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**FERTILIZER MATERIALS  
MA28B  
ANNUAL REPORT 1995**

Issued September 1996

**SCOPE OF SURVEY**—The statistics in this publication were collected on annual form MA28B. This survey covers establishments manufacturing inorganic fertilizer chemicals, phosphatic fertilizer materials, and sulfuric acid; except spent sulfuric acid recovered by hydrolysis and evaporation. The panel for this survey consist of all known producers of these products, approximately 234 establishments.

**SURVEY METHODOLOGY**—Data for the 1995 annual may include estimates for reports which were not received in time for tabulation. Data for the missing reports are "imputed" based on year-to-year movement shown by reporting firms. Data cells with imputation greater than 20 percent are footnoted.

**REVISIONS**—Data for previous years may be revised due to corrected data from respondents, including data for reports received to late to include in the original publication. Figures which have been revised by more than 5 percent are footnoted.

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**NEXT SCHEDULED REPORT**—The 1996 annual report will be released in August 1997.

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## SUMMARY OF FINDINGS

United States production of sulfuric acid in 1995 totaled 47,519.3 thousand short tons (100 percent H<sub>2</sub>SO<sub>4</sub>), approximately 5.9 percent above the 1994 figure of 44,861.9 thousand short tons. Value of shipments (including interplant transfers) in 1995 amounted to \$553.9 million, as compared to the 1994 value of \$461.9 million.

Value of shipments of synthetic ammonia, nitric acid, and ammonium compounds increased 4.4 percent to \$3,642.6 million in 1995 from the 1994 level of \$3,488.7 million. Shipments of urea increased 16.8 percent to \$848.3 million in 1995, and shipments of phosphoric acid increased 10.7 percent to \$1,221.0 million.

Production of superphosphate and other phosphatic fertilizer materials for 1995 increased 3.2 percent to 10,364.2 thousand short tons (100 percent P<sub>2</sub>O<sub>5</sub>). Value of shipments amounted to \$3,594.3 million in 1995, as compared to the 1994 value of \$2,920.7 million.

Table 1. SHIPMENTS AND PRODUCTION OF PRINCIPAL FERTILIZER MATERIALS: 1991 TO 1995  
(Quantity in thousands of short tons; value in millions of dollars)

Product code	Product description	Year	Total production	Total shipments including interplant transfers	
				Quantity	Value (f.o.b. plant)
28731 31	Ammonia, synthetic anhydrous (1).....	1995	17,402.2	9,715.9	1,586.4
		1994	17,869.1	10,525.3	1,540.8
		1993	17,195.2	10,435.5	1,174.3
		1992	17,924.2	10,642.5	1,095.4
		1991	17,169.2	10,002.2	1,036.0
28731 44	Ammonium nitrate, original melt liquor (2).....	1995	8,491.4	(X)	(X)
		1994	8,567.6	(X)	(X)
		1993	8,280.9	(X)	(X)
		1992	7,980.6	(X)	(X)
		1991	7,819.2	(X)	(X)
28731 57	Ammonium sulfate (1).....	1995	2,646.7	2,551.7	195.3
		1994	2,584.1	2,484.9	168.8
		1993	2,432.4	2,416.9	150.4
		1992	2,391.0	2,239.3	139.6
		1991	2,243.0	2,251.3	129.9
28732 --	Urea (100%).....	1995	8,126.9	5,242.8	848.3
		1994	8,360.3	5,456.9	726.1
		1993	8,329.6	5,254.8	629.6
		1992	8,766.3	5,343.0	695.7
		1991	8,132.8	5,431.5	722.6
28731 11	Nitric acid (100%).....	1995	8,843.6	1,291.1	162.0
		1994	8,713.7	931.8	116.5
		1993	8,253.9	678.0	88.5
		1992	8,136.0	672.0	85.4
		1991	7,926.6	623.1	81.8
28741 81	Phosphoric acid (100% P2O5).....	1995	13,133.8	4,409.3	1,221.0
		1994	12,792.0	4,227.7	1,103.1
28741 85		1993	11,515.1	3,687.5	969.3
		1992	12,825.9	4,375.0	1,181.5
		1991	12,109.4	4,397.6	1,282.0
28193 --	Sulfuric acid, gross (100%).....	1995	47,519.3	12,677.7	553.9
		1994	44,861.9	11,767.2	461.9
		1993	39,838.5	11,362.0	515.9
		1992	44,523.7	10,950.2	528.7
		1991	43,466.1	11,536.3	586.5
28742 --	Superphosphates and other fertilizer materials (100% P2O5).....	1995	10,364.2	10,231.0	3,594.3
		1994	10,041.6	9,966.9	2,920.7
		1993	8,800.9	8,813.8	2,057.3
		1992	9,696.0	9,665.6	2,530.1
		1991	9,043.9	9,017.0	2,832.4

