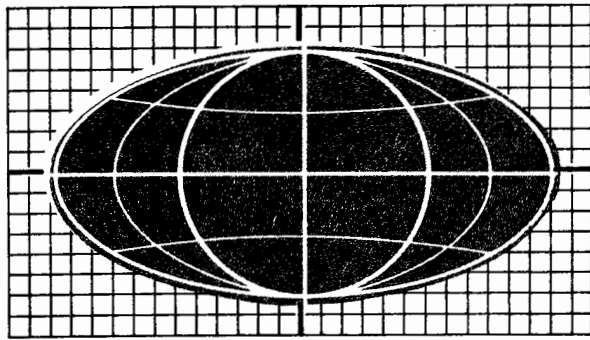


ERS For 229



Agriculture in the United States and the Soviet Union:

A STATISTICAL COMPARISON

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This statistical study compares the structure, resource allocation, and performance of agriculture in the United States and Soviet Union. These indicators provide, at best, only general guidelines for judging agricultural performance. Data on geographic and climatic conditions, soil, farm management techniques, and institutional and political frameworks are not presented, but are reflected in the comparative tables.

The main Soviet farm area **ECONOMIC RESEARCH SERVICE** is farther north than the U. S. grain belt. The Ukraine is at a latitude approximately the same as the spring wheat belt in the northern United States and Canada. This latitudinal position, coupled with low precipitation, results in a capricious climate that is sometimes severe and dry. These geographic factors have sharply limited the expansion of Soviet farm output since the growing and pasturing seasons are short and crop yields are low and unstable.

Land ownership is basically different in the United States and the Soviet Union. All land in the USSR is Government-owned and nearly all of it is socialized. The functions of agricultural production are guided by a

central state plan operating through a complex of large collective farms, state farms, and auxiliary farm units attached to state enterprises. The collective farms occupy over half the total sown acreage; most of the remaining acreage is in state farms. The private sector, about 3 percent of total agricultural land, consists mainly of small plots tilled by collective and state farm members in their spare time. About one-third of total agricultural production comes from these plots, and the produce is either consumed by the farmers' families or sold to the state or through farmers markets. American farms are small by comparison with the Soviet complexes; most are operated by the farm-owner and his family, sometimes with one or two hired workers.

The functions of management are difficult to compare because of differences in the size of Soviet and American farms. Soviet collective farm chairmen and state farm directors probably bear the closest resemblance to managers of American corporate-type farms. However, Soviet farm managers are not fully responsible for making economic decisions directly affecting the output and profits of the enterprises. Their position is

to respond to directives rather than to make independent decisions. Recent Soviet interest in economic accountability suggests a trend toward more managerial autonomy in the actual production process. The difficult job of pricing farm products, however, remains in the Soviet Government's domain rather than as a function of consumer demand. Although the U. S. Government helps to shape the broad activities of production, marketing, pricing, and trade through support of farm prices, income, and foreign trade expansion, internal operations are conducted by private farmers with minor exceptions.

The present Soviet regime is promoting greater efficiency in agriculture by increasing the level of inputs and by improving incentives of the rural labor force. These measures include financial concessions to farmers, more emphasis on livestock products in the Soviet diet, and expanded use of fertilizers, pesticides, irrigation, and drainage.

Although the Soviets have recently narrowed the gap in many areas of agricultural efficiency, production, and performance, numerous deficiencies are still evident in the following tables. The United States, in comparison, uses less labor and land but more capital to achieve greater output. Farm efficiency, measured in terms of output per unit of input, is substantially higher in the United States than in the USSR for land, livestock, and labor. Yields per acre of most crops are lower in the USSR than in the United States.

Foreign trade in farm commodities is far more important for the United States, the world's largest exporter and second largest importer of agricultural products, than for the Soviet Union. Both countries have adequate food supplies, in terms of calories per person, but the structure of the respective diets differs greatly. The Soviet diet still places great emphasis on cereal products and potatoes, whereas American diets are, to a great extent, composed of vegetables, fruits, and foods of animal origin.

