3 percent is spring sown.

percent and i.O percent, respectively of the total arable land. The ratio of spring sown barlay to fall sown is approximately one to one.

Goographically the major agricultural areas in Hungary are found in the Great Plains, and in the Transdamubian lowlands. The Great Plain area is an extension of the Danubian Pene plains, and covers the area bounded by the Tisa and Zagyva rivers in the north and by the Danube on the west. The area west of the Gamube to the frontiers on the north and south constitutes the Transdamubian area. The third geographical area in Hungary (the North Hill country) lies to the north of the desarcation lines of the Great Plains but is of lesser significance as an agricultural area than either the Great Plain or Transdamubian areas.

The crop pattern in each area is closely allied to both soil and climatic adaptabilities; winter wheat being more pronounced in the Great Plains because of the fertile soil and hot dry summer which are excellent factors for producing high quality sheats.

Rys and oats on the other hand occupy a larger share of the area in Transdamubian and the North Hill country. This is particularly true for rys which cannot compete with wheat on the more fertile Great Flains area. For cate the more moist climate in the Transdamubian lowlands and the North Hill country favor these locations over the Great Flains area. Barley is fairly well distributed throughout the country. It is more promounced in the North Hill country and in the northern area of Transdamubia; since it is more adaptable to a cooler climate and the shorter growing season of these areas

change in the present crop distribution does not appear to become likely over a period of time. Although some shifts to injustrial crops has occurred in the postwar period, the present trend is away from over emphasis and self-sufficiency of marginal crops and a return to food and feed grains.

Hungary has usually been considered as a surplus producer of food and feed grains, but the unfavorable harvests experienced since 1950 have presently reduced Hungary's advantage to that of a net importer of grains. The situation as developed is however believed to be temporary and future long term trends may be expected to cover domestic requirements adequately.

^{*} See map, Appendix B, Figure 4.

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5. Poland.

2. Wheat. The map showing the distribution of wheat screage for 1938 is given in Appendix B, Figure 5. Wheat only accounts for approximately 15 percent of the land seeded to grain, while rye accounts for 53 percent. The great preponderance of rye plantings over wheat is a significant indication of the generally low level of fertility of Polish soils. Wheat tends to be largely concentrated within those parts of Poland with the better soil or in the southern areas of Poland.

Winter wheat, the main type, is seeded from September 10 in the north and east to October 5 in the southwest. The usual harvest dates are from July 16 in the west to August 12 on the morth ceast. The types produced are hard red, hard white winter, or a red winter, and soft white winter wheat.

Poland normally self-sufficient in wheat has had to resort to imports the past two years as a result of adverse weather reducing production. Under the Six-Year-Plan acreage of wheat was to increase at the expense of rye, but the peasant has not felt the shift practicable in view of soil and climatic conditions.

b. Rye. By far the most important target grain in Poland is rye. For 1953, it is estimated that 53 percent of the land devoted to grain was seeded to rye. The map showing distribution of rye acreage for 1938 can be found in Appendix B, Figure 5. Rye is grown in every district of Poland with greatest concentration in central Poland.

Seeding time for rye, which is 98 percent fall-sown, generally starts September 10 to 25, from northeast to southwest. Harvesting of rye takes place from July 2 to 20, south to north.

hys has traditionally been the major grain export. However, quantities exported have dropped considerably during the last two years. In Poland, rye is used chiefly for bread, and a substantial quantity is also fed to livestock, mostly hogs.

c. Barley. The distribution of barley acreage closely parallels that of wheat since both are dependent upon more fertile soils and higher precipitation than rye. See Appendix B, Figure 5 for map on distribution of barley area. The largest single use for barley is feed, especially for hogs. Its next most important use is as a cereal food.

between April 10 in the southwest and April 25 in the northeast. The hervest time extends from July 15 in the southwest to August 10 in the north.

d. Osts. Osts is the mest important coarse grain both as to area and production. Virtually the entire ost crop in Poland is fed to live-stock, chiefly horses. With the decline in horses and planned increases in mechanisation, a decline in acreage is expected.

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Oat acreage is rather scattered throughout Poland, but concentration generally follows the wheat and barley areas in the fertile soils regions.

Seeding time for cats is from April 10 to May 7 from south to north. Harvesting takes place during the last week in July.

6. Rumania

The area sown to bread grains in firmania accounts for almost 33 percent of the total arable land. Wheat is the most important grain; being cultivated on slightly more than 29 percent of the total arable land, compared to less than 3 percent for rye. Fall sown varieties are most predominant and constitute approximately 78 percent of the total bread grain area.

Of the coarse grains planted in Russania, barley and oats occupy 8.8 percent and 7.7 percent, respectively, of the total scable land. Corn being the major coarse grain crop in Rumania is sown on approximately 27 percent of the total arable land.

The distribution of crops is guided by the soil and climatic conditions within Rumania. Wheat is concentrated on the more fertile lowlands of the Old Kingdom and Transylania, which also adjoin both Bulgaria and Hungary. About 55 percent of the wheat area lies in the lowlands and plateau of the Old Kingdom, and 42.3 percent lies in Transylvania, the major part of which is in the Barrot region.

Mys areas are less concentrated and are located in less competitive plateau regions of Moldavia and Dobruga, and the highlands of Transylvania.

Oats are fairly well distributed within the cooler highlands of Transylvania and the Old Kingdom.

Barley is more concentrated in the cooler plateaus of Debruga and Moldavia in the Old Kingdom. The percentage distribution for these two areas represent 57 persent and 30 percent, respectively, of the total country.

The crop pattern in humanis has been altered slightly in the postwar period, with a reduction in cereal crops and increases in fodder and industrial crops. The modifications, however, do not represent a change in the selfsufficiency status of Rumanian agriculture. Under normal weather conditions, Rumania is considered to be a surplus producer of grains, however, domestic food consumption is less than the average of all other satellites.

B. Distribution of Livestock**

1. Bulgaria.

The concentration of livestock in Bulgaria generally follows the cultivated land pattern of intensive farming areas. In total numbers sheep rank first, followed by cattle, hogs, and horses.

The northern plains area being the most concentrated for horses and hogs, but for cattle and sheep, the ratio in the southern plains is approximately equal. Goats are fairly well distributed throughout the country,

** See Appendix B, Table 2, Livestock Numbers, Prewar and 1953.
*** See Appendix B, Figure 7.

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but in total numbers are greater in the southern plains area.

The importance of sheep in Bulgaria is shown by the high ratio per unit of population, estimated to be slightly more than one. The stabilizing influence this animal has on the agricultural economy in Bulgaria develops from the utility of sheep for milk as well as wool and meat.

2. Czechoslovakia

Livestock raising, like crop production, decreases in intensity from west to east in Czechoslovakia. The area with the highest density for all livestock, except sheep, is the highly productive sugar beet region with the lowest number in the forage-crop region, especially in the eastern districts of Slovakia.* The greater density of livestock in the regions of intensive crop cultivation is due largely to the greater yields of feed per unit of area, and in part to the availability of beet tops, beet pulp, molasses, and other by-products feeds in those regions. Sheep production is concentrated in the forage-crop region of Slovakia, because of the extensive pastures in those highlands and a carry-over of the customs of the people in those areas.

a. Cattle. At least 50 percent of the cattle and dairy herds are located in Bohemis, with the balance distributed about equal between Moravia and Slovakia. Compared to prewar, there has been an emphasis on the part of agricultural planners to increase cattle numbers in Slovakia. Some success has been achieved.

Cattle nor cow numbers have not reached the prewar level and it is unlikely that much success will be registered during the next few years if the present agricultural policies are continued. The shortage of feed, poor breeds, breaking up of large estates, and use of cattle for draft power has lowered productivity.

The dominant breed of cattle are the red and white mountain that has been derived from indigenous red cattle crossed with Swiss and Simmenthal strains. The Pinzgan breed is raised in the mountains of Slevakia, and in eastern Slevakia there are remnants of the Steppe cattle, together with buffalo.

b. Hogs. The distribution of hogs in 1949 is shown on the map, Figure 8, Appendix B. Approximately 45 percent of the hogs are in Bohemia; 33 percent in Moravia; and 23 percent in Slovakia. Swine breeding is carried on largely on small and medium sized farms, while fattening for market has been increasing on new state and collective farms. Prior to World War II, the large estates and farms (over 50 hectares) fattened the hogs for market.

Feeding stations were started in 1948 and are reported to have reach ed an important place in livestock production. It was reported in 1949 that hog-feeding centers were supplying 36 percent of the country's total pork requirements. One of the largest centers is at Smirice, near Hradec Fralove, which is said to maintain 10,000 hogs. Other centers are claimed to be at Mimon in the See Appendix B, Map Figure 8.

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kraj of Liberac, and another at Poxaberk, near Ceske Sudejovice, in southern Schemia.

Appendix B. It is not believed that any substantial change has since occurred. There was estimated to be approximately 600,000 sheep in 1953 as compared to the prewer average of 495,000 head. Approximately 32 percent of the total sheep numbers are raised in the west while 68 percent are raised in Slovakia.

There are several indigenous breeds of sheep raised in Gzechoslovakia. In the mountainous regions of Slovakia and Moravia, the principal breed is the Valasske Capovnice, which is raised for wool and milk. In the western lowlands, merino sheep, noted for their fine wool, are most common. The Cikaja breed is from thelowiands of Slovakia and the black-faced Hampshire Down breed has proved well adapted to the fruit, hog, and sugar best regions of Behemia.

d. Gosts. The distribution of gosts in 1949 is shown in Figure 8, Appendix 8. The number of gosts has fluctuated around one million head or about the same so prewar. Costs are normally raised on small farms, and may take the place of cows. Gost raising is primarily concentrated in the provinces of Bohamia and Moravia. Approximately 90 percent of the gost inventory is in Bohamia-Moravia.

The Saenen breed predominates throughout the country; it is white, hornless, and a good milk producer. In the mountains and more primitive regions, the native brown goat is more common than the white.

J. East Cornany.

Appendix B, Figure J. Cattle are raised in every district of East Germany with the greatest numbers in the extreme southern and northern areas of the country. Cattle numbers in 1953 were slightly higher than prever, but cow numbers were less. Annual productivity in general has not attained prever levels.

Hoof and mouth disease has been prevalent during the past few years as a result of improper feeding and care, and shortage of qualified veterinarians.

Both the lowland and highland breeds are prevalent. The lowland breed in the southern regions of East Germany and the highland in the south. These breeds are efficient as triple purpose cattle - for milk, meat, and draft power.

b. Hogs. There is an extremely high density of hog raising throughout all of East Germany. Sachsen-Anhalt was reported in 1951, to have the largest inventory of the five Lands. Total inventory of hogs in 1954 showed an increase of approximately 1 million over prewar levels.

Before World War II, it was claimed that over 90 percent of all German hogs were pure-bred white breeds, the Veredeltes Landschwein and the White Edelschwein, the former a native hog improved by crossing and selection, the latter of Yorkshire stock improved and adapted to German conditions. It is probable that these breeds of hogs are still prevalent today.

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- Sheep. Sheep are not highly concentrated in any small regions of dest Germany. There are probably more in the western half of the country than the eastern. Sheep numbers by the end of 1953 had reached prewer levels for the first time. Plans are to increase sheep numbers to 1.8 million by 1955.
- d. Coats. Gosts are raised to a great extent in the southwest section and mountainous areas of East Germany. Numbers have almost doubled today as compared to prewar. This has been a result of the land reform which increased the number of small farms who raise goats for milk and meat. Therefore, there would be a greater density of gosts per hectare of agricultural land than shown on the map, Appendix B, Figure 3, which was based on 1938 data. The most important breeds of goats are the White and Spotted German pure-breds.

4. Hungary

The distribution of livestock in Hungary is general thoughout the country. * For cattle the heaviest concentrations are found in the steppelike plain of the Hortobagy, near Kecskemet in the Burgeo plain, and in the Debrecen area.

Hog numbers are more closely correlated with the corn area and are, therefore, more prominent in the lower Great Plain and the Transdamubian areas. The breeding of meat-type hoge are being encouraged in all parts of the country, but more especially in Transdamubia. About 70 percent of the present stock, however, still consists of the land-type mangalitsa.

Sheep numbers are more predominant in the poor pasture lands of the North Hill and in the lower Transdamubian areas, whereas the North Hill country and the northern part of Transdamubia are the chief areas of concentration for goats.

5. Polend.

a. Cattle. Milk production has been and still is the most important purpose of cattle raising. Meat production is of secondary importance. Sometimes they are used as draft animals. As seen on the map, Appendix B, Figure 10, cattle are midely distributed with greatest concentration in the southern half of Poland. Due to slow resettlement of the Western territories, it is believed that the concentration today is not as great as that shown for 1939 on the map for that area.

Cattle numbers are still considerably below prewer and it is doubtful that prewar levels can be reached by 1960. Hilk and beef production is also less then prewar per smimal unit.

The most widespread breeds of cattle are the Holstein-Friesian and the Red Polish type. The Friesian type is mostly found in the western part of the country, the Red Polish in the eastern and northeastern provinces and in the south. Silesian Red and White are to be found in many districts of the western territory.

^{*} See Appendix B, Figure 9.

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b. Hogs. Pork is the most important item in Poland's meat consumption. Prever distribution of hogs is shown on the map, Appendix B, Figure 10. As seen from the map hog raising is important in every province of Poland with the highest density in the central provinces.

Hog raising is concentrated on small and middle-sized farms. Most of the breeding herds are kept on the state farms.

The type of hogs raised is strongly influenced by the proximity of the market and transportation facilities. In prewar Poland, the bacon-type hog (German Edelschweine and Veredelte Landschweine breeds) was raised mainly in the western and southwestern provinces. Most of the bacon factories have been located in this part of the country. Bacon and hame have been exported by Poland at the expense of home consumption in postwar years. In the vicinity of Warsew and in the central provinces, a fat mest-type called Golebska, a crossbreed of pure Berkehire with native stock is raised.

It has been officially claimed that prewar hog numbers were surpassed in 1953. However, productivity is still below prewar levels and a pork and pork fat shortage has been in evidence since 1951.

c. Sheep. The major sheep raising areas are in the west and northeastern regions. Sheep raising was more important in that part of prewar Poland that has been ceded to the USSR.