r) Revised by 5 percent or more from previously published figures. (X) Not applicable.

(1) Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Department of Energy.

(2) Represents total amount of original solution produced for all purposes.

Table 2. PRODUCTION AND SHIPMENTS OF FERTILIZER MATERIALS: 1995 AND 1994  
(Quantity in thousands of short tons; value in millions of dollars)

Product code	Chemical and basis	1995			1994		
		Total Production	Total Shipments Including Interplant Transfers		Total Production	Total Shipments Including Interplant Transfers	
			Quantity	Value		Quantity	Value
28193 --	Sulfuric acid, gross (new and fortified).....	47,519.3	12,677.7	553.9	44,861.9	11,767.2	461.9
	By feedstock:						
28193 32	Elemental sulfur(*).....	39,726.4	7,285.6	363.7	N/A	N/A	N/A
28193 34	Smelting metallic sulfide ore(*).....	3,764.5	3,358.0	63.6	N/A	N/A	N/A
28193 36	Decomposition of alkylation & other spent acid (*).....	3,477.6	1,852.6	117.4	N/A	N/A	N/A
28193 38	Other (*).....	550.8	181.5	9.2	N/A	N/A	N/A
	By grade:						
28193 11	Oleum under 40 percent.....	1,313.7	849.2	44.3	1,341.5	841.2	41.6
28193 21	Oleum 40 percent and over 40 percent (*).....	253.3	259.6	15.2	253.4	253.4	16.1
28193 31	Other than oleum (1).....	45,952.2	11,569.0	494.5	43,267.0	10,672.5	404.2
28731 --	Synthetic ammonia, nitric acid, and ammonium compounds.....	(X)	(X)	3,642.6	(X)	(X)	3,448.7
28731 11	Nitric acid (100% HNO3) (2).....	8,843.6	1,291.1	162.0	8,713.7	931.1	116.5
28731 31	Ammonia, synthetic anhydrous (100% NH3)(3).....	17,402.2	9,715.9	1,586.4	17,869.1	10,525.3	1,540.8
28731 30	Fertilizer use.....	15,566.4	8,580.8	1,408.0	15,991.7	9,282.2	1,371.1
28731 32	Other uses.....	1,835.7	1,135.1	178.4	1,877.4	r/ 1,243.2	169.6
	Ammonium nitrate:						
28731 44	Original melt liquor (100% NH4 NO3)(4).....	8,491.4	4,467.9	636.0	8,567.6	4,551.2	615.9
	Consumed in the manufacture of:						
28731 45	Other nitrogen solutions (100% NH4 NO3)(*).....	584.6	(X)	(X)	N/A	(X)	(X)
28731 46	Ammonium nitrate-urea solutions (*).....	3,495.1	(X)	(X)	N/A	(X)	(X)
28731 47	High density prill and granular (*).....	2,498.9	2,578.9	344.1	N/A	N/A	N/A
28731 48	Low density prill and grained (*).....	1,585.5	1,562.9	247.0	N/A	N/A	N/A
28731 49	All other (liquor sales, etc.) (*).....	327.3	326.1	44.9	N/A	N/A	N/A
28731 57	Ammonium sulfate, synthetic and byproduct other than coke oven byproduct (100% (NH4)2 SO4)(3).....	2,646.7	2,551.7	195.3	2,584.1	2,484.9	168.8
28731 56	Synthetic.....	(D)	(D)	(D)	(D)	(D)	(D)
28731 58	Byproduct, other than coke oven.....	(D)	(D)	(D)	(D)	(D)	(D)
28731 55	Nitrogen solutions (100% N) (including mixtures containing urea).....	3,602.9	3,593.9	973.2	3,594.9	3,613.6	r/ 948.6
28731 66	Ammonium nitrate/urea solutions.....	3,432.9	3,466.1	950.7	3,420.6	3,438.8	r/ 923.4
28731 68	All other compounds and solutions (e.g. CAN17, AN20, AAN and others) and solutions containing free ammonia, including data for solutions containing two or more products such as (a) ammonia, ammonium-nitrate; (b) ammonia, urea; (c) ammonia, ammonium-nitrate, urea (5).....	170.0	127.9	22.5	r/ 174.4	r/ 174.8	25.2
28731 69	Other ammonium compounds (including ammonium chloride, gray and white).....	(X)	(X)	89.7	(X)	(X)	r/ 98.0

