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P093-174381

**USDA/SB-851 FERTILIZER TRADE STATISTICS, 1970-91.
(STATISTICAL BULLETIN.) / H. VROOMEN; ET AL. ECONOMIC
RESEARCH SERVICE, FORT COLLINS, CO. JAN 93 49P**

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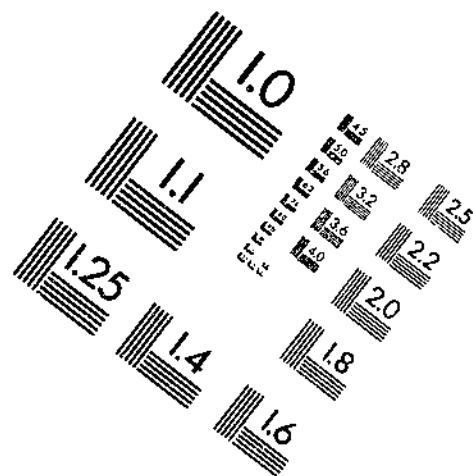
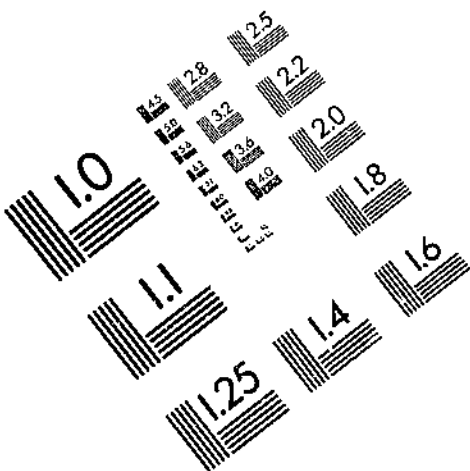


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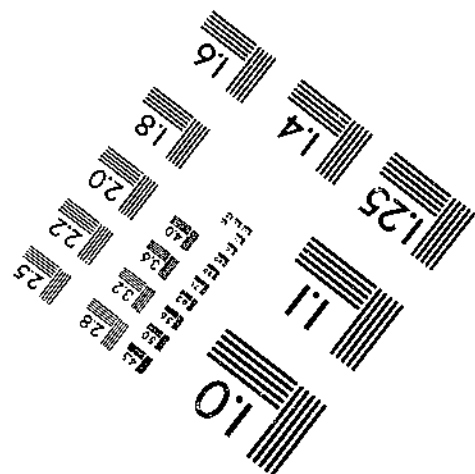
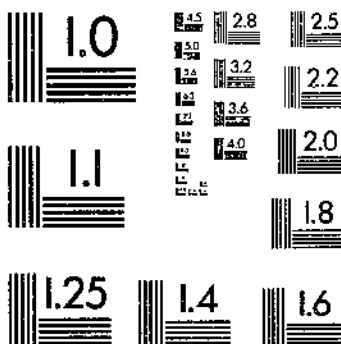
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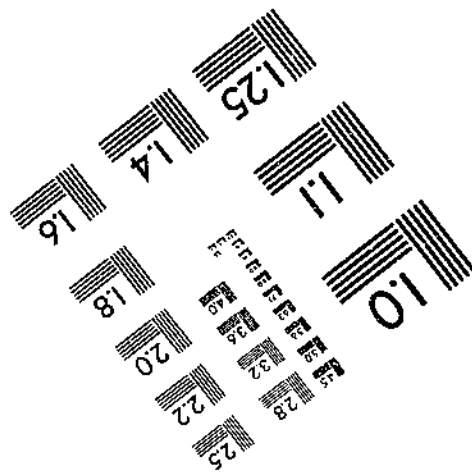
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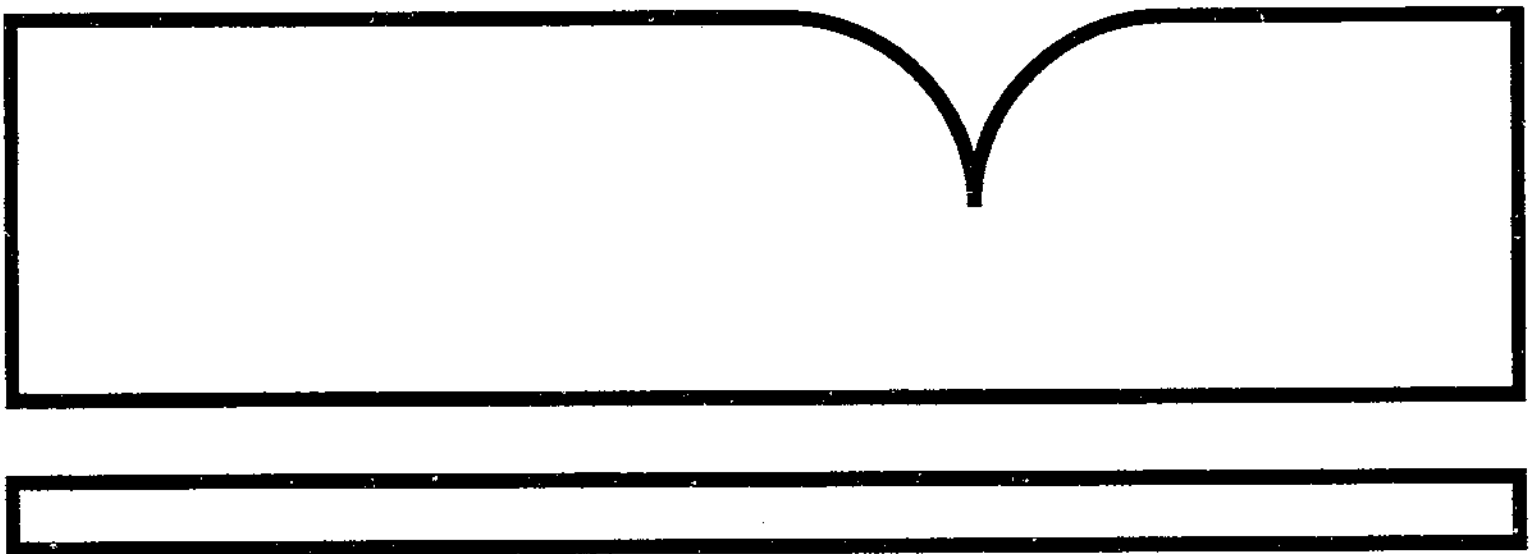


PB93-174381

Fertilizer Trade Statistics, 1970-91

(U.S.) Economic Research Service, Fort Collins, CO

Jan 93



U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

NTIS

BIBLIOGRAPHIC INFORMATION

PB93-174381

Report Nos: USDA/SB-851

Title: Fertilizer Trade Statistics, 1970-91.

Date: Jan 93

Authors: H. Vroomen, and H. Taylor.

Performing Organization: Economic Research Service, Fort Collins, CO.

Type of Report and Period Covered: Statistical bulletin.

Supplementary Notes: See also PB89-211023.

NTIS Field/Group Codes: 98B, 96C

Price: PC A03/MF A01

Availability: Available from the National Technical Information Service,
Springfield, VA. 22161

Number of Pages: 49p

Keywords: *Fertilizers, *Phosphorus Inorganic compounds, *International trade, *Potash, Exports, Imports, Statistical data, Nitrogen compounds, Potassium carbonates, United States, Global.

Abstract: The United States is the world's largest phosphate exporter and the world's largest potash importer. The U.S. nitrogen trade balance, relatively stable before 1983, has shifted as the United States became a net importer of nitrogen beginning in 1983. This bulletin includes statistics for 1970-91 on U.S. imports and exports of selected fertilizer materials, world and U.S. imports and exports of nitrogen, phosphate, and potash, and U.S. import origins and export destinations for selected fertilizer materials.

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. PB93-174381		2. REPORT DATE December 1992		3. REPORT TYPE AND DATES COVERED	
4. TITLE AND SUBTITLE Fertilizer Trade Statistics, 1970-91				5. FUNDING NUMBERS	
6. AUTHOR(S) Harry Vroomen Harold Taylor					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Resources and Technology Division Economic Research Service U.S. Department of Agriculture Washington, DC 20005-4788				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSORING/MONITORING AGENCY REPORT NUMBER SB-851	
11. SUPPLEMENTARY NOTES					
12a. DISTRIBUTION/AVAILABILITY STATEMENT				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) The United States is the world's largest phosphate exporter and the world's largest potash importer. The U.S. nitrogen trade balance, relatively stable before 1983, has shifted as the United States became a net importer of nitrogen beginning in 1983. This bulletin includes statistics for 1970-91 on U.S. imports and exports of selected fertilizer materials, world and U.S. imports and exports of nitrogen, phosphate, and potash, and U.S. import origins and export destinations for selected fertilizer materials.					
14. SUBJECT TERMS Fertilizer Foreign trade Exports International trade Imports Statistical data				15. NUMBER OF PAGES 48	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT		20. LIMITATION OF ABSTRACT	

United States
Department of
Agriculture

Economic
Research
Service

Statistical
Bulletin
Number 851

Fertilizer Trade Statistics, 1970-91

Harry Vroomen
Harold Taylor



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NATIONAL TECHNICAL INFORMATION SERVICE
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Fertilizer Trade Statistics, 1970-91. By Harry Vrooman and Harold Taylor, Resources and Technology Division, Economic Research Service, U.S. Department of Agriculture. Statistical Bulletin No. 851.

Abstract

The United States is the world's largest phosphate exporter and the world's largest potash importer. The U.S. nitrogen trade balance, relatively stable before 1983, has shifted as the United States became a net importer of nitrogen beginning in 1983. This bulletin includes statistics for 1970-91 on U.S. imports and exports of selected fertilizer materials, world and U.S. imports and exports of nitrogen, phosphate, and potash, and U.S. import origins and export destinations for selected fertilizer materials.

Keywords: Fertilizer, trade, nitrogen, phosphate, potash.

Acknowledgments

We would like to thank Homer Stroike of the Agricultural Stabilization and Conservation Service for his review. We would also like to thank John Jones of the Resources and Technology Division for his assistance in the preparation of the graphics and Sharon Lee of the Economics Management Staff for editorial assistance.

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Fertilizer Trade Statistics, 1970-91

Harry Vroomen
Harold Taylor

Introduction

World fertilizer production, use, and trade have increasingly affected the U.S. fertilizer market. World economic conditions, world crop prospects, new sources of fertilizer supplies, country policies concerning fertilizer production and use, and changing crop production and trade patterns all influence U.S. fertilizer trade patterns.

Imports and exports of fertilizer products are important economic factors affecting the fertilizer industry and the U.S. farm sector. Changes in U.S. fertilizer trade have resulted in increased public and private interest in factors affecting the fertilizer market. This bulletin includes statistics on U.S. imports and exports of selected fertilizer materials and world and U.S. imports and exports of nitrogen, phosphate, and potash for fertilizer years (July 1-June 30) 1970-91. Most of these data have been reported in various government and private sources. Combining the data into a single source allows one to examine the long-term changes in U.S. fertilizer trade. This report updates the previous publication (Vroomen).

U.S. Fertilizer Trade by Nutrient

U.S. trade in fertilizer varies widely by nutrient. The United States became a net nitrogen importer in 1983 as low-cost foreign products replaced higher cost domestic products. The United States is the world's largest phosphate fertilizer exporter and the world's largest potash importer.

Nitrogen

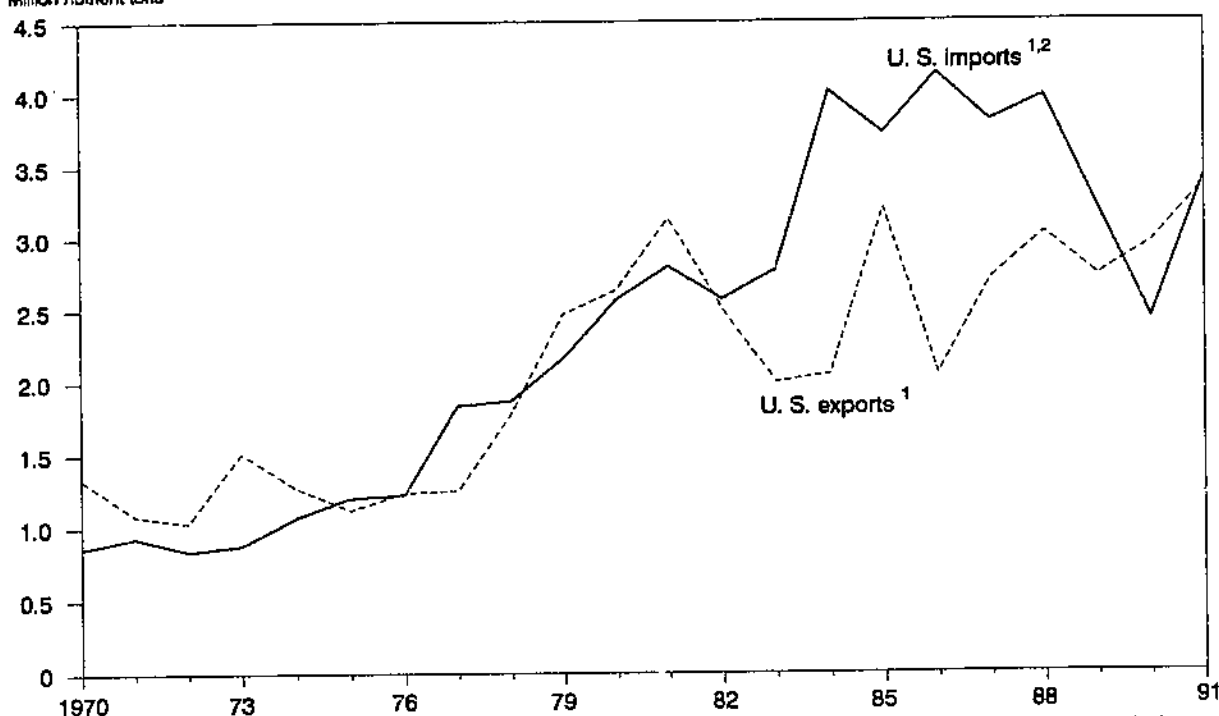
Annual U.S. imports and exports of nitrogen were approximately equal before 1982, with the trade balance varying from year to year (fig. 1).¹ The trade balance shifted in 1983, however, and the United States became a net nitrogen importer, as low-cost foreign products replaced higher cost domestic products.

¹ All fertilizer trade data are reported on a fertilizer-year basis that begins July 1 of the previous year and ends June 30.

Figure 1

U.S. nitrogen fertilizer trade, 1970-91

Million nutrient tons



1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. 2/ Anhydrous ammonia imports from the former Soviet Union not reported after calendar year 1989. Sources: Tables 6 and 7.

Anhydrous ammonia and urea remain the two most important nitrogen fertilizer import materials, although other products have contributed to total U.S. nitrogen imports since 1970 (table 1 and fig. 2). (Tables appear after text.) Imports of these materials have increased significantly since 1970 from countries with access to inexpensive natural gas. As recently as 1974, the United States was a net exporter of anhydrous ammonia. But the trade surplus in anhydrous ammonia had reversed by 1984 to an almost 3-million-ton deficit (tables 1 and 2). Urea imports have fluctuated in relation to the price of urea and the availability of other nitrogen fertilizers. Although a net exporter of urea during 1979-82, the United States has been a net urea importer since 1983.