A comparison of Soviet and U. S. agriculture for a single year may be misleading because of the vagaries of weather. In 1966, almost ideal weather conditions in both the winter and spring grain regions of the USSR resulted in output far above the previous record of 1964. The United States, however, experienced several periods of adverse weather in 1966 which, along with reduced planted acreage, resulted in a slight decline from the 1965 record output of grains.

For a review of the current situation in Soviet Agriculture, consult:

The Europe and Soviet Union Agricultural Situation, Econ. Res. Serv., U. S. Dept. Agr., ERS-Foreign 220, April 5, 1968.

Agricultural Policies in Europe and the Soviet Union, Econ. Res. Serv., U. S. Dept. Agr., Foreign Agr. Econ. Rpt. No. 46, June 1968.

Table 1.--Agricultural resources, United States and Soviet Union, specified years

| Item | Year | Unit | United States | Soviet Union | USSR as percentage of U.S. |
|---|------|------------------|---------------|--------------|----------------------------|
| | | | | | Percent |
| Population, July 1 | 1966 | Millions | 1/196.9 | 2/233.2 | 118 |
| Civilian labor force (work experience) | do. | do. | 3/86.3 | 4/118.4 | 137 |
| Annual average employment..... | do. | do. | 5/72.9 | 4/110.0 | 151 |
| Annual average employment in agriculture | do. | do. | 6/5.2 | 4/39.8 | 765 |
| Farm share of total employment: (annual average) | do. | Percent | 7.1 | 36.2 | 510 |
| Sown cropland | do. | Million acres | 7/298 | 8/511 | 171 |
| Sown cropland per capita..... | do. | Acres | 1.5 | 2.2 | 147 |
| Tractors on farms, January 1.. | 1967 | Thousands | 9/4,815 | 10/1,660 | 34 |
| Motor trucks on farms | | | | | |
| January 1 | do. | do. | 9/3,100 | 10/1,017 | 33 |
| Grain combines on farms | do. | do. | 9/880 | 10/531 | 60 |
| Agricultural consumption of electricity | 1966 | Billion kwh. | 11/29.1 | 12/23.2 | 80 |
| Use of commercial fertilizer in terms of principal plant nutrients: | | | | | |
| Total | do. | 1,000 short tons | 13/12,445 | 14/7,707 | 62 |
| Per acre of sown area | do. | Pounds | 84 | 30 | 36 |

1/ U.S. Department of Commerce, Statistical Abstract of the United States: 1967, 88th ed., Washington, D.C., 1967, p. 5. 2/ USSR Central Statistical Directorate, Narodnoye khozyaystvo SSSR v 1965 g., Moscow, 1966, p. 7. 3/ U.S. Department of Labor, Work Experience of the Population in 1966, Washington, D.C., Oct. 1967, p. 4. 4/ U.S. Department of Commerce, Estimates and Projections of the Labor Force and Civilian Employment in the U.S.S.R., 1950-1975, Washington, D.C., June 1967, p. 15. 5/ Statistical Abstract ... op. cit., p. 221. 6/ U.S. Department of Agriculture, Agricultural Statistics 1967, Washington, D.C., 1967, p. 528. 7/ Agricultural Statistics ... op. cit., p. 531. 8/ USSR Central Statistical Directorate, Strana sovetov za 50 let, Moscow, 1967, p. 129. 9/ Agricultural Statistics ... op. cit., p. 522. 10/ Strana sovetov ... op. cit., p. 157. 11/ USDA, Statistical Reporting Service, Agricultural Prices, Washington, D.C., Dec. 1967, p. 25. Average consumption in June times 12. 12/ Strana sovetov ... op. cit., p. 154. 13/ USDA, Statis. Rptg. Serv., Consumption of Commercial Fertilizers in the United States, Washington, D.C., May 1967, p. 16. 14/ Strana sovetov ... op. cit., p. 161.