Table 2. PRODUCTION AND SHIPMENTS OF FERTILIZER MATERIALS: 1995 AND 1994  
(Quantity in thousands of short tons; value in millions of dollars)

Product code	Chemical and basis	1995			1994		
		Total Production	Total Shipments Including Interplant Transfers		Total Production	Total Shipments Including Interplant Transfers	
			Quantity	Value		Quantity	Value
28732 --	Urea original melt liquor (100%).....	8,126.9	5,242.8	848.3	8,360.3	5,456.9	726.1
	Consumed in the manufacture of:						
28732 17	Urea-ammonium nitrate solutions (*).....	2,608.2	(X)	(X)	N/A	N/A	N/A
28732 19	Prills (*).....	2,589.5	2,435.4	350.7	N/A	N/A	N/A
28732 20	Granular (*).....	2,667.5	2,564.0	470.2	N/A	N/A	N/A
28732 23	All other (liquor sales, melamine, feedstock, other) (*).....	261.6	243.4	27.4	N/A	N/A	N/A
28741 --	Phosphoric acid (100% P2O5).....	13,133.8	4,409.3	1,221.0	12,792.0	4,227.7	1,103.1
28741 81	Thermal.....	318.6	162.3	139.3	324.2	163.1	142.4
28741 85	Wet.....	12,815.2	4,247.0	1,081.8	12,467.9	4,064.7	960.6
	By use:						
28741 86	Fertilizer.....	11,914.4	(D)	(D)	11,588.8	3,521.6	770.9
28741 87	Feed and other.....	900.7	(D)	(D)	879.1	543.1	189.8
	By grade:						
28741 88	Ortho (less than 65% P2O5).....	11,658.5	3,294.3	806.0	11,252.1	3,078.8	621.6
28741 89	Super (65% or more P2O5).....	1,156.6	952.7	275.8	1,215.7	985.9	339.0
28742 --	Superphosphates and other phosphatic fertilizer materials:						
	Gross weight.....	19,886.4	19,503.5	(X)	19,115.3	18,802.8	(X)
	Phosphoric oxide content (100% P2O5).....	10,364.2	10,231.0	3,594.3	10,041.6	9,966.9	2,920.7
28742 15	Normal and enriched superphosphates: AND						
28742 41	Concentrated superphosphates: Gross weight.....	1,830.7	1,611.3	(X)	1,917.2	1,704.1	(X)
	Phosphoric oxide content (100% P2O5).....	807.8	767.7	214.6	876.8	811.8	200.9
28742 51	Monoammonium phosphates: Gross weight.....	2,841.4	2,791.7	(X)	2,935.5	2,976.3	(X)
	Phosphoric oxide content (100% P2O5).....	1,528.8	1,497.6	527.2	1,754.1	1,788.6	474.5
28742 52	Diammonium phosphates: Gross weight.....	14,653.0	14,571.8	(X)	13,566.7	13,502.1	(X)
	Phosphoric oxide content (100% P2O5).....	7,739.3	7,669.7	2,770.0	7,049.7	7,017.0	2,154.4
28742 55	Other ammonium phosphates: AND						
28742 61	Other phosphatic fertilizer materials: Gross weight.....	561.2	528.7	(X)	695.9	620.2	(X)
	Phosphoric oxide content (100% P2O5).....	288.2	295.9	82.4	361.0	349.4	91.2

(D) Data withheld to avoid disclosing figures for individual companies. r/ Revised by 5 percent or more from previously published figures. (X) Not applicable.