The most important nitrogen fertilizer materials exported by the United States are anhydrous ammonia, urea, and ammonium sulfate (table 2 and fig. 3). Nitrogen solutions exports, historically minor and extremely variable, reached their highest level in 1988, when they accounted for 8 percent of total nitrogen exports (fig. 3). Ammonium phosphates have also contributed significantly to total nitrogen exports since 1970. Exports of diammonium phosphate accounted for almost 51 percent of total nitrogen exports in 1991.

Phosphate

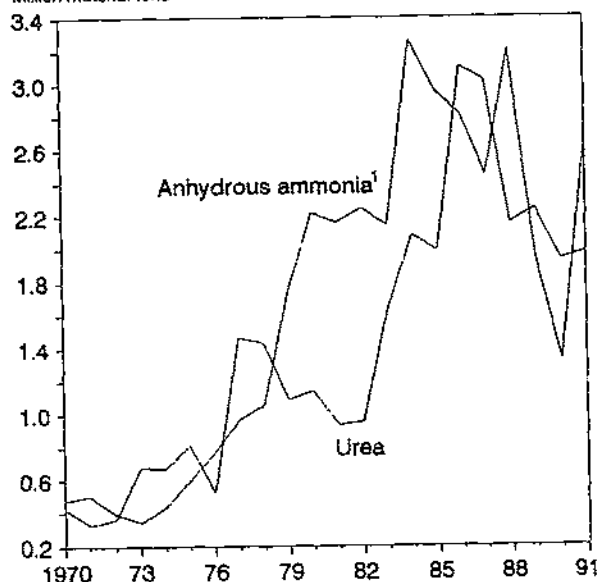
The United States became the world's largest phosphate fertilizer exporter during the last decade (fig. 4). The growth in U.S. phosphate fertilizer exports was due primarily to increased exports of diammonium phosphate (DAP).

Figure 2

U.S. imports of selected nitrogen fertilizer materials, 1970-91

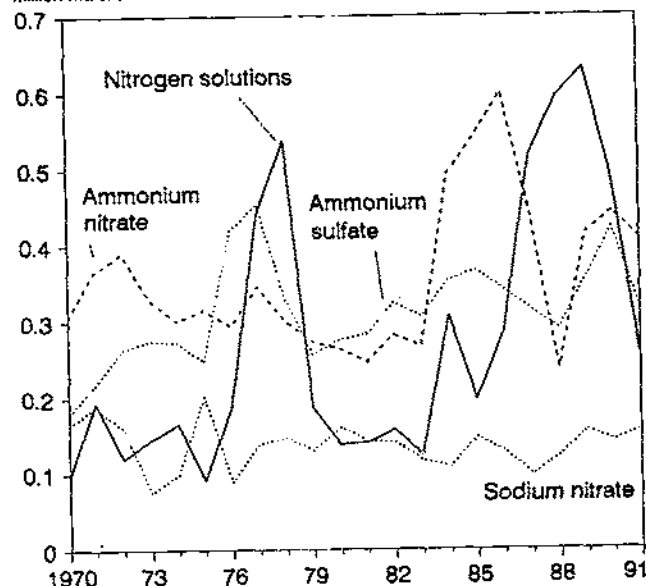
Anhydrous ammonia and urea

Million material tons



Other nitrogen materials

Million material tons



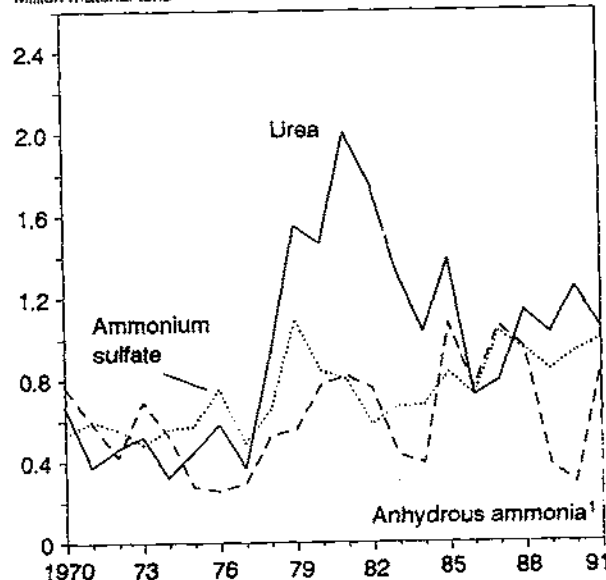
1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. Anhydrous ammonia imports from the former Soviet Union not reported after calendar year 1989. Source: Table 1.

Figure 3

U.S. exports of selected nitrogen fertilizer materials, 1970-91

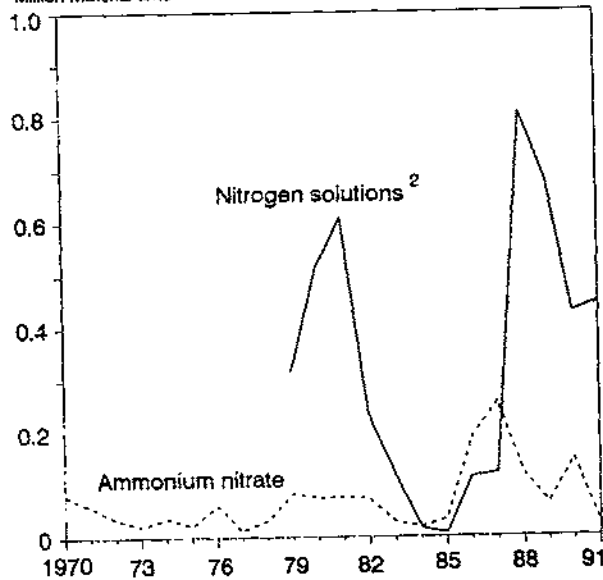
Anhydrous ammonia, urea, and ammonium sulfate

Million material tons



Ammonium nitrate and nitrogen solutions

Million material tons



1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. 2/ Data for nitrogen solutions not available for 1970-78. Source: Table 2.

After growing to 7.9 million tons by 1985, DAP exports fell to 4.3 million tons in 1986 as shipments to Asian countries fell significantly (table 3 and fig. 5). Exports rebounded in 1987 as shipments to Asian countries increased and stood at a record 9.5 million material tons in 1991 (table 13).

Concentrated superphosphate exports varied between 1.1 and 1.8 million material tons from 1975-88, but fell to 0.7 million tons in 1989, where they have remained (table 4 and fig. 5). Exports of phosphoric acid exhibit a similar pattern. Phosphate rock exports peaked at 17.2 million tons in 1980 but fell to under 7 million tons by 1991 (fig. 5).

Potash

The United States is the world's largest potash importer. U.S. imports of potassium chloride increased steadily during the 1970's as farm demand increased and as Canada discovered and developed vast reserves that could be mined efficiently (fig. 6). In addition to lower production costs, Canada also enjoys comparatively low-cost transportation to the large potash markets in the Midwest.

U.S. potassium chloride imports peaked at 9.1 million tons in 1981 as potash consumption reached record levels (table 5 and fig. 7). Potassium chloride imports fell after 1981 in response to a drop in U.S. fertilizer use. The United States also imports small amounts of potassium sulfate to meet specific market needs. Potassium sulfate imports have ranged from 29,000 to 93,000 tons since 1970.

U.S. potash exports generally increased through 1977 because of expanding world demand for fertilizer (table 5 and fig. 7). Since 1977, however, slower growth in world fertilizer use, along with increased competition from other potash-producing nations, has caused U.S. potash exports to decline. Potassium chloride exports, which reached 1.3 million tons in 1977, fell to 423,000 tons by 1990 before rebounding to 805,000 tons in 1991.

U.S. Share of World Imports

The U.S. share of world nitrogen fertilizer imports increased from 12 percent of 1970 world totals to nearly 24 percent by 1984, as nitrogen fertilizers produced in countries with less expensive gas supplies moved into the higher priced, less competitive U.S. market (table 6 and fig. 8). The U.S. share has since declined and stood at 20 percent in 1988. At the same time, world nitrogen imports continued to increase, while U.S. imports stabilized.

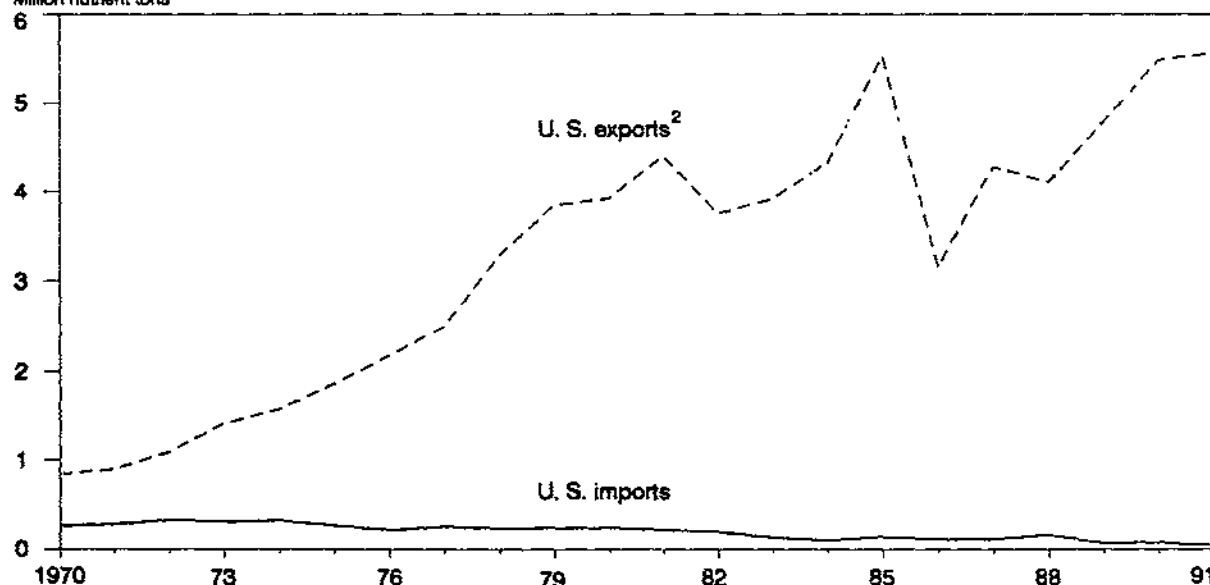
The United States has never imported a significant quantity of phosphate fertilizers relative to other fertilizers. Phosphate fertilizer imports ranged from 50,000 to 330,000 tons during 1970 to 1991. The U.S. share of world phosphate imports declined from almost 10 percent in 1972 to less than 1 percent in 1990 as world imports increased while U.S. imports declined.

The United States has accounted for anywhere from a fifth to a third of total world potash imports since 1970. World and U.S. imports have each increased. World potash imports rose by nearly 11 million tons during 1970-91, while U.S. imports doubled between 1970-85, but have declined somewhat since.

Figure 4

U.S. phosphate fertilizer trade, 1970-91¹

Million nutrient tons



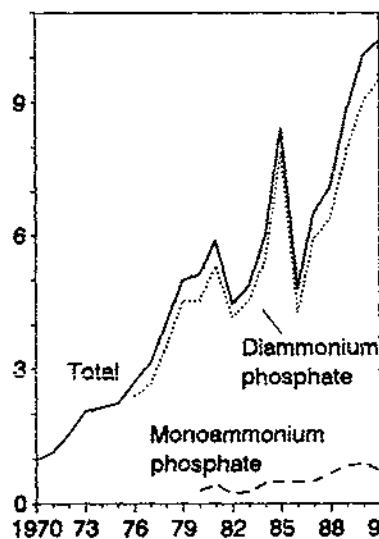
1/ Does not include phosphate rock. 2/ Reporting of superphosphoric acid exports was discontinued during July 1985 through December 1988. Data for 1988-89 are no longer comparable with other years. Sources: Tables 6 and 7.

Figure 5

U.S. exports of selected phosphate fertilizer materials and phosphate rock, 1970-91

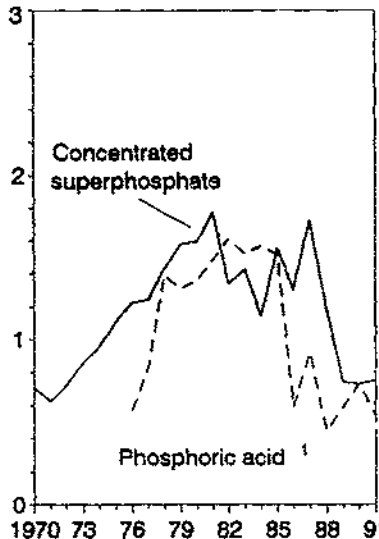
Ammonium phosphates

Million material tons



Concentrated superphosphate and phosphoric acid

Million material tons



Phosphate rock

Million tons

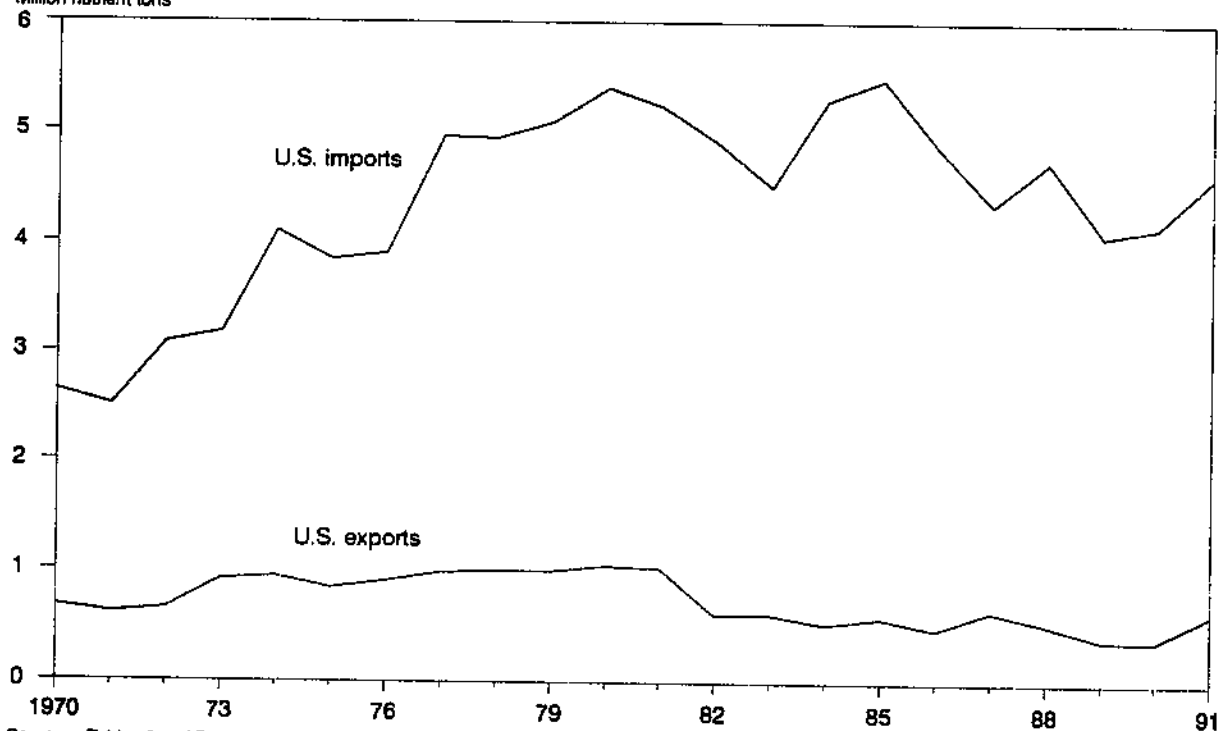


1/ Phosphoric acid exports include both wet-process phosphoric acid and superphosphoric acid. Reporting of superphosphoric acid exports was discontinued during July 1985 through December 1988. Data for 1988-89 are no longer comparable with other years. Sources: Tables 3 and 4.