Table 2.--Farm numbers and size, and selected data per farm, United States and Soviet Union, 1966

| Item | Unit | U.S. farms | Soviet Union | |
|------------------------------|--------|-------------|------------------|-------------|
| | | | Collective farms | State farms |
| Total..... | Number | 1/3,239,000 | 2/36,493 | 2/12,196 |
| Land area per farm..... | Acres | 1/351 | 3/31,425 | 3/120,632 |
| Sown area per farm..... | do. | 4/92 | 5/6,919 | 5/18,038 |
| Workers per farm..... | Number | 6/1.6 | 7/417 | 7/651 |
| Land area per worker 8/..... | Acres | 219 | 75 | 185 |
| Sown area per worker 9/..... | do. | 58 | 17 | 28 |

1/ USDA, Statis. Rptg. Serv., Number of Farms and Land in Farms, Washington, D.C., Jan. 10, 1968, p. 1.

2/ USSR Central Statistical Directorate, SSSR v tsifrakh v 1966 godu, Moscow, 1967, p. 112.

3/ Strana sovetov ... op. cit., p. 127. Total land area divided by number of farms. State category includes land of state farms and other state agricultural enterprises.

4/ Total sown area divided by number of farms.

5/ Strana sovetov ... op. cit., p. 117.

6/ Average annual employment divided by number of farms.

7/ Strana sovetov ... op. cit., p. 117. Households per collective farm and workers per state farm.

8/ Land area per farm divided by workers per farm.

9/ Sown area per farm divided by workers per farm.

Table 3.--Crop acreage, United States and Soviet Union, 1966

| Crop | : United States 1/ | : Soviet Union 2/ | : USSR as percentage of U.S. |
|---|------------------------|-------------------|------------------------------|
| | :-----1,000 acres----- | | Percent |
| Corn, grain | 56,933 | 7,907 | 14 |
| Wheat | 49,867 | 172,970 | 347 |
| Rye | 1,275 | 33,606 | 2,636 |
| Oats | 17,861 | 17,791 | 100 |
| Barley | 10,205 | 47,937 | 470 |
| Sorghum grain in U.S.; pulses in USSR | 12,813 | 14,579 | 114 |
| Rice | 1,967 | 3/598 | 30 |
| Cotton | 9,552 | 6,079 | 64 |
| Soybeans for beans | 36,546 | 4/2,088 | 6 |
| Sunflowers | 5/73 | 12,355 | 16,924 |
| Peanuts harvested for nuts | 1,418 | 6/ | --- |
| Flax 7/ | 2,576 | 3,459 | 134 |
| Sugarbeets | 1,161 | 9,390 | 809 |
| Sugarcane, for sugar and seed | 625 | 6/ | --- |
| Tobacco | 977 | 8/348 | 36 |
| Potatoes | 1,464 | 20,756 | 1,418 |
| Sweetpotatoes | 157 | 6/ | --- |
| Vegetables 9/ | 3,421 | 3,459 | 101 |
| Fruits (including citrus), grapes, berries, and nuts | 10/3,046 | 11/6,323 | 208 |
| Citrus | 12/932 | 8/20 | 2 |
| Hay, all | 13/65,140 | 14/79,072 | 121 |

1/ USDA, Statis. Rptg. Serv., Crop Production, 1967 Annual Summary, Washington, D.C., Dec. 19, 1967, pp. 37-40, unless otherwise noted. Area harvested. 2/ SSSR v tsifrakh ... op. cit., pp. 84-85, unless otherwise noted. Sown area after completion of spring planting. 3/ Sel'skaya zhizn', June 7, 1967. 4/ RSFSR Central Statistical Directorate, Narodnoye khozyaystvo RSFSR v 1965 g., Moscow, 1966, p. 191. Data are for RSFSR, where most soybean area is located. 5/ USDA, Econ. Res. Serv., Fats and Oils Situation, FOS-239, Washington, D.C., Sept. 28, 1967, p. 27. Data are for Minnesota and North Dakota, where most commercial production is located. 6/ Negligible. 7/ Flax-seed in the United States, fiber flax in the USSR. 8/ USDA estimate. 9/ Commercial acreage only of 27 crops in the United States; total acreage of all vegetables, except melons, in the Soviet Union. 10/ Agricultural Statistics ... op. cit., pp. 275, 298 for major berries. Crop Production ... op. cit., p. 46, for other fruits, nuts, and grapes. Total includes bearing area or commercial area harvested of 26 major fruits, grapes, berries, and nuts. 11/ Narodnoye khozyaystvo SSSR ... op. cit., p. 349. 1965 data on bearing area. 12/ Crop Production ... op. cit., p. 46. Bearing area. 13/ Ibid., p. 66. 14/ Strana sovetov ... op. cit., p. 129. Sown annual and perennial grasses, including grain cut for green feed.