The most important types are the Merino Precore, the dual-purpose Swiniarks in the central regions, and the milk sheep Cakiel. Increases in numbers have been substantial over prewar, so that by 195h, there was estimated to have been about twice as many sheep as in 1938. The government has been amaious to attain near self-sufficiency in wool for the textile industry, therefore, the emphasis was placed on sheep raising.

6. Rumania.

The distribution of livestock in Amenia* is somewhat analogous to the available pasture and meadow lands. In total numbers, sheep rank first followed by cattle, hogs, and horses.

Horses and cattle are fairly well-distributed throughout the country, but hogs and sheep show a more concentrated pattern. Hogs are centered in the Transylvanian administrative district along the lower Bant region, while sheep are most predominant in the Wallachia plain area of the Old Kingdom and in the plateau are as of Haldonia and Dobruga.

Little changes in the distribution pattern over a period of time is expected to alter the present ratio.

C. Livestock Diseases

The disesses most prevalent and which from time to time outbreaks reach epidemic proportions are Hog Cholera, Swine Erysipeles, Hoof and Mouth Disease, Bangs, and Fowl Pest.

* See Appendix B, Pigure 11.

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During the past two years, the incidence of hog cholers increased in East Germany. There is evidence that herds on state farms have been particularly hard hit by hog cholers. This is the only snimal disease which infected enough animals to reach epidemic classification. One million swims were reported to have been lost between June 1953 and March 1954.

Hoof and mouth disease has been reported in practically every European Satellite from time to time but no epidemics have been reported. It is possible that Rumania has been having difficulty controlling hoof and mouth disease.

Fowl pest is believed to be widespread in Poland and Bulgaria.
East Germany recently contributed an increase in fowl pest to the importation of live fowl from Poland.

The paucity of information on the incident of/diseases in Eastern Europe, other than East Germany, makes an accurate appraisal of the situation impossible.

D. Food Reserves.

All of the satellites are known to have state food reserve systems, but the actual quantities in those reserves are not known. As set up, these state reserve system is to store foods for release only in the event of war, economic or political crisis.

The decreasing production of food has made it difficult for the government to allocate large quantities of food to storage at the expense of the population. In 1953 with the advent of the new course, most of the satellites released food supplies from the state reserve and present supplies are believed to be extremely low. Grain is probably the only commodity stored, and this is questionable, in significant quantities. It is doubtful that the shortages of meet, vegetable oils, and smimal fats has permitted storage of the commodities in quantities over a 2 to 3 week supply.

One of the complaints made by officials on the low agricultural production has been that the production did not permit accumulation of foodstocks for use in case of an "emergency".

III. China

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Importance of Target Orains

data concerning wheat, barley, rye, cats, and rice. For Communist China, in terms of gross termsges produced, the requested crops in the order of their importance are rice, wheat, barley, and cats. By is unimportant in China, being so insignificant in fact, that no production or screage data are reported.

As a general classification, rice is regarded so being a summer grown crop. Wheat, barley, and cats are classified as winter crops although in the case of cats, this is misleading. The bulk of the cat crop is produced in the spring wheat type of farming region and is planted as early in the spring as possible and is harvested in the middle of the summer.

The everage production of the four year period, 1950-1953, of the various grains is shown in Table 1. Rice constitutes about 43 percent, wheat about 20 percent, barley about 6 percent and cats less than one percent of the total grains. The four target grains for the period shown in Table 1 constitute approximately 70 percent of the grain produced in Communist China. (See Table 1)

The above use of the term grain is in the conventional English usage. This is almost certain to lead to some confusion, if not explained, for the use of the term "grain" by the Chinese is almost synonymous with the English term "foodstuffs". To swoid any uncertainty on the part of the users of this report, Table 2 gives the series of Chinese Communists' Glaims of "grain" production and the accepted estimate of this office for the same series. (See Table 2).

It is believed that the Chinese Communists' claims of foodstuffs production are on the basis of potatoes on a gross weight basis, at least after 1951. The middle column of Table 2 is on this basis and with the exception of 1954, the estimates accepted by this office are relatively compatable with Chinese Communists' claims if the assumption about potatoes is correct. Even on the basis of Chinese Communists' claims of "grain" production, the target grains, rice, wheat, barley, and outs, run 15-50 percent of the total reported production in the period 1950-1953.

From the relatively rough calculations preformed above, it is readily apparent that the target grains are an extremely important proportion of the foodstuffs produced in Communist China.

General Characteristics of Chinese Agriculture

The importance of the influence of the physical geography of China on the pattern of agricultural production is almost impossible to over-state. It has been pointed out that by drawing a line between Aigun in Heilungkiang

and Tangchung in Yunnan two strikingly contrasted regions will be delinested. The area lying northeast of the line forms by percent of the total area of China, yet it is inhabited by only a percent of her population; the south-eastern part occupies only 36 percent of the total area but accommodates as much as 96 percent of the total population.*

Buck has divided China into two major agricultural mones, the wheat and rice mones. He further divided these two somes into eight regions. These sight regions and two others from Shan are given below so as to present a generalized picture of Chinese agriculture.

A. The Spring Wheat Region.

This region covers the northern parts of Hopeh, Shansi, Shansi, and Kansu and the southern parts of Jehol, Chahar, ** Suiyuan, *** and Minghain. ****

B. Winter Wheat-Millet Region.

This region includes a large part of Shansi, Shansi, and Kansu and corners of Honen and Hepsh.

C. Winter Whest-Kaoliang Region.

This region includes the whole province of Shantung, a large part of Honan and Hepah, and the northern part of Kiangsu and Anhwei. Of the total area of the various types of farming regions, this region has the highest proportion of land under cultivation.

D. Imptso Rica-Wheat Region.

This region is composed of the lands along the Yangtse River in the three provinces of Hupeh, Anhwei, and Kiangsu. Approximately 60 percent of the cultivated land is irrigated.

E. Rice-Tea Region.

This region includes a large part of the four provinces of Human, Kiangsi, Chekiang, and Fukien. Irrigation is carried out on approximately 80 percent of the cultivated land but due to the rugged nature of the terrain, less than a fifth of the total area is cultivated. The Tungting and Poyang Lake areas are noted for their rice production and the Tungting area is a substantial surplus production area except in years of flood.

Now split between Hopeh and Inner Mongolia. The larger part of the cultivated 44.4 and wheat lands were credited to Hopen in the statistical material of this report.

Now incorporated with Inner Mongolia but shown separately in the statistical *** material of this report as they relate to orops. In the case of animal numbers Sulguen is shown incorporated with Inner Mongolia.
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These statements are based on old population data and on the inclusion of Tibet as part of China. Nonetheless, the statements are reflective of the general concentration of productive agricultural land to the southeast of the designated line.

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F. Seechwan Rice Region.

This region includes the whole province of Saechwan and a small part of the provinces of Hupeh, Shensi, and Kansu. Approximately 70 percent of the cultivated land of this region is irrigated. The region is an important surplus rice area.

G. Double-Cropping Hice Region.

This region includes the whole province of Kwangtung, the eastern and central parts of Kwangsi, and the southern parts of Fukien and Kiangsi. Topographically, the region is much the same as the rice-tem region so that less than 15 percent of the total area is cultivated. Of the cultivated land approximately 70 percent is irrigated.

H. Southwestern Rice Region.

This region includes the whole province of Kunnan, a large part of Kweichow, and the western part of Kwangsi. The region is very rough and mountainous and less than 10 percent of the area is under cultivation, the major share of which is confined to comparatively deep and narrow valleys.

I. Soybean-Ksoliang Region.

This region covers the greater part of what is now called the Northeast with the exception of Jehol. It is a highly important agricultural region and produces a large surplus. However, for the target grains, it is relatively unimportant.

J. Ossis Farming Region.

This region primarily covers the province of Sinkiang. The region has much wasteland and extensive grasing areas. Less than I percent of the area is cultivated.

Chinese Land and Crop Data

It would be extremely convenient if the statistical material of this report could be fitted to the generalized types of farming areas. Unfortunately, the available data are based on political boundaries and cannot be adapted to reflect individual types of farming areas. The generalized pattern is useful, however, to give a picture of the agriculture of Communist China. This picture in conjunction with the available statistical material which is based on the various provinces, makes possible the immediate determination as to where the bulk of a given crop is produced.

Table 3 gives the total area of the various political divisions, the amount of the area under cultivation, and the proportion of the region under cultivation. The data given for area cultivated probably understates the true area cultivated but the degree of supposed understatement is unknown. The percentages of total area cultivated appear as quite reliable reflections of the variations between provinces. The areas where cultivated lands are

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the highest proportion of the total land area are the provinces of the North China plain, the east coast alluvium, and the lake sections of the middle Yangtze.

Tables b, 5, 6, and 7 give the acreage under the various crops, rice, wheat, barley, and cats. The tables also show for the respective crops, the percentage of the total area of the region and province devoted to the crop and the acreage of the crop in the regions and provinces as a proportion of the area of the crop in the nation.

Maps for each of the four crops rice, wheat, barley, and cats have been prepared from the tables to sesist in the determination of the most important areas as regards the various crops. The maps show, on a provincial basis, two of the most significant features; a) the percentage of the total area of the province on which the crop is grown, and b) the degree of concentration of the acreage of the crop in the province in terms of the national acreage of the crop. Time for this report was insufficient to prepare an analysis on the most meaningful basis. That is, for highly precise analysis of the problem, an agro-climatic map should be superimposed on a topographic base map. This map in conjunction with the cultivated lend figures again overlayed and with the proportion of the crop acreage in terms of cultivated lend being shown would form a precise framework for conclusions.

The terms of reference called for the extension of the target systems through 1960. With normal stability in crop patterns, it is probable that changes by 1960 would be significant. However, estimates had been prepared for 1960 for other purposes and to fulfill the request were adapted for this report. As would be expected 1960 relationships undergo no substantial changes. Wheat is the grow which deviates to the greatest degree from the current pattern and rice is next. Barley and Oats remain much the same. The data on the estimated situation in 1960 are shown in Tables 8, 9, 10, and 11.

Chinese Livestock Industry

The WSED request was on the basis of production of meat derived from cattle, swine, and sheep and for milk. In China the latter item is insignificant.

In terms of weight, mest is a relatively minor item in the average Chinese diet. In a given year, mest production from all sources, including poultry mest, runs between 10 and 11 kilograms per capita. Undoubtedly, this amount, though small by western standards, is an important supplement to a diet predominately derived directly from food plants. Cattle and water buffalo are probably more important as draft power in agriculture than they are as food producers. Heat from these animals is almost a by-product from the draft purpose.

Pork is the mest produced in greatest quantity in China. Of all mest produced, including poultry mest, pork accounts for about 65-70 percent of the total by weight. The hog's place in the framework of Chinese agriculture is almost entirely that of a sesvenger. They are not allowed to consume but a small fraction of food that could go directly for human use. A dot map showing population density in China would also reflect with tolerable accuracy

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the distribution of the hog population.

The purely pastoral area of China is the northwest region. It is the largest area of good grazing land in China and stretches from the Pamir plateau and the foothills of the Tienshan Mountains in the west to the Taxidam Basin and Alashan Banner in the east. About 60 percent of this large area is pasture and the majority of the better than 6 million inhabitants are engaged in livestock raising. It is primarily small livestock in this area, that is sheep and goats, in terms of numbers even cattle are relatively unimportant as compared to these two classes.

The estimates of livestock in Communist China are based on Chinese Communist claims. In 1953, this was roughly 188 million head of all classes. However, a Communist claim in 1954 placed all livestock at 231 million head, a 100 million of which were claimed to be hogs. It is not known on what basis this second claim is made or the composition of the various animal classes. In addition, since the claim of 188 million head is 16 percent above prewar estimates, it was believed that for this report the former claim is probably the most reliable basis on which to show the various factors such as the number of the different animals per province, density per square kilometer, and area of concentration. The 1953 estimate was adjusted for the classes shown in this report so as to represent the situation in 1954. It should be recognised, however, that a later Communist claim is substantially larger than the data utilized.

Table 12, 13, 14, 15, and 16 cover hogs, cattle, water buffalo, goats and sheep respectively. The tables show the number of the various classes of animal by region and for province, the density of the animals for these areas in terms of number per square kilometer of total area in the political division, and the number of animals of that specific class as a percentage of the total estimated numbers of that species in China.

Maps have been prepared for each of 5 classes of livestock so as to assist in the determination of the most important areas as regards the various livestock species. The maps show two features; a) density per square kilometer by political unit, and b) the degree of concentration in terms of the national total for the given political unit.

Animal Diseases in China"

Animal diseases in China are common. Practically all types of diseases are found whether caused by viruses, protozoa, or nutritional deficiencies.

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Although protozoan diseases are classed as parasitic diseases, China has in addition a large number of non-protozoic parasites.

The diseases that are primarily episoatic are rinderpest, hog cholera, anthrax, swine erysipelas, swine plague, foot and mouth disease, bovine contagious pleusop neumonia, sheep pox and rabies. Other infectious diseases are ensoatic and some such as bovine tuberculosis and bang's disease are chronic.

There follows a list of the prevalent animal and fowl diseases in the different provinces of China which is based on "rough" data received from the different epizoatic prevention or agricultural organizations in the different provinces of China during a survey made by the National Research Sureau of Animal Industry, Ministry of Agriculture and Forestry, in 1946.

Kwangtung -- Rinderpest, hog cholera, anthrax, piroplasmosis.

Kwangsi -- Rinderpost

Kiangsi -- Minderpest, hog cholers, anthrex, swine erysipeles,

infectious necrotic enteritis, fowl cholera, hemorrhagic septicemia.

Saechwan - Rinderpest, anthrax, swine erysipelax, swine plague, hog cholera.

Suiyusn -- Rinderpest, hog cholers, anthrax, glanders, sheep pox, sheep scab, hemorrhagic septicamis.

Chahar -- Rinderpest, hog cholers, glanders, sheep pox, fowl cholers.

Jehol -- Rinderpest, hog cholers, sheep pox.
Hopei -- Rinderpest, tetanous, Bang's disease.

Honan -- Rinderpest, hog cholera, swine erysipelas, glanders,

fowl cholers, hemorrhagic septicemia.

Shansi -- Minderpest, hog cholers, fowl cholers, glanders.

