

Report to Congressional Requesters

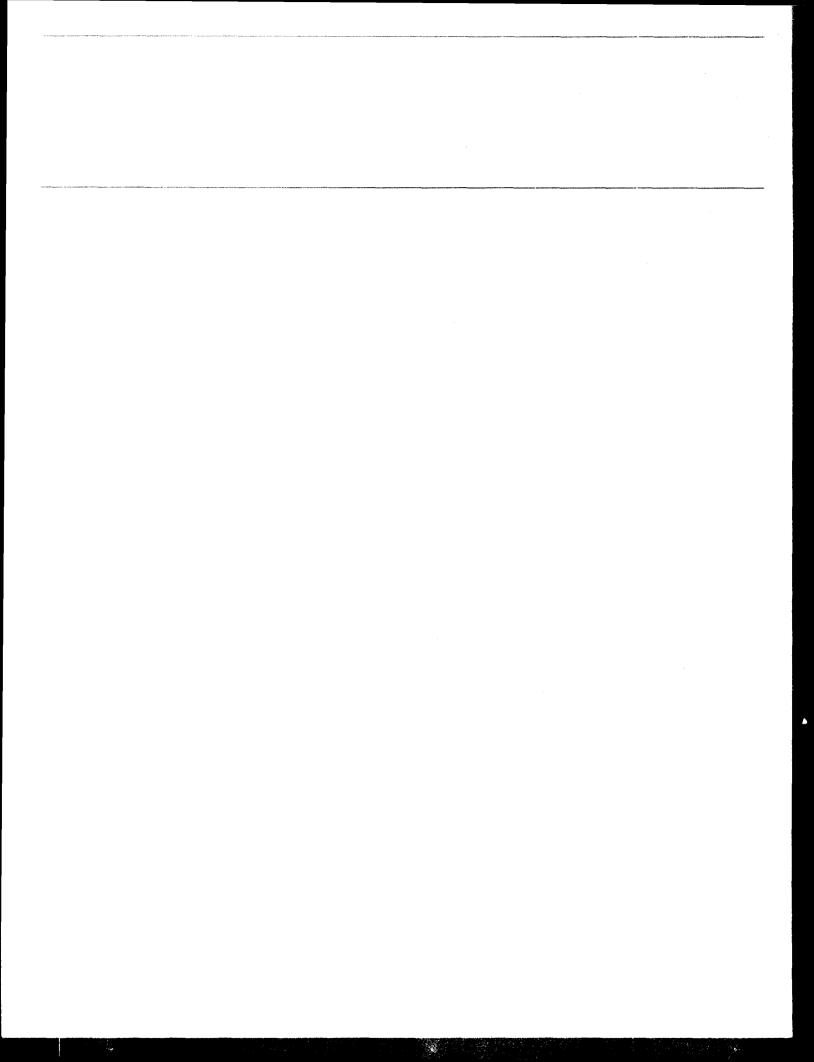
April 1989

INTERNATIONAL TRADE

Long-Term Bilateral Grain Agreements and Grain Countertrade









United States General Accounting Office Washington, D.C. 20548

National Security and International Affairs Division

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The Honorable George Brown, Chairman Subcommittee on Department Operations, Research, and Foreign Agriculture Committee on Agriculture House of Representatives

The Honorable Byron L. Dorgan House of Representatives

In response to your requests, we have reviewed two types of alternative international grain trading practices: (1) long-term bilateral grain agreements (LBGAS) and (2) countertrade. LBGAS are agreements between two countries specifying the minimum and maximum quantity of a grain to be traded over a certain period of time. Countertrade refers to a commitment imposed as a condition of purchase by the importer on the exporter and generally involves the exhange of goods and/or services. Our review concentrated principally on the LBGAS and countertrade of foreign countries. Our March 1987 report on LBGAS and countertrade provided the U.S. perspective on these trading practices in international grain trade; Soviet and Chinese LBGAS with the United States are examined in a recently issued report.

This report summarizes the opinions of foreign and U.S. officials abroad on (1) foreign countries' use of LBGAs and countertrade in international grain trade, (2) the factors that motivate foreign countries to engage in these forms of trade, and (3) prospects for using these practices to enhance U.S. grain exports.

We identified 109 LBGAs that were in existence between January 1975 and August 1986. The estimated minimum volume of world wheat and coarse grains under these agreements rose from 5 percent in trade year 1975/76 to 23 percent for trade year 1985/86,² averaging 14 to 16 percent of total grain exports over this period. The lack of a reliable central data source makes it difficult to determine the extent of countertrade, but we compiled information on 2,247 countertrade transactions occurring since the early 1950s, 125 (5.7 percent) of which involved grain.

¹ Alternative Trading Practices for International Grain Trade (GAO/NSIAD-87-90BR) Mar. 1987 and Long-Term Bilateral Grain Agreements With the Soviet Union and China (GAO/NSIAD-89-63) Mar. 1989.

²Trade years vary by crop; for example, the trade year for coarse grain begins October 1 and ends September 30 while that for wheat begins July 1 and ends June 30.

We found no evidence that either LBGAS or grain countertrade increased the market shares of the countries that used them, and according to officials we spoke with, trade in grain would have occurred in the absence of these agreements. Other factors such as price, quality, and incentives, i.e. technical assistance and/or favorable credit terms, are more important determinants of trade.

As with most international agreements, LBGAs cannot be enforced. Many foreign officials and traders maintained that this unenforceability limits the effectiveness of LBGAs. They also told us that grain is not well suited for countertrade because of its low profit margin and high price volatility. Furthermore, some countries with official countertrade policies have discouraged the use of grain as a countertrade item, stating that complex and prolonged negotiations could compromise their food security.

Officials we interviewed told us that the prospects for expanding U.S. grain sales through LBGAs and countertrade appear to be limited; however, both could be helpful as a mechanism to develop and reinforce trade relations and diplomatic ties with nations viewed as prospective U.S. markets, especially developing and centrally planned economies. Most U.S. officials and traders cautioned that expanded U.S. use of these trading practices, especially countertrade, would require a high degree of government intervention in the market. Major U.S. competitors use governmental entities to establish agricultural policies and control grain exports. The United States has historically opposed LBGAs and government-mandated countertrade on the grounds that they run counter to free-trade policies and the multilateral trading system. For LBGAs, the exception to this policy has been U.S. agreements with the centrally planned economies of the Soviet Union and the People's Republic of China.

Determining the extent of countertrade in world trade, including grain trade, is very difficult because of the lack of available information on individual countertrade transactions and the absence of a central data clearing house for such information. As a result, we found significant limitations in the quality and extent of information available on countertrade activities. The Congress, in recognition of this problem, has enacted legislation to improve the quality of information collected on countertrade. Most recently, the Omnibus Trade Bill of 1988 urged the Secretary of Agriculture to expedite implementation of the barter provisions of the 1985 Food Security Act. The Trade Bill also required that an

interagency group on countertrade and an office of barter in the Department of Commerce be created to gather information on all types of countertrade.

As agreed, we did not obtain agency comments on this report. Copies of the report are being sent to the Secretaries of Agriculture, State, and Commerce and to other interested parties.