Table 4.--Yield per acre and production of major crops, United States and Soviet Union, 1966

| Crop | Unit | Yield per acre | | USSR as | Unit | Production | | USSR as |
|---|------------|----------------|---------|------------|-------------------|------------|-------------|------------|
| | | U.S. 1/ | USSR 2/ | percentage | | U.S. 1/ | USSR | percentage |
| | | | | of U.S. | | | | of U.S. |
| | | | | Percent | | | | Percent |
| Corn, grain | Bushels | 72.3 | 33.9 | 47 | 1,000 bushels | 4,117,355 | 3/267,702 | 7 |
| Wheat | do. | 26.3 | 18.1 | 69 | do. | 1,311,702 | 3/3,123,155 | 238 |
| Rye | do. | 21.8 | 14.1 | 65 | do. | 27,775 | 3/472,416 | 1,701 |
| Oats | do. | 44.9 | 29.0 | 65 | do. | 801,327 | 3/516,705 | 64 |
| Barley | do. | 38.5 | 23.0 | 60 | do. | 393,186 | 3/1,102,296 | 280 |
| Sorghum grain in U.S.; pulses in USSR | do. | 55.8 | 15.9 | 28 | do. | 714,992 | 3/231,812 | 32 |
| Rice, rough | Pounds | 4,322 | 2,354 | 54 | 1,000 short tons: | 4,251 | 3/704 | 17 |
| Cotton, lint | do. | 480 | 4/738 | 154 | 1,000 bales | 9,575 | 5/9,341 | 98 |
| Soybeans for beans | Bushels | 25.4 | 10.5 | 41 | 1,000 bushels | 928,481 | 3/21,900 | 2 |
| Sunflowerseed | Pounds | 6/894 | 1,008 | 113 | 1,000 short tons: | 6/33 | 3/6,228 | 18,873 |
| Peanuts harvested for nuts | do. | 1,700 | n.a. | --- | do. | 1,205 | 7/ | --- |
| Flaxseed | Bushels | 9.1 | 8/5.2 | 57 | 1,000 bushels | 23,390 | 8/22,400 | 96 |
| Sugarbeets | Short tons | 17.5 | 8.7 | 50 | 1,000 short tons: | 20,342 | 5/81,570 | 401 |
| Sugarcane for sugar and seed | do. | 39.2 | n.a. | --- | do. | 24,515 | 7/ | --- |
| Sugar production | do. | --- | --- | --- | do. | 9/6,187 | 10/10,736 | 174 |
| Tobacco | Pounds | 1,933 | 1,161 | 60 | 1,000 pounds | 1,888,497 | 3/404,100 | 21 |
| Fiber flax | do. | n.a. | 294 | --- | 1,000 short tons: | n.a. | 5/508 | --- |
| Potatoes | cwt. | 210 | 84 | 40 | 1,000 cwt. | 306,902 | 3/1,744,059 | 568 |
| Sweetpotatoes | do. | 87 | n.a. | --- | do. | 13,697 | 7/ | --- |
| Vegetables 11/ | Short tons | 12/5.7 | 5.7 | 100 | 1,000 short tons: | 19,650 | 5/19,731 | 100 |
| Citrus | do. | 13/12.4 | n.a. | --- | 1,000 boxes | 14/11,553 | n.a. | --- |
| Grapes | do. | n.a. | n.a. | --- | 1,000 short tons: | 14/3,734 | 15/3,724 | 100 |
| Total fruits (including citrus), grapes, berries, and nuts | do. | n.a. | n.a. | --- | do. | 16/22,370 | 15/8,603 | 38 |
| Hay | do. | 17/1.86 | 18/.67 | 36 | do. | 17/121,027 | 18/53,350 | 44 |