Shantung -- Fowl cholers, rinderpest, hog cholers.

Hunan -- Rinderpest, hog cholers, anthrax, swine erysipelss,

fowl cholers, fowl pest, hemorrhagic septicemia, glanders,

chicken pox, tuberculosis.

Mupoh -- Rinderpost

Hunan -- Rinderpest, hog cholers, fowl cholers.

Kweichow -- Rinderpest, hog cholers, enthrex, hemorrhagic septicemia.

Chakiang -- Rinderpest, hog oholers, anthrax, fowl cholers, fowl pest, hemorrhagic septicemis.

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Kiangeu -- Hog cholera, anthrax, Bang's disease, tuberoulosis.

Anhwei -- fowl cholers, glanders.

Fukien - Minderpest, hog cholera, anthrax, fowl cholera, fowl

pest, hemorrhagic septicemia, malignant edema, piroplasmosis.

Manchuria -- Rinderpest, anthrax, tuberculosis, Bang's disease,

contagious pleuro-pneumonia, foot and mouth disease, rabies,

glanders, dourine, fowl plague, fowl cholers, pullouem.

After World War II animal disease control and prevention had been developed by the Nationalist government with considerable aid in equipment and technical personnel from UNRRA. Spincatic prevention bureaus were established in seven regions, Southeast, Southwest, WestChina, Morthwest, North China, Suiyuan, and Tsinghai. Each bureau had a serum plant which supplied the serums

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and vaccines needed in the regions. In addition to these bureaus, nearly every province had amimal disease prevention teams. These organizations laid a good base and the Chinese Communists have pushed the work in animal disease and epidemic control.

No attempt has been made to systematically organize and study recent outbreaks of animal diseases in Communist China or to assess available material concerning the government's control efforts and their efficiency.* Certain outbreaks of diseases are reported and their extent described.

The Communists reported serious epidemic outbreaks in the springs of 1950 and 1951.** Of the different kind of animal diseases reported, rinderpost and foot and mouth disease were the most widespread. The foot and mouth disease broke out in the Yarkand district of Sinkiang in May of 1950 and spread over a fourth of the area of the province. There was considerable delay in instituting control measures. By February 1951, the disease appeared in Tsinghai, Kansu, Minghaia, Shensi, and Sikang provinces and shortly thereafter, it appeared in 156 haien, (counties), in Sulyuan, Shansi, Chahar, Hopeh, Inner Mongolia, Jehol, and Kiangsu. Admittedly incomplete reports indicate that some three and a half million head of various types of livestock were infected by this outbreak.

In the spring of 1951, rinderpest spread to 71 haien in Shansi, Suiyuen, Charhar, Hopeh, Kansu, Tsinghai, Sikeng, Yunnan, Kwangtung, and Kwangsi. To check this epidemic, veterinarians were organized into mobile teams and epidemic control stations were set up in the affected areas. During that spring, over two and a half million head of buffalces and cattle were inoculated against the disease. These measures apparently brought the outbreak under control.

Fragmentary reports indicate the presence of other diseases in 1950-1951. Anthrax, glanders, hog cholers, and erysipelis were all reported from various parts of the country. Hog cholers and erysipelis were reported in Fukien in 1950 but by 1952, according to Communist claims, hog cholers occurred in only 20 haien and erysipelis in 60 haien. Anthrax and glanders were prevalent in 32 haien of Honan in the spring of 1950 and 1951. In the Tenghsien and Senchow districts of that province more than five thousand head of cattle died from these diseases.

More recently a hog disease spidemic was reported in Inner Mongolia, August 1954, and a unnamed epidemic among livestock was reported from the same area the previous month.

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A comprehensive survey of Chinese source materials would probably reveal other reports of outbreaks of sminal diseases.

* By recent is meant	the	period	of	Communist	eontrol	of	the	China	Meinland,

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Control efforts concerning animal diseases are more frequently reported by the Chinese Communists them are actual outbreaks or losses occasioned by diseases. They claim there are now 10,000 veterinarians with modern technical training and 80,000 representatives of the old school, a large number of whom have had short term courses in modern veterinary practice. It was officially estimated that in the course of three years, 1950-1952, a total of 87 million head of domestic animals were inoculated or treated for various animal diseases and further that in 1954, 48 percent of the cattle in the country had been inoculated. By 1953, it was claimed that rinderpest was nearly eliminated throughout the country and that foot and mouth disease and anthrax were also basically controlled and stopped from spreading.

More	also	basically	controlled	and	stopped	from	spreading.

Unquestionably the problem of control of animal diseases in China is a major one. Undoubtedly the Communist regime has attacked the problem in an agressive fashion. The impression is left, however, in spite of extensive claims by the Communists, that only the surface has been scratched and that the control of animal diseases and parasites is still in the distant future.

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24

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USSR: Livestock Numbers in Specified Republics, Oblasts, and Krays, 1 January 1953 a

(000 Head)

Republic, Oblast or Kray	Cattle	% of Total	Swine	% of Total	Sheep	% of Total	<u>Goata</u>	% of Total
Northwest (Ia)								
Karelo-Finnish SSR	128		35		176		39	
Murmensk Oblast	6		l ₄		15		21	
Leningrad Oblast	255		112		464		49	
Pskov Oblast	233		123		522		78	
Novgorod Oblast	28L		154		686		97	
Subtot 4.	<u>906</u>	1.6	428	1.5	1,863	1.2	284	1.2
Northern European USSR	(Ib)							
Arkhangel'sk Oblast	310		65		31.9		6h	
Vologda Oblast	495		126		LLL		68	
Komi ASSR	101		23		125		3	
Subtotal	<u> 206</u>	1.6	<u>a4</u>	0.8	888	0.9	772	0.9
Beltic (IIa)								
Satonia SSR	481		585		263		b /	
Latvian SSR	892		598		551		n.a.	•
Lithuanian 35R	942		945		586		₽/	
Kalingrad Oblast	102		523		32		n, a.	•
Subtotal	2,717	4.8	2,348	8.2	1,432	1.5	9∕	
Belorussis (IIb)								
Eastern Belorussia								
Polotsk Oblest	214		176		227		23	
Vitebak Oblast	207		188		183		31	
Mogilev Oblast	240		37.2		158		28	
Minsk Oblast	244		288		133		49	
Bobruyek Oblast	226		257		117		31	
Gomel' Oblast	21.9		250		58		48	
Poles'ye Oblast	Shr		191		101		7	
Western Belorussia								
Grodno Oblast	159		126		132		3	
Molodechno Oblast	171		147		165		8	
Baramovichi Oblast	174		156		120		36 7 5 5	
Pinsk Oblest	171		103		99		Ś	
Brest Oblast	167		154		135		5	
Subtotal	2.433	4.3	2,348	8.2	1,598	1.7	243	1.7

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Table 1 (cont'd)

(000 Head)

Republic, Oblest, or Kray		of otal	Svine	% of Total	Sheep_	% of Total	<u>Ooste</u>	Total
Ukraine (III)								
Ukraine 538								
West Ukraine	internanta.		në ë		138		2	
Volym Oblast	391		266 262		107		3	
Royno Oblast	373						Ī.	
L'voy Oblast	297 348		161 218		45 66		2 3 4.	
Fernopol' Oblast	340		134		115		30	
Stanislay Colast	297		69		33		8	
Drogobych Oblast	265		89		112		-	
Trans-Carpathian O.	338		105		252		8	
Chernovtsy Oblast	152		100					
North Ukrains	w		get and by		1.24		ы	
Vinnetsa Oblast	613		55h		111		4	
Zhitomir Oblast	600		477		124		75 50 67	
Kiev Oblast	788		816		ili		50	
Chernigov Oblast	512		596		126		67	
Sumy Oblast	770		573		183		110	
Poltava Oblast	618		703		150		83	
Khar'kov Oblast	524		519 474		91		9	
Kamenets-Podol'sk O.	489		414		,-			
South Ukraine	المقدر بعض		s/m		379		1	
Ismail' Oblast	75		57		226		38	
Odessa Oblast	379		335		196		9)
Mikelayev Oblust	559		IJ		2)3		10)
Kherson Oblast	268		201 360		68		24	
Kirovograd Oblast	356				196		lyc	
Despropetrovsk O.	514		590		308		1 ¹	Ł
Zaporosh'ye Oblast	350		327		294		120	
Stalino Oblast	150		1488		205		10	
Veroshilovgrad O.	360		134 384		793		70	ř.
Orimen Oblast	260		774		***			
Moldevien 50R	497		379		1,,662	!	31	3
Subtot 4	10,753	19.0	9,180	32.2	6,478	6.5	28	L 6.2
			, personners de la constitución de					_
Lower Don-Morth Caucas	T,154		538		1,942	<u>!</u>	1,3	
Apator Oblast	965		884		80	2	14	
Krasnodar Oblast	1,073		140		3,728	3	23	
Sterropol' Kray	1,013		28		235	5	16	
Orosnyy Oblast	£79		43		1,650	•	58	
n8461 To St. Land Asset	1H2		48		251		48	
Kabardinian ASSR	167							
Subtotal	4.131	7.2	1,921	6.7	8,608	9.0	1,311	2.2

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Table 1 (cont'd)

Republic, Oblest,						·	00 Head)	
or Krey	Cattle	% of Total	Swine	% of Total	Sheep	% of Total	Joats	% of Total
Transcaucasus (V \ (See Asiatic USSR)						The state of the s		
Volg a VI								
Astrakhan Oblast	283		6.6					
Stalingrad Oblast	893		86		805		81	
Seratov Gblast	667		332		2,100		286	
Kuybyshev Oblast	285		388		1,738		266	
Ul Yanovak Oblast	427		161		1,192		181	
Teter ASSR	615		161 365		7 9 5 1,889		121 363	
Subtotal	3.170	5.6	1,493	<u>5.2</u>	8.519	8.9	1,298	5.1
Antral European USSR	VII)		Taris at Samuel San Legenser (Long 1998)			~~ ~	22:/2	2.1
Upper Volga	a distance							
Kirov Oblast	598		214		-			
Couveak Oblast	233		170		515		81	
Harl ASSR	139		70		542 194		86 52	
Central Industrial							<i></i>	
Cor'kiy Oblast	519		272		700			
Kostroma Oblast	282		109		792		278	
Ivanovo Oblast	196		51		279		27	
Yaroslavl' Oblast	282		66		279		56	
Vladimir Oblast	21.9		76		279		28	
Ayasan Oblast	477		366		326		50	
Tula Oblast	374		237		721		59	
Kaluga Oblast	506		266		482		27 56 28 56 59 13	
Moscow Oblast	515		310		540 443		32 95	
Western								
Kalinin Oblast	527		160		£nn			
Velikiye Oblast	283		164		627		19	
Smolensk Oblast	656		103		302 699		2lı 6	
Central Agricultural					• •		•	
Bryansk Oblast	394		21/6		met)			
Orel Oblast	393		149		254 251		35 35	
Kursk Oblast	758		475		224		35	
Voronesh Oblast	62 6		329		242		108	
Tamboy Oblast	321		324		354 354 525 787 487		236	
Pensa Oblast	343		455		407		33	
Mordvin ASSR	215		1101		488 3 67		107 116	
Subtotel	9,056	16.0	5,016	17.6	10,382	10.9	1,582	11.0

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			•	•			(000 H	lhee
Republic, Oblast,		% of		% of		% of	1000 11	% of
or Arey	Cattle	Total	Swine	Total	Sheep	Total	Coats	Total
Urals VIII								
Burope an								
Udmurt ASSR	266		207		336		22	
Molotov Oblast	478		302		462		102	
Bashkir ASSR	1,083		360		1,539		320	
Chkalov Oblast	817		500		1,212		97	
Subtotal	2,644	4.7	1,069	3.8	3.549	<u>3.7</u>	<u> 510</u>	3.8
Total European							-,	
USSR	36,716	61.0	ol. ma	Q1. 3	1.0 000	t and the		1
		<u>64.9</u>	24,017	84.3	43.227	45.3	<u>6,381</u>	<u>44.5</u>
Asiatio								
Sverdlovsk Oblast	574		91.0		3			
Chelyabinsk Oblast	57L		340		428		106	
	714		193		725		70	
Subtotal	1,148	2.0	533	1.9	1,153	1.2	176	1.2
West Siberia (IX)								,
Kurgan Oblast	516		138		570		000	
Tyumen' Oblast	45		ĩš		42		289	
Omsk Oblast	911		373		883		5	
Novosibinsk Oblast	1,211		480		1,135		संद संद	
Kemerovo Oblast	747		296		701		34 25 75	
Altay Kray Oblast	1,469		145		2,014		408	
Tomsk Oblast	165		65		154		8	
Subtotal	5.094	9.0	1,815	6.4	5.499	5.8	, <u>838</u>	5.8
(azakh SSR (Ia)					- Constitution			Olipania sum
North Kazakhstan Oblas	t 157		7.8		1.10		***	
Kokchetav Oblast	310		15.4		443		30	
Pavloder Oblast	333		16.2		877 1,316		59	
Kustanay Oblest	487		26.8		1,190		75	
Aktyubinsk Oblest	382		10.7		784		107 134	
Akmolinsk Oblast	347		16.2		988		88	
West Kazakhatan O.	554		9.8		1,699		161	
Gur'yew Oblast	134		1.4		835		188	
East Kazakhstan O.	289		39.4	وبز	1,119		177	
Semipalatinsk 0. Taldy-Kurgan 0.	431		61.3		2,041		321	
Alme-Ata Oblast	177		30.8		1,398		218	
Dshambul Oblast	154		26.1		1,180		184	
Karaganda Oblast	200 279		25.3		1,701		359	
Kayl-Orda Oblast	68		8-4		866		167	
South Kazakhstan O.	226		2.5 19.9		566 2,067		147 523	
Subtotal	4,528	8.0	319.0	1.1	19.070	20.0	2,905	20.3