This report was prepared under the direction of Allan I. Mendelowitz, Director, Trade, Energy, and Finance Issues. Other staff members who made major contributions to the report are listed in appendix IV.

Frank C. Conahan

Assistant Comptroller General

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Abbreviations

| LBGA | Long-term Bilateral Grain Agreement |
|------|---|
| EC | European Community |
| USDA | United States Department of Agriculture |
| FAS | Foreign Agricultural Service |
| GAO | General Accounting Office |
| IWC | International Wheat Council |
| mmt | million metric tons |
| PRC | People's Republic of China |

LBGAs and Countertrade

Extent of LBGAs and Countertrade in International Grain Trade

The decline of U.S. grain exports in the midst of increasing surpluses that occurred in the mid-1980s¹ renewed interest in the use of LBGAs and countertrade to maintain and possibly increase U.S. market share. From 1975 through 1986, the U.S. share of the world grain market declined nearly 33 percent, from approximately 55 to 37 percent. Other major exporters—Canada, Australia, the European Community (EC), and Argentina—gained much of the share lost by the United States. Since the mid-1970s, Canada, Australia, and Argentina have increased their use of LBGAs to market grain, but the EC has not actively used them. There appears to be no evidence that LBGAs increased the market shares of these countries; instead, many other variables, such as price, quantity, and quality, are responsible for the improvement in market share.

LBGAs

LBGAs are used most extensively by nations whose governments are directly involved in agricultual production and marketing. Argentina, Australia, and Canada, which market grain through grain marketing boards² accounted for most of the LBGAs in effect between January 1975 and August 1986, as shown in table I.1.

Table I.1: Exporters' Use of LBGAs 1975/76 to 1986/87

| | Number of agreements | Total grain trade | Average amour under LBGAs as total grain e | a percent of |
|---------------|----------------------|----------------------|--|--------------|
| Exporter | in effect | (mmt)b | Minimum | Maximum |
| Argentina | 24 | 177.0 | 33 | 35 |
| Australia | 29 | 178.0 | 24 | 27 |
| Canada | 34 | 267.2 | . 33 | 38 |
| United States | 3 | 1076.4 | 2 | 3 |
| EC | 2 | 217.2 | 1 | 1 |
| Other | 17 | 222.1 | (c) | (C) |
| Total | 109 | 2,137.9 | | |

^aWe provide information on minimum and maximum quantities specified under the agreements but actual sales information is not collected by either the U.S. government or the International Wheat Council and is difficult to obtain because of the inherently proprietary nature of such information.

^cDue to the unavailability of trade data, we could not calculate these percentages. Sources: U.S. Department of Agriculture/Foreign Agricultural Service (USDA/FAS), International Wheat Council (IWC), and GAO.

^bMillion metric tons

¹U.S. grain export volumes began to improve in 1987 and continued to increase in fiscal year 1988.

 $^{^2}$ Governmental involvement in agricultural production and marketing consists of quasi-governmental grain marketing boards or state trading organizations.

Since 1975, exporter countries' use of LBGAs and the volumes specified under these agreements have increased; in 1975, four exporting nations had 16 LBGAs in effect; in 1985, the peak year for the number of LBGAs in effect, 11 exporters participated in 34 LBGAs. The estimated minimum volume of world wheat and coarse grains covered under these agreements rose from 6.5 mmt (5 percent) for trade year 1975/76 to 38.7 mmt (23 percent) for trade year 1985/86. This increase is attributable to a variety of factors, including increased competition in the international grain market and the view by certain exporters that LBGAs could help maintain, if not improve, their respective market shares.

Between January 1975 and August 1986, grain trading countries participated in 109 LBGAs with the minimum and maximum quantities of grain specified in the agreements averaging 14 to 16 percent of total grain exports. (See table I.2.) Under these 109 agreements, 37 countries imported grain; 28 of these countries were developing economies, 7 were centrally planned economies, and 2 were developed economies. Japan was a party to 13 agreements; the People's Republic of China (PRC) participated in 12 agreements; the Soviet Union was a party to 11 agreements; and Egypt, a developing economy, was a party to 7 agreements.

Table I.2: Estimated Volume of Wheat and Coarse Grains Specified Under LBGAs

| | | (mmt) | | | |
|----------------------|------------------------------------|---------------------|---------|--|----------|
| | Total world wheat and coarse | Volume speci LBG | | Volume Spec percent of w coarse grai | heat and |
| Year ^a | grains trade | Minimum | Maximum | Minimum | Maximum |
| 1975/76 | 141.9 | 6.5 | 0.1 | 5 | 6 |
| 1976/77 | 147.1 | 9.8 | 12.1 | 7 | 8 |
| 1977/78 | 161.6 | 13.8 | 16.8 | 9 | 10 |
| 1978/79 | 164.7 | 11.1 | 14.0 | 7 | 9 |
| 1979/80 | 185.2 | 14.0 | 17.0 | 8 | 9 |
| 1980/81 | 201.9 | 21.5 | 24.8 | 11 | 12 |
| 1981/82 | 197.9 | 33.5 | 40.4 | 17 | 20 |
| 1982/83 | 188.6 | 32.0 | 40.4 | 17 | 21 |
| 1983/84 | 195.1 | 39.7 | 49.5 | 20 | 25 |
| 1984/85 | 207.6 | 43.8 | 53.0 | 21 | 26 |
| 1985/86 | 168.3 | 38.7 | 43.2 | 23 | 26 |
| 1986/87 ^b | 178.0 | 35.9 | 40.3 | 20 | 23 |
| Total | 2,137.9 | 300.3 | 359.6 | | |
| Average | 178.2 | 25.0 | 30.0 | 14 | 16 |

^aCalendar year.

Sources: Total world wheat and coarse grains figures are from USDA/FAS Circular, World Grain Situation and Outlook, June 1987; volume specified under LBGAs is compiled from IWC listings, Long-Term Agreements Involving Grain, 1975-1986. Percentages were derived by GAO.

Countertrade

Countertrade, although considered by many to be less efficient and desirable than conventional monetary trade, allows countries with foreign exchange shortages to import goods without depleting their hard currency reserves and offers an avenue to countries searching for new ways to diversify and expand their export markets. As such, it may be appealing to both developing and centrally planned economies. The current foreign debt crisis, government involvement in the economies of many countries, and intense international trade competition are also important factors in the use of countertrade.

The extent to which countertrade is used cannot be accurately determined, because transactions are not separately identified in official trade statistics and no national or international organization systematically collects such information on a comprehensive basis. Consequently, estimates of the extent of countertrade vary from 1 to 40 percent of world trade, with a rough consensus falling around 5 to 10 percent.

^b1986/87 trade figures are USDA estimates; volume specified under LBGAs for 1986/87 reflect only LBGAs reported to the IWC to be in effect as of August 1986.

Based on information we have compiled, the volume of world countertrade is small but not insignificant. For grain, however, countertrade appears to play an even less important role than LBGAs in international trade.