1/ Crop Production ... op. cit., pp. 3-5, less otherwise noted. Area harvested. 2/ Derived from production and area unless otherwise noted. 3/ USDA estimate. 4/ Entire area is irrigated. 5/ Strana sovetov ... op. cit., p. 131. 6/ Fats and Oils ... op. cit., p. 27. Data are for Minnesota and North Dakota, where most commercial production is located. 7/ Negligible. 8/ USDA, Foreign Agr. Serv., World Agricultural Production and Trade, Washington, D.C., Feb. 1968, p. 31. 9/ Continental beets and cane, including Hawaii, Puerto Rico, and Virgin Islands. 10/ Strana sovetov ... op. cit., p. 102. Production from domestic beets and imported Cuban raw sugar. 11/ Commercial production of 27 crops in the United States; total output of all vegetables, except melons, in the Soviet Union. 12/ Derived from production and area. 13/ Crop Production ... op. cit., p. 40. Data are for four major citrus fruits. 14/ Ibid., p. 44. Data are for six major citrus fruits. 15/ Strana sovetov ... op. cit., p. 147. 16/ Crop Production ... op. cit., pp. 43, 45. Includes 24 major fruits, grapes, berries, and nuts. 17/ Ibid., p. 66. All hay. 18/ Sown area only. Production datum is USDA estimate.

n.a. = not available.

Table 5.--Livestock numbers, selected years, United States and Soviet Union

| Livestock | Beginning of year | United States <u>1/</u> | Soviet Union <u>2/</u> | USSR as percentage of U.S. |
|------------------|----------------------|----------------------------|---------------------------|----------------------------------|
| | | ----- Million head----- | | Percent |
| All cattle | 1967 | 108.5 | 97.1 | 89 |
| Cows | 1967 | <u>3/</u> 49.8 | <u>4/</u> 41.2 | 83 |
| Hogs | 1967 | 51.0 | 58.0 | 114 |
| Sheep | 1967 | 23.7 | 135.5 | 572 |
| Poultry | 1966 | <u>5/</u> 399.9 | <u>6/</u> 490.5 | 123 |

1/ Agricultural Statistics ... op. cit. pp. 362-406.

2/ Strana sovetov ... op. cit., p. 150, unless otherwise noted.

3/ Cows, 2 years and older, included in cattle.

4/ All cows included in cattle.

5/ Chickens and turkeys only, excluding commercial broilers.

6/ Narodnoye khozyaystvo SSSR ... op. cit., p. 375. All poultry.

Table 6.--Production of livestock commodities, United States and Soviet Union, 1966

| Commodity | Unit | United States | Soviet Union | USSR as percentage of U.S. |
|-----------------------------------|----------|---------------|--------------|----------------------------|
| | | | | Percent |
| Beef and veal..... | Mil. lb. | 1/20,604 | 2/8,245 | 40 |
| Pork..... | do. | 1/11,328 | 2/7,440 | 66 |
| Mutton, lamb, and goat..... | do. | 1/650 | 2/1,587 | 244 |
| Poultry meat..... | do. | 3/7,596 | 2/1,764 | 23 |
| Lard <u>4/</u> | do. | 1,932 | 1,800 | 93 |
| Margarine and shortening..... | do. | 5,291 | 6/1,321 | 25 |
| Tallow and grease <u>4/</u> | do. | 5,026 | 4/530 | 11 |
| Milk (cows)..... | do. | 7/120,230 | 2/147,990 | 123 |
| Butter..... | do. | 8/1,128 | 6/2,297 | 204 |
| Eggs..... | Billion | 9/66.4 | 10/31.7 | 48 |
| Wool <u>11/</u> | Mil. lb. | 12/250 | 10/818 | 327 |

1/ Agricultural Statistics ... op. cit., p. 418.

2/ USDA estimate.

3/ Agricultural Statistics ... op. cit., p. 492. Total production certified under Federal inspection

4/ USDA, Foreign Agr. Serv., Foreign Agriculture Circular, FFO 9-67, Washington, D.C., Oct. 1967, pp. 24-25.

5/ Agricultural Statistics ... op. cit., pp. 170-171.

6/ Strana sovetov ... op. cit., p. 102.

7/ Agricultural Statistics ... op. cit., p. 445.

8/ USDA, Econ. Res. Serv., Dairy Situation, DS-318, Washington, D.C., Nov. 6, 1967, p. 18.