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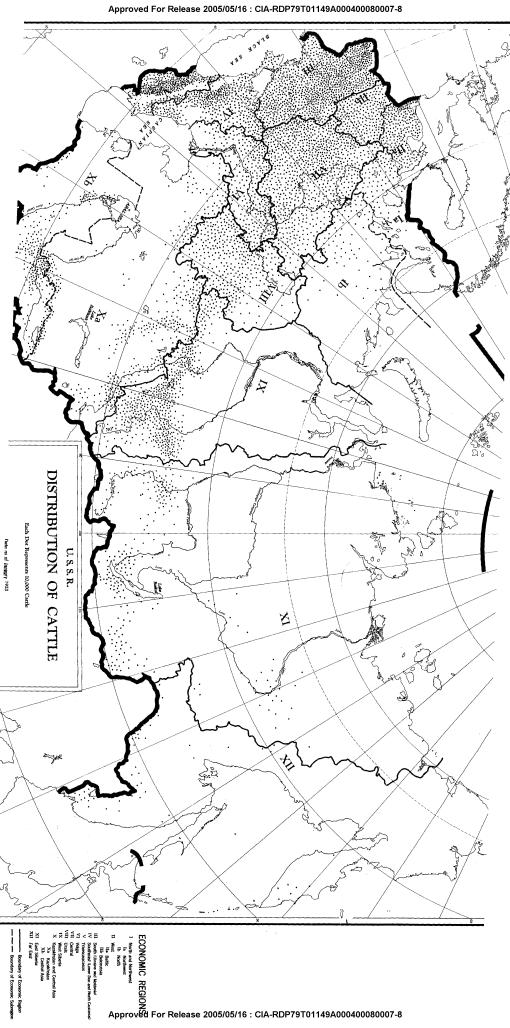
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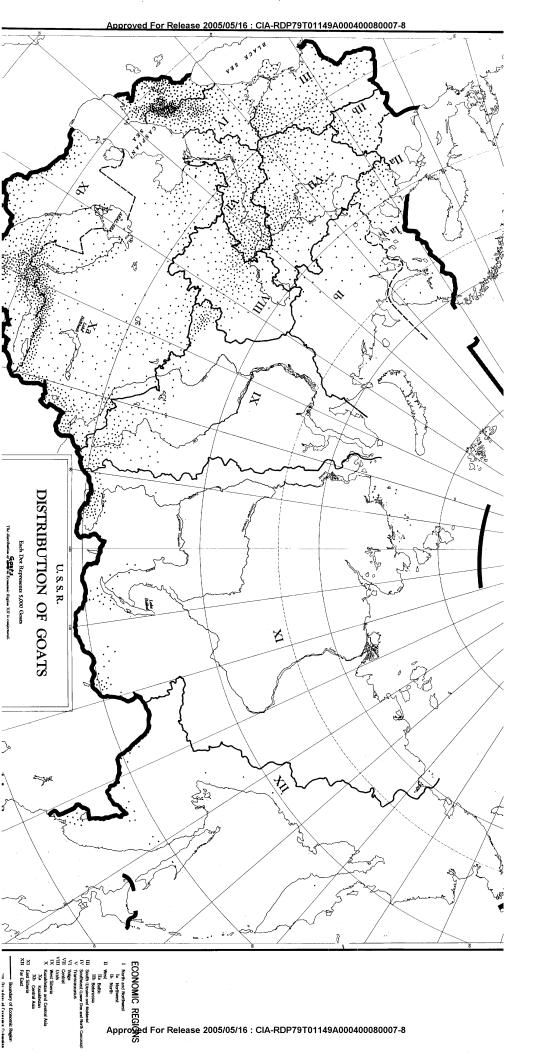
Table 1 (cont'd)

					(900 Head)					
Republic, Oblast, or Kray	Cattle	% of Total	Svine	% of Total	Sheep	% of Total	Coats	% of Total		
Central Asis (Xb)										
Kirgia 35R	533		92.3		3, 280					
Usbek SSR	1,549		77.4		6,966		427			
Tedshik SSR	549		21.3		1,804		886			
Turkmen SSR	256		23.0		3,383		684 354			
Subtotal.	2,887	5.1	214.0	0.8	15,433	16.1	2,351	16.4		
Rest Siberia (XI)					The second secon					
Krasnoyarsk Kray	779		309.5		1,160,9		<i>*</i>			
Irkutsk Oblast	438		146.4		237.3		8			
Buryst-Mongol' ASSR	38L		54.9		334.2		29			
Chite Oblast	503		110.8		643.3		63			
Yekut ASSR	394		n.3				105			
fuva Autonomous O.	171		8.1		.3 4 63. 0		0 227			
Subtotal	3,660	4.7	642.0	2.2	2,839.0	3.0	432	3.0		
Far Kast (XII)										
Primorskiy Krsy	160		128.5		336					
Khabarovak Kray	180		85.5		462		69 53			
			0,00		ijv.		53			
Subtotal	310	0.6	<u>214.0</u>	0.8	798	0.8	122	0.9		
renscaucasus (V)										
Aserbaydshan 558	1,238		202 0							
Georgian SSR	1,415		101.5		3,234		503			
Armenien SSR	574		576.2		2,566		416			
Control and and anticomes and	714		69.3		1,651		216			
Subtotal	3.827	5.7	747.0	2.6	7.452	7.8	1.135	7.2		
Total Asiatic USSR	19,884	<u>35.1</u>	4,483.0	<u>15.7</u>	52,243	<u>54.7</u>	1.959	<u>55.5</u>		
USSR Grand Total	<u>56,600</u>		28,500.0		<u>95,560</u>		14,340			

a. Present boundaries.

b. Included with sheep.
 c. Included with sheep or not available.





TAB

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APPENDIX B

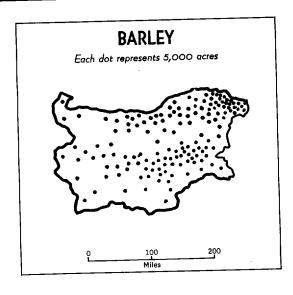
BASTERN EUROPEAN SATELLITES

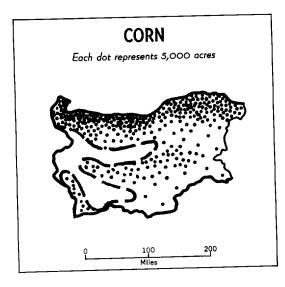
Approved For Release 2000/05/DECAMEDP79T01149A000400080007-8
Table 1: Acresse, Yield and Production of Selected Grains
for European Satellites, 1935-39 Average and 1953**

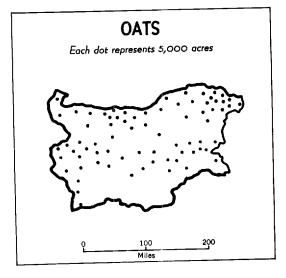
		Prevar	and the plant of the part of the second		1953	and the state of t
	Hervested			Harvested		
	Area	Yield	Prod.	Area	Yield	Prod.
	(1,000 Re.)	$(\frac{9}{\text{Ha.}})$	(1,000 MT)	(1,000 Ha.)	(9/Ha.)	(1,000 MT)
E Total				on the N		A 79A
Wheat	8,607	14.6	12,563	7,614	12.8	9,789
Rye	8,749	13.95	12,208	7,229	12.9	9,357
Barley	3,686	14.9	5,506	3,167	13.8	4,355
Cats	4,496	15.2	6,852	4,009	13.0	5,235
Total	25,538	14.5	37,129	22,019	<u>13.0</u>	28,736
lgeria			3 800	1 500	12.7	1,905
Wheat	1,361	13.9	1,880	1,500	10.5	252
Rye	257	11.0	283	2110	13.6	401
Barley	274	13.8	378	295	8.0	124
Cata	147	8.9	131	155		2,682
Total	2,039	<u>13.1</u>	2,672	2,190	12.2	EL GOE
sechoslovskia	873	17.7	1,550	780	19.5	1,521
Wheat		16.4	1,577	64,5	18.4	1,187
Rye	961 64.8			645	18.6	1,200
Barley		17.4 16.7	1,128 1,234	61.0	16.8	1,025
Oats	740			2,680	18.4	4,933
Total	3,222	17.0	5,489			
Mheat	605	26.3	1,589	275	23.5	646
Rye	1,198	17.8	2,134	1,200	16.2	1,944
Barley	1.33	24.9	1,078	272	22.0	598
Oats	732	23.1	1,691	709	18.3	1,297
Total	2,968	21.9	6,492	2,456	<u>18.3</u>	4,485
ungary	- 4-4-4	- 1 m	a 1 6a	1 202	14.3	1,862
Wheat	1,656	14.9	2,482	1,302 462	11.8	569
Rye	641	11.6	746	402	13.2	587
Barley	471	13.9	657		12.0	276
Oats	226	12.9	291 1. 176	230 2 <u>.459</u>	13.4	3,29h
Total	3,994	13.9	4,176	514/2		Testimo forma
<u>eland</u> Wheat	1,319	15.3	2,014	1,375	12.1	1,664
	5,433	13.3	7,214	4,512	11.7	5,279
Rye Barley	1,040	15.9	1,655	900	13.1	1,179
Cats	1,983	14.9	2,961	1,730	12.1	2,093
fotal	2.775	14.2	13,844	8,517	12.0	10,215
nasnis.	***	30.0	3, Oh8	2,382	9.2	2,191
Wheat	2,793	10.9		150	8.1	126
Ryo	259	9.8	254 610	610	6.4	390
Barley	822	7.4	514	575	7.3	1,20
Oats	656	8.3	744		8.4	3,1272
Total	4,530	<u>9.8</u>	4,456	<u>3,717</u>	<u> </u>	<u> </u>

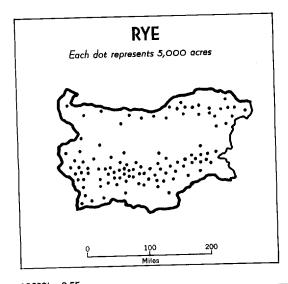
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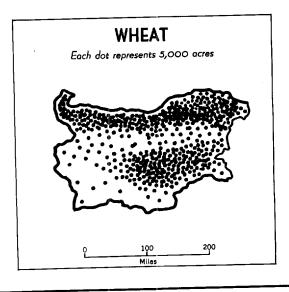
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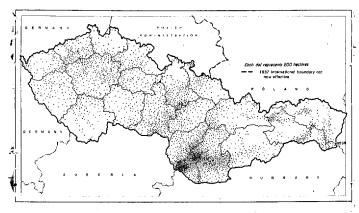
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CECDET

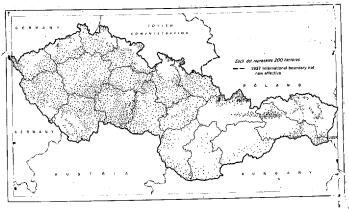
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Figure 2.

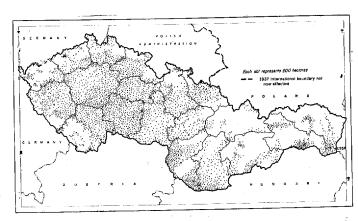
CZECHOSLOVAKIA: Crop Distribution



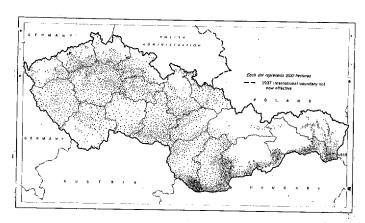
DISTRIBUTION OF AREA IN BARLEY, CZECHOSLO-VAKIA, 1949



DISTRIBUTION OF AREA IN OATS, CZECHOSLO-VAKIA, 1949



Distribution of area in Rye, Czechoslóvakia, 1949



DISTRIBUTION OF AREA IN WHEAT, CZECHC-SLOVAKIA, 1949

Figure 3. EAST GERMANY: Crop and Animal Distribution

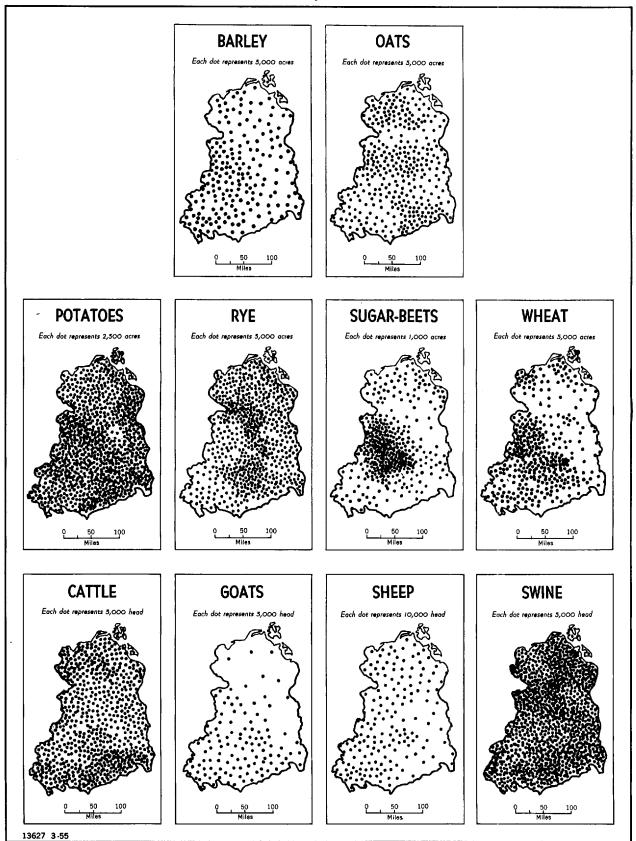
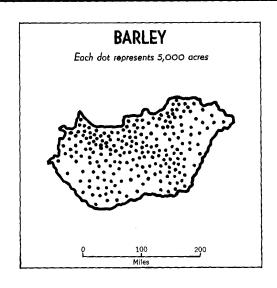
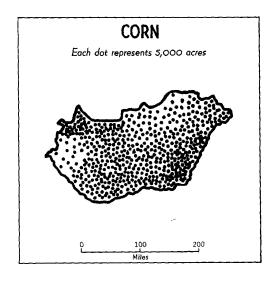
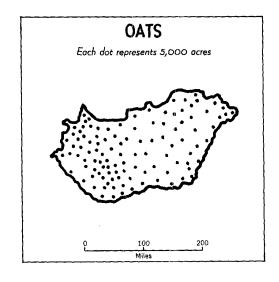


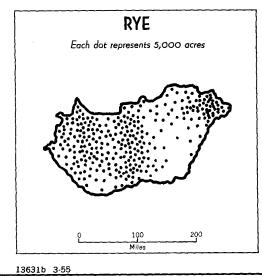
Figure 4.