We compiled information on 2,247 countertrade transactions occurring between 1953 and 1987; grain was involved in 125, or 5.7 percent, of these transactions. Most of the 2,247 countertrade transactions took place between developed economies and developing or centrally planned economies. Most grain countertrade transactions were between developing and centrally planned economies, as shown in table I.3.5

Table I.3: Summary of Countertrade Arrangements by Country Economic Classification

| | Number of Countertrade Arrangements | | | | | |
|--|-------------------------------------|------------------|-------|------------------|--|--|
| Country economic classification | Total | Total Percent | Grain | Grain Percent | | |
| Developed-Developed | 127 | 5.7 | 4 | 3.2 | | |
| Developed-Developing | 599 | 26.7 | 28 | 22.4 | | |
| Developed-Centrally Planned | 600 | 26.7 | 13 | 10.4 | | |
| Developing-Developing | 429 | 19.1 | 30 | 24.0 | | |
| Developing-Centrally Planned | 317 | 14.1 | 45 | 36.0 | | |
| Centrally Planned-Centrally Planned | 25 | 1.1 | 2 | 1.6 | | |
| Other ^a | 150 | 6.7 | 3 | 2.4 | | |
| Total | 2,247 | | 125 | | | |

⁴Included in this category are transactions in which the country economic classification for one of the parties is unspecified.

Developing economies used grain countertrade to both import and export grain more frequently than other economies. Argentina and Thailand were the most frequent exporters (15 transactions each), while Zimbabwe was the most frequent grain importer (23 transactions).

GAO/NSIAD-89-91 International Grain Trade

³This information is based on (1) a comprehensive review of available literature sources, (2) a detailed analysis of Countertrade Outlook: Weekly Intelligence on Reciprocal International Trade, DP Publications Co.(Alexandria, Va.) Apr. 25, 1983 - June 1, 1987, and (3) information obtained from international traders and foreign government officials during our overseas work.

⁴As classified by the U.N. Food and Agriculture Organization, developing economies include Argentina, Egypt, Algeria, South Korea, Brazil, Indonesia, and Thailand; centrally planned economies include Poland, Czechoslovakia, Hungary, the Soviet Union, and the PRC; and developed economies include Canada, the EC, Australia, Japan, and Austria.

⁵Country classifications should not be interpreted to imply direct government involvement but merely as trade flows between countries. Based on our data sources, the actual participants (i.e., government, quasi-governmental grain marketing board or private trader) could not be determined in the majority of the countertrade transactions reported.

The major U.S. competitors—Argentina, Australia, Canada, and the EC—were involved in 36 of the 125 grain countertrade transactions. Argentina exported grain under 15 transactions, the EC under 8, Australia under 7, and Canada under 6. Two countries identified as most often importing grain through countertrade from the major U.S. competitors were the USSR (3 transactions with Argentina and 1 each with Canada and the EC) and Pakistan (3 transactions with Australia). The United States was identified as either an exporter or importer of grain in 6 of the 125 countertrade transactions. (See table I.5.)

A wide variety of products were exchanged under the grain counter-trade agreements. As shown in table I.4, grain exporters traded for 284 products grouped under 16 product classifications; overall, the principal products involved were metals and metal products and consumer goods. Developed economies most often traded for oil, petroleum products and grain; developing economies for oil and petroleum products; and centrally planned economies for consumer goods, metals and metal products, and agricultural commodities.

Table I.4: Summary of Products
Countertraded for Grain

| | Frequency Product was Countertraded by Economic Classification | | | |
|-------------------------------------|---|------------|-------------------|-------|
| Type of product | Developed | Developing | Centrally planned | Total |
| Metals and metal products | 5 | 15 | 19 | 39 |
| Consumer goods | 4 | 14 | 20 | 38 |
| Agricultural commodities | 3 | 5 | 19 | 29 |
| Oil, petroleum products | 6 | 22 | 0 | 28 |
| Nonmetallic minerals and products | 1 | 3 | 18 | 22 |
| Fertilizer | 5 | 13 | 3 | 21 |
| Plant and equipment | 2 | 14 | 3 | 19 |
| Grain | 6 | 4 | 2 | 12 |
| Chemicals | 1 | 8 | 0 | 9 |
| Industrial products | 0 | 7 | 1 | 8 |
| Textile fibers and textile products | 4 | 3 | 1 | 8 |
| Transportation equipment | 1 | 5 | 2 | 8 |
| Electrical machinery and equipment | 1 | 6 | 0 | 7 |
| Minerals | 1 | 5 | 1 | 7 |
| Pharmaceuticals | 0 | 6 | 0 | 6 |
| Other ^b | 9 | 11 | 3 | 23 |
| Total | 49 | 141 | 92 | 284 |

^aIn one transaction, two separate agricultural commodities were traded by an unspecified country.

U.S. Countertrade of Grain

The United States has participated in six grain countertrade arrangements: exporting grain to India and Brazil, importing grain for a third country under three triangular arrangements, and directly importing grain from Canada. (See table I.5.) Except for Canada, the arrangements were all with developing economies.

^bIncludes coal, technical assistance, wood and wood products, ammunition, credits, rubber, USSR exports, raw materials, insulin, hotel construction, and food aid.

Table I.5: Summary of Grain Countertrade by the United States^a

| Exporter | importer | Products obtained by exporter | Date of transaction |
|---------------|---------------|-------------------------------------|------------------------|
| United States | India | Ferrous manganese and manganese ore | 1960 |
| United States | Brazil | Credits | 1985 |
| Ghana | United States | Rice ^b | 1986 |
| Malawi | United States | Wheat ^c | 1986 |
| Zimbabwe | United States | Wheat ^d | 1986 |
| Canada | United States | Hotel construction | 1987 |

^aThis represents trade by private U.S. companies.

Factors That Motivate Foreign Countries to Engage in LBGAs and Countertrade

Why Countries Enter Into LBGAs

Officials of grain-trading nations around the world told us that countries enter into LBGAs for various reasons, which include (1) limiting uncertainty and stabilizing markets, (2) facilitating planning and permitting diversification of suppliers, (3) gaining information on and access to markets, and (4) strengthening political and economic ties.

Some grain exporter nations, such as Canada and Australia, engage in these agreements expecting to limit uncertainty and bring some stability to their grain sales and domestic farm sectors. Canadian officials stated that LBGAs help to stabilize the farm sector by moderating the impact of production, price, and sales fluctuations on farm income. Australian officials indicated that LBGAs provide some assurance of sales for the exporters and allow them to modify the quality and type of grain produced to meet the specifications of importers.

Exporter countries also indicated that they engage in LBGAS to (1) gain information about the buying intentions of major purchasers, (2) maintain communication with importers, and (3) facilitate periodic negotiations of individual contracts. These activities, from both an importer's

^bGhana was required to export maize to Mali and Burkino Faso under this arrangement.

^cMalawi was required to export corn to Mozambique.

^dZimbabwe was required to export maize to Mozambique.

and an exporter's perspective, facilitate export and import planning, diversify suppliers, and assure access to particular types of grain. For example, Argentina has limited storage capacity and enters into these agreements to export grain expeditiously. Japan, the USSR, and Egypt entered into agreements with both Canada and Australia to diversify suppliers. Canadian traders told us that importers such as Brazil, Egypt, and Japan prefer Canadian wheat over U.S. wheat because of its higher protein content.