Figure 6

U.S. potash fertilizer trade, 1970-91

Million nutrient tons



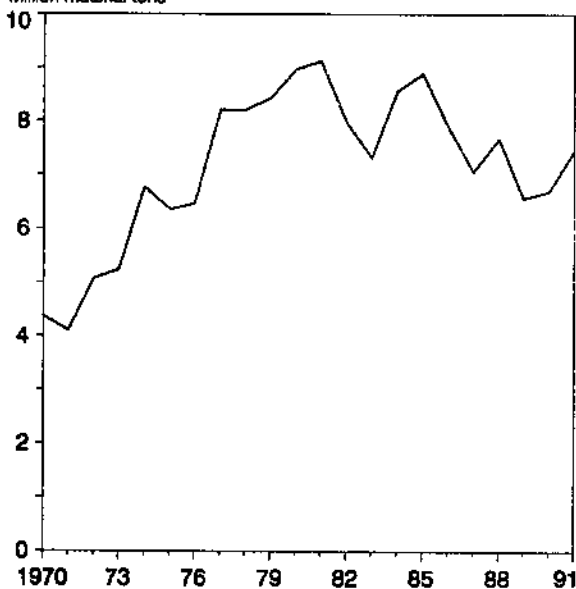
Sources: Tables 6 and 7.

Figure 7

U.S. imports and exports of selected potash fertilizer materials, 1970-91

U.S. imports of potassium chloride

Million material tons



Source: Table 5.

U.S. exports of potassium chloride and potassium sulfate

Million material tons

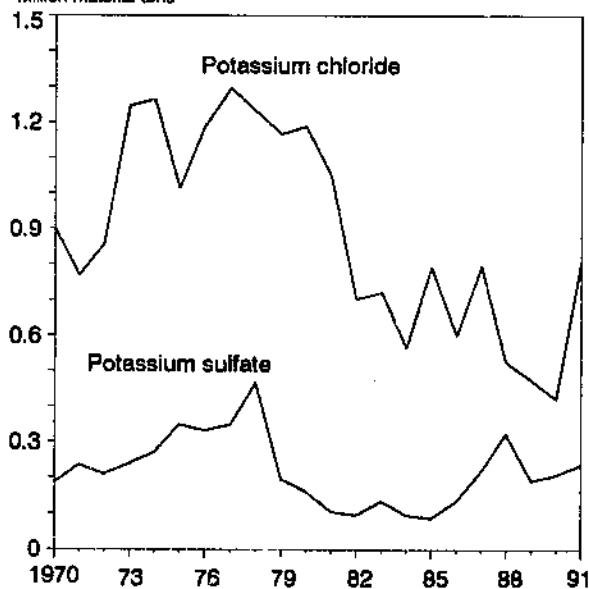
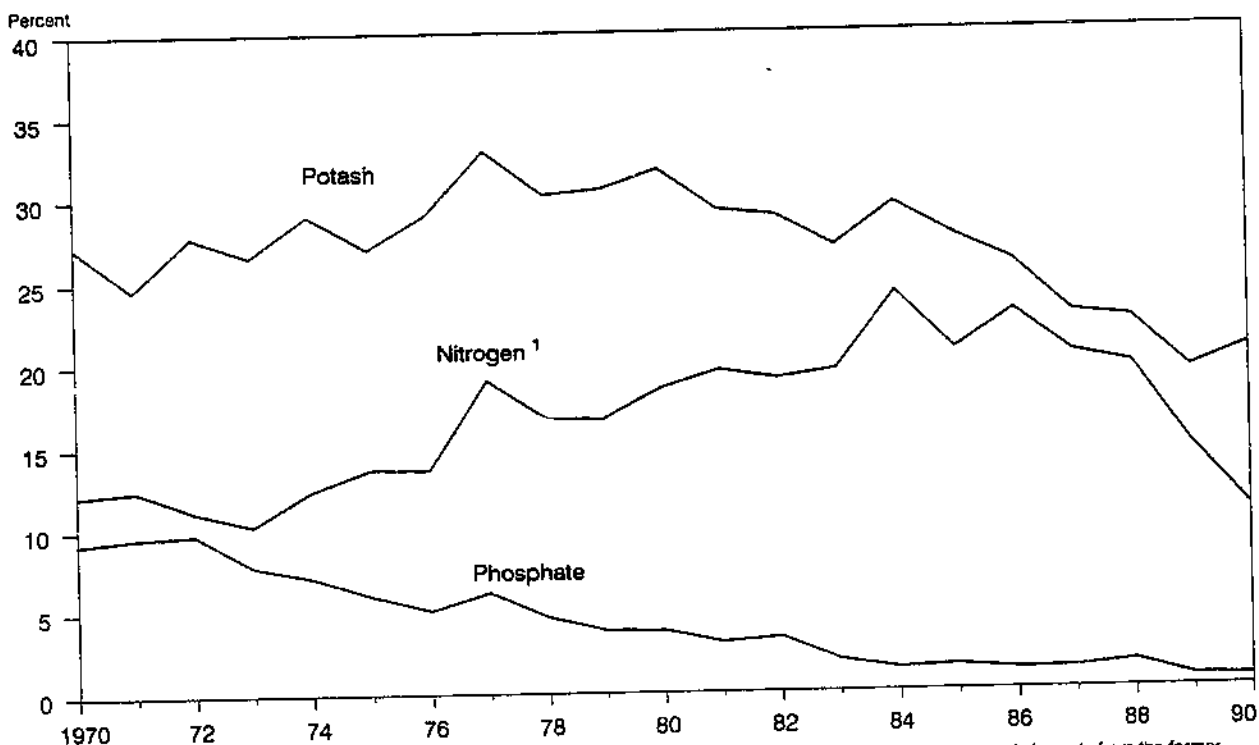


Figure 8

U.S. share of world fertilizer nutrient imports, 1970-90

1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989, and anhydrous ammonia imports from the former Soviet Union are not reported after calendar year 1989. Data for 1989-90 are no longer comparable with earlier years. Source: Table 6.

U.S. Share of World Exports

Anhydrous ammonia, urea, ammonium sulfate, and DAP are the primary contributors to U.S. nitrogen fertilizer exports. The steady increase in DAP exports added significantly to U.S. nitrogen exports from 1970 to 1981, when the U.S. share of world nitrogen exports peaked at almost 22 percent. The U.S. share varied considerably during this period due to changing levels of anhydrous ammonia and urea exports (table 7 and fig. 9).

After 1981, increased volatility in DAP exports also contributed to fluctuating levels of nitrogen exports, while exports of anhydrous ammonia and urea became even more variable. For example, the United States exported a record 3.2 million tons of nitrogen during 1985, accounting for over 17 percent of total world nitrogen exports, as U.S. exports of anhydrous ammonia and DAP reached record levels. The U.S. share fell to 12 percent by 1986, however, as exports of anhydrous ammonia, urea, and DAP declined significantly.

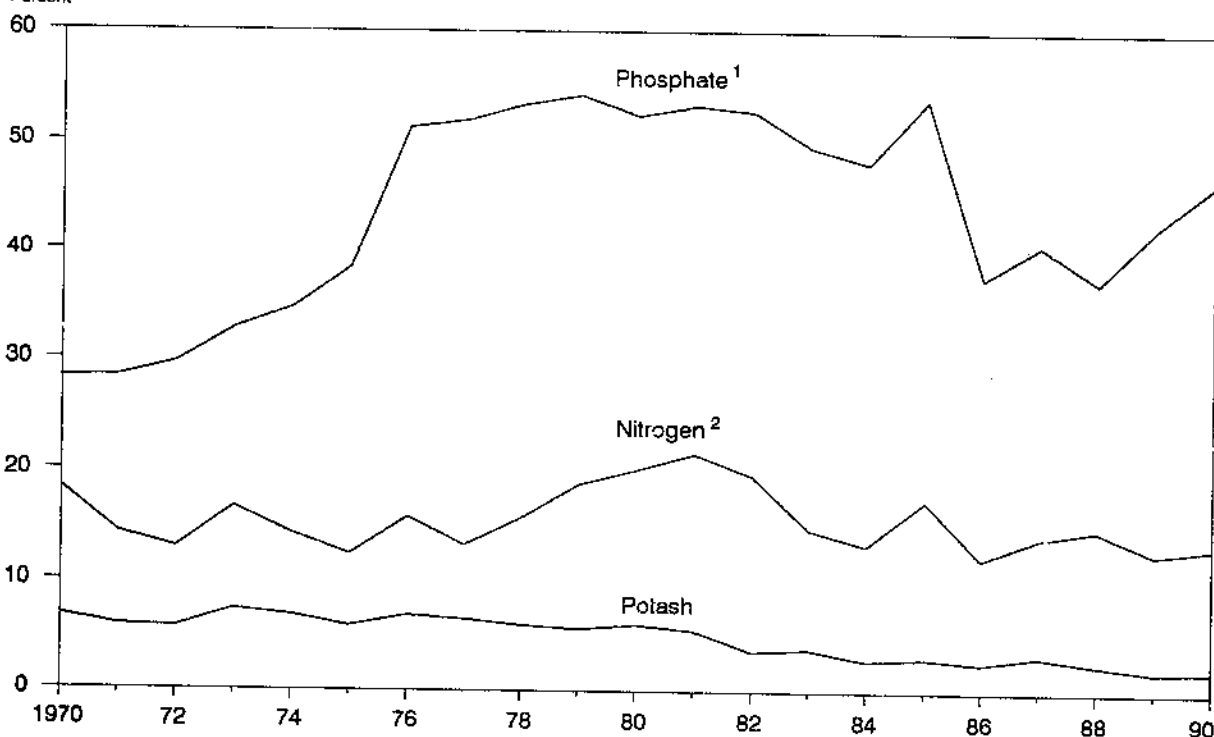
U.S. phosphate fertilizer production has accounted for approximately a fourth of total world production since 1970. The U.S. phosphate fertilizer industry is one of the world's lowest cost producers of phosphate fertilizers, allowing U.S. products to compete effectively in the world market.

DAP became the most important U.S. fertilizer export item during the 1980's. Growth in U.S. DAP exports accounted for most of the increase in the U.S.

Figure 9

U.S. share of world fertilizer nutrient exports, 1970-90

Percent



1/ Does not include phosphate rock. Reporting of superphosphoric acid was discontinued during July 1985 through December 1988. Data for 1986-89 are no longer comparable with other years. 2/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. Data for 1989-90 are no longer comparable with earlier years. Source: Table 7.

share of world phosphate exports, from about 28 percent in 1970 to almost 54 percent in 1985.

The decline in the competitive position of the U.S. potash industry since 1980 has been the major reason for the decline in the U.S. share of world potash fertilizer exports. The U.S. share of the world potash market fell from 6.8 percent in 1970 to 2.0 percent in 1990.

Regional Trade Patterns by Nutrient

Regional shifts in world fertilizer production and consumption have affected country origins of U.S. fertilizer imports and country destinations of fertilizer exports. Increased fertilizer use in Asia, slower growth of fertilizer use in Western Europe, and increased phosphate fertilizer production in Africa have affected U.S. export patterns. Increased nitrogen and potash production in Canada and increased nitrogen fertilizer production in Latin America and Eastern Europe have affected U.S. fertilizer imports.

Nitrogen

Canada has become the top U.S. supplier of nitrogen fertilizer imports, providing 42 percent of the anhydrous ammonia and 64 percent of the urea in

1991 (tables 8 and 9). Other major U.S. suppliers of nitrogen fertilizers have included the former Soviet Union, Trinidad-Tobago, and Europe.

The share of U.S. anhydrous ammonia exports going to Europe fell from 83 percent in 1970 to 16 percent in 1991 (table 10). Increased anhydrous ammonia production by Eastern European countries has forced the United States to relinquish market share in Western Europe. Meanwhile, the Asian market, with its huge nitrogen fertilizer deficit, has become an important alternate market for U.S. nitrogen fertilizer.² Asia's share of anhydrous ammonia exports increased from 5 percent in 1970 to 56 percent by 1991, with South Korea accounting for 96 percent of the Asian total. The African market has also become important, taking a fifth of U.S. anhydrous ammonia exports in 1991.

Important markets for U.S. urea exports have included Asia and Latin America (table 11).³ Asia, historically a strong but highly variable region for U.S. nitrogen exports, received 51 percent of total urea exports in 1991, with China the primary destination. Latin America's share of U.S. urea exports fell from 40 percent in 1985 to 27 percent in 1991 as shipments to Asia strengthened. Urea exports to Europe have risen, particularly in 1988.

Latin America has been a major market for U.S.-produced ammonium sulfate (table 12). In 1991, 40 percent of ammonium sulfate exports went to Brazil, while another 35 percent was marketed in other Latin American countries.

Phosphate

DAP has been the most popular U.S. phosphate fertilizer exported, typically accounting for 90 percent or more of U.S. ammonium phosphate exports. Europe, Asia, and Latin America have been the traditional markets for DAP since 1970 (table 13). However, while Asia's share increased from 27 to 74 percent by 1991, the share of DAP going to Latin America and Europe declined. China, India, Pakistan, and Japan have been the major Asian DAP customers.

Latin America, Europe, and Asia have also been major markets for U.S. concentrated superphosphate (table 14). Latin America took about 60 percent of U.S. concentrated superphosphate exports in 1970, while Europe and Asia took 21 and 16 percent. Although shipments to Latin America have remained strong, particularly to Brazil and Chile, exports to Asia and Europe have been highly variable since 1985. Latin America and Asia were the most important markets for U.S. phosphoric acid before 1980 (table 15). Brazil was the principal customer in Latin America, while India was the major Asian purchaser. After 1980, however, Latin America's share declined as Brazil purchased phosphoric acid from North African producers. Meanwhile, the former Soviet Union initiated a new agricultural policy emphasizing increased phosphate fertilizer use as an adjunct to expanding its agricultural production. The United States became the principal supplier of phosphoric acid for the Soviet expansion in phosphate fertilizer use, increasing the

² A significant amount of nitrogen fertilizer also gets exported into the Asian market in the form of ammonium phosphates, primarily as diammonium phosphate (see table 13).

³ Latin America includes both Central and South America.

former Soviet Union's share of U.S. phosphoric acid exports to 34 percent by 1985.⁴

Europe, Canada, and Asia, particularly Japan and South Korea, remain major purchasers of U.S. phosphate rock (table 16). These regions, accounting for 87 percent of total phosphate rock exports in 1970, took 84 percent of the total in 1991.

Potash

Canadian imports dominated the U.S. potassium chloride market (table 17). From 1970 to 1987, 93 percent or more of potassium chloride imports came from Canada. Israel was the only other significant supplier of potash fertilizer over this period. In 1988, however, East Germany, Israel, and the former Soviet Union supplied 11 percent of total U.S. potash imports, while Canada's share dropped to 88 percent as an anti-dumping case resulted in higher prices for Canadian potassium chloride.