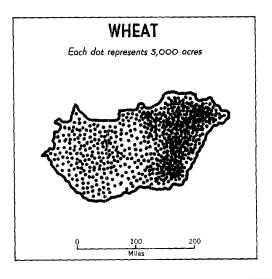
HUNGARY: Crop Distribution



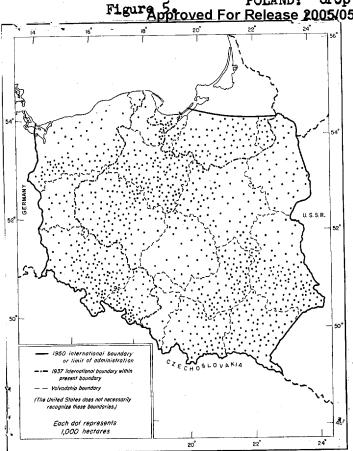




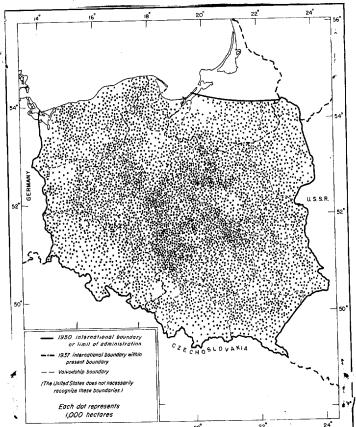


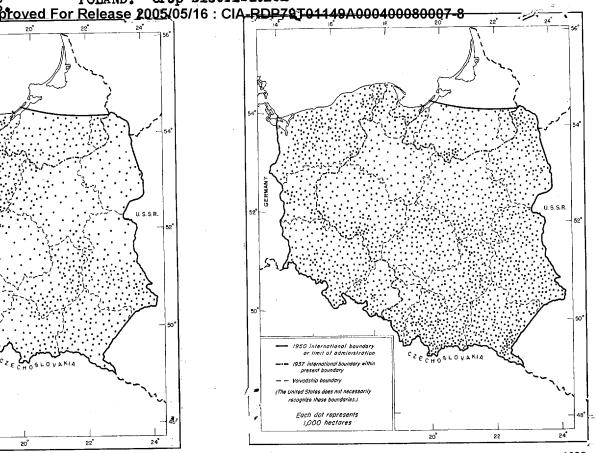


POLAND: Crop Distribution

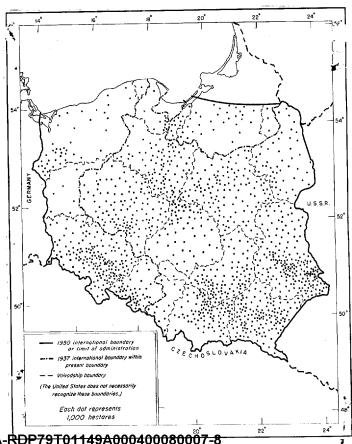


DISTRIBUTION OF AREA IN BARLEY, POLAND, 1938 (PRESENT BOUNDARIES)





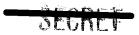
DISTRIBUTION OF AREA IN OATS, POLAND, 1938 (PRESENT BOUNDARIES)



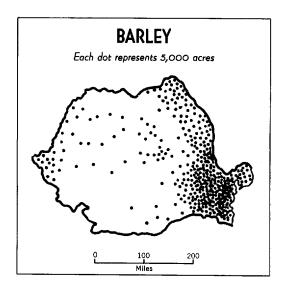
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DISTRIBUTION OF AREA IN RYE, POLAND, 1938
DISTRIBUTION OF AREA IN

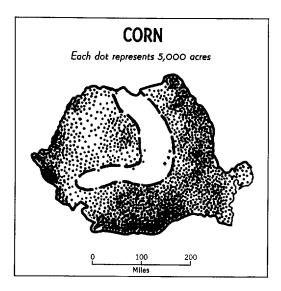
6 LUDI (PRESENT BOUNDARIES)

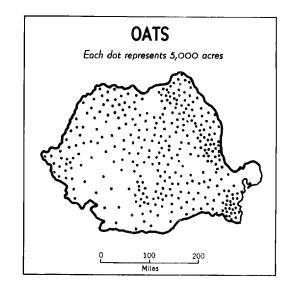
DISTRIBUTION OF AREA IN WHEAT, POLAND, 1938 (PRESENT BOUNDARIES)

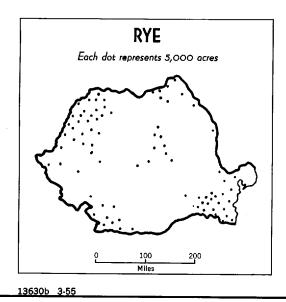


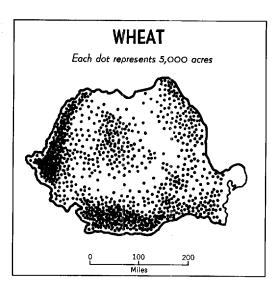
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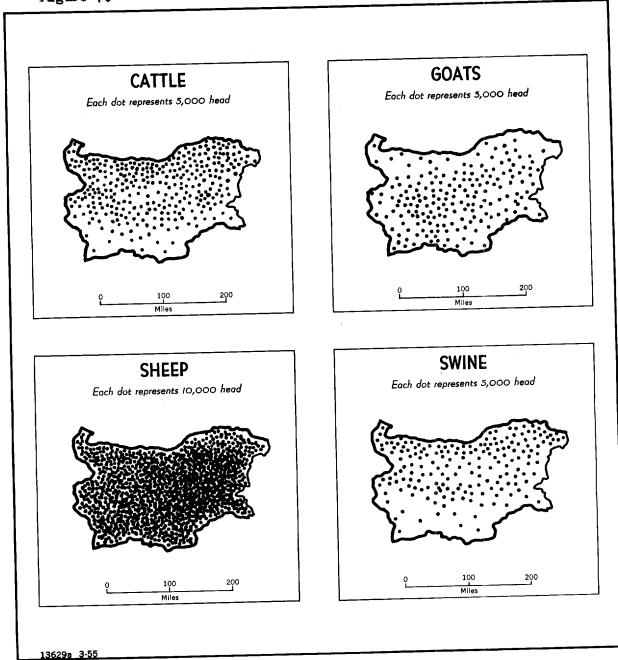


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	Census Date Month	(2000)	(000) (000)	(000)	(000)	(000)	(000)	(000) (000)	(000)
al Europe		25,512	25,486	25,343	3,779	23,337	30,087	25,159	4,217
garia choslovskia		1,822	3 63	8,746	1.00 812	2,508	1,3%	1.7 28.41 28.41	\$2 80 1
st Cermany	н	3,577 0/	2,714 b/	1,560 b/	692 5/	3,877	8,283	1,421	1,326
Kary	AI-III		_			1,800	3,450	987) 8
end a	HH	9,92 <u>1</u> 3,809	9,684 2,431	9,736 1,9 <u>1</u> 1	787 382	5,767 5,767	9,730 3,522	3,330	6 80 80 80 80
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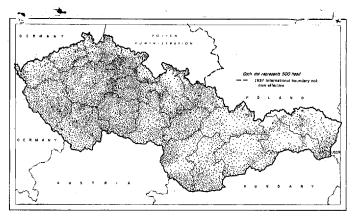
Table II.

Figure 7. BULGARIA: Animal Distribution

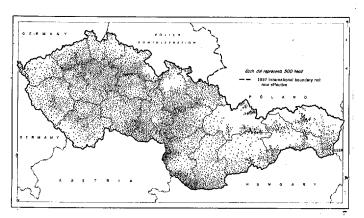


- GEONET

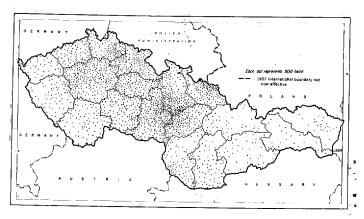
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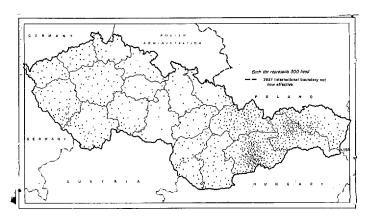
DISTRIBUTION OF CATTLE, CZECHOSLOVAKIA,



DISTRIBUTION OF HOGS, CZECHOSLOVAKIA, 1949

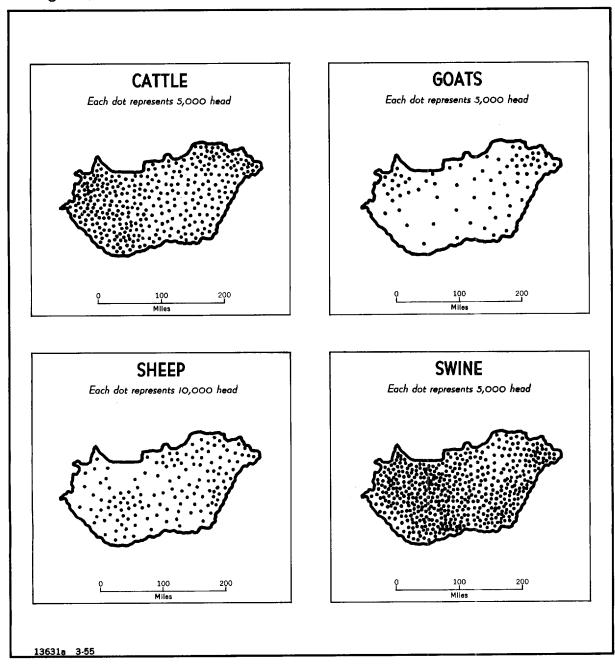


DISTRIBUTION OF GOATS, CZECHOSLOVAKIA, 1949

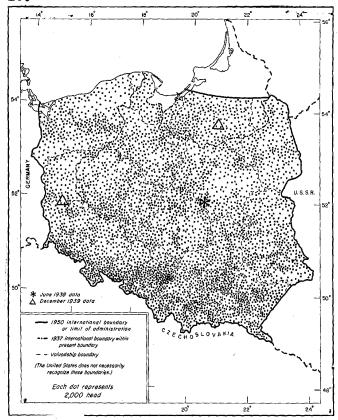


DISTRIBUTION OF SHEEP, CZECHOSLOVAKIA, 1949

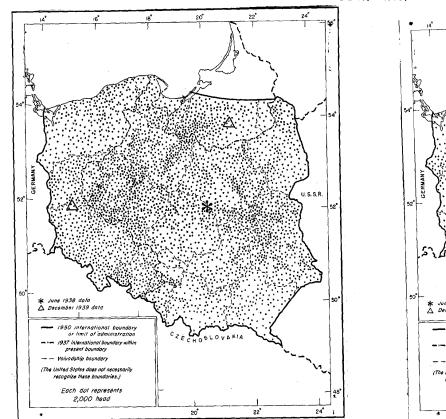
Figure 9. HUNGARY: Animal Distribution

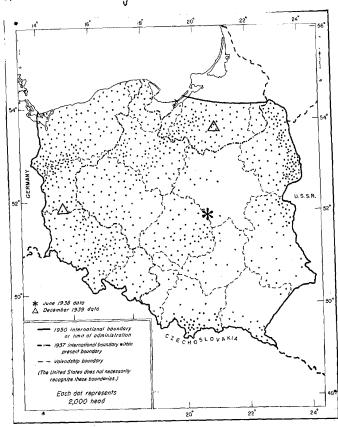


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DISTRIBUTION OF CATTLE, POLAND (PRESENT ROUNDARIES). WESTERN TERRITORIES, 1939, AND POLAND (Proper 1938)



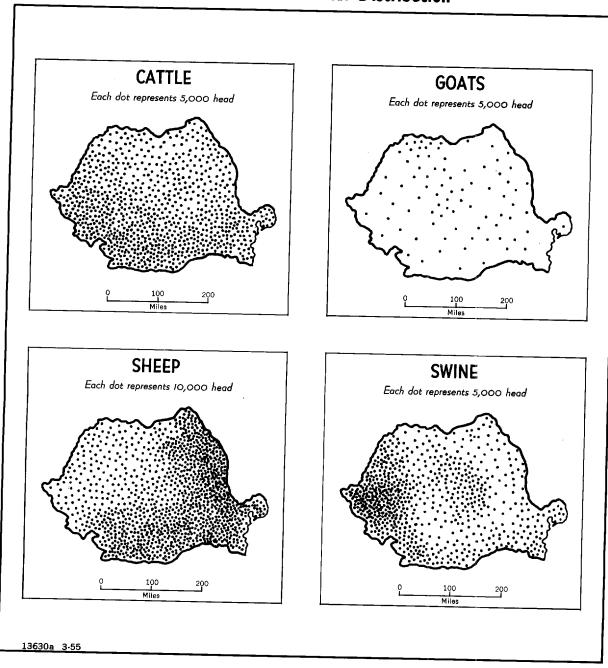


DISTRIBUTION OF HOGS, POLAND (PRESENT BOUNDARIES).

BOUNDARIES).

DISTRIBUTION OF HOGS, POLAND (PRESENT BOUNDARIES), WESTERN APPROPRIATE APPROPRIATE APPROPRIATE BOUNDARIES), WESTERN TERRITORIES, 1939, AND POLAND BOUNDARIES)

Figure 11. RUMANIA: Animal Distribution



TAB

Approved For Release 2005 32 (1) DA-RDP79T01149A000400080007-8

APPENDIX C

COMMUNIST CHIMA

Approved For Release 2003/03/10/10/10/149A000400080007-8

China Table 3: Total Area of Region and Province, Amount of Cultivated Land, and Proportion of Total Area Cultivated.