Countries also use LBGAs to reinforce diplomatic relations and achieve political and economic goals. For example, Brazil and Argentina entered into an LBGA to strengthen regional political ties and integrate their economies. LBGAs have political and economic significance because, in many countries, the governments control imports and exports through centralized state trading organizations. The collective buying power of a state trading organization can encourage exporters to offer a more attractive price or other incentives to secure trade, such as credit terms and technical assistance.

Why Countries May Be Reluctant to Enter Into LBGAs

Although LBGAs provide a framework within which to negotiate specific contracts for trade, their impact on grain availability and price variability is negligible because importers usually pay prevailing market prices for grain whether or not it is purchased through LBGAs. Some traders told us that given favorable prices, trade would have occurred in the absence of LBGAs.

Some officials said that importers may be reluctant to enter into LBGAS because such agreements may inhibit a nation's ability to react to marketplace changes. A South Korean official stated that South Korea does not enter into LBGAS because it wants to be able to obtain the best price available. Japan maintains some flexibility by limiting the timeframe of its agreements to one year. Indonesia no longer pursues LBGAS because grain is plentiful.

U.S. and foreign officials generally agreed that trade depended on price, quality, and incentives offered, regardless of the existence of LBGAs. We could find no evidence that the use of LBGAs increased the market share of the countries that used them. Moreover, LBGAs do not appear to restrict supplies to non-participating countries or result in greater price instability.

Why Countries Enter Into Countertrade

Some countries recognize countertrade as a tool to export surplus goods or to create new markets for their goods while importing needed products and conserving foreign exchange reserves.

Countertrade, like LBGAS, reinforces political and economic ties among nations. According to the director of Brazil's state trading organization, Argentina and Brazil have signed a protocol which provides for the countertrade of Argentine grain for Brazilian manufactured goods.

Although countertrade is not the preferred method of trading for most countries, some recognize it as better than no trade at all. Australia and South Korea have used countertrade when necessary to make sales. Countries such as Egypt have turned to countertrade to conserve hard currency. A U.S. commercial attaché said that Austrian officials attribute 10 to 20 percent of their trade with Eastern bloc countries to countertrade and estimates that this will increase to about 50 percent by 1995 due to these countries' lack of hard currency.

Why Countries May Be Reluctant to Use Countertrade

Many U.S. officials overseas and foreign traders said that countertrade is inefficient, costly, time-consuming, and complex. A Department of Commerce senior economist reported that only one out of 20 countertrade negotiations is completed and only one out of every 3 completed countertrade transactions is profitable. Because countertrade contracts are complex, the risk of non-compliance is greater than for a cash or credit sale. Transaction costs are higher because, among other reasons, trading companies are often needed to dispose of take-back products.

Foreign traders explained that products obtained under countertrade often have no cash market, are difficult to dispose of, and are generally inferior in quality. While inferior product quality is not unique to countertrade, several examples of this problem were noted in our interviews. For example, a U.S. company received dates infested with insects under a countertrade arrangement with Algeria, Argentine officials reported receiving substandard Soviet trucks for which spare parts were not available, and a Canadian multinational food conglomerate was able to absorb Yugoslavian furniture received in return for feed grain only by decorating its offices.

 $^{^6\}mathrm{Take}$ -back products refer to those products which a countertrade partner agrees to accept as part of the countertrade arrangement.

Some countries have established policies which discourage the countertrade of certain commodities. Indonesia, for example, instituted a countertrade policy in 1982 to develop market outlets for its non-oil exports, but its policy exempts grain imports from being linked to exports. Indonesia exempts grain from countertrade because it does not want to disrupt its supplies of basic food commodities. Algeria expanded its countertrade activity in 1985 to create exports in the non-hydrocarbon sector and to conserve hard currency due to the decline in oil revenues. Algerian officials, however, said their countertrade arrangements have not included grain.

Other countries simply avoid entering into countertrade arrangements for grain and other agricultural products. A Brazilian official explained that countertrade is unsuitable for trading grain because of its high price volatility and low profit margin. Likewise, Hungary will not countertrade for agricultural goods. South Korean traders commented that countertrade has no advantages and takes about 1 to 3 years to complete negotiations. Officials from Egypt and Algeria said that their countries lack the quantity and quality of products to make countertrade for grain practical.

Countertrade may also displace a country's cash sales. The director of Brazil's state trading organization told us that Brazil lost sales when it exchanged coffee for Polish locomotives and Poland sold the coffee on the open market.

Prospects for Using LBGAs and Countertrade to Increase U.S. Market Share

LBGAs

U.S. officials we interviewed said that for the United States to maximize export sales volumes or revenues through the use of LBGAS, the agreements would have to displace competitors from the market or increase world aggregate demand. According to these officials, these are unrealistic possibilities because, among other factors, the volume of grain traded under them is small. Under current world supply conditions, many

importers are not concerned about grain availability and have little incentive to enter into LBGAs.

The United States has traditionally opposed the use of LBGAs because they run counter to the concept of a free multilateral trading system. However, the United States entered into LBGAs with the Soviet Union and the PRC in order to minimize market disruptions and to promote an orderly expansion of trade between the United States and these two countries.⁷

A number of U.S. officials told us that the agreements, to be effective, should be worthwhile for both importers and exporters. Importers want flexibility to allow for adjusting sales levels for unforseen circumstances. Exporters want assurances that the agreement's terms are met. One option suggested was the inclusion of supply assurances—guaranteeing the importer priority purchases in the event of shortages—in exchange for assurances of at least minimum purchases. This option would be difficult for the United States to implement because the government does not directly control grain supplies. Also, importers have little incentive to agree to such terms when grain is plentiful. Consequently, it may be difficult for the United States to negotiate agreements that would improve its position in the world market.

Countertrade

Government officials of grain importing countries—prospective countertrade partners—generally stated that they would not increase their purchases of U.S. grain if countertrade was more readily available. Some said grain is too critical to their national food security to risk on countertrade. Others said countertrade might displace their current purchases of U.S. grain under other grain export programs.

Officials representing Algeria, Egypt, Brazil, and some Eastern bloc countries expressed interest in countertrading for U.S. grain under certain conditions. Algerian and Egyptian officials, however, said that their countries have neither the quantity nor the quality of goods that could be exchanged for U.S. grain that would make a countertrade transaction viable. Additionally, if they were to countertrade for U.S. grain, they might reduce their grain purchases under other U.S. export programs.

⁷While the U.S.-Soviet LBGA is currently active, the LBGA with China is not. For futher information on these agreements, see Long-Term Bilateral Grain Agreements with the Soviet Union and China (GAO/NSIAD-89-63) Mar. 1989.

Brazilian officials and the representatives of some Eastern bloc countries said they would be willing to engage in countertrade arrangements with the United States for grain but would not exchange their cash export products in return. For example, Brazil would not countertrade its coffee or Hungary its canned hams.