Latin America became an increasingly important export market for U.S. potassium chloride from 1970 to 1991 (table 18). Latin America's share of potassium chloride exports increased from 35 to 74 percent during that period, while the share of shipments to the Asian market dropped from 42 to 11 percent. Oceania, which received 20 percent of U.S. potassium chloride exports in 1970, received less than 1 percent in 1991.

Deterioration in the competitive position of the U.S. potash industry before 1985 had reduced U.S. potash exports to Asia. However, because of its closer proximity to Latin America, the United States has been able to compete more effectively in that market. Competition from Eastern Europe reduced the Latin America share in 1986 and 1987, while the share to Asia increased because of increased exports to Japan, India, China, and Hong Kong.

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- (2) U.S. Department of Commerce, Bureau of the Census. U.S. Exports, Commodity and Country, 1991 and earlier issues.
- (3) _____. U.S. Imports, Commodity and Country, 1991 and earlier issues.
- (4) Vroomen, Harry. Fertilizer Trade Statistics, 1970-88. SB-782, U.S. Dept. of Agr., Econ. Res. Serv., June 1989.

⁴ Exports of phosphoric acid to the former Soviet Union are primarily in the form of superphosphoric acid. U.S. export data for superphosphoric acid was discontinued during July 1985-December 1988. Data for 1986-89 are no longer comparable with other years.

Table 1--U.S. imports of selected nitrogen fertilizer materials

Year ending June 30	Anhydrous ammonia	Ammonium nitrate	Ammonium sulfate	Sodium nitrate	Urea	Nitrogen solutions
1,000 material tons						
1970	477	306	179	164	424	98
1971	501	366	219	188	330	194
1972	393	390	264	160	365	120
1973	343	329	276	75	672	145
1974	438	301	273	100	668	166
1975	598	316	248	202	812	92
1976	767	295	420	89	528	188
1977	968	347	454	139	1,466	444
1978	1,054	300	330	147	1,430	538
1979	1,743	274	257	130	1,090	187
1980	2,219	264	277	160	1,136	138
1981	2,161	247	283	142	931	140
1982	2,243	282	324	141	952	158
1983	2,144	267	306	117	1,636	124
1984	3,259	493	354	108	2,083	308
1985	2,956	542	366	147	1,990	197
1986	2,815	601	342	128	3,105	284
1987	2,449	440	315	97	3,020	517
1988	3,200	238	290	122	2,155	595
1989	1,947 1/	414	357	156	2,241	632
1990	1,322 1/, 2/	443	422	141	1,933	489
1991	2,650 2/	408	317	156	1,980	256

1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989.

2/ Anhydrous ammonia imports from the former Soviet Union are not reported after calendar year 1989. Data for 1989-91 are no longer comparable with earlier years.

Source: (3).

Table 2--U.S. exports of selected nitrogen fertilizer materials

Year ending June 30	Anhydrous ammonia	Ammonium nitrate	Ammonium sulfate	Urea	Nitrogen solutions
1,000 material tons					
1970	765	81	528	671	NA
1971	598	59	601	374	NA
1972	421	34	558	464	NA
1973	694	21	486	523	NA
1974	532	37	557	323	NA
1975	277	22	572	450	NA
1976	255	61	752	581	NA
1977	291	11	491	368	NA
1978	524	32	652	917	NA
1979	553	83	1,093	1,550	319
1980	776	75	841	1,467	513
1981	816	77	800	2,003	610
1982	758	73	580	1,753	235
1983	426	29	661	1,317	121
1984	390	19	672	1,033	17
1985	1,069	34	829	1,388	7
1986	759	188	721	718	114
1987	1,062	258	1,031	790	123
1988	953	120	943	1,133	806
1989	372 1/	65	842	1,025	680
1990	288 1/	149	933	1,249	429
1991	853	26	993	1,050	447

NA = Not available.

1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. Data for 1989-90 are no longer comparable with other years.

Source: (2).

Table 3--U.S. exports of ammonium phosphates

Year ending June 30	Diammonium phosphate	Monoammonium phosphate	Other 1/	Total
1,000 material tons				
1970	NA	NA	NA	986
1971	NA	NA	NA	1,135
1972	NA	NA	NA	1,542
1973	NA	NA	NA	2,060
1974	NA	NA	NA	2,154
1975	NA	NA	NA	2,242
1976	2,415	NA	307	2,722
1977	2,682	NA	486	3,168
1978	3,534	NA	525	4,059
1979	4,531	NA	470	5,001
1980	4,557	305	272	5,134
1981	5,308	429	150	5,887
1982	4,170	239	54	4,463
1983	4,556	272	41	4,869
1984	5,501	472	28	6,001
1985	7,896	479	66	8,440
1986	6,287	485	57	6,829
1987	5,918	505	78	6,500
1988	6,414	691	25	7,130
1989	7,941	862	37	8,840
1990	9,035	917	119	10,071
1991	9,536	749	103	10,390

NA = Not available.

1/ Included monoammonium phosphate from 1976-79.

Source: (2).

Table 3--U.S. exports of ammonium phosphates

Year ending June 30	Diammonium phosphate	Monoammonium phosphate	Other 1/	Total
1,000 material tons				
1970	NA	NA	NA	986
1971	NA	NA	NA	1,135
1972	NA	NA	NA	1,542
1973	NA	NA	NA	2,060
1974	NA	NA	NA	2,154
1975	NA	NA	NA	2,242
1976	2,415	NA	307	2,722
1977	2,682	NA	486	3,168
1978	3,534	NA	525	4,059
1979	4,531	NA	470	5,001
1980	4,557	305	272	5,134
1981	5,308	429	150	5,887
1982	4,170	239	54	4,463
1983	4,556	272	41	4,869
1984	5,501	472	28	6,001
1985	7,896	479	66	8,440
1986	4,287	485	57	4,829
1987	5,918	505	78	6,500
1988	6,414	691	25	7,130
1989	7,941	862	37	8,840
1990	9,035	917	119	10,071
1991	9,538	749	103	10,390

NA = Not available.

1/ Included monoammonium phosphate from 1976-79.

Source: (2).

Table 5--U.S. exports and imports of selected potash fertilizer materials

Year ending June 30	Exports		Imports	
	Potassium chloride	Potassium sulfate	Potassium chloride	Potassium sulfate
1,000 material tons				
1970	902	186	4,378	70
1971	772	238	4,115	63
1972	859	211	5,082	48
1973	1,247	240	5,250	54
1974	1,264	272	6,767	74
1975	1,015	350	6,359	51
1976	1,188	333	6,466	63
1977	1,296	350	8,211	93
1978	1,230	468	8,215	29
1979	1,166	197	8,441	40
1980	1,189	163	8,970	60
1981	1,048	107	9,132	34
1982	706	97	7,981	31
1983	723	135	7,323	31
1984	567	97	8,574	68
1985	795	88	8,892	68
1986	602	135	7,907	53
1987	797	220	7,066	54
1988	528	324	7,672	83
1989	477	192	6,567	90
1990	423	209	6,703	56
1991	805	237	7,451	68

Sources: (2 and 3).

Table 6--World and U.S. plant nutrient imports

Year ending June 30	Nitrogen			Phosphate			Potash		
	World	United States	U.S. share	World	United States	U.S. share	World	United States	U.S. share
	Million tons	Percent		Million tons	Percent		Million tons	Percent	
1970	7.07	0.86	12.2	2.92	0.27	9.2	9.74	2.65	27.2
1971	7.47	0.93	12.4	2.92	0.28	9.6	10.21	2.51	24.6
1972	7.53	0.84	11.2	3.37	0.33	9.8	11.13	3.09	27.8
1973	8.55	0.88	10.3	3.99	0.31	7.8	12.02	3.19	26.5
1974	8.65	1.07	12.4	4.49	0.32	7.1	14.19	4.11	29.0
1975	8.77	1.20	13.7	4.50	0.27	6.0	14.28	3.85	27.0
1976	8.97	1.22	13.6	4.34	0.22	5.1	13.48	3.91	29.0
1977	9.67	1.84	19.0	4.06	0.25	6.2	15.11	4.96	32.8
1978	11.22	1.87	16.7	4.97	0.23	4.6	16.42	4.95	30.1
1979	13.07	2.17	16.6	6.35	0.24	3.8	16.71	5.09	30.5
1980	13.93	2.57	18.4	6.43	0.24	3.7	17.06	5.40	31.7
1981	14.36	2.80	19.5	7.27	0.22	3.0	17.91	5.23	29.2
1982	13.54	2.57	19.0	6.08	0.20	3.3	17.03	4.91	28.8
1983	14.19	2.77	19.5	7.00	0.13	1.9	16.74	4.51	26.9
1984	16.64	4.02	24.2	7.47	0.10	1.3	17.92	5.29	29.5
1985	18.05	3.73	20.7	9.25	0.14	1.5	19.88	5.48	27.6
1986	18.01	4.14	23.0	9.06	0.11	1.2	18.77	4.87	25.9
1987	18.70	3.81	20.4	8.59	0.11	1.3	19.03	4.35	22.9
1988	20.22	3.98	19.7	10.03	0.16	1.6	21.11	4.74	22.5
1989	21.79	3.21 1/	14.7 1/	10.68	0.07	0.7	21.05	4.07	19.3
1990	22.28	2.43 1/	10.9 1/	11.08	0.07	0.6	20.15	4.16	20.6
1991	NA	3.42 1/	NA	NA	0.05	NA	NA	4.61	NA

NA = Not available.

1/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. Anhydrous ammonia imports from the former Soviet Union are not reported after calendar year 1989. Data for 1989-91 are no longer comparable with earlier years.

Sources: (1 and 3).

Table 7--World and U.S. plant nutrient exports

Year ending June 30	Nitrogen			Phosphate 1/			Potash		
	World	United States	U.S. share	World	United States	U.S. share	World	United States	U.S. share
	Million tons	Percent		Million tons	Percent		Million tons	Percent	
1970	7.19	1.33	18.5	2.99	0.85	28.4	9.95	0.68	6.8
1971	7.51	1.08	14.4	3.16	0.90	28.5	10.44	0.62	5.9
1972	7.89	1.03	13.1	3.69	1.10	29.8	11.48	0.66	5.7
1973	8.99	1.51	16.8	4.32	1.42	32.9	12.37	0.92	7.4
1974	8.85	1.27	14.4	4.54	1.58	34.8	13.65	0.95	7.0
1975	8.98	1.12	12.5	4.83	1.86	38.5	14.30	0.85	5.9
1976	7.82	1.24	15.9	4.25	2.18	51.3	13.10	0.91	6.9
1977	9.39	1.25	13.3	4.81	2.50	52.0	15.15	0.99	6.5
1978	11.29	1.78	15.8	6.16	3.29	53.4	16.48	1.00	6.1
1979	13.12	2.47	18.8	7.10	3.85	54.2	17.45	1.00	5.7
1980	13.12	2.64	20.1	7.50	3.93	52.4	17.25	1.05	6.1
1981	14.50	3.13	21.6	8.27	4.41	53.3	18.43	1.03	5.6
1982	12.74	2.50	19.6	7.11	3.75	52.7	16.43	0.61	3.7
1983	13.47	2.00	14.8	7.91	3.92	49.6	15.73	0.62	3.9
1984	15.30	2.05	13.4	9.00	4.33	48.1	18.22	0.53	2.9
1985	18.37	3.20	17.4	10.26	5.53	53.9	18.86	0.59	3.1
1986	16.84	2.05	12.2	8.41	3.16 2/	37.6 2/	18.39	0.49	2.7
1987	19.18	2.71	14.1	10.52	4.28 2/	40.7 2/	19.36	0.65	3.4
1988	20.32	3.03	14.9	11.04	4.11 2/	37.2 2/	20.46	0.54	2.6
1989	21.51	2.73 3/	12.7 3/	11.32	4.80 2/	42.4	20.39	0.40	2.0
1990	22.22	2.95 3/	13.3 3/	11.84	5.49	46.4	19.25	0.39	2.0
1991	NA	3.37	NA	NA	5.57	NA	NA	0.63	NA

NA = Not available.

1/ Does not include phosphate rock.

2/ Includes both wet-process phosphoric acid and superphosphoric acid. Reporting of superphosphoric acid exports were discontinued during July 1985-December 1988. Data for 1986-89 are no longer comparable with other years.

3/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989. Data for 1989-90 are no longer comparable with other years.

Sources: (1 and 2).

Table 8--U.S. imports of anhydrous ammonia, selected markets and years 1/

Country of origin 2/	1970	1975	1980	1985	1986	1987	1988	1989 3/	1990 3/	1991
Short tons										
Canada	182,741	92,370	542,816	998,476	1,208,432	1,167,792	1,493,341	774,014	629,238	1,115,834
Mexico	0	4,981	383,906	186,644	130,349	24,644	207,403	190,018	149,534	550,208
Bermuda	0	0	0	0	0	0	0	0	0	12,000
Netherlands Antilles	17,389	80,563	8,774	0	9,508	0	0	0	0	0
Trinidad-Tobago	272,013	143,427	345,569	701,288	470,441	378,461	372,443	448,344	441,458	969,865
Central America 4/	289,402	228,971	738,249	887,932	610,298	403,105	579,846	638,362	590,992	1,532,073
Venezuela	0	15,971	650	44,109	20,939	17,412	13,791	0	61,486	0
South America, other	0	7,495	0	0	0	3,231	141	0	5,637	0
South America	0	23,466	650	44,109	20,939	20,643	13,932	0	67,123	0
Belgium	0	32,359	0	0	0	0	0	0	0	0
Italy	0	0	0	78,725	139,086	160,430	189,462	500	0	451
Netherlands	5,020	42,087	11,254	12,202	0	0	0	0	0	0
Europe, other	0	11,909	0	0	322	0	6,353	6,590	375	19
Europe	5,020	86,355	11,254	90,927	139,408	160,430	195,815	7,090	375	470
Former Soviet Union 5/	0	0	925,685	934,964	803,097	687,916	916,628	470,829	0	0
Iran	0	14,301	0	0	0	0	0	0	0	0
Japan	0	54,141	0	0	0	0	0	0	364	1,756
Kuwait	0	17,149	0	0	0	0	0	0	34,090	0
Qatar	0	13,730	0	0	23,500	0	0	0	0	0
United Arab Emirates	0	17,630	0	0	0	0	0	56,277	0	0
Asia, other	0	0	79	0	8,909	8,837	0	553	0	0
Asia	0	116,951	79	0	32,409	8,837	0	56,830	34,454	1,756
Australia	26	50,179	0	0	0	0	0	0	0	0
Africa	0	0	0	0	56	160	40	58	0	0
Total	477,189	598,292	2,218,733	2,956,408	2,814,639	2,448,883	3,199,602	1,947,183	1,322,182	2,650,132

See footnotes at end of table.