Region and Province	Total Area a/	Area Cultivated b/	Percent of Total Area Cultivated (Percent)
Mortheast Meilungkiang Kirin Liaoning Jehol	88,100	17,996 g/	20-և
North China	65,561	14,211	21.7
Suiyuan	31,106	1,145	3.7
Shamai	17,138	4,859	28.4
Hopeh	17,317 <u>b</u> /	8,207 <u>f</u> /	47.4
East China	62,213	21,649	34.8
Shantung	14,631	6,799	46.5
Kiangsu	10,882	5,687	52.3
Anhwei	14,472	4,955	34.2
Chekiang	9,643	2,777	28.8
Pukien	12,585	1,431	11.4
South-Central China	118,793	22,204	18.7
Henen	18,459	6,942	37.5
Hupeh	19,261	4,300	22.3
Hunen	21,706	3,347	15.4
Kiangsi	18,117	2,889	15.9
Kwangtung	22,651	2,733	12.1
Kwangsi	18,599	1,993	10.7
Northwest Sinking Teinghal Kansu Shonsi	304,945 171,193 52,811 62,274 <u>c</u> / 18,667	6,425 , 994 521 1,868 g/ 3,042	2.1 1.0 3.0 16.3
Southwest	141,458	13,656	9•7
Sikang	45,152	267	•6
Kweichow	17,386	1,545	8•9
Yunnan	39,500	1,748	4•4
Saechwan	39,420	10,096	25•6
Total	781.970	<u>96.141</u>	12.3

(See attached page for footnotes.)

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Footnotes for Table 3 - China

- a. There have been some major boundary shifts, most of which are accounted for, some boundary shifts involving the retention of a province and merely some gain or loss in size have been ignored. The loss of area in Ewangtung and its transfer to Kwangsi is the major case of this type of transfer which is ignored here.
- b. Hopeh plus li percent of the area of Chahar as an approximation to the present boundaries.
- o. Kansu plus Kinghasi.
- d. Cultivated land data was taken from T. H. Shen, Agricultural Resources of China, and from HIS-39.
 - e. An approximate datum based on a total cultivated estimate for nunchuria minus the Haing-an Banners plus the cultivated area of Jehol province.
 - f. Cultivated land for Hopeh plus 90 percent of the cultivated area of Chahar.

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Table 4. By Regions and Provinces: Area Under Rice, Percentage of Total Area in Rice, Percentage of Total Cultivated Area in Rice, and Area Under Rice in the Regions and Provinces as a Percentage of the National Area in Rice, 1954

Region and Province	Area in Rice Thous. Ha.	area of Rice as Percentag of Total Are of Region or Province Percent	e as Percentage of Cultivated	Area in Rice as Percentage of Total Area Under Rice in the Nation Percent 1.6
Heilungkiang) Kirin) Liaoning) Jehol)		·	a provincial basis	200
North China Suiyuan Shansi Hopeh	135.4 neg. 9.0 126.4	.2 neg. .1 .7	.1 neg. .2 1.5	.7 neg. .1 .6
East China Shantung Kiangsu Anhwei Chekiang Fukien	5,462.0 21.8 1,767.0 1,100.6 1,745.7 826.9	8.8 16.2 7.6 18.1 6.6	25.2 .3 31.1 22.2 62.9 57.8	27.3 8.9 5.5 8.7 4.1
South-Central China Homan Hupeh Hunan Kiangsi Kwangtung Kwangsi	10,003.8 174.0 1,731.7 1,811.7 1,501.6 3,223.2 1,561.6	8.4 .9 9.0 8.3 5.3 14.2 8.4	45.1 2.5 40.3 54.1 52.0 117.9 78.4	50.0 8.6 9.1 7.5 16.1 7.8
Korthwest Sinkiang Tsinghai Kansu Shensi	129.9 neg. neg. 19.2 110.7	neg. neg. neg. neg.	2.0 neg. neg. 1.0 3.6	.7 nsg. nsg. 1.6
Southwest Sikang Kweichow Yuman Ssechwan	3,948.7 neg. 584.0 722.6 2,642.1	2.8 neg. 3.4 1.8 6.7	28.9 neg. 37.8 41.3 26.2	19.7 neg. 2.9 3.6 13.2
Totals	19,997.8	2.6	20.8	100.0

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Table 5. By Regions and Provinces: area Under Wheat, Percentage of Total Area in Wheat, Percentage of Total Cultivated Area in Wheat, and Area Under Wheat in the Regions and Provinces as a Percentage of the Mational Area Under Wheat, 1954

Region and Province		in Wheat	Area of Wheat as Percentage of Total Area of Region or Province Percent	as Perce	ntage as Percentage vated of Total Area Region Under Sheat ince in the Nation
Northeast	1,135	;	1.3	6.3	4.2
Heilungkiang) Kirin) Liaoning) Jehol		Not aw	alable on a pro		•
North China	3,321		5.1	00 1	
Sulyuan	~ * * * * * * * * * * * * * * * * * * *	175	.6	23.4	12.5
Shanei		1,270	7.4		.7
Hopeh		1,876	10.8		1.8
East China	9,324		15.0	43.1	7.0
Shantung		3,304	22.6		34.9
Kiengsu Anhwei		2,170	19.9		.5 12.4 .2 8.1
Chekiang		2,371	16.4	47	
Pukien		891	9.2	32.	
South-Central China	4 66-	588	4.7	41.	
Honan	6,667	1	5.6	30.0	25.0
Hupeh		4,154	22.5	59.	.8 15.6
Hunan		1,000	5.2	23.	.3 3.7
Kiangei		435	1.8	12.	
Kwangtung		285	2.4 1.3	15.	
Kwangsi		393	2.1	10.	****
Northwest	3,602		1.2	56.1 19.	
Sinkiang	•	616	.4	62.	13.5
Teinghai		160	.3	30.	
Kansu Shensi		1,469	2.4	78.	-
Southwest	A	1,357	7.3	44.	
Sikeng	2,631	¥	1.9	19.3	9.9
Kweichow		47	.1	17.	6 .2
Yunnan		395	2.3	25.	6 1.5
Ssechwan		300 1,889	.8 4.8	17. 18.	2 1.1
Totals	26,680		3.8	27.8	100.0

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Table 6. By Regions and Provinces: Area Under Barley, Percentage of Total Area in Barley, Percentage of Total Cultivated Area in Barley, and Area Under Barley in the Regions and Provinces as a Percentage of the Mational Area in Barley, 1954

Region and Province	Area i Thou	in Barley 15. Ha.	as F of T of	of Barle ercentage otal Area Region or rovince ercent	as s of c Area or	of Barley Percentage Cultivated of Region Province Percent	of To Unde in the	in Barley ercentage otal Area er Barley ne Nation ercent
Neilungkiang) Kirin) Lisoning) Jehol)		Not av		e on a pr	_	basis	7.0	
North China Suiyuan Shansi Hopeh	505	34 198 273	.8	.1 1.2 1.6	3.6	3.0 4.1 3.3	7.4	.5 2.9 4.0
East China Shantung Kiangsu Anhwei Chekiang Fukien	2,395	273 1,133 423 382 184	3.8	1.9 10.4 2.9 4.0	11.1	4.0 19.9 8.5 13.8	35.1	4.0 16.6 6.2 5.6
South-Central China Honan Hupeh Hunan Kiangsi Kwangtung Kwangsi	2,143	566 880 137 191 164 205	1.8	3.1 4.6 .6 1.1 .7	9.7	8.2 20.5 4.1 6.6 6.0	31.4	2.7 8.3 12.9 2.0 2.8 2.4
Fortheast Sinkiang Tringhai Kansu Shensi	383	N.A. 96 96 191	.1	N.A. .2 .2	6.0	10.3 N.A. 18.4 5.1	5.6	3.0 N.A. 1.4 1.4
Southwest Sikang Kweichow Yunnan Szechwan	1,277	N.A. 2.2 164 901	-9	N.A. 1.2 .4 2.3	9.4	6.3 N.A. 13.7 9.4 8.9	18.7	N.A. 3.1 2.4 13.2
otals	6,824		•9		7.1	-	ю.0	**************************************

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Table 7. By Regions and Provinces: Area Under Oats, Percentage of Total Area in Oats, Percentage of Total Cultivated Area in Oats, and Area Under Oats in the Regions and Provinces as a Percentage of the National Area in Oats, 1954

Region and Pro		in Oats	of To	in Oats ercentage otal Area egion or ovince orcent	as Pe of Cu Area or P	of Cats rcentage litivated of Region rovince rcent	as Pe of Te Under the	in Oats Proentage Otal Area Coats in Nation Proent
Northeast	259		•3		1.4		19.8	
Heilungkiang Kirin	}			_	•		27.0	
Liaoning)	Bo	ot avai	lable on p	rovincial	basis		
Jehol)							
North Chins	805		1.2		5.7		1- 1	
Suiyuan	•	270		.9	2+1	23.6	61.6	
Shensi		322		1.9		6.6		20.7
Hopeh		213		1.2		2.6		24.6 16.3
East China	76		.1	•				
Shantung	,,,	3	* £		.8		5.8	
Kiangsu		61		neg.		neg.		.2
Anhwei		12		.6 .1		1.1		4.7
Chekiang		ō		0		.2		•9
Fukien		ō		Ö		0 0		0
South-Central d	nine lh		neg.		•			Ū
Honan		2		neg.	.1		1.1	_
Hupeh		12		.1		neg.		.2
Hunan		O		õ		.3 0		.9
Kiangsi		O		ŏ		Ö		0
Kwangtung		0		Ö		ő		0
Kwangsi		0		0		o		0
orthwest	107		neg.		1.7		8.2	
Sinkiang		N.A.	-	N.A.	,	N.A.	0.2	** *
Teinghai Kansu		48		.1		9.2		N.A.
		52 7		.1		2.8		3.7 4.0
Shensi		7		neg.		.2		•5
outhwest	46		neg.		•3			·
Sikang		N.A.		N.A.	• .	M s	3.5	
Kweichow		0		0		N.A.		N.A.
Yunnan		46		0		ŏ		0
Ssechwan		46		.1		0 0 •5		0 3.5
otels	1,307		.2		1.4	-	100.0	

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Table 8. By Regions and Provinces: Area Under Rice, Percentage of Total Area in Rice, and Percentage of the National Area in Rice, 1960

	×	area of Rice as Percentage of Total Area of Region or	Area of Rice as Percentage of Total Area Under Rice
Region and Province	Area in Rice Thous. Ha.	Province Percent	in the Nation Percent
Northeast Heilungkiang) Kirin)	340	.u	1.6
Lisoning) Jehol)		arms on a province o	€
North China	138	.2	•7
Suiyuan	neg.	neg.	neg.
Shansi	10	• <u>1</u>	·j
Hopeh	129	.7	.6
East China	5,655	9.1	26.և
Shantung	22	.2	.1
Kiangeu	1,831	16.8	8.6
Anhwei	1,151	8.0	5.4
Chekiang	1,808	18.7	8.4
Fukien	843	6.7	3.9
South-Central China	10,916	9.2	51.0
Honan	190	1.0	•9
Hupeh	1,889	9.8	8.8
Hunan	1,978	9.1	9.2
Kiangsi	1,638	9.0	7.7
Kwangtung	3,517	15.5	16.4
Kwangsi	1,704	9.2	8.0
Northwest	194	.1	.9
Sinkiang	neg.	nog.	neg.
Tsinghai	neg.	neg.	neg.
Kansu	29	ne g.	.1
Shensi	165	•9	.8
Southwest	4,157	2.9	19.4
Sikang	neg.	neg.	neg.
Eweichow	615	neg. 3.5	2.9
Yunnan	761	1.9	3.5
Seechwan	2,781	7.1	13.0
Totals	21,400	2.7	100.0

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Table 9. By Regions and Provinces: Area Under Wheat, Percentage of Total Area in Wheat, and Percentage of the National Area in Wheat, 1960

Region and Province	Area in Wheat Thous. Ha.	area of Wheat as Percentage of Total Area of Region or Province Percent	Area of Wheat as Percentage of Total Area Under Wheat in the Nation Percent
Mortheast Heilungkiang) Kirin) Liaoning) Jehol)	1,510 Not avai	1.7 Lable on a provincial be	5.3
Morth China Suiyuan Shansi Hopeh	3,503 175 1,338 1,990	5.3 7.8 11.5	12.2 .6 4.7 6.9
Kast China Shantung Kiangsu Anhwei Chekiang Fukien	9,993 3,465 2,170 2,843 903 612	16.1 23.7 19.9 19.6 9.4 4.9	34.9 12.1 7.6 9.9 3.2 2.1
South Central China Honan Hupeh Hunan Kiangsi Kwangtung Kwangsi	6,735 4,214 1,000 400 440 285 396	5.7 22.8 5.2 1.8 2.4 1.3 2.1	23.5 14.7 3.5 1.4 1.5 1.0
Northwest Sinklang Tsinghai Kansu Shensi	4,182 616 162 2,014 1,390	1.h .h .3 3.2 7.4	14.5 2.1 .6 7.0 4.8
Southwest Sikang Kweichow Yunnan Szechwan	2,743 47 426 300 1,970	1.9 2.5 .8 5.0	9.6 .2 1.5 1.0 6.9
Totals	28,666	3.7	100.0

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Table 10. By Regions and Provinces: Area Under Barley, Percentage of Total Area in Barley, and Percentage of the National Area in Burley, 1960

Region and Province	Area in Barley Thous. Ha.	Area of Barley as Percentage of Total Area of Region or Province Percent	Area of Barley as Percentage of Total Area Under Barley in the Nation Percent
Northeast Heilungkiang) Kirin) Liagning) Jehol)	120 Not avails	.l able on a provincial be	1.8
Worth Chins Suiyuan Shansi Hopeh	503 34 197 272	.8 1.1 1.6	7.4 .5 2.9 4.0
East China Shantung Kiangsu Anhwei Chekiang Fukien	2,383 272 1,127 421 380 183	3.8 1.9 10.4 2.9 3.9 1.5	35.1 16.6 6.2 5.6 2.7
South-Central China Honan Hupeh Hunan Kiangsi Kwangtung Kwangsi	2,131 563 875 136 190 163 204	1.8 3.1 4.5 .6 1.0 .7	31.7 8.3 12.9 2.0 2.8 2.4 3.0
Northwest Sinkiang Tsinghei Kansu Shensi	380 95 95 190	.1 N.A. .2 .2 1.0	5.6 N.A. 1.4 1.4 2.8
Southwest Sikeng Kweichow Yunnan Szechwan	1,269 N.A. 210 163 896	.9 1.2 .4 2.3	18.7 N.A. 3.1 2.4 13.2
Totals	6,786	•9	100.0

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Table 11. By Regions and Provinces: Area Under Oats, Percentage of Total Area in Oats, and Percentage of the National Area in Oats, 1960

Region and Province	Area in Oats Thous. Ha.	Area of Oats as Percentage of Total Area of Region or Province Percent	Area of Oats as Percentage of Total Area Under Oats in the Nation Percent
Heilungkiang) Kirin) Liaoning) Jehol)	257 Not a	.3 wailable on a provincial	19.8 . basis
North China Suiyuan Shansi Hopeh	800 269 320 211	1.2 .9 1.9 1.2	61.7 20.7 24.7 16.3
East China Shantung Kiangsu Anhwei Chekiang Fukien	75 60 12 0 0	.1 neg. .6 .1 0	5.7 4.6 .9 0
South-Central China Homan Hupeh Hunan Kiangsi Kwangtung Kwangsi	13 2 11 0 0 0	neg. neg1 0 0 0	1.0 .2 .8 .0 .0 .0
Northwest Sinkleng Tsinghei Kansu Shensi	107 N.A. 48 52 7	neg. N.A. 1 1 neg.	8.2 N.A. 3.7 4.0
Southwest Sikang Eweichow Tunnan Szechwan	46 N.A. O O 46	neg. N.A. O O .1	3.6 N.A. 0 0 3.6
Totals	1,298	.2	100.0

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Table 12: Region or Province: Humber of Hogs, Density per Square Kilometer, and Number in Region or Province as Percentage of the Humber in the Hetion, 1954.