Some experts have suggested that the United States could use counter-trade, to a limited extent, to dispose of its surplus grain by providing food aid and assisting in foreign economic development programs for developing economies with food shortages, chronic foreign debts, and rising populations. They state that in addition to saving on scarce foreign exchange, these countries could potentially find future commercial market outlets for their non-traditional products, thus expanding and diversifying their export product lines. On the other hand, the potential for an offsetting impact should be recognized. Using U.S. grain stocks to fulfill the food needs of other countries could serve to displace what otherwise would be commercial grain sales. As such, using U.S. stocks will not necessarily reduce U.S. grain surpluses overall. It might simply shift around the mix of surpluses that are present in U.S. markets.

Although the United States officially opposes government-mandated countertrade as contrary to a policy of free trade, the Congress has recently supported the use of voluntary barter/countertrade for expanding the U.S. share of the international grain market. Furthermore, the U.S. government's use of countertrade as a food aid/foreign assistance program is not without precedent. Both the 1950-73 Barter Program and the U.S.-Jamaican Bauxite Agreement of 1982 are considered forms of food aid or foreign assistance. Also, the pilot barter provisions of the 1985 Food Security Act were aimed at providing food to countries with food or foreign exchange shortages in return for strategic materials. These provisions have not yet been implemented, however, due to the administration's assessment of stockpile requirements, interdepartmental disputes over reimbursement and accounting procedures, and the time Agriculture needed to devote to carrying out various mandates of the 1985 Farm Bill.⁸

Despite the limited part currently played by grain countertrade in U.S. agricultural trade and limited prospects for future expansion, the Congress has continued to express interest in this trade practice, in part because of the continuing U.S. trade deficit. For example, Section 4309

⁸For futher information on this subject, see our report, <u>Implementation of 1985 Food Security Act</u> Barter Provisions (GAO/NSIAD-87-181BR) June 1987.

of Title IV (Agricultural Trade) of the Omnibus Trade and Competitiveness Act of 1988 conveyed a sense of Congress that the Secretary of Agriculture should implement the pilot barter provisions of the 1985 Food Security Act. In addition, Section 2205 of Title II (Export Enhancement) of the Trade Bill requires the creation of an interagency group on countertrade and an office of barter in the Department of Commerce in order to gather information on all types of countertrade for policy development purposes.

Objectives, Scope, and Methodology

At the request of the Chairman of the House Agriculture Subcommittee on Department Operations, Research and Foreign Agriculture, and Representative Byron L. Dorgan, we reviewed the prospects for the United States using long-term bilateral grain agreements and countertrade to enhance U.S. grain exports. We also summarized information on the extent of LBGAs and countertrade in international grain trade.

We interviewed numerous officials from private trading organizations, international grain companies, U.S. government agencies, and foreign governments involved in LGBAs and countertrade. These officials were selected because of their expertise in U.S. domestic farm policy, agricultural economics, foreign trade and international relations, trade statistics, commodity trading, and related subjects.

We reviewed executive branch agencies' documents and files and private sector documents and publications. To identify LBGAs we reviewed various background material, including International Wheat Council listings. Due to the manner in which international grain data is reported, we compared IWC statistics, which were generally reported on a calendar year basis, to USDA trade figures, which were reported on a trade year basis (i.e., July-June for wheat and Oct.-Sept. for coarse grains). We reviewed LBGAs employed from January 1975 to August 1986. Appendix II includes additional data on new LBGAs beginning in September 1986 through June 1987. It should also be noted that IWC statistics generally lag actual figures by one year. We could not verify the terms or disposition of LBGAs and countertrade arrangements because this information is not systematically collected or maintained.

For countertrade grain arrangements, we compiled example arrangements based primarily on a detailed analysis of <u>Countertrade Outlook</u>; <u>Weekly Intelligence on Reciprocal Trade</u> issued from <u>April 23, 1983</u> through June 1, 1987. Because no national or international agency systematically collects information on countertrade, it is not possible to

determine accurately the total number of countertrade arrangements. The data we gathered was limited to publicly announced countertrade arrangements.

Our review was conducted in accordance with generally accepted government auditing standards.

LBGAs in Existence Between January 1975 and August 1986

| | | | | Average quar | ıtity ^c |
|----------------------------------|--|------------------|------------------|-----------------|--------------------|
| Evnortor/importor | Date signed | Date effective | Duration (years) | (minimum | mt) maximum |
| Exporter/importer Argentina with | Date signed | enective | (years) | | maximum |
| PRC PRC | Nov-73 | Jan-74 | 3 | 0.700 | 1.000 |
| Korea, Rep. | Nov-73 | Jan-74 | 3 | 0.267 | 0.267 |
| Algeria | Oct-74 | Jan-75 | 5 | 0.270 | 0.450 |
| | Nov-74 | Jan-75 | 1 | 0.110 | 0.110 |
| Paraguay Portugal | Dec-74 | Jan-75 | | 0.650 | 0.670 |
| Venezuela | Nov-75 | Jan-76 | 5 | 0.380 | 0.380 |
| | Dec-75 | Jan-76 | 1 | 0.330 | 0.300 |
| Libya Peru | Mar-76 | Jan-76 | 3 | 0.237 | 0.237 |
| Chile | Nov-76 | Jan-77 | 3 | 0.500 | 0.500 |
| PRC | | Jan-77 Jan-79 | 3 | 1.000 | 1.000 |
| | May-78 | | 3 | 0.300 | 0.300 |
| Iraq | Apr-80 | Dec-80 | | 4.500 | 4.500 |
| USSR | Jul-80 | Jan-80 | 6 | 0.700 | 0.700 |
| Mexico | Aug-80 | Jan-81 | | | 1.500 |
| PRC | Sep-80 | Jan-81 | 5 | 1.000 0.120 | 0.240 |
| Algeria | Sep-81 | Jan-82 | | | |
| Cuba | Sep-82 | Jan-82 | 4 | 0.138 | 0.138 |
| Angola | (a) | Jan-83 | 3 | 0.100 | 0.100 |
| Czechoslovakia | (a) | Jan-83 | 3 | 0.200 | 0.200 |
| Haiti | (a) | Jan-83 | 3 | 0.150 | 0.150 |
| Iran | Mar-83 | Dec-83 | 2 | 1.500 | 1.500 |
| Mexico | Mar-85 | Jan-85 | 4 | (a) | (a |
| Peru | Mar-85 | Jan-85 | 4 | 0.700 | 0.700 |
| Bulgaria | Oct-85 | Jan-86 | 1 | 0.600 | 0.600 |
| USSR | Jan-86 | Jan-86 | 5 | 4.000 | 4.000 |
| Australia with | and the second s | | | | |
| Egypt | Jun-72 | Jul-72 | 3 | 1.000 | 1.000 |
| Lebanon | (a) | Jan-74 | 3 | 0.040 | 0.070 |
| PRC | Oct-73 | Jan-74 | 3 | 1.367 | 1.567 |
| Egypt | Oct-75 | Jan-76 | 3 | 1.000 | 1.000 |
| Pakistan | Feb-76 | Jan-76 | 1 | 0.500 | 0.500 |
| Saudi Arabia | Mar-76 | Jan-76 | 3 | 0.200 | 0.200 |
| Taiwan | Aug-76 | Aug-76 | 1 | 0.100 | 0.100 |
| Japan | Oct-76 | Jan-77 | 1 | 1.000 | 1.000 |
| Egypt | Nov-77 | Jan-79 | 3 | 1.000 | 1.000 |
| Indonesia | Nov-77 | Jan-78 | 1 | 0.400 | 0.400 |
| PRC | Jan-79 | Jan-79 | 3 | 2.500 | 2.500 |
| Qatar | Jan-80 | Jan-80 | 1 | 0.044 | 0.044 |