Continued-

Table 8--U.S. imports of anhydrous ammonia, selected markets and years--continued 1/

Country of origin 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	38	15	24	34	43	48	47	40	48	42
Mexico	0	1	17	6	5	1	6	10	11	21
Bermuda	0	0	0	0	0	0	0	0	0	6/
Netherlands Antilles	4	13	6/	0	6/	0	0	0	0	0
Trinidad-Tobago	57	24	16	24	17	15	12	23	33	37
Central America 4/	61	38	33	30	22	16	18	33	45	58
Venezuela	0	3	6/	1	1	1	6/	0	5	0
South America, other	0	1	0	0	0	6/	6/	0	6/	0
South America	0	4	6/	1	1	1	6/	0	5	0
Belgium	0	5	0	0	0	0	0	0	0	0
Italy	0	0	0	3	5	7	6	6/	0	6/
Netherlands	1	7	1	6/	0	0	0	0	0	0
Europe, other	0	2	0	0	6/	0	6/	6/	0	0
Europe	1	14	1	3	5	7	6	6/	6/	6/
Former Soviet Union 5/	0	0	42	32	29	28	29	24	0	0
Iran	0	2	0	0	0	0	0	0	0	0
Japan	0	9	0	0	0	0	0	0	6/	6/
Kuwait	0	3	0	0	0	0	0	0	3	0
Qatar	0	2	0	0	1	0	0	0	0	0
United Arab Emirates	0	3	0	0	0	0	0	3	0	0
Asia, other	0	0	6/	0	6/	6/	0	6/	0	0
Asia	0	20	6/	0	1	6/	0	3	3	0
Australia	6/	8	0	0	0	0	0	0	0	0
Africa	0	0	0	0	6/	6/	6/	6/	0	0
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30. Data for calendar year 1989 were not reported.

2/ Specific countries listed include those that have supplied at least 10,000 short tons of material in any selected year.

3/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989.

4/ Central America includes Caribbean countries.

5/ Anhydrous ammonia imports from the former Soviet Union not reported after calendar year 1989. Data for 1989-91 are no longer comparable with earlier years.

6/ Less than 0.5 percent.

Source: (3).

Table 9--U.S. imports of urea, selected markets and years 1/

Country of origin 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	170,437	149,462	740,927	879,289	1,021,309	1,233,413	1,187,147	1,102,366	1,299,511	1,265,964
Cayman Islands	0	0	0	13,809	28,688	9,138	0	0	0	0
Mexico	1,939	2,155	0	2,054	26,917	25,348	78,764	35,358	99,020	153,419
Netherlands Antilles	8,397	0	12,075	0	0	0	0	0	0	0
Trinidad-Tobago	63,099	56,458	39,922	43,688	72,273	117,957	262,590	118,903	108,079	161,685
Central America, other	0	0	0	0	17	0	0	173	0	0
Central America 3/	73,435	58,613	51,997	59,551	127,895	152,443	341,354	154,434	207,099	315,104
Brazil	0	0	0	0	0	0	75	39,253	24,004	0
Venezuela	0	0	0	11,491	27,224	81,991	123,656	107,269	89,302	38,989
South America, other	0	0	0	0	0	0	0	0	0	0
South America	0	0	0	11,491	27,224	81,991	123,731	146,522	113,306	38,989
Belgium-Luxembourg	39,691	11,110	9,020	0	0	2,755	10	21,892	0	1,452
Bulgaria	0	0	0	0	0	0	0	67,619	73,094	62,963
France	0	0	0	0	0	0	0	22,403	14,182	9,438
Finland	0	0	11,684	0	0	0	0	0	0	22
Germany:										
Former East Germany	0	0	0	44,643	200,646	67,559	0	0	11,434	0
Former West Germany	6	11,146	33,768	33,669	56,595	29,956	118,793	28,959	82	99,630
Ireland	0	0	13,986	0	60,876	0	0	22,431	16,316	0
Italy	14,143	51,721	1	59,394	27,144	182,474	28,278	119,458	29,106	39,941
Netherlands	82,453	421,329	202,945	130,795	180,104	236,986	181,289	145,559	55,944	71,663
Norway	37,720	84,837	37,935	7,718	4,600	1,102	0	0	0	0
Romania	0	0	32,849	346,581	409,975	111,977	0	0	0	0
United Kingdom	0	0	0	0	0	0	0	12,662	0	12
Yugoslavia	0	0	0	0	0	0	0	32,853	46,204	0
Europe, other	56	10,448	39	6	1,383	89,723	20,120	48	76	99
Europe	174,069	590,591	342,227	622,806	941,323	723,672	348,621	473,884	246,438	285,220
Former Soviet Union	0	0	0	357,171	706,455	362,322	1,105	0	0	24
Indonesia	0	0	0	0	23,234	33,629	0	0	0	0
Japan	5,636	5,008	407	156	417	136	118	35,297	913	786
Kuwait	0	0	0	0	0	114,919	7,317	0	0	0
Malaysia	0	0	0	0	22,567	55,686	48,599	71,778	32	0
Qatar	0	0	0	13,806	113,584	60,058	0	85,708	65,693	0
Saudi Arabia	0	0	0	0	52,907	0	0	13,641	0	48,229
United Arab Emirates	0	0	0	0	0	117,946	23,148	48,115	0	0
Asia, other	0	8,168	459	106	10	0	334	463	2	12
Asia	5,636	13,176	866	14,068	212,719	382,374	79,516	255,002	66,640	49,027
New Zealand	0	0	0	36,630	67,622	84,115	21,991	19,657	0	0
Oceania, other	0	0	0	0	115	0	22	0	22	0
Oceania	0	0	0	36,630	67,737	84,115	22,013	19,657	22	0
Nigeria	0	0	0	0	0	0	51,872	88,918	0	25,515
Africa, other	0	0	0	8,737	0	0	8	237	0	0
Africa	0	0	0	8,737	0	0	51,880	89,155	0	25,515
Total	423,577	811,842	1,136,017	1,989,743	3,404,662	3,020,330	2,155,367	2,241,020	1,933,016	1,979,843

See footnotes at end of table.

Continued-

Table 9--U.S. imports of urea, selected markets and years--continued 1/

Country of origin 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	40	18	65	44	33	41	55	49	67	64
Cayman Islands	0	0	0	1	1	4/	0	0	0	0
Mexico	4/	4/	0	4/	1	1	4	2	5	8
Netherlands Antilles	2	0	1	0	0	0	0	0	0	0
Trinidad-Tobago	15	7	4	2	2	4	12	5	6	8
Central America, other	0	0	0	0	4/	0	0	4/	0	0
Central America 3/	17	7	5	3	4	5	16	7	11	16
Brazil	0	0	0	0	0	0	4/	2	1	0
Venezuela	0	0	0	1	1	3	6	5	5	0
South America, other	0	0	0	0	0	0	9	0	0	0
South America	0	0	0	1	1	3	6	7	6	2
Belgium-Luxembourg	9	1	1	0	0	4/	4/	1	0	4/
Bulgaria	0	0	0	0	0	0	0	3	4	3
France	0	0	0	0	0	0	0	1	1	4/
Finland	0	0	1	0	0	0	0	0	0	4/
Germany:										
Former East Germany	0	0	0	2	6	2	0	0	1	0
Former West Germany	4/	1	3	2	2	1	6	1	4/	5
Ireland	0	0	1	0	2	0	0	1	1	0
Italy	3	6	4/	3	1	6	1	5	2	2
Netherlands	19	52	18	7	6	8	8	6	3	4
Norway	9	10	3	0	0	0	0	0	0	0
Romania	0	0	3	17	13	4	0	0	0	0
United Kingdom	0	0	0	0	0	0	0	1	0	4/
Yugoslavia	0	0	0	0	0	3	1	1	2	0
Europe, other	4/	1	4/	4/	4/	4/	4/	4/	4/	4/
Europe	41	73	30	31	30	24	16	21	13	14
Former Soviet Union	0	0	0	18	23	12	0	0	0	0
Indonesia	0	0	0	0	1	1	4/	0	0	0
Japan	1	1	4/	4/	4/	4/	0	2	4/	4/
Kuwait	0	0	0	0	0	4	0	0	0	0
Malaysia	0	0	0	0	1	2	2	3	4/	0
Qatar	0	0	0	1	4	2	0	4	3	0
Saudi Arabia	0	0	0	0	2	0	0	1	0	2
United Arab Emirates	0	0	0	0	0	4	1	2	0	0
Asia, other	0	1	4/	4/	4/	0	4/	4/	4/	4/
Asia	1	2	0	1	7	13	4	11	3	2
New Zealand	0	0	0	2	2	3	1	1	0	0
Oceania, other	0	0	0	0	4/	0	4/	0	4/	0
Oceania	0	0	0	2	2	3	1	1	4/	0
Nigeria	0	0	0	0	0	0	2	4	0	1
Africa, other	0	0	0	4/	0	0	4/	4/	0	0
Africa	0	0	0	4/	0	0	2	4	0	1
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that have supplied at least 10,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Less than 0.5 percent.

Source: (3).

Table 10--U.S. exports of anhydrous ammonia, selected markets and years 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989 3/	1990 3/	1991
Short tons										
Canada	356	15,875	49,012	46,679	18,008	15,118	9,145	4,227	5,065	20,091
Mexico	23,366	43,225	28,194	49,662	22	110,188	49,373	0	0	1,437
Trinidad-Tobago	16,976	61,781	0	0	19,288	0	4	0	0	0
Central America, other	2,161	340	13,204	742	22,464	6,050	25,391	536	2,385	2,616
Central America 4/	42,503	105,346	41,398	50,404	41,774	116,238	74,768	536	2,385	4,053
Brazil	13,905	50,943	97,346	18,762	0	22,412	20,931	0	0	17,023
South America, other	121	6	64	1,665	141	34	14,241	8	197	352
South America	14,026	50,949	97,410	20,427	141	22,446	35,172	8	197	17,375
Belgium-Luxembourg	137,373	0	27,831	164,127	33,069	118,711	55,145	76,992	62,343	102,444
Denmark	76,427	0	7,881	0	0	0	9,259	0	0	0
Finland	60,632	0	166,858	0	17,674	17,666	95,085	0	0	0
France	0	41,920	18,584	67,123	413	0	0	0	8,820	0
Netherlands	82,690	0	16,298	46,118	14	0	31	0	15,536	0
Norway	59,035	0	45,998	12,671	0	76,383	117,928	22,858	21,554	31,712
Portugal	0	0	0	0	44,115	0	0	0	0	0
Spain	63,540	7,620	48,189	62,505	136,005	85,873	40,625	0	0	0
Sweden	0	0	0	0	0	25,289	0	0	0	0
Turkey	0	9,996	119,916	16,310	44,698	0	0	0	0	0
United Kingdom	143,784	21	35	1	13	4	83	0	0	54
West Germany	0	0	46,571	0	9	11,023	0	0	0	0
Europe, other	7,568	10,251	14,822	0	0	20,360	0	0	0	141
Europe	631,049	69,808	512,983	368,855	276,010	355,309	318,156	99,850	108,253	134,351
Philippines	8,188	0	0	51,305	22,020	3,823	0	0	0	19,658
South Korea	0	0	0	379,860	241,115	329,408	256,655	170,176	84,102	460,290
Taiwan	0	24	0	51,943	51,728	35,594	21,761	16,569	0	312
Asia, other	29,194	110	179	38,533	17,756	9,049	72	18	735	693
Asia	37,382	134	179	521,641	332,619	377,874	278,488	186,763	84,837	480,953
Oceania	10,746	0	41	0	0	11,024	5	0	0	21,822
Algeria	26,963	15,169	14,509	0	0	0	0	0	0	0
Morocco	0	0	0	8,101	0	4,409	26,761	8,748	0	0
Mozambique	0	0	35,947	0	0	5,538	0	0	0	0
South Africa	0	0	0	35,598	0	71,248	109,906	62,342	87,130	173,750
Tunisia	0	0	0	6,350	83,175	67,526	76,719	0	0	0
Africa, other	1,624	508	24,282	10,585	7,363	15,301	24,164	9,967	294	209
Africa	28,587	15,677	74,738	60,634	90,538	164,022	237,550	81,057	87,424	173,959
Total	764,649	257,789	775,761	1,068,640	759,090	1,062,031	953,284	372,441	288,161	852,604

See footnotes at end of table.

Continued-

Table 10--U.S. exports of anhydrous ammonia, selected markets and years--continued 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	5/	6	6	4	2	1	1	1	2	2
Mexico	3	17	4	5	5/	10	5	0	0	5/
Trinidad-Tobago	2	24	0	0	3	0	5/	0	0	0
Central America, other	5/	5/	2	0	3	1	3	5/	1	5/
Central America 4/	6	41	5	5	6	11	8	5/	1	5/
Brazil	2	20	13	2	0	2	2	0	0	2
South America, other	5/	5/	5/	5/	5/	5/	1	5/	5/	5/
South America	2	20	13	2	5/	2	4	5/	5/	2
Belgium-Luxembourg	18	0	4	15	4	11	6	21	22	12
Denmark	10	0	1	0	0	0	1	0	0	0
Finland	8	0	22	0	2	2	10	0	0	0
France	0	16	2	6	0	0	0	0	3	0
Netherlands	11	0	2	4	0	0	5/	0	5	0
Norway	8	0	6	1	0	7	12	6	7	4
Portugal	0	0	0	0	6	0	0	0	0	0
Spain	8	3	6	6	18	8	4	0	0	0
Sweden	0	0	0	0	0	2	0	0	0	0
Turkey	0	4	15	2	6	0	0	0	0	0
United Kingdom	19	5/	5/	5/	5/	5/	5/	0	5/	5/
West Germany	0	0	6	0	5/	1	0	0	0	0
Europe, other	1	4	2	0	0	2	0	0	0	5/
Europe	83	27	66	35	36	33	33	27	38	16
Philippines	1	0	0	5	3	5/	0	0	0	2
South Korea	0	0	0	36	32	31	27	46	29	54
Taiwan	0	5/	0	5	7	3	2	4	0	5/
Asia, other	4	5/	5/	4	2	1	5/	5/	5/	5/
Asia	5	5/	5/	49	44	36	29	50	29	56
Oceania	1	0	5/	0	0	1	5/	0	0	3
Algeria	4	6	2	0	0	0	0	0	0	0
Morocco	0	0	0	1	0	0	3	2	0	0
Mozambique	0	0	5	0	0	1	0	0	0	0
South Africa	0	0	0	3	0	7	12	17	30	20
Tunisia	0	0	0	1	11	6	8	0	0	0
Africa, other	5/	5/	3	1	1	1	3	3	5/	5/
Africa	4	6	10	6	12	15	25	22	30	20
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30. Data for calendar year 1989 were not reported.

2/ Specific countries listed include those that received at least 25,000 short tons of material in any selected year.

3/ Reporting of quantity data for anhydrous ammonia was discontinued during calendar year 1989.

4/ Central America includes Caribbean countries.

5/ Less than 0.5 percent.

Source: (2).