Region and Province	Number of Hogs (000 head)	Density of Hogs per Square Kilometer Okumber/sq. kilo.)	Number of Hogs as a Percentage of Hogs in Nation (Percent)
Northeast China	6,037	6.9	7.8
Inner Mongolia b/	61.9	.6	•8
Shangi Hopeh	ь ,6 рн	3.6 26.8	•8 6•0
Shantung Kiangau	4,180 5,960	28.6	5.4
Ankori Cheki ang	3,328 3,251	54.8 23.0 33.7	7.7 4.3 4.2
Fukien	2,090	16.6	2.7
Honan Rapeh	3,793 4,721	20. 5 24 . 5	4.9 6.1
Hunan Kiangsi Kwangtung	5,960 4,489 6,192	27.5 24.8 27.3	7.7 5.8
Kwangei	4,334	23.3	8.0 5.6
Sinkieng Teinghei Keneu	50g. 77 1,238	neg.	neg.
Shenei	1,161	2.0 6.2	1.6 1.5
Sikeng Kwalchow	neg. 1,703	neg. 9.8	neg. 2.2
Tunnan Spechwan	3,251 9,753	8.2 24.7	4.2 12.6
Totals	77,400	9.1	100.0

s. See Table 3 for total area data except Inner Mongolia.

b. 991,166 sq. kilometers, Inner Mongolia plus Suiyuan.

Table 13: By Region or Province: Number of Cattle, Density per Square Kilometer, and Number in Region or Province as Percentage of Number in Nation, 1954.

Region or Province	Humber of Cattle	Density of Cattle per Square Kilometer	Number of Cattle as Percentage of All Cattle in Nation
	(Thousand Read)	(Number/sq. Kilometer)	(Percent)
Mortheast China	1,147	1.3	3.5
Immer Mongolia	1,029	1.0	3.5
Shansi	558	3.3	• •
Nopeh	1,235	7.1	1.9 4.2
Shantung	2,764	18.9	
Kiangsu	1,352	12.4	9.4
Anthrei.	1,117		4.6
Chekiang	941	7.7	3.8
Pakien	362	9.8 3.0	3.2 1.3
Konan	3,352	18.2	
Hapeh	1,999	10.4	11.4
Hunen	1,670	6.8	6.8
Kiengei	1,882		5.0
Evengtung	1,676	10.4	6.4
Kwangai	1,588	7.4 8 . 5	5•7 5•4
Sinkiens	1.294	.8	
Tainghai	86	•2	4.4
Kansu	911		.3
Shene!	970	1.5 5.2	3.1 3.3
Sikang	1,617	3.6	- -
Smolehow	617	3.5	5.5
Tenan	529	1.3	2.1
Seethwan	882	2.2	1.8 3.0
Total	29,400	3.5	100.0

a. See Table 3 for total area data and Table 12 for Inner Mongolia.

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China Table lis By Region or Province: Humber of Water Buffalo,

Density per Square Kilometer, and Number in Region
or Province as Percentage of Number in Mation, 1954.

Region or Province s	Sumber of Weter Buffalo	Density of Water Buffalo per Square Kilonster	Number of WaterSuffel. As Percentage of all Water Suffelo in Nation
en e	(Thousand Head)	Number/Sq. Kilomster)	(Percent)
Northeast China	0	•	0
Inner Mongolia	0	0	0
Shenei.	mg.	nog.	nog.
depek	1.2	.1.	.1
Shentung	12	.1	.1
Kiangsu	944	8.7	7.8
Lauries	823	5.7	6.8
Oboking	327	3.4	2.7
Puklon	290	2.3	2.4
Konan	206	1.1	1.7
Hupsh	968	5.0	8.0
Hanka	1,549	7.1	12.8
Kiangei	859	4.7	7.1
(venctung	1,355	6.0	11.2
Kvangei	1,452	7.8	12.0
Sinkieng	0	٥	0
Tringhel	0	•	9
Kensu	1968.	neg.	neg.
Shensi	12	**	.1
Sikang	0	<u>o</u>	0
Xweichow	629	3.6	5.2
Tunnan	569	1.4	4-7
Spechan	2,093	5.3	17.3
Totals	13,100	1-4	100.0

a. See Table 3 for total area data and table 12 for Inner Mongolis.

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China Table 15: By Region or Province: Number of Coats, Density per Square Kilometer, and Number in Region or Province as Percentage of Number in the Nation, 1954.

Region or		Density of Gosts per Squere Kilometer	Number of Gosts as a Percentage of all Gosts in the Nation
Province s	Number of Gosts (Thousand Head)	(Momber/Sq. Kilo.)	(Percent)
Northeast China	1,788	2.0	4.9
Inner Mongolia	2,008	2.0	5.5
Shanai	3,249	20.0	8.9
Hopeh	2,04h	11.8	5.6
Shantung	1,898	13.0	5.2
Kiangsu	2,309	22.1	6,6
Animei Animei	803	5.5	2.2
Chairlang	1,496	15.5	h.1
Fokien	5k8	heh	1.5
Honen	2,993	16.2	8.2
Nupeh	1,934	10.0	5.3
Hunan	766	3.5	2.1
Kisnesi	292	1.6	.8
Evengtung	840	3.7	2.3
Kwangsi	328	1.8	•9
Sinkiang	3,322	1.9	9.1
Teinghei	292	.6	.8
Kansu	3,650	5.9	10.0
Shengi	1,278	6.8	3.5
Sikang	n.c.	n. a.	n.a.
Kweichow	474	2.7	1.3
Tennen	1,204	3.0	3.3
200 gives	2,884	7.3	7.9
Totals	36,500	4.3	100.0

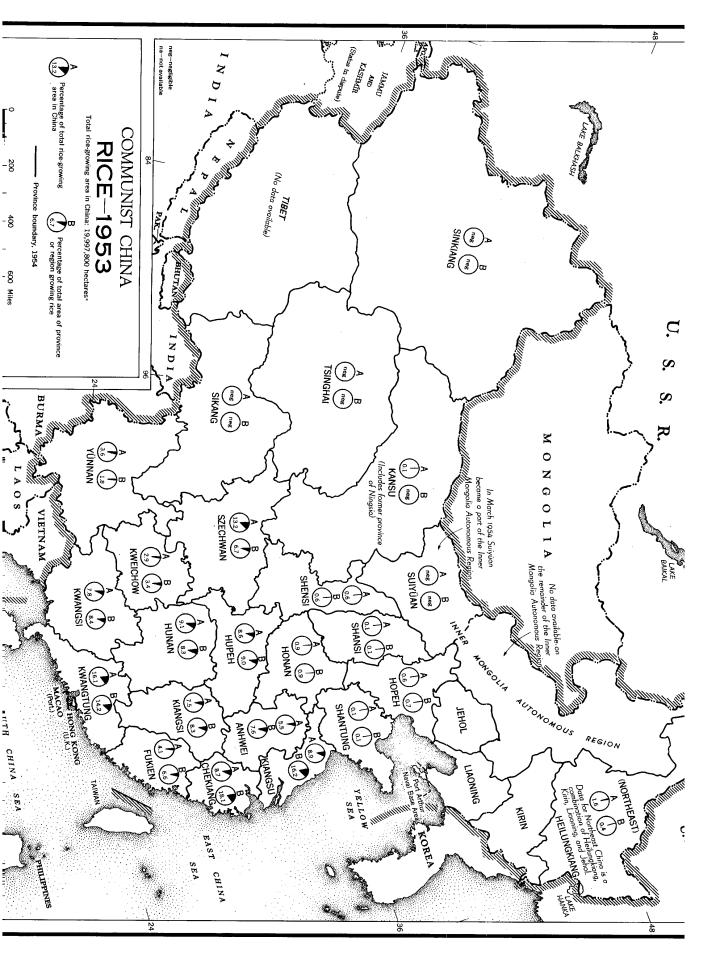
a. See Table 3 for total area data and Table 12 for Inner Mongolia.

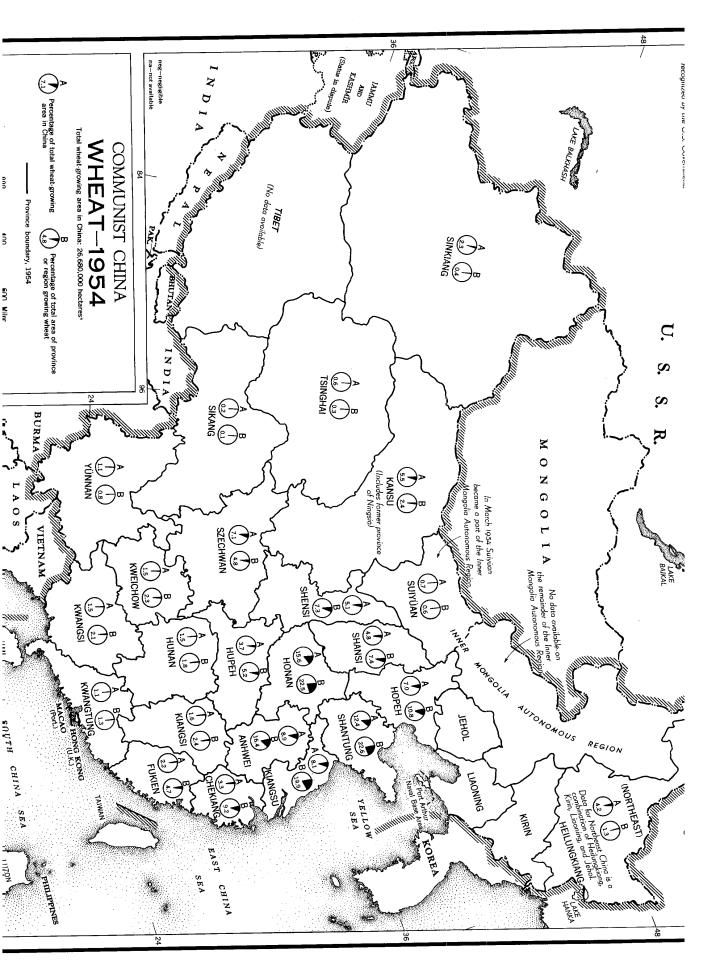
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China Table 16: By Region or Province; Number of sheep, Density per Square Kilometer, and Number in Region or Province as a Percentage of the Number in the Mation, 1950.

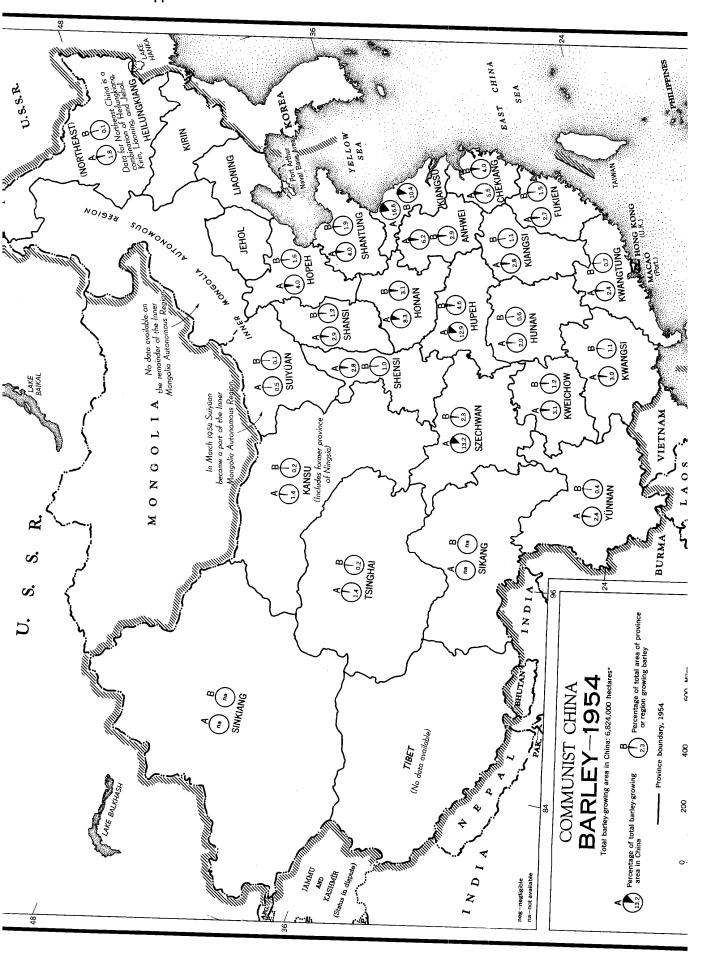
Region or Province s/	Number of Sheep	Density of Sheep per Square Kilometer	Number of Sheep As Percentage of all Sheep in the Mation
	(Thousand Head)	(Number/3q. Milometer)	(Fercent)
Mortheset China	479	.5	2.6
Inner Mongolia	2,576	2,6	14.0
Shangi	1,748	10.2	9.5
Repen	626	3.6	3.4
Shantung	865	5.9	4.7
Kiengeu	258	2.4	1.4
Anhoni	110		.6
Chekiang	497	5.2	2.7
Tukien	neg.	nog.	neg.
Honen	699	3.8	3.8
Hupeh	5 5	•3	.3
Nun en	neg.	30 g.	neg.
Kiangei	neg.	nos.	neg
Lametons	nog.	noc.	720g. O
Kvangei.	0	0	U
Sinkiana	6 ,16 4	3.6	33.5
Telaghel	294	•6	1.6
Kappu	2,687	4.3	14.6
Shemai.	294	1.6	1.6
Sikang	791	1.8	4.3
Kwalchow	18		.1 .8 .5
Twomen	147	4	*9 . d
Seocitaen	92	•2	•3
Total	<u>18,400</u>	2.2	100.0