9/ Agricultural Statistics ... op. cit., p. 501.

10/ Strana sovetov ... op. cit., p. 149.

11/ Greasy basis.

12/ Agricultural Statistics ... op. cit., p. 412.

Table 7.--Area of major grains, United States and Soviet Union, average 1961-65, annual 1966

| Item | Average 1961-65 | | | 1966 | | |
|--|------------------------------|------------------------|---------------------------------|------------------------------|------------------------|---------------------------------|
| | United States <u>1/</u> | Soviet Union <u>2/</u> | USSR : as per-centage : of U.S. | United States <u>1/</u> | Soviet Union <u>3/</u> | USSR : as per-centage : of U.S. |
| | ---- <u>1,000 acres</u> ---- | Percent | | ---- <u>1,000 acres</u> ---- | Percent | |
| Feed grains: | | | | | | |
| Corn, grain..... | 56,658 | 14,544 | 26 | 56,933 | 7,907 | 14 |
| Oats..... | 21,162 | 17,989 | 85 | 17,861 | 17,791 | 100 |
| Barley..... | 11,135 | 45,269 | 407 | 10,205 | 47,937 | 470 |
| Sorghum grain and pulses <u>4/</u> | 12,131 | 19,657 | 162 | 12,813 | 14,579 | 119 |
| 4 feed grains..... | 101,086 | 97,459 | 96 | 97,812 | 88,214 | 90 |
| Food grains: | | | | | | |
| Wheat..... | 48,017 | 164,569 | 343 | 49,867 | 172,970 | 347 |
| Rye..... | 1,655 | 40,277 | 2,434 | 1,275 | 33,606 | 2,636 |
| Buckwheat..... | <u>5/</u> 46 | 4,537 | 9,863 | n.a. | 4,695 | --- |
| Rice..... | 1,742 | 393 | 22 | 1,967 | 598 | 30 |
| 4 food grains..... | 51,460 | 209,776 | 408 | <u>6/</u> 53,109 | 211,869 | 399 |
| Total 8 grains... | 152,546 | 307,235 | 201 | <u>6/</u> 150,921 | 285,504 | 189 |

1/ Crop Production ... op. cit., p. 36.

2/ Narodnoye khozyaystvo SSSR 1965 ... op. cit., p. 284, and Narodnoye khozyaystvo SSSR 1962, p. 247.

3/ SSSR v tsifrakh ... op. cit., p. 84.

4/ Sorghum grain for U.S.; pulses for USSR.

5/ 1961-64' only.

6/ Excludes buckwheat in U.S.

n.a. = not available.

Table 8.--Yields per acre of major grains, United States and Soviet Union, average 1961-65, annual 1966

| Item | Average 1961-65 | | | 1966 | | |
|----------------------------------|-------------------|--------------|-----------------------------|-------------------|--------------|-----------------------------|
| | United States | Soviet Union | USSR as per centage of U.S. | United States | Soviet Union | USSR as per centage of U.S. |
| | 1/ | 2/ | | 1/ | 2/ | |
| | -----Bushels----- | | Percent | -----Bushels----- | | Percent |
| Feed grains: | | | | | | |
| Corn, grain..... | 66.3 | 25.2 | 38 | 72.3 | 33.9 | 47 |
| Oats..... | 45.2 | 20.3 | 45 | 44.9 | 29.0 | 65 |
| Barley..... | 36.2 | 17.9 | 49 | 38.5 | 23.0 | 60 |
| Sorghum grain and pulses 3/..... | 45.0 | 12.6 | 28 | 55.8 | 15.9 | 28 |
| Food grains: | | | | | | |
| Wheat..... | 25.3 | 11.2 | 44 | 26.3 | 18.1 | 69 |
| Rye..... | 19.7 | 13.3 | 68 | 21.8 | 14.1 | 65 |
| Buckwheat..... | 2/19.5 | 7.1 | 36 | n.a. | 8.1 | -- |
| Rice..... | 86.5 | 43.3 | 50 | 94.5 | 51.8 | 55 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Average yield: | | | | | | |
| 4 feed grains..... | 2,881 | 882 | 31 | 3,222 | 1,111 | 34 |
| 4 food grains..... | 1,582 | 681 | 43 | 1,670 | 1,029 | 62 |
| | | | | | | |
| Total 8 grains.... | 2,438 | 744 | 31 | 2,662 | 1,107 | 42 |

1/ Crop Production ... op. cit., p. 39, unless otherwise noted.