Table 11--U.S. exports of urea, selected markets and years 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	777	5,828	85,561	146,463	100,530	98,082	65,360	80,671	87,431	97,069
Costa Rica	0	6,378	22,720	13,299	21,609	1,590	13,133	22,733	36,321	37,807
Dominican Republic	0	11,282	45,951	22,209	3,288	0	0	0	0	6,053
Guatemala	0	19,597	35,425	23,902	57,080	22,638	0	30,300	40,775	4,332
Mexico	12,417	0	101,379	0	99	16,784	129	527	144	129
Central America, other	1,937	16,927	58,306	36,980	22,584	36,056	4,240	12,801	26,795	38,855
Central America 3/	14,354	54,184	263,781	96,390	104,660	77,068	17,502	66,361	104,035	87,176
Brazil	69	13,758	425,645	3,306	0	0	0	7,874	8,781	0
Chile	0	3,011	84,230	102,016	76,428	146,003	180,713	156,360	135,938	162,108
Colombia	0	0	17,734	31,006	63,709	24,904	36,897	34,515	23,218	11,582
Ecuador	0	0	4,794	27,926	37,824	19,825	0	14,865	8,656	0
Peru	0	79	0	452	104	128	232	16697	58683	0
South America, other	3,099	4,625	14,467	9,965	63	41	2,267	163	0	22,846
South America	3,168	21,473	546,870	174,671	178,128	190,901	220,109	230,474	235,276	196,536
Belgium-Luxembourg	0	22	9	0	0	18	56,508	0	10	16,534
France	3,850	3,492	417	0	0	44,123	63,597	30,414	215,501	92,633
United Kingdom	0	0	926	0	9	0	29,187	0	40,306	46
West Germany	12	26	48	88	0	832	35,258	748	1,411	852
Europe, other	941	0	4,317	6,444	42	5,792	3,075	323	0	60
Europe	4,803	3,540	5,717	6,532	51	50,765	187,625	31,485	257,228	110,125
Bangladesh	0	606	0	118,433	0	0	0	0	12	0
China	0	0	191,048	132,133	64,761	241,708	567,387	401,524	404,185	488,188
Hong Kong	0	0	0	38,598	86,969	84	0	71,319	39,010	0
India	227,306	64,998	225,595	338,401	56,620	0	0	24,759	0	0
Indonesia	61,664	145,038	0	102,203	0	0	0	0	0	0
Japan	0	0	1,337	9,100	11,710	3,456	29,481	48,318	8,578	48,264
Malaysia	0	0	0	36,264	0	0	0	0	0	0
Pakistan	358,292	0	0	0	0	0	0	0	0	0
Philippines	0	32,243	45,456	46,574	48,762	46,044	0	0	25,692	0
Vietnam	0	96,710	0	0	0	0	0	0	0	0
Asia, other	400	25,359	23,694	33,934	406	36,557	4,268	44	37	19
Asia	647,662	364,954	487,130	855,640	269,228	327,849	601,136	545,964	477,514	536,471
Australia	0	0	28,507	43,041	44,799	24,300	35,116	63,877	69,632	22,323
Oceania, other	0	0	196	182	0	0	0	0	22	0
Oceania	0	0	28,703	43,223	44,799	24,300	35,116	63,877	69,654	22,323
Sudan	0	0	0	62,410	0	0	0	0	0	0
Zambia	0	0	32,610	0	0	0	0	0	0	0
Africa, other	77	3	16,911	2,506	20,939	21,413	6,433	5,962	18,066	0
Africa	77	3	49,521	64,916	20,939	21,413	6,433	5,962	18,066	0
Total	670,841	449,982	1,467,283	1,387,835	718,335	790,378	1,133,281	1,024,794	1,249,204	1,049,700

See footnotes at end of table.

Continued-

Table 11--U.S. exports of urea, selected markets and years--continued 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	4/	1	6	11	14	12	6	8	7	9
Costa Rica	0	1	2	1	3	0	1	2	3	4
Dominican Republic	0	3	3	2	4/	0	0	0	0	1
Guatemala	0	4	2	2	8	3	0	3	3	4/
Mexico	2	0	7	0	4/	2	4/	4/	4/	4/
Central America, other	4/	4	4	3	3	5	4/	1	2	4
Central America 3/	2	12	18	7	15	10	2	6	8	8
Brazil	4/	3	29	4/	0	0	0	1	1	0
Chile	0	1	6	7	11	18	16	15	11	15
Colombia	0	0	1	2	9	3	3	3	2	1
Ecuador	0	0	4/	2	5	3	4/	1	1	0
Peru	0	4/	0	4/	4/	4/	4/	2	5	0
South America, other	4/	1	1	1	4/	4/	4/	4/	0	2
South America	4/	5	37	13	25	24	19	22	19	19
Belgium-Luxembourg	0	4/	4/	0	0	4/	5	0	4/	2
France	1	1	4/	0	0	6	6	3	17	9
United Kingdom	0	0	4/	0	4/	0	3	0	3	4/
West Germany	4/	4/	4/	4/	0	4/	3	4/	4/	4/
Europe, other	4/	0	4/	4/	4/	1	4/	4/	0	4/
Europe	1	1	4/	4/	4/	6	17	3	21	10
Bangladesh	0	4/	0	9	0	0	0	0	4/	0
China	0	0	13	10	9	31	50	39	32	47
Hong Kong	0	0	0	3	12	4/	0	7	3	0
India	34	14	15	24	8	0	0	2	0	0
Indonesia	9	32	0	7	0	0	0	0	0	0
Japan	0	0	4/	1	2	4/	3	5	1	5
Malaysia	0	0	0	3	0	0	0	0	0	0
Pakistan	53	0	0	0	0	0	0	0	0	0
Philippines	0	7	3	3	7	6	0	0	2	0
Vietnam	0	21	0	0	0	0	0	0	0	0
Asia, other	4/	6	2	2	4/	5	4/	4/	4/	4/
Asia	97	81	33	62	37	41	53	53	38	51
Australia	0	0	2	3	6	3	3	6	6	2
Oceania, other	0	0	4/	4/	0	0	0	0	4/	0
Oceania	0	0	2	3	6	3	3	6	6	2
Sudan	0	0	0	4	0	0	0	0	0	0
Zambia	0	0	2	0	0	0	0	0	0	0
Africa, other	4/	4/	1	4/	3	3	1	1	1	0
Africa	4/	4/	3	5	3	3	1	1	1	0
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that received at least 25,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Less than 0.5 percent.

Source: (2).

Table 12--U.S. exports of ammonium sulfate, selected markets and years 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	18,655	31,408	15,064	10,336	31,311	8,691	18,056	13,416	19,701	24,477
Dominican Republic	28,727	71,348	85,577	76,019	67,039	74,301	72,655	67,455	81,569	60,516
El Salvador	16,177	73,169	26,819	152,966	97,416	90,362	38,421	108,354	217,577	142,540
Guatemala	16	6,051	15,852	27,676	53,549	55,561	39,271	5,689	94,658	87,814
Mexico	486	162,142	52	86	275	209	1,082	1,408	726	2,334
Central America, other	9,735	21,294	11,713	29,215	15,761	17,087	9,418	17,874	13,887	23,679
Central America 3/	55,141	334,004	140,013	285,962	234,040	237,520	160,847	200,780	408,417	316,883
Brazil	91,426	128,042	604,246	328,906	296,164	560,053	476,677	479,158	274,009	399,416
Peru	11,087	0	24,509	9,025	25,897	40,015	11,583	11,903	94	14,064
South America, other	17,625	83	20,838	12,862	14,238	13,455	30,127	28,880	36,103	16,122
South America	120,138	128,125	649,593	350,793	336,299	613,523	518,387	519,941	310,206	429,602
Belgium-Luxembourg	0	0	0	0	14,880	37,542	0	0	0	0
Turkey	0	0	0	129,196	88,030	21,736	78,280	36,137	97,397	155,852
Europe, other	5,978	62	26	194	212	22,903	103	18,773	17,484	0
Europe	5,978	62	26	129,390	103,122	82,181	78,383	54,910	114,881	155,852
China	0	34,471	82	0	0	0	0	0	0	0
India	281,827	5,514	4,884	19,675	0	0	0	0	0	0
Philippines	14	22,205	367	119	20	501	28,322	0	0	0
Sri Lanka	34,369	0	0	0	0	0	0	0	0	0
Thailand	0	0	60	0	0	0	0	0	0	0
Asia, other	12,166	1,363	0	22,211	56	0	62,829	28,791	30,034	30,739
Asia	328,376	63,553	5,393	42,005	76	501	96,756	28,791	30,272	31,363
New Zealand	60	18	13,110	10,325	14,818	20,616	32,885	23,927	49,165	27,546
Oceania, other	5	38	11,595	0	0	16,496	3,472	0	0	8,091
Oceania	65	56	24,705	10,325	14,818	37,112	36,357	23,927	49,165	35,637
Egypt	0	0	0	0	0	0	33,183	0	0	0
Tunisia	0	0	0	0	0	37,325	73	0	0	0
Africa, other	91	3,127	6,094	420	1,025	14,106	968	0	0	0
Africa	91	3,127	6,094	420	1,025	51,431	34,224	0	0	0
Total	528,444	560,335	840,888	829,231	720,691	1,030,959	943,010	841,764	932,641	993,813

See footnotes at end of table.

Continued-

Table 12--U.S. exports of ammonium sulfate, selected markets and years--continued 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	4	6	2	1	4	1	2	2	2	2
Dominican Republic	5	13	10	9	9	7	8	8	9	6
El Salvador	3	13	3	18	14	9	4	13	23	14
Guatemala	4/	1	2	3	7	5	4	1	10	9
Mexico	4/	29	4/	4/	4/	4/	4/	4/	4/	4/
Central America, other	2	4	1	4	2	2	1	2	1	2
Central America 3/	10	60	17	34	32	23	17	24	44	32
Brazil	17	23	72	40	41	54	51	57	29	40
Peru	2	0	3	1	4	4	1	1	4/	1
South America, other	3	4/	2	2	2	1	3	3	4	2
South America	23	23	77	42	47	60	55	62	33	43
Belgium-Luxembourg	0	0	0	0	2	4	0	0	0	0
Turkey	0	0	0	16	12	2	8	4	10	16
Europe, other	1	4/	4/	4/	4/	2	4/	2	2	0
Europe	1	4/	4/	16	14	8	8	7	12	16
China	0	6	4/	0	0	0	0	0	0	0
India	53	1	1	2	0	0	0	0	0	0
Philippines	4/	4	4/	4/	4/	4/	3	0	0	0
Sri Lanka	7	0	0	0	0	0	0	0	0	0
Thailand	0	0	4/	0	0	0	7	3	3	3
Asia, other	2	4/	0	3	4/	0	1	0	4/	4/
Asia	62	11	1	5	4/	4/	10	3	3	3
New Zealand	4/	4/	2	1	2	2	3	3	5	3
Oceania, other	4/	4/	1	0	0	2	4/	0	0	1
Oceania	4/	4/	3	1	2	4	4	3	5	4
Egypt	0	0	0	0	0	0	4	0	0	0
Tunisia	0	0	0	0	0	4	0	0	0	0
Africa, other	4/	1	1	4/	4/	1	4/	0	0	0
Africa	4/	1	1	4/	4/	5	4	0	0	0
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that received at least 25,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Less than 0.5 percent.

Source: (2).

Table 13--U.S. exports of diammonium phosphate, selected markets and years 1/

Country of destination 2/	1976 3/	1980	1985	1986	1987	1988	1989	1990	1991
Short tons									
Canada	111,689	130,303	158,910	167,253	178,222	222,532	701,357	236,401	255,358
Mexico	3,564	164,095	343,860	91,802	65,088	6,218	74,859	0	27,595
Central America, other	87,459	133,855	122,449	87,455	119,757	111,352	95,387	161,323	146,670
Central America 4/	91,023	297,950	466,309	179,257	184,845	117,570	170,246	161,323	174,265
Argentina	12,145	107,319	58,236	78,895	104,078	130,528	51,203	86,869	117,637
Brazil	465,434	629,143	85,398	61,317	191,780	90,575	42,182	13,192	47,605
Chile	14,054	35,131	53,732	78,522	98,772	102,851	72,531	67,518	65,179
Colombia	0	45,513	81,797	122,299	120,485	148,400	142,754	151,960	134,294
Venezuela	5	13,227	11,562	0	101,740	172,229	79,811	105,094	0
South America, other	40,845	124,253	102,085	100,480	133,400	128,911	113,556	76,454	69,963
South America	532,483	954,586	392,810	441,513	750,255	773,494	502,037	501,087	434,678
Belgium-Luxembourg	76,092	343,983	684,180	403,779	688,050	548,174	485,919	277,667	508,251
France	226,863	215,146	26,317	39,679	111,362	177,737	39,530	47,925	36,434
Italy	538,463	704,153	179,915	271,244	200,950	284,937	142,487	121,963	17,953
Spain	22,206	130,941	0	0	106,950	181,259	78,502	109,388	94,183
Turkey	0	66,407	23,038	280,887	440,440	336,585	194,572	527,791	273,886
West Germany	0	37,948	45,956	152,663	168,339	96,367	37,692	81,923	57,185
Yugoslavia	0	54,566	101,510	77,148	44,563	70,470	31,077	40,231	30,951
Europe, other	54,412	47,257	110,880	113,923	139,817	128,582	136,184	37,386	66,161
Europe	918,036	1,600,401	1,171,796	1,339,323	1,900,471	1,824,111	1,145,963	1,244,274	1,085,004
China	0	112,665	1,543,467	246,534	1,194,110	2,095,253	2,139,070	2,751,193	4,258,101
Hong Kong	0	0	117,283	0	0	32	108	31,719	188
India	288,802	741,067	1,878,945	999,666	311,376	0	1,470,690	2,370,976	1,464,217
Iran	54,138	0	29,089	0	0	180,758	371,858	80,234	232,880
Japan	64,147	153,271	581,143	209,080	226,629	482,471	399,464	486,423	433,136
Pakistan	183,674	187,266	362,813	415,941	695,133	306,173	547,906	670,552	529,994
South Korea	2,738	0	100,114	0	0	0	18,116	0	0
Taiwan	16,916	0	632,105	0	116	584	1,649	0	0
Asia, other	43,556	99,036	98,141	12,193	136,936	137,081	96,744	81,325	149,082
Asia	653,971	1,293,305	5,343,100	1,883,414	2,564,300	3,202,352	5,045,605	6,472,422	7,067,598
Australia	404	24,278	257,564	194,952	248,784	128,520	264,506	260,003	377,283
Oceania, other	17,037	23,063	24,602	22,735	36,131	36,561	29,212	36,144	42,146
Oceania	17,441	47,341	282,166	217,687	284,915	165,081	293,718	296,147	419,429
Africa	89,862	233,098	81,243	58,437	54,763	109,227	82,253	123,207	101,937
Total	2,414,505	4,556,984	7,896,334	4,286,884	5,917,771	6,414,367	7,941,180	9,034,862	9,538,269

See footnotes at end of table.

Continued-

Table 13--U.S. exports of diammonium phosphate, selected markets and years--continued 1/

Country of destination 2/	1976 3/	1980	1985	1986	1987	1988	1989	1990	1991
	Percent								
Canada	5	3	2	4	3	3	9	3	3
Mexico	5/	4	4	2	1	5/	1	0	5/
Central America, other	4	3	2	2	2	2	1	2	2
Central America 4/	4	7	6	4	3	2	2	2	2
Argentina	1	2	1	2	2	2	1	1	1
Brazil	19	14	1	1	3	1	1	5/	5/
Chile	1	1	1	2	2	2	1	1	1
Colombia	0	1	1	3	2	2	2	2	1
Venezuela	5/	5/	5/	0	2	3	1	1	0
South America, other	2	3	1	2	2	2	1	1	1
South America	22	21	5	10	13	12	6	6	5
Belgium-Luxembourg	3	8	9	9	12	9	6	3	5
France	9	5	5/	1	2	3	5/	1	5/
Italy	22	15	2	6	3	4	2	1	5/
Spain	1	3	0	0	2	3	1	1	1
Turkey	0	1	5/	7	7	5	2	6	3
West Germany	0	1	1	4	3	2	5/	1	1
Yugoslavia	0	1	1	2	1	1	5/	5/	5/
Europe, other	2	1	1	3	2	2	2	5/	1
Europe	38	35	15	31	32	28	14	14	11
China	0	2	20	6	20	33	27	30	45
Hong Kong	0	0	1	0	0	5/	5/	5/	5/
India	12	16	24	23	5	0	19	26	15
Iran	2	0	5/	0	0	3	5	1	2
Japan	3	3	7	5	4	8	5	5	5
Pakistan	8	4	5	10	12	5	7	7	6
South Korea	5/	0	1	0	0	0	5/	0	0
Taiwan	1	0	8	0	5/	5/	5/	0	0
Asia, other	2	2	1	5/	2	2	1	1	2
Asia	27	28	68	44	43	50	64	72	74
Australia	5/	1	3	5	4	2	3	3	4
Oceania, other	1	1	5/	1	1	1	5/	5/	5/
Oceania	1	1	4	5	5	3	4	3	4
Africa	4	5	1	1	1	2	1	1	1
Total	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that received at least 100,000 short tons of material in any selected year.