| | | | - Manual | Average quar | e annual ntity ^c |
|-------------------|-------------------|-------------------|--------------------------------|-----------------|--------------------------------|
| Exporter/importer | Date signed | Date effective | Duration (years) | (mi | mt) maximum |
| Indonesia | Feb-81 | Jan-81 | (years) | 0.600 | 0.600 |
| Japan | Feb-81 | Jan-81 | 1 | 0.900 | 0.900 |
| Egypt | Feb-81 | Jan-82 | 5 | 1.000 | 1.000 |
| Yemen AR | May-81 | Dec-81 | 3 | 0.250 | 0.250 |
| PRC | Nov-81 | Jan-82 | 3 | 1.500 | 2.500 |
| Abu Dhabi | Dec-81 | Jan-82 | 3 | 0.070 | 0.070 |
| Iraq | Nov-82 | Jan-83 | 3 | 0.750 | 0.917 |
| Japan | Feb-83 | Jan-83 | 1 | 0.900 | 0.900 |
| Yemen PDR | Aug-83 | Jan-84 | <u>.</u> | 0.120 | 0.130 |
| Japan | Feb-84 | Jan-84 | 1 | 0.965 | 0.965 |
| Yemen PDR | (a) | Jan-85 | 1 | 0.120 | 0.130 |
| Egypt | Oct-84 | Jan-85 | 5 | 2.000 | 2.000 |
| Japan | Feb-85 | Jan-85 | 1 | 0.900 | 0.900 |
| Abu Dhabi | Apr-85 | Jan-85 | 3 | 0.070 | 0.070 |
| Iraq | Nov-85 | Jan-86 | 5 | 0.800 | 1.200 |
| Yemen AR | Dec-85 | Jan-86 | 1 | 0.400 | 0.400 |
| Japan | Feb-86 | Jan-86 | 1 | 0.900 | 0.900 |
| Canada with | | | and the delite group year age. | | |
| Lebanon | Sep-73 | Jan-73 | 3 | 0.080 | 0.080 |
| PRC | Oct-73 | Jan-74 | 3 | 1.626 | 2.032 |
| Brazil | Nov-73 | Jun-73 | 3 | 0.200 | 0.200 |
| Poland | Dec-73 | Jan-74 | 3 | 0.250 | 0.333 |
| Iraq | Mar-74 | Jan-74 | 3 | 0.100 | 0.300 |
| Norway | Mar-74 | Jan-74 | 3 | 0.060 | 0.120 |
| Brazil | Oct-75 | Jan-76 | 3 | 0.300 | 0.500 |
| Algeria | May-76 | Jan-76 | 3 | 0.292 | 0.333 |
| Japan | Nov-76 | Jan-77 | 1 | 2.300 | 2.300 |
| Poland | Nov-76 | Jan-77 | 3 | 0.250 | 0.400 |
| Norway | Jan-77 | Jan-77 | 3 | 0.060 | 0.120 |
| Poland | Apr-77 | Jan-77 | 3 | 0.500 | 0.800 |
| Jamaica | Jan-79 | Jan-79 | 3 | 0.050 | 0.083 |
| PRC | Feb-79 | Aug-79 | 3 | 2.800 | 3.500 |
| Poland | Oct-79 | Jan-80 | 3 | 1.000 | 1.500 |
| Brazil | Jan-80 | Jan-80 | 3 | 1.000 | 1.000 |
| Japan | Dec-80 | Jan-81 | 1 | 2.150 | 2.150 |
| Mexico | Feb-81 | Jan-81 | 2 | 0.100 | 0.250 |
| USSR | May-81 | Aug-81 | 5 | 5.000 | 5.000 |
| Jamaica | 1981 ^b | Jan-82 | 3 | 0.023 | 0.038 |
| Algeria | Apr-82 | Aug-82 | 3 | 0.600 | 0.800 |
| | | | | | (continued) |

| 4.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | | | <u> </u> | Average quar | annual itity ^c |
|---|--------------|-----------|---------------------------------------|--------------|------------------------------|
| F | Data alama t | Date | Duration | (mi | |
| Exporter/importer | Date signed | effective | (years) | minimum | maximum |
| PRC | May-82 | Aug-82 | 3 | 3.500 | 4.200 |
| Brazil | Jul-82 | Jan-83 | 3 | 1.667 | 2.500 |
| Iraq | Nov-82 | Jan-83 | 3 | 0.350 | 0.450 |
| Japan | Nov-82 | Jan-83 | 1 | 2.200 | 2.200 |
| GDR | Sep-83 | Jan-84 | 3 | 1.000 | 1.000 |
| Japan | Nov-83 | Jan-84 | 1 | 2.200 | 2.200 |
| Japan | Nov-84 | Jan-85 | 1 | 2.100 | 2.100 |
| Egypt | Apr-85 | Jan-85 | 5 | 0.500 | 0.500 |
| Japan | Nov-85 | Jan-86 | 1 | 2.050 | 2.050 |
| USSR | Dec-85 | Aug-86 | 5 | 5.000 | 5.000 |
| Egypt | Jan86 | Jan-86 | 3 | 0.025 | 0.025 |
| Brazil | Jan-86 | Jan-86 | 3 | 0.700 | 1.500 |
| Iraq | Mar-86 | Jan-86 | 5 | 0.660 | 0.760 |
| E.C. with | | | | | |
| PRC | Sep-80 | Aug-80 | 3 | 0.500 | 0.700 |
| USSR | Oct-82 | Jan-83 | 3 | (a) | (a) |
| U.S. with | | | | | |
| USSR | Oct-75 | Oct-76 | 7 | 6.000 | 8.000 |
| PRC | Oct-80 | Jan-81 | 4 | 6.000 | 9.000 |
| USSR | Jul-83 | Oct-83 | 5 | 9.000 | 12.000 |
| Others with | | | · · · · · · · · · · · · · · · · · · · | | |
| Sweden-Norway | Mar-75 | Jan-75 | 3 | 0.050 | 0.083 |
| Sweden-Algeria | Mar-75 | Jan-75 | 3 | 0.080 | 0.085 |
| Uruguay-Bolivia | Oct-75 | Jan-76 | 3 | 0.050 | 0.050 |
| Sweden-Poland | Mar-77 | Jan-77 | 3 | 0.200 | 0.200 |
| Turkey-Tunisia | Jul77 | Aug-77 | 1 | 0.240 | 0.240 |
| Austria-Poland | Dec-77 | Jan-78 | 1 | 0.200 | 0.200 |
| Turkey-Libya | Jun-78 | Jan-78 | 5 | 0.100 | 0.100 |
| Turkey-Jordan | Jun-80 | Jan-81 | 3 | 0.033 | 0.033 |
| S.Africa-Taiwan | 1982b | Jun-82 | 3 | 0.600 | 0.600 |
| Hungary-USSR | (a) | Jan-83 | 3 | 0.400 | 0.400 |
| | | | | | (continued) |