2/ Derived from tables 7 and 9.

3/ Sorghum grain for U.S.; pulses for USSR.

n.a. = not available.

Table 9.--Production of major grains, United States and Soviet Union, average 1961-65, annual 1966

| Item | Average 1961-65 | | | 1966 | | |
|----------------------------------|---------------------------|-----------------|-----------------------------|---------------------------|-----------------|-----------------------------|
| | United States 1/ | Soviet Union 2/ | USSR as per-centage of U.S. | United States 1/ | Soviet Union 2/ | USSR as per-centage of U.S. |
| | Million bushels | Percent | | Million bushels | Percent | |
| Feed grains: | | | | | | |
| Corn, grain..... | 3,758 | 367 | 10 | 4,117 | 268 | 7 |
| Oats..... | 953 | 365 | 38 | 801 | 517 | 65 |
| Barley..... | 398 | 810 | 204 | 393 | 1,102 | 280 |
| Sorghum grain and pulses 3/..... | 548 | 248 | 45 | 715 | 232 | 32 |
| Food grains: | | | | | | |
| Wheat..... | 1,214 | 1,844 | 152 | 1,312 | 3,123 | 238 |
| Rye..... | 33 | 535 | 1,621 | 28 | 472 | 1,686 |
| Buckwheat..... | 4/.9 | 32 | 3,556 | n.a. | 38 | --- |
| Rice..... | 151 | 17 | 11 | 189 | 31 | 16 |
| | <u>Million short tons</u> | | | <u>Million short tons</u> | | |
| 4 feed grains..... | 145 | 43 | 30 | 158 | 49 | 31 |
| 4 food grains..... | 41 | 71 | 173 | 5/44 | 109 | 248 |
| Total 8 grains... | 186 | 114 | 61 | 5/202 | 158 | 78 |

1/ Crop Production ... op. cit., p. 41.

2/ USDA estimate.

3/ Sorghum grain for U.S.; pulses for USSR.

4/ 1961-64 only

5/ Excludes buckwheat in U.S.

n.a. = not available.

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Table 10.--Production of five major grains and total grain, Soviet Union, 1958-67

| Year | Total grain <u>1/</u> | | 5 major grains <u>2/</u> | |
|------------|-------------------------------|---|-----------------------------|---|
| | USDA estimates <u>3/</u> | Soviet official estimates <u>4/</u> | USDA estimates <u>3/</u> | Soviet official estimates <u>4/</u> |
| | -----Million metric tons----- | | | |
| 1958 | 114.2 | 134.7 | 109.2 | 129.0 |
| 1959 | 94.2 | <u>5/</u> 119.5 | 90.6 | <u>5/</u> 115.3 |
| 1960 | 95.5 | 125.5 | 89.4 | 118.5 |
| 1961 | 109.4 | 130.8 | 102.2 | 122.5 |
| 1962 | 109.6 | 140.2 | 99.2 | 128.5 |
| 1963 | 90.0 | 107.5 | 80.3 | 96.5 |
| 1964 | 121.6 | 152.1 | 107.4 | 135.9 |
| 1965 | 100.4 | 121.1 | 91.0 | 110.4 |
| 1966 | 145.9 | 171.2 | 135.3 | 159.1 |
| 1967 | <u>6/</u> 124.8 | <u>7/</u> 147.6 | <u>6/</u> 114.3 | 135.5 |

1/ Wheat, rye, barley, oats, corn for grain, millet, buckwheat, rice, pulses.

2/ Wheat, rye, barley, oats, corn for grain.

3/ Usable grain.

4/ Bunker weight, i.e., as originally harvested, not dried or cleaned.

Strana sovetov ... op. cit., p. 133, unless otherwise noted.

5/ Narodnoye khozyaystvo SSSR 1962 ... op. cit., p. 235.

6/ Preliminary USDA estimates.

7/ Pravda, January 25, 1968.