3/ Information on diammonium phosphate exports not available before fertilizer year 1976.

4/ Central America includes Caribbean countries.

5/ Less than 0.5 percent.

Source: (2).

Table 14--U.S. exports of concentrated superphosphate, selected markets and years 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	23,681	18,305	79,524	322,609	303,486	666,000	354,422	46,078	24,910	18,579
Costa Rica	5,726	1,648	16,289	7,148	8,720	11,003	6,628	8,753	14,396	31,273
Mexico	12,871	22	0	0	269,002	26,396	0	0	0	0
Central America, other	8,451	19,242	17,476	32,880	36,557	21,005	12,945	9,905	2,201	9,375
Central America 3/	27,048	20,912	33,765	40,028	314,279	58,404	19,573	18,658	16,597	40,648
Argentina	9,208	7,111	37,386	3,307	4,400	19,641	4,066	15,493	10,469	7,156
Brazil	177,940	290,586	405,870	41,497	60,617	239,899	170,792	58,839	1,829	81,762
Chile	163,951	154,431	107,725	146,849	136,127	201,299	234,100	118,227	164,765	132,850
Colombia	33,604	21,603	20,691	13,054	18,181	20,494	19,395	6,904	11,167	8,493
Peru	66	13,792	13,103	19,203	17,230	27,834	31,716	9,239	13,879	0
Venezuela	3,134	19,006	40,259	2,710	0	0	1,652	0	17,349	0
South America, other	7,133	8,804	28,686	6,040	23,130	34,610	13,253	3,972	22,566	13,083
South America	395,036	515,333	653,720	232,660	259,685	543,777	474,974	212,674	242,024	244,144
Belgium-Luxembourg	1,543	0	130,286	131,699	18,186	51,879	28,901	0	0	0
Bulgaria	0	0	0	75,776	22,044	50,581	25,353	0	93	0
Czechoslovakia	0	0	0	142,791	121,541	134,567	0	26,680	7,013	0
France	2,425	37,999	94,138	33,834	0	3,472	0	0	20,054	0
Ireland	0	0	51,257	49,699	19,447	33,430	0	0	12,124	0
Netherlands	37,484	0	0	0	0	0	0	0	0	0
Poland	52,150	104,699	0	0	0	0	0	0	0	0
Romania	0	0	0	0	0	11,573	16,870	0	0	0
Turkey	15,792	0	25,352	0	0	0	0	0	67,823	0
West Germany	8,777	0	142,499	78,559	21,389	16	0	0	0	0
Europe, other	34,431	32,250	23,132	28,273	3,630	19,778	0	0	130,677	0
Europe	152,602	174,948	466,664	540,631	206,237	305,296	71,124	26,680	244,791	8
Bangladesh	0	21,521	0	294,428	121,444	0	84,162	253,282	29,754	184,052
China	0	0	138,596	0	0	0	0	0	0	5,967
Indonesia	25,496	178,402	9,921	0	0	0	0	0	28,929	32,301
Japan	30,333	11,912	35,403	33,388	43,640	44,157	77,377	62,472	42,834	45,388
Pakistan	38,684	0	0	0	0	0	0	18,704	0	0
Singapore	0	0	118,072	0	0	3,621	0	0	0	0
South Korea	0	94,613	0	13	0	0	0	0	0	0
Sri Lanka	0	32,369	0	0	0	0	0	0	0	0
Asia, other	17,381	35,972	11,806	20,735	5,523	17,162	25,156	49,457	0	0
Asia	112,094	374,789	313,798	348,564	170,607	64,940	186,695	383,915	101,517	267,708
Australia	0	0	0	61,318	39,598	79,428	86,739	51,827	101,449	173,212
Oceania, other	0	0	0	5,510	10,588	3,667	0	0	0	4,520
Oceania	0	0	0	66,828	50,186	83,095	86,739	51,827	101,449	177,732
Algeria	0	0	47,363	0	0	0	0	0	0	0
Africa, other	0	0	2,417	4,455	3,306	2,755	44	0	0	3,471
Africa	0	0	49,780	4,455	3,306	2,755	44	0	0	3,471
Total	710,461	1,104,287	1,597,251	1,555,775	1,307,786	1,724,267	1,193,571	739,832	731,288	752,290

See footnotes at end of table.

Continued-

Table 14--U.S. exports of concentrated superphosphate, selected markets and years--continued 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	3	2	5	21	23	39	30	6	3	2
Costa Rica	1	4/	1	4/	1	1	1	1	2	4
Mexico	2	4/	0	0	21	2	0	0	0	0
Central America, other	1	2	1	2	3	1	1	1	4/	1
Central America 3/	4	2	2	3	24	3	2	3	2	5
Argentina	1	1	2	4/	4/	1	4/	2	1	1
Brazil	25	26	25	3	5	14	14	8	4/	11
Chile	23	14	7	9	10	12	20	16	23	18
Colombia	5	2	1	1	1	1	2	1	2	1
Peru	4/	1	1	1	1	2	3	1	2	0
Venezuela	4/	2	3	4/	0	0	0	0	2	0
South America, other	1	1	2	4/	2	2	1	1	3	2
South America	56	47	41	15	20	32	40	29	33	32
Belgium-Luxembourg	4/	0	8	8	1	3	2	0	0	0
Bulgaria	0	0	0	5	2	3	2	0	4/	0
Czechoslovakia	0	0	0	9	9	8	0	4	1	0
France	4/	3	6	2	0	4/	0	0	3	0
Ireland	0	0	3	3	1	2	0	0	2	0
Netherlands	5	0	0	0	0	0	0	0	0	0
Poland	7	9	0	0	0	1	1	0	0	0
Romania	0	0	0	0	0	0	0	0	9	0
Turkey	2	0	2	0	0	0	0	0	0	0
West Germany	1	0	9	5	2	4/	0	0	18	0
Europe, other	5	3	1	2	4/	1	0	0	1	4/
Europe	21	16	29	35	16	18	6	4	33	4/
Bangladesh	0	2	0	19	9	0	7	34	4	24
China	0	0	9	0	0	0	0	0	0	1
Indonesia	4	16	1	0	0	0	0	0	4	4
Japan	4	1	2	2	3	3	6	8	6	6
Pakistan	5	0	0	0	0	0	0	3	0	0
Singapore	0	0	7	0	0	4/	0	0	0	0
South Korea	0	9	0	0	0	0	0	0	0	0
Sri Lanka	0	3	0	0	0	0	0	0	0	0
Asia, other	2	3	1	1	0	1	2	7	0	0
Asia	16	34	20	22	13	4	16	52	14	36
Australia	0	0	0	4	3	5	7	7	14	23
Oceania, other	0	0	0	4/	1	4/	0	0	0	1
Oceania	0	0	0	4	4	5	7	7	14	24
Algeria	0	0	3	0	0	0	0	0	0	0
Africa, other	0	0	4/	4/	4/	4/	4/	0	0	4/
Africa	0	0	3	4/	4/	4/	4/	0	0	4/
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that received at least 25,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Less than 0.5 percent.

Source: (2).

Table 15--U.S. exports of phosphoric acid, selected markets and years 1/

Country of destination 2/	1975 3/	1980	1985	1986 4/	1987 4/	1988 4/	1989 4/	1990 4/	1991
Short tons									
Canada	4,059	10,843	66,156	2,220	2,041	1,780	4,409	10,945	5,261
Mexico	34	4,179	89	0	0	32	14,871	3,261	810
Central America, other	544	9,951	411	11	3,300	3,322	0	60	5,884
Central America 5/	578	14,130	500	11	3,300	3,354	14,871	3,321	6,694
Brazil	87,496	312,348	74,342	47,070	263,877	13,499	35,672	20,817	48,875
Colombia	31,741	20,370	6,879	8,801	3,859	11,320	7,252	8,479	916
Venezuela	759	3,114	141,445	146,968	133,259	33,376	137,217	79,346	44,791
South America, other	140	6,077	0	0	0	0	0	0	0
South America	120,136	341,909	222,666	202,839	400,995	58,195	180,141	108,642	94,582
Belgium-Luxembourg	13	0	10,810	10,640	0	0	0	0	0
Czechoslovakia	0	0	27,842	18,177	6,881	0	0	0	0
Denmark	0	0	5,769	20,209	5,927	0	0	0	0
France	18,427	0	0	0	0	0	0	0	0
Netherlands	7,123	23,265	0	0	0	0	0	0	0
Turkey	4	0	153,895	20,698	0	0	19	0	0
West Germany	243	0	48,852	1,981	0	0	0	0	0
Europe, other	243	7,375	0	0	0	95	7	0	0
Europe	26,053	30,640	247,168	71,705	12,808	95	26	0	0
Former Soviet Union	0	228,540	511,099	0	0	0	0	0	0
China	0	0	0	0	0	0	17,659	0	0
India	60,900	104,896	375,462	242,041	383,436	208,024	248,350	513,074	359,746
Indonesia	0	56,835	85,570	72,895	67,755	72,734	23,147	50,870	51,507
Iran	12,318	0	0	0	0	0	0	0	0
Japan	78	0	0	0	0	86,914	21,494	0	385
Asia, other	740	64	6,890	0	0	0	0	638	221
Asia	74,036	161,795	467,922	314,936	451,191	367,672	310,650	564,582	411,859
Australia	7,035	0	0	0	50,382	17,357	72,302	41,084	25,615
Oceania, other	636	0	0	2,664	0	0	0	0	0
Oceania	7,671	0	0	2,664	50,382	17,357	72,302	41,084	25,615
Africa	150	9	0	0	0	0	1,219	0	42
Total	232,683	787,866	1,515,511	594,375	920,717	448,453	583,618	728,574	544,053

See footnotes at end of table.

Continued-

Table 15--U.S. exports of phosphoric acid, selected markets and years 1/

Country of destination 2/	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent								
Canada	2	1	4	6/	6/	6/	1	2	1
Mexico	6/	1	6/	0	0	6/	3	6/	0
Central America, other	6/	1	6/	6/	6/	1	0	6/	1
Central America 5/	6/	2	6/	6/	6/	1	3	6/	1
Brazil	38	40	5	8	29	3	6	3	9
Colombia	14	3	6/	1	6/	3	1	1	6/
Venezuela	6/	6/	9	25	14	7	24	11	8
South America, other	6/	1	0	0	0	0	0	0	0
South America	52	43	15	34	44	13	31	15	17
Belgium-Luxembourg	6/	0	1	2	0	0	0	0	0
Czechoslovakia	0	0	2	3	1	0	0	0	0
Denmark	0	0	6/	3	1	0	0	0	0
France	0	0	0	0	0	0	0	0	0
Netherlands	3	3	0	0	0	0	0	0	0
Turkey	6/	0	10	3	0	0	0	0	0
West Germany	6/	0	3	6/	0	0	0	0	0
Europe, other	6/	1	0	0	0	6/	6/	0	0
Europe	11	4	16	12	1	6/	6/	0	0
Former Soviet Union	0	29	34	0	0	0	0	0	0
China	0	0	0	0	0	0	3	0	0
India	26	13	25	41	42	46	43	70	66
Indonesia	0	7	6	12	7	16	4	7	9
Iran	5	0	0	0	0	0	0	0	0
Japan	6/	0	0	0	0	19	4	0	0
Asia, other	6/	6/	6/	0	0	0	0	6/	6/
Asia	32	21	31	53	49	82	53	77	76
Australia	3	0	0	0	5	4	12	6	5
Oceania, other	6/	0	0	6/	0	0	0	0	0
Oceania	3	0	0	6/	5	4	12	6	5
Africa	6/	6/	0	0	0	0	6/	0	0
Total	100	100	100	100	100	100	100	100	100

1/ Includes superphosphoric acid and wet-process phosphoric acid exports; years ending June 30.

2/ Specific countries listed include those that received at least 10,000 short tons of material in any selected year.

3/ Information on phosphoric acid exports not available before fertilizer year 1975.

4/ Includes only wet-process phosphoric acid because superphosphoric acid reports were discontinued during July 1985-December 1988; data for 1986-89 are no longer comparable with other years.

5/ Central America includes Caribbean countries.

6/ Less than 0.5 percent.

Source: (2).

Table 16--U.S. exports of phosphate rock, selected markets and years 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	2,004,664	3,975,256	4,257,756	3,011,021	2,787,218	2,027,417	1,442,211	1,203,709	629,623	466,044
Mexico	932,963	1,046,235	370,868	207,609	339,152	487,358	511,131	612,485	1,079,351	668,305
Other Central America	22,852	14,576	1,001	20,696	15,001	8,238	20,009	28,041	9,177	13,282
Central America 3/	955,815	1,060,811	371,869	228,305	354,153	495,596	531,140	640,526	1,088,528	681,587
Brazil	372,370	518,088	407,395	21,816	39,668	28,791	26,502	0	0	62,939
Colombia	19,514	100,221	38,722	60,515	45,435	58,853	43,656	50,258	51,501	52,246
South America, other	34,635	111,950	45,315	13,006	27,101	21,500	31,045	26,944	11,257	56,065
South America	426,519	730,259	491,432	95,337	112,204	109,144	101,203	77,202	62,758	171,250
Austria	99,428	0	107,471	22,269	0	88,555	68,902	71,342	34,743	168,616
Belgium-Luxembourg	395,181	759,666	888,456	708,797	779,482	296,081	370,685	464,068	416,203	201,121
Finland	0	0	129,979	180,696	166,208	71,854	91,977	43,444	45,823	0
France	327,450	270,276	1,045,198	706,989	835,018	841,438	903,949	907,125	706,085	635,640
Italy	1,305,543	366,446	353,864	103,057	110,982	249,024	446,300	112,006	116,230	90,632
Netherlands	408,204	846,843	1,002,852	679,028	500,377	722,931	811,601	1,110,759	982,142	940,003
Norway	107,520	102,541	112,890	0	7,276	61,582	75,071	98,724	143	0
Poland	0	301,202	934,443	695,161	967,339	456,852	637,121	697,551	379,796	0
Romania	0	36,405	684,965	338,897	193,699	92,593	165,448	42,904	46,295	46,292
Spain	235,801	53,931	41,222	22	21	127,548	23,609	4,963	0	0
Sweden	194	49,007	107,397	151,434	141,955	77,029	138,896	216,323	212,208	159,880
United Kingdom	69,689	81,699	532,515	31	759	902	0	10,663	11,024	0
West Germany	1,355,320	799,092	1,000,821	588,896	566,125	817,128	578,728	663,150	446,071	357,639
Europe, other	953	67	138,488	695	24,061	0	3,203	0	18	39,542
Europe	4,305,283	3,667,175	7,080,561	4,175,972	4,293,302	3,903,517	4,315,290	4,443,022	3,396,781	2,639,365
India	364,440	239,764	306,241	340,425	315,203	286,352	406,438	450,444	468,631	564,610
Indonesia	0	0	44,298	124,006	107,783	113,933	75,403	116,557	3,661	0
Iran	33,331	417,206	0	0	0	0	0	0	0	0
Japan	2,014,913	2,475,473	1,989,987	1,454,905	1,323,018	1,222,010	1,027,309	1,145,093	827,782	705,922
Philippines	148,334	157,216	108,683	0	33,167	35,072	0	3,086	0	0
South Korea	609,324	615,563	2,043,224	1,653,816	1,701,829	1,502,296	1,643,949	1,334,238	1,508,079	1,148,419
Asia, other	70,576	54,176	79,738	440	0	232	10,668	177	10,472	11,953
Asia	3,240,918	3,959,398	4,572,221	3,573,592	3,481,000	3,159,895	3,223,767	3,049,595	2,818,625	2,430,904
Australia	20,699	329	393,725	300,697	168,262	120,702	183,462	446,718	126,778	77,658
New Zealand	13,443	18	58,431	156,282	97,851	116,719	183,174	155,334	210,338	133,819
Oceania, other	0	0	0	26	0	0	0	0	0	0
Oceania	34,142	347	452,156	457,005	266,113	237,421	366,636	602,052	337,116	211,477
South Africa	0	0	0	152,581	0	0	0	3,597	699	5,595
Africa, other	5,627	0	0	19	18	0	0	505	1,422	489
Africa	5,627	0	0	152,600	18	0	0	4,102	2,121	6,084
Total	10,972,968	13,393,246	17,225,995	11,693,832	11,294,008	9,932,990	9,980,247	10,020,208	8,335,552	6,606,711

See footnotes at end of table.