| | | | | Average | |
|--------------------------|------------------|-------------------|------------|---------|---------|
| | | Date | Duration | (mı | nt) |
| Exporter/importer | Date signed | effective | (years) | minimum | maximum |
| Brazil-USSR | Mar-82 | Jan-83 | 4 | 0.500 | 0.500 |
| Austria-GDR | May-84 | Jan-84 | 3 | 0.350 | 0.350 |
| Uruguay-Mexico | Jan-85 | Jan-85 | 3 | 0.100 | 0.100 |
| Uruguay-Taiwan | Jan-85 | Jan-85 | 6 | 0.369 | 0.369 |
| PRC-Japan | Mar-85 | May-85 | 2 | 2.300 | 2.300 |
| Turkey-USSR | Mar-85 | Jan-86 | 5 | (a) | (a) |
| PRC-USSR | Jan-86 | May-85 | 4 | 1.500 | 1.500 |
| Additional LBGAs Ir | nitiated Between | September 198 | 6 and June | 1987 | |
| Argentina with Brazil | Jun-87 | 1992 ^b | ext. | 2.000 | 2.000 |
| Australia with | | | | | |
| Japan | Mar-87 | Jan-87 | 1 | .900 | .900 |
| Yemen | Jan-87 | Jan-87 | 2 | .400 | .600 |
| Canada with | | | | | |
| Japan | Nov-86 | Jan-87 | 1 | (a) | (a) |
| USSR | Oct-86 | Aug-86 | 5 | 5.000 | 5.000 |
| South Africa with | | | _ | | |
| Taiwan | Nov-86 | Jan-87 | 3 | .600 | .600 |

aNot available.

^bSpecific month not available from source.

^cWe provide information on minimum and maximum quantities specified under the agreements but actual sales information is not collected by either the U.S. government or the International Wheat Council and is difficult to obtain because of the inherently proprietary nature of such information. Source: International Wheat Council.

Countertrade Arrangements Involving Grain From 1953 to 1987

| Co | ountry | Product Export | ed from Country | |
|---------------|-----------|--|--|-------------|
| A | В | A | В | Timeframe |
| Spain | Egypt | wheat, wheat flour | cotton | 1953 |
| United States | India | wheat | ferrous manganese | 1960 |
| Argentina | Peru | wheat corn beef offal | copper iron ore cotton | 1976 |
| | Venezuela | wheat (200,000 metric tons (mt), grain, sorghum, corn (100,000 mt) | iron ore | 1976 |
| Hungary | Peru | wheat equipment | fishmeal cotton coffee minerals | 1977 |
| India | Iran | wheat construction equip. railway equip. rice tea | crude oil raisins almonds | 1980 |
| Turkey | Iran | barley wheat horticultural items | crude oil | 1980 |
| India | USSR | barley (100,000 tons) corn (300,000 tons) rice peanuts other | crude oil petroleum products | 1981 |
| Thailand | PRC | maize (200,000 mt) rice black matupe rubber other | crude oil diesel oil jet petroleum | 1981 |
| | Romania | corn (200,000 mt) | fertilizer | 1981 |
| | USSR | corn (100,000 mt) | fertilizer | 1981 |
| | USSR | corn (200,000 mt) | fertilizer | 1981 |
| Argentina | Iraq | wheat (300,000 mt) rice | crude oil | 1982 |
| South Africa | Romania | corn (200,000 tons) | urea fertilizer | 1982 |
| | USSR | corn (200,000 tons) | urea fertilizer | 1982 |
| Argentina | Iraq | grain | oil | 1983 |
| Pakistan | Iran | wheat (130,000 tons) sugar rice chemical fertilizer | crude oil | 1983 |
| | | | | (continued) |

| Country | | Product Exported from Country | | |
|----------------|-------------|--|--|-------------|
| A | В | A | В | Timeframe |
| Argentina | Mexico | wheat other cereals foodstuffs | petrochemicals pharmaceuticals motors | 1984 |
| | Mexico | grain | steel | 1984 |
| : | USSR | grain meat | crude oil | 1984 |
| Australia | Pakistan | wheat (550,000 tons) | cotton other commodities | 1984 |
| PRC | Tunisia | wheat (150,000 tons) cotton | phosphates | 1984 |
| East Germany | Brazil | corn | unspecified | 1984 |
| Greece | Iran | wheat (15,000 mt) various commodities manufacturing goods & services | crude oil chromite zinc | 1984 |
| Indonesia | Japan | maize shrimp rubber rattan plywood & sawn lumber | coal carrying vessel | 1984 |
| | Netherlands | white corn | unspecified | 1984 |
| Thailand | USSR | corn (5,200 mt) garments tapioca pellets tapioca flour | rosewood machinery fertilizer | 1984 |
| United Kingdom | Poland | wheat (70,000 tons) | coal | 1984 |
| Brazil | Malaysia | grain iron ore cotton foodstuffs frozen meat | rubber crude oil rubber processing machine tin | 1985 |
| | Peru | grain processed foods | oil copper zinc industrial equipment manufacturing goods | 1985 |
| Bulgaria | Zimbabwe | wheat (20,000 tons) | tobacco | 1985 |
| PRC | Japan | corn (2,500,000 tons) | machinery | 1985 |
| Hungary | Yugoslavia | maize | wheat | 1985 |
| India | Pakistan | grain foodstuffs | leather, cotton animal feed | 1985 |
| | Pakistan | wheat (2,500,000 tons) | rice | 1985 |
| Thailand | Bulgaria | corn rubber rice tapioca other | chemicals pharmaceuticals steel, steel products machinery electrical equipment | 1985 |
| | | | | (continued) |

| Country | | Product Exported from Country | | _ |
|---------------|--|--|---|-------------|
| A | В | A | В | Timeframe |
| Thailand | Poland | corn | patrol boats | 1985 |
| | Romania | maize sugar tapioca rice sugar and molasses coffee and chicken | fertilizer agricultural machines insecticides pesticides wine and spirits | 1985 |
| | Romania | corn crude oil rice fish meal rubber | fertilizer chemicals minerals | 1985 |
| | South Korea | corn (3,000,000 tons) sorghum (300,000 tons) | ammunition explosives | 1985 |
| - : : | USSR | corn (500,000 tons) tapioca pellets | fertilizer | 1985 |
| United States | Brazil | corn | credits | 1985 |
| Zimbabwe | Australia | maize (30,600 tons) | wheat (25,000 tons) | 1985 |
| Argentina | Bulgaria | maize (500,000 mt) wheat (100,000 mt) soybeans beef | equipment technical assistance leather processing metal refining insulin | 1986 |
| | PRC | grain beef steel | equipment technical assistance chemicals petroleum products | 1986 |
| | Czechoslovakia | grain beef | thermal power plant industrial products | 1986 |
| | Czechoslovakia | maize soybeans beef | chemicals raw materials | 1986 |
| | Peru | grain | iron ore | 1986 |
| | USSR | grain (4,500,000 mt) soybeans | heavy manufactures | 1986 |
| Australia | Egypt | wheat (10,000,000 tons) | grain silo financing | 1986 |
| | iran | barley mutton butter wool | crude oil | 1986 |
| Bangladesh | Sweden | wheatbran jute products tea hides and skins other | pharmaceutical materials hospital lab equipment baby food | 1986 |
| | Switzerland 2 agreements ^b | wheat bran jute products tea hides and skins, other | pharmaceutical materials, hospital lab equipment, baby food | 1986 |
| | | | | (continued) |