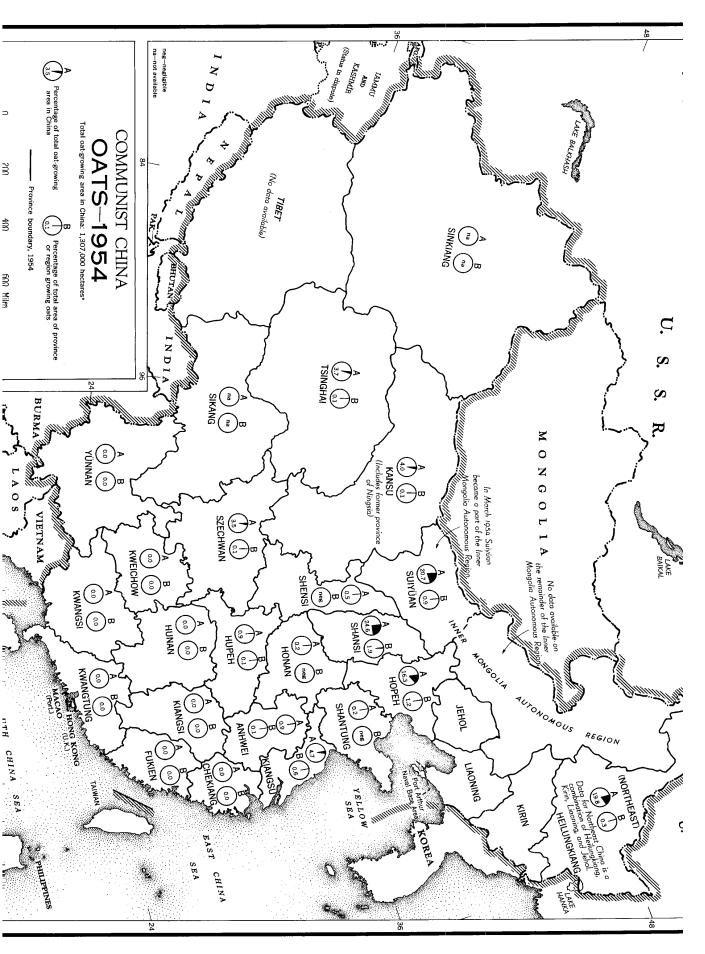
s. See Table 3 for total area data and Table 12 for Inner Mongolis.

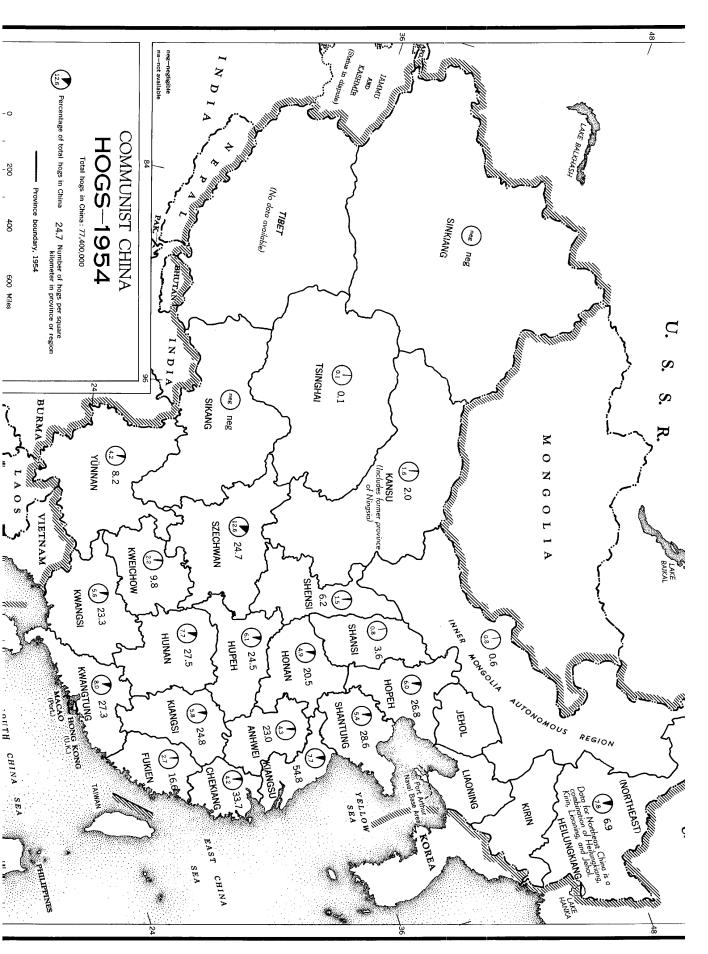


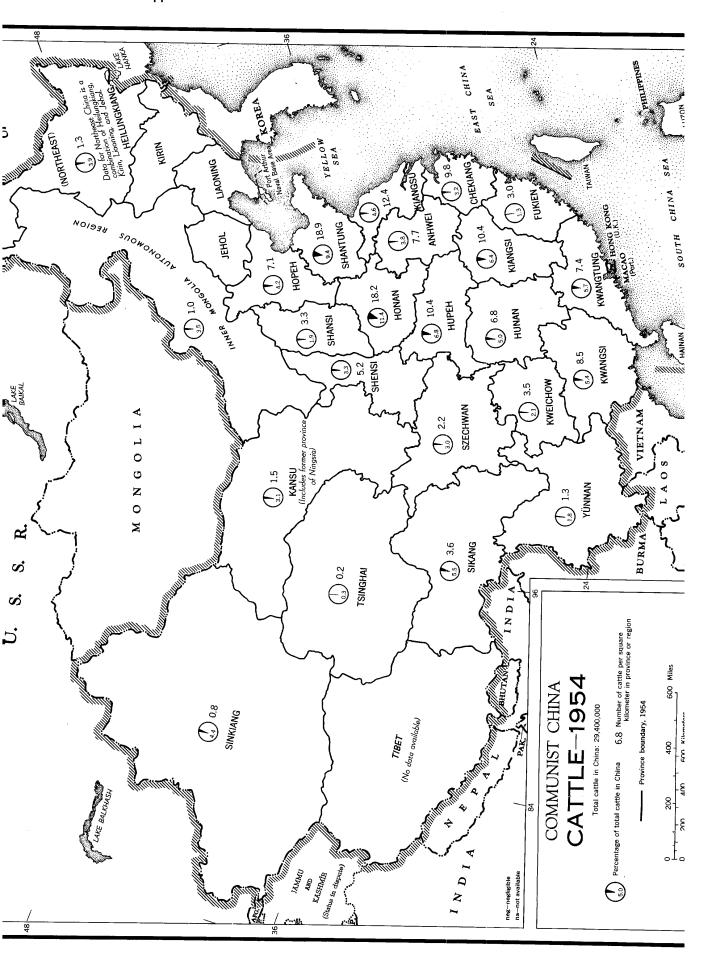


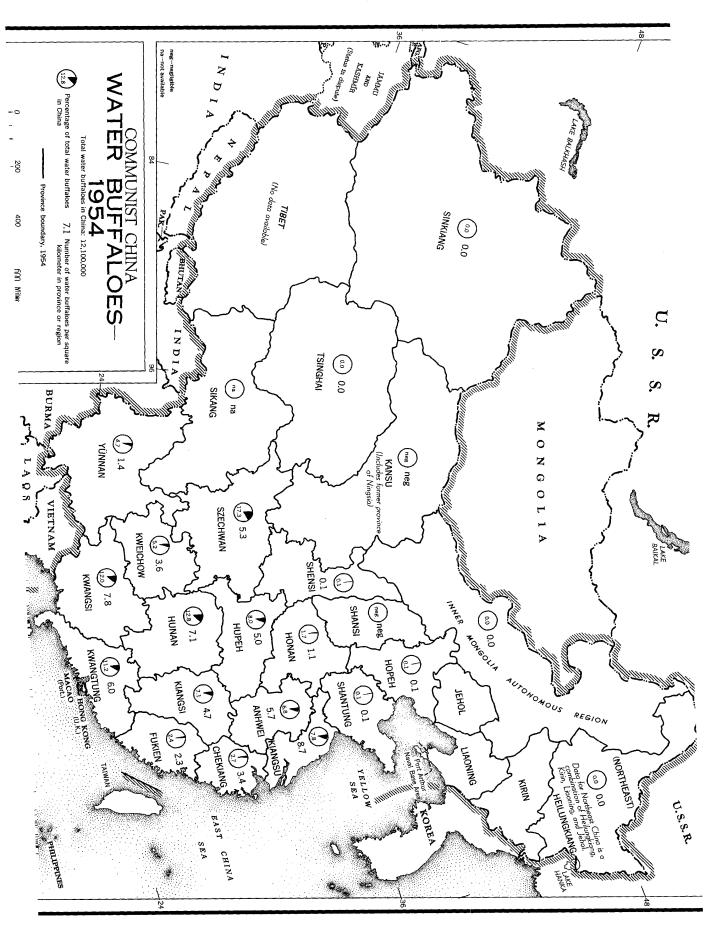
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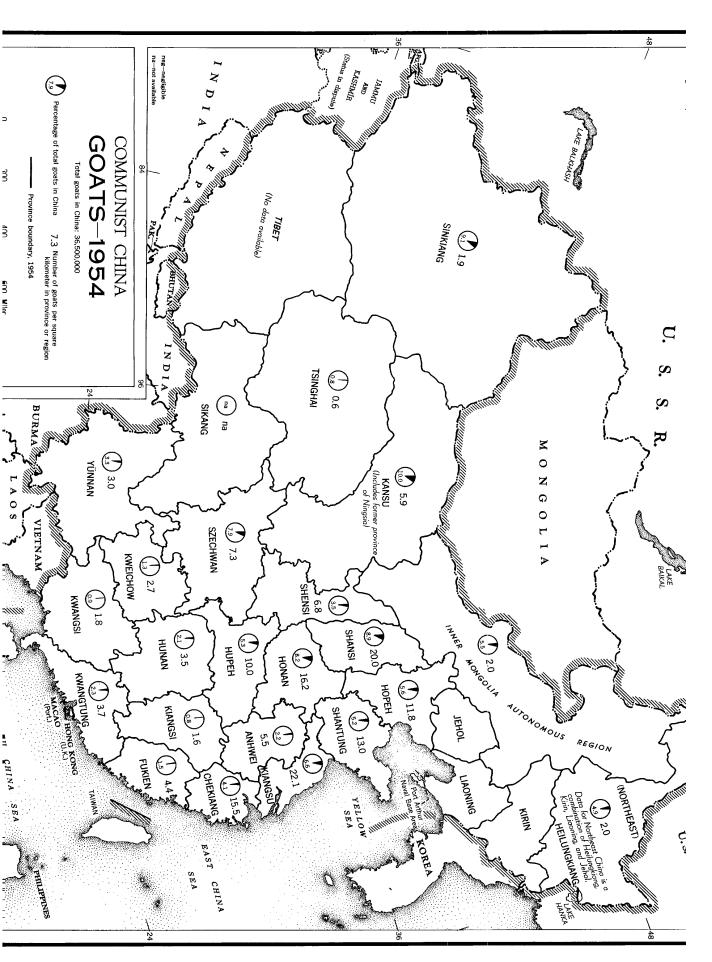


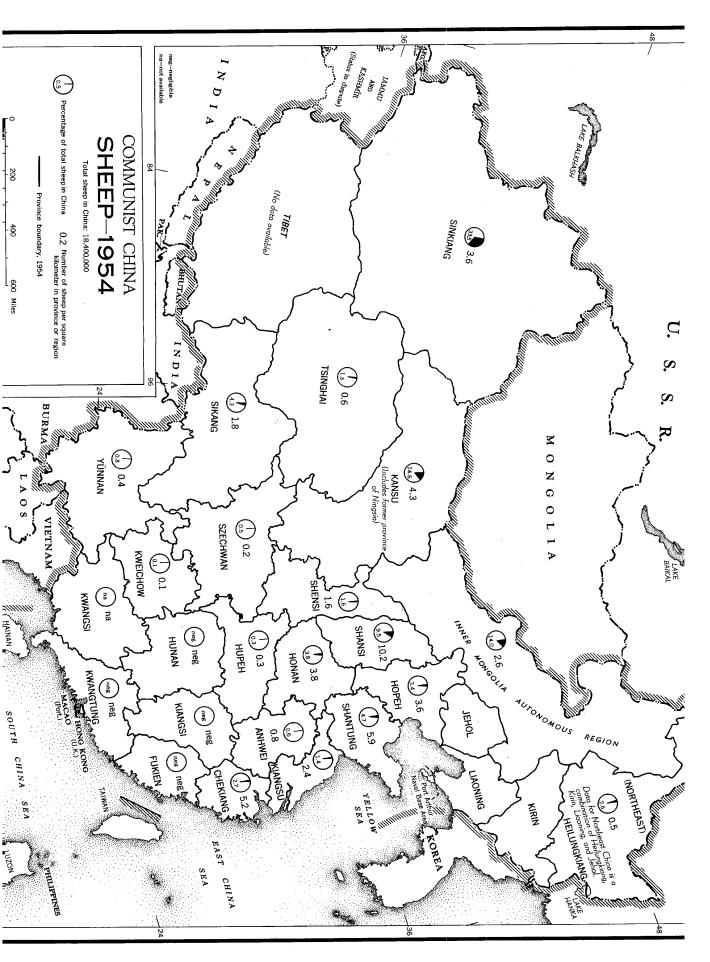












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