Continued-

Table 16--U.S. exports of phosphate rock, selected markets and years--continued 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	18	30	25	26	25	20	14	12	8	7
Mexico	9	8	2	2	3	5	5	6	13	10
Central America, other	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/
Central America 3/	9	8	2	2	3	5	5	6	13	10
Brazil	3	4	2	4/	4/	4/	4/	0	0	1
Colombia	4/	1	4/	1	4/	1	4/	1	1	1
South America, other	4/	1	4/	4/	4/	4/	4/	4/	4/	4/
South America	4	5	3	1	1	1	1	1	1	3
Austria	1	0	1	4/	0	1	1	1	4/	3
Belgium-Luxembourg	4	6	5	6	7	3	4	5	5	3
Finland	0	0	1	2	1	1	1	0	1	0
France	3	2	6	6	7	8	9	9	8	10
Italy	12	3	2	1	1	3	4	1	1	1
Netherlands	4	6	6	6	4	7	8	11	12	14
Norway	1	1	1	0	4/	1	1	1	4/	0
Poland	0	2	5	6	9	5	6	7	5	0
Romania	0	4/	4	3	2	1	2	4/	1	1
Spain	2	4/	4/	4/	4/	1	4/	4/	0	0
Sweden	4/	4/	1	1	1	1	1	2	3	2
United Kingdom	1	1	3	4/	4/	4/	0	4/	4/	0
West Germany	12	6	6	5	5	8	6	7	5	5
Europe, other	4/	4/	1	4/	4/	0	4/	0	4/	1
Europe	39	27	41	36	38	39	43	44	41	40
India	3	2	2	3	3	3	5	4	6	9
Indonesia	0	0	4/	1	1	1	1	1	4/	0
Iran	4/	3	0	0	0	0	0	0	0	0
Japan	18	18	12	12	12	12	10	11	10	11
Philippines	1	1	1	0	4/	4/	0	4/	0	0
South Korea	6	5	12	14	15	15	16	13	18	17
Asia, other	1	4/	4/	4/	0	4/	4/	4/	4/	4/
Asia	30	30	27	31	31	32	32	30	34	37
Australia	4/	4/	2	3	1	1	2	4	2	1
New Zealand	4/	4/	4/	1	1	1	2	2	3	2
Oceania, other	0	0	0	0	0	0	0	0	0	0
Oceania	4/	4/	3	4	2	2	4	6	4	3
South Africa	0	0	0	1	0	0	0	4/	4/	4/
Africa, other	4/	0	0	4/	4/	0	0	4/	4/	4/
Africa	4/	0	0	1	4/	0	0	4/	4/	4/
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that received at least 100,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Less than 0.5 percent.

Source: (2).

Table 17--U.S. imports of potassium chloride, selected markets and years 1/

Country of origin 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	4,300,133	6,227,401	8,528,104	8,310,088	7,442,830	6,690,762	6,751,659	5,850,225	6,281,656	6,921,260
Dominican Republic	0	0	0	0	0	8,130	14,273	14,748	0	0
Central America, other	0	0	6,620	1,217	5,771	0	0	0	0	26
Central America 3/	0	0	6,620	1,217	5,771	8,130	14,273	14,748	0	26
East Germany	0	0	48,799	26,719	52,851	71,756	138,197	78,582	62,036	0
Iceland	0	0	0	29,554	27,777	0	0	0	0	0
Netherlands	0	0	3,472	6,708	4,425	4,959	10,816	5,592	0	348
Spain	3,000	0	24,937	0	0	0	0	0	0	0
United Kingdom	100	303	116	732	534	438	15,297	25,445	1,538	155
West Germany	17,573	11,026	3,826	9,987	34,712	5,877	31,787	933	20,776	119,533
Europe, other	0	0	0	41	0	7,326	0	3,459	3,058	3,307
Europe	20,673	11,329	81,150	73,741	120,299	90,356	196,097	114,011	87,408	123,343
Former Soviet Union	0	0	27,677	36,215	0	67,569	265,140	260,199	25	151,836
Israel	33,028	67,534	325,495	470,490	336,538	208,888	436,716	286,617	333,634	254,976
Asia, other	0	805	706	0	1,656	582	7,639	40,936	0	0
Asia	33,028	68,339	326,201	470,490	338,194	209,470	444,355	327,553	333,634	254,976
Benin (Dahomey)	0	28,396	0	0	0	0	0	0	0	0
Congo	23,921	22,677	0	0	0	0	0	0	0	0
Africa, other	0	0	0	1,024	0	33	0	100	0	0
Africa	23,921	51,073	0	1,024	0	33	0	100	0	0
Other 4/	0	508	0	0	0	0	0	106	0	0
Total	4,377,755	6,358,650	8,969,752	8,892,775	7,907,094	7,066,320	7,671,524	6,566,942	6,702,723	7,451,441

See footnotes at end of table.

Continued-

Table 17--U.S. imports of potassium chloride, selected markets and years--continued 1/

Country of origin 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	98	98	95	93	94	95	88	89	94	93
Dominican Republic	0	0	0	0	0	5/	5/	5/	0	0
Central America, other	0	0	5/	5/	5/	0	0	0	0	5/
Central America 3/	0	0	5/	5/	5/	5/	5/	5/	0	5/
East Germany	0	0	1	5/	1	1	2	1	1	5/
Iceland	0	0	0	5/	5/	0	0	0	0	0
Netherlands	0	0	5/	5/	5/	5/	5/	5/	0	5/
Spain	5/	0	5/	0	0	0	0	0	0	0
United Kingdom	5/	5/	5/	5/	5/	5/	5/	5/	5/	0
West Germany	5/	5/	5/	5/	5/	5/	5/	5/	5/	2
Europe, other	0	0	0	5/	0	5/	0	5/	5/	5/
Europe	5/	5/	1	1	2	1	3	2	1	2
Former Soviet Union	0	0	5/	5/	0	1	3	4	5/	2
Israel	1	1	4	5	4	3	6	4	5	3
Asia, other	0	5/	5/	0	5/	5/	5/	1	0	0
Asia	1	1	4	5	4	3	6	5	5	3
Benin (Dahomey)	0	5/	0	0	0	0	0	0	0	0
Congo	1	5/	0	0	0	0	0	0	0	0
Africa, other	0	0	0	5/	0	5/	0	5/	0	0
Africa	1	1	0	5/	0	5/	0	5/	0	0
Other 4/	0	5/	0	0	0	0	0	5/	0	0
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that have supplied at least 10,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Country of origin unknown.

5/ Less than 0.5 percent.

Source: (3).

Table 18--U.S. exports of potassium chloride, selected markets and years 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Short tons										
Canada	454	4,371	4,235	1,412	2,968	343	1,994	1,343	2,868	7,615
Costa Rica	14,451	24,424	14,890	9,234	8,310	6,515	26,269	18,430	25,822	45,813
Dominican Republic	5,555	16,890	45,989	23,532	18,156	33,803	34,736	39,265	42,942	55,429
Mexico	43,101	117,144	68,139	80,671	51,109	63,688	12,381	13,333	72,948	46,645
Central America, other	19,473	19,323	28,178	4,155	16,094	26,772	32,032	24,837	25,752	55,266
Central America 3/	82,580	177,781	157,196	117,592	93,669	130,778	105,418	95,865	167,464	203,153
Brazil	172,848	191,728	605,606	367,901	189,795	190,894	289,474	259,134	126,697	306,477
Colombia	20,844	15,685	38,984	88,764	17,770	23,008	9,679	57,264	33,198	32,456
Peru	2,481	6,953	12,025	26,330	7,087	20,451	13,946	0	13,383	4,511
South America, other	34,082	24,646	26,016	21,590	25,299	16,875	27,669	24,543	39,062	112,445
South America	230,255	239,012	682,631	504,585	239,951	251,228	340,768	340,941	212,340	455,889
Belgium-Luxembourg	72	0	0	0	23,699	79,982	11,574	0	0	17,133
Denmark	0	0	39,581	0	0	23	0	0	0	0
Ireland	0	32,127	0	0	0	20,421	13,128	0	0	7,684
Netherlands	12,322	6	0	0	0	50,112	0	0	20	0
Europe, other	13,922	10,496	493	550	14,963	1,066	9,872	13,229	5,542	17,022
Europe	26,316	42,629	40,074	550	38,662	151,604	34,574	13,229	5,562	41,839
China	0	0	0	0	55	59,554	0	0	0	59,584
Hong Kong	0	0	0	0	0	42,339	0	0	0	0
India	0	0	0	0	95,072	19,239	0	0	0	0
Japan	281,803	74,401	103,959	59,677	73,194	98,332	42,112	23,001	20,089	33,083
Philippines	25,759	56,622	8,128	0	48	48	26	2	11	0
Taiwan	45,363	38,786	0	308	0	28,918	0	0	0	0
Asia, other	29,557	23,627	12,321	15,720	240	64	80	1,300	12,607	3,126
Asia	382,482	193,436	124,408	75,705	168,609	248,494	42,218	24,303	32,707	95,793
Australia	87,929	156,261	17,827	6,691	13,140	8,621	85	924	179	53
New Zealand	92,379	201,313	162,524	88,080	45,065	5,689	3,176	0	137	0
Oceania	180,308	357,574	180,351	94,771	58,205	14,310	3,261	924	316	53
Africa	13	165	103	212	276	138	143	46	1,470	356
Total	902,408	1,014,968	1,188,998	794,827	602,340	796,895	528,376	476,651	422,727	804,698

See footnotes at end of table.

Continued-

Table 18--U.S. exports of potassium chloride, selected markets and years--continued 1/

Country of destination 2/	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
	Percent									
Canada	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/
Costa Rica	2	3	2	1	1	1	3	2	3	5
Dominican Republic	1	2	5	3	2	4	4	4	5	6
Mexico	5	13	8	9	6	7	1	1	8	5
Central America, other	2	2	3	0	2	3	4	3	3	6
Central America 3/	9	20	17	13	10	14	12	11	19	23
Brazil	19	21	67	41	21	21	32	29	14	34
Colombia	2	2	4	10	2	3	1	6	4	4
Peru	4/	1	1	3	1	2	2	0	1	4/
South America, other	4	3	3	2	3	2	3	3	4	12
South America	26	26	76	56	27	28	38	38	24	51
Belgium-Luxembourg	4/	0	0	0	3	9	1	0	0	2
Denmark	0	0	4	0	0	4/	0	0	0	0
Ireland	0	4	0	0	0	2	1	0	0	1
Netherlands	1	4/	0	0	0	6	0	0	4/	0
Europe, other	2	1	4/	4/	2	4/	1	1	1	2
Europe	3	5	4	4/	4	17	4	1	1	5
China	0	0	0	0	4/	7	0	0	0	7
Hong Kong	0	0	0	0	0	5	0	0	0	0
India	0	0	0	0	11	2	0	0	0	0
Japan	31	8	12	7	8	11	5	3	2	4
Philippines	3	6	1	0	4/	4/	4/	4/	4/	0
Taiwan	5	4	0	4/	0	3	0	0	0	0
Asia, other	3	3	1	2	4/	4/	4/	4/	1	4/
Asia	42	21	14	8	19	28	5	3	4	11
Australia	10	17	2	1	1	1	4/	4/	4/	4/
New Zealand	10	22	18	10	5	1	4/	4/	4/	4/
Oceania	20	40	20	11	6	2	4/	4/	4/	4/
Africa	4/	4/	4/	4/	4/	4/	4/	4/	4/	4/
Total	100	100	100	100	100	100	100	100	100	100

1/ Years ending June 30.

2/ Specific countries listed include those that received at least 25,000 short tons of material in any selected year.

3/ Central America includes Caribbean countries.

4/ Less than 0.5 percent.

Source: (2).

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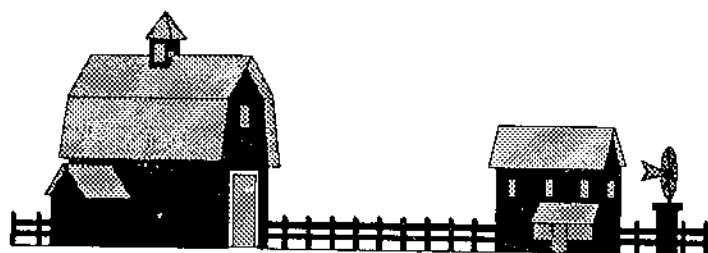
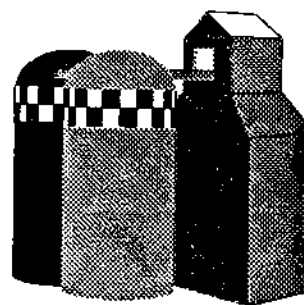
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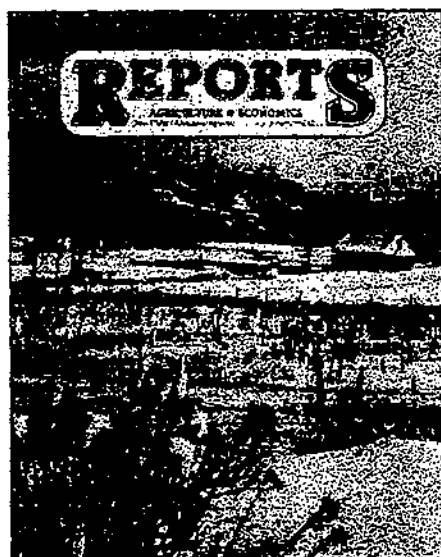
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