(1) Figures for "Other than oleum" include "Chamber process acid."

(2) Includes unspecified amounts of nitric acid produced but not withdrawn from the system.

(3) Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Department of Energy.

(4) Represents total amount of original solution produced, including amounts used for fertilizer, explosives, and other uses and amounts consumed in manufacturing other products such as nitrogen solutions (product code 28731 55).

(5) "Ammonium nitrate/calcium nitrate solutions" (product code 28731 73) and "All other two component products" (product code 28731 67) are combined with "solutions containing ammonia" (product code 28731 65) into a new product code (28731 68) for 1995.

(\*) New product codes for 1995.

Table 3. QUANTITIES OF SELECTED FERTILIZER MATERIALS PRODUCED AND CONSUMED IN THE SAME PLANT: 1995 AND 1994

Product code	Product description	Basis	Consumed in producing plants (thousands of short tons)	
			1995	1994
28193 --	Sulfuric acid, gross (new and fortified).....	100% H2SO4.....	35,000.7	31,908.0
28731 11	Nitric acid.....	100% HNO3.....	7,774.6	7,982.3
28731 30 28731 32	Ammonia (synthetic) anhydrous (1).....	100% HN3.....	7,418.4	7,342.1
	Ammonium nitrate:			
28731 45	Other nitrogen solutions (2).....	100% NH4NO3.....	584.6	(X)
28731 46	Urea-ammonium nitrate solutions.....	do.....	3,495.1	(X)
28731 47	High density prill and grained.....	do.....	152.1	(X)
28731 48	Low density prill and granular.....	do.....	(D)	(X)
28731 49	All other.....	do.....	(D)	(X)
28731 57	Ammonium sulfate (1).....	100% (NH4)2 SO4...	(D)	(D)
	Urea:			
28732 17	Urea-ammonium nitrate solutions.....	100% Urea.....	2,606.5	(X)
28732 19	Prills.....	do.....	(D)	(X)
28732 20	Granular.....	do.....	(D)	(X)
28732 23	All other.....	do.....	(D)	(X)
	Phosphoric acid.....	100% P2O5.....	8,748.6	r/ 8,665.5
28741 81	Thermal.....	do.....	(D)	(D)
28741 85	Wet.....	do.....	(D)	(D)
28742 --	Superphosphates and other fertilizer materials.....	do.....	r/ 51.5	r/ 55.3

(D) Data withheld to avoid disclosing figures for individual companies. r) Revised by 5 percent or more from previously published figures.

(1) Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Department of Energy.

(2) Excludes amount converted to solid nitrate.

Table 4. SUMMARY OF SELECTED FERTILIZER MATERIALS -  
 INTERPLANT TRANSFERS: 1995 AND 1994  
 (Quantity in thousands of short tons; value in millions of dollars)

Product code	Product description	Basis	Year	Interplant transfers	
				Quantity	Value (f.o.b. plant)
28193 --	Sulfuric acid, gross (new and fortified).....	100% H <sub>2</sub> SO <sub>4</sub> .....	1995	1,800.0	38.7
			1994	2,176.3	40.5
28193 11	Oleum under 40 percent.....	do.....	1995	(D)	(D)
			1994	(D)	(D)
28193 21	Oleum 40 percent and over 40 percent.....	do.....	1995	(D)	(D)
			1994	(D)	(D)
28193 31	Other than oleum (1).....	do.....	1995	1,756.6	37.0
			1994	2,146.8	39.3
28731 31	Ammonia, synthetic anhydrous (2).....	100% NH <sub>3</sub> .....	1995	892.6	121.2
			1994	r/ 1,132.3	r/ 133.7
28731 30	Fertilizer use.....	do.....	1995	(D)	(D)
			1994	(D)	(D)
28731 32	Other uses.....	do.....	1995	(D)	(D)
			1994	(D)	(D)
28731 57	Ammonium sulfate (2).....	100% (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> .....	1995	(D)	(D)
			1994	(D)	(D)
28731 11	Nitric acid.....	100% HNO <sub>3</sub> .....	1995	(D)	(D)
			1994	(D)	(D)
28732 --	Urea.....	100% Urea.....	1995	(D)	(D)
			1994	(D)	(D)
28741 81	Phosphoric acid.....	100% P <sub>2</sub> O <sub>5</sub> .....	1995	1,745.5	391.2
28741 85			1994	1,544.1	306.4
28742 --	Superphosphates and other phosphatic fertilizer materials.....	do.....	1995	(D)	(D)
			1994	(D)	(D)