| Country | | Product Exported from Country | | |
|----------------|---------------------------------------|---|--|-------------|
| A | В | A | В | Timeframe |
| Bangladesh | West Germany | wheatbran jute products tea hides and skins, other | pharmaceutical materials, hospital lab equipment, baby food | 1986 |
| Brazil | Guyana | wheat auto spares | gold other minerals | 1986 |
| Bulgaria | Zimbabwe 3 agreements ^b | wheat maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| Canada | Nigeria | grain other | oil | 1986 |
| PRC | East Germany | grain cotton light industrial goods | trucks factory equipment grain, cotton | 1986 |
| J | Japan | maize raw cotton crude oil petroleum products petrochemicals | plywood | 1986 |
| | Japan | corn | machinery | 1986 |
| | Tunisia | wheat maize cotton | phosphates | 1986 |
| | USSR | corn soybeans fruit metals light manufactures | lumber steel fertilizer aircraft and vehicles heavy manufactures | 1986 |
| Czechoslovakia | Zimbabwe 4 agreements ^b | wheat maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| East Germany | Zimbabwe 2 agreements ^b | wheat maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| Ghana | U.S. | maize | rice | 1986 |
| Greece | USSR | wheat (100,000 tons) maize (100,000 tons) steel tubes olive oil, ship repair | USSR exports | 1986 |
| Hungary | Zimbabwe 2 agreements ^b | wheat, maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| | | | | (continued) |

| Country | | Product Exported from Country | | - |
|--------------------------|--|--|---|-------------|
| A | В | A | В | Timeframe |
| India North F | North Korea | wheat 30 commodities | cement, yarn rail equipment polyvinyl chloride | 1986 |
| | North Korea | wheat (10,000 tons) | zinc | 1986 |
| Unspecified Unspecified | wheat rice, tea engineering goods agricultural products | pig iron and billets | 1986 | |
| | Unspecified | wheat engineering goods agricultural products textiles other | fertilizer phosphate rock chemical compounds steel asbestos, other | 1986 |
| Malawi | U.S. | corn | wheat | 1986 |
| Pakistan | Iran | wheat rice, textiles | oil other products | 1986 |
| Poland | Zimbabwe | wheat maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| Romania | Zimbabwe - 6 agreements ^b | wheat maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| Sudan | Saudi Arabia | sorghum meat agricultural products | petroleum products fertilizer electric cables industrial products | 1986 |
| Thailand | Brazil | corn, rice | army tanks | 1986 |
| | Romania | maize, rubber | fertilizer | 1986 |
| | South Korea | corn tapioca | fertilizer | 1986 |
| Turkey | Iran | wheat barley fertilizer steel | oil manufactures agricultural commodities minerals | 1986 |
| Uganda Libya Tanzania | Libya | maize coffee tea timber other | oil | 1986 |
| | Tanzania | maize beans electric power | electric transformers detergents aluminum ware processing equipment maize | 1986 |
| | | | | (continued) |

| | Country | | ortea from Country | |
|---------------------|--------------|--|--|-----------|
| A | В | A | В | Timeframe |
| Middle | Belgium | maize | unspecified | 1986 |
| | Middle East | maize (420,000 mt) other | irrigation development | 1986 |
| | Zimbabwe | wheat maize chemicals and plastics steel and tin plates industrial goods | tobacco asbestos ferrochrome blue denim | 1986 |
| Zimbabwe Mozambique | Mozambique | maize tobacco malt aluminum sulfate agricultural machinery | fish and shellfish cashews bauxite petroleum products | 1986 |
| | South Africa | maize (200,000 tons) | manufactures | 1986 |
| | U.S. | maize (7,000 mt) | wheat (9,600 mt) | 1986 |
| Argentina | Brazil | wheat (900,000 tons) rice beans | bananas cacao paste | 1987 |
| Canada | U.S. | barley (300 bushels) | hotel construction | 1987 |
| Greece | Albania | wheat flour textiles pharmaceuticals | asphalt diesel fuels electric power | 1987 |
| | Algeria | wheat (200,000 tons) cement milk powder tobacco other | crude oil petroleum products phosphates | 1987 |
| | Belgium | maize | unspecified | 1987 |
| Uganda | Burkino Faso | maize | blankets | 1987 |
| | Libya | yellow maize (2,000 mt) coffee and beans cotton yarn fruits other | crude oil cement tractors gypsum fertilizer | 1987 |
| Zimbabwe | Australia | maize (14,000 tons) | wheat other food aid | 1987 |
| | Brazil | maize | coffee-process. machine | 1987 |
| | Pakistan | maize (35,950 tons) | rice | 1987 |
| Argentina | USSR | grain | trucks | (a |
| Australia | Pakistan | wheat (250,000 mt) | cotton | (a |
| | Pakistan | wheat | fertilizer | (a |
| Brazil | USSR | corn (2,500,000 tons) soybeans, beans, meal, oil, other | petroleum | (a |

| Country | | Product Exported from Country | | |
|-----------|---------------------|---|--|-----------|
| A | В | A | В | Timeframe |
| Canada | Balkan Countries | grain | corn | (a) |
| 1 | South Korea | wheat (500,000 mt) | cars | (a) |
| | USSR | wheat | generators | (a) |
| : | Yugoslavia | feed grain | furniture | (a) |
| France | Egypt | maize flour frozen chicken tallow | cotton, yarn, textiles leather furniture aluminum phosphates | (a) |
| : | Poland | grain (160,000 tons) | coal | (a) |
| | Vietnam | wheat and wheat flour (2,000,000 mt) fertilizer | rice coal | (a) |
| Indonesia | Japan | maize, shrimp, lobster jellyfish quartz, other | shop and ground equipment | (a) |
| Thailand | South Korea | maize | electric water pump | (a) |

^aNot available.

Sources: International Trade: Alternative Trading Practices for International Grain Trade, (GAO/NSIAD-87-90BR) Mar. 1987, Countertrade Outlook: Weekly Intelligence on Reciprocal Trade, DP Publications Co. (Alexandria, Va), Apr. 25, 1983 - June 1, 1987, and information provided to us by international traders and foreign government officials.

Note: Table excludes one agreement in which both countries are unspecified.

^bMultiple agreements represent separate agreements with the identical types of products countertraded

Major Contributors to This Report

National Security and International Affairs Division

Allan I. Mendelowitz, Director, International Trade, Energy, and Finance Issues (202) 275-4812

Phillip J. Thomas, Assistant Director Rima Finzi, Technical Adviser

New York Regional Office

Francesco DeSantis, Evaluator-In-Charge

Richard G. Schlitt, Evaluator Patricia J. Hogan, Evaluator James T.S. Hsiung, Evaluator

European Office

Clifford W. Martin, Evaluator

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