(D) Data withheld to avoid disclosing figures for individual companies.

(1) Figures for "Other than oleum" includes chamber process acid.

(2) Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Department of Energy.

Table 5. TOTAL SHIPMENTS (INCLUDING INTERPLANT TRANSFERS) OF SULFURIC ACID,  
 BY STATES: 1995 AND 1994  
 (Quantity in thousands of short tons of 100% H<sub>2</sub>SO<sub>4</sub>; value in millions of dollars)

State	1995		1994	
	Quantity	Value	Quantity	Value
United States.....	12,677.7	553.9	11,767.2	461.9
Arizona.....	(D)	(D)	(D)	(D)
California.....	766.3	39.2	850.3	40.4
Florida.....	806.6	26.4	633.1	16.2
Georgia.....	338.5	15.2	360.9	13.5
Illinois.....	(D)	(D)	(D)	(D)
Louisiana.....	2,009.7	106.3	1,724.0	83.3
New Jersey.....	(D)	(D)	(D)	(D)
Ohio.....	340.7	27.6	345.4	21.0
Texas.....	1,857.1	102.6	1,746.9	88.7
Virginia.....	(D)	(D)	(D)	(D)
Washington.....	(D)	(D)	(D)	(D)
Other states.....	4,151.5	167.4	3,844.4	r/ 138.0

(D) Data withheld to avoid disclosing figures for individual companies.



Table 6. PRODUCTION OF NEW SULFURIC ACID, BY STATES: 1995 AND 1994  
(Thousands of short tons of 100% H<sub>2</sub>SO<sub>4</sub>)

State	1995 (1)	1994 (1)
United States.....	43,927.7	42,311.1
Arizona.....	2,222.4	2,062.5
California.....	801.9	1,189.9
Florida.....	20,478.6	19,891.3
Georgia.....	514.3	517.9
Illinois.....	(D)	(D)
Louisiana.....	6,057.2	5,833.8
Missouri.....	(D)	(D)
New Jersey.....	(D)	(D)
New Mexico.....	(D)	(D)
Ohio.....	(D)	443.1
Oklahoma and Texas.....	1,971.1	3,207.5
Virginia.....	(D)	(D)
Washington.....	(D)	(D)
Other states.....	9,361.5	6,798.9

(D) Data withheld to avoid disclosing figures for individual companies.

(1) Includes data for Government-owned, privately-operated plants.

Table 7. PRIMARY PRODUCTION OF INORGANIC FERTILIZER CHEMICALS, BY QUARTER: 1995 AND 1994  
(Thousands of short tons)

Product code	Product description	Year	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
28731 31	Ammonia, synthetic anhydrous (100% NH <sub>3</sub> ): Production.....	1995	17,402.2	4,367.6	4,391.7	4,279.3	4,363.6	
		1994	17,869.1	4,513.2	4,392.8	4,374.0	4,589.1	
		Stocks on hand, end of month.....	1995	(NA)	1,634.5	1,798.8	1,757.0	1,285.6
			1994	(NA)	1,282.2	789.6	1,041.6	1,281.5
28731 30	Fertilizer use: Production.....	1995	15,566.4	3,963.4	3,884.4	3,831.0	3,887.6	
		1994	15,991.7	4,022.6	3,955.8	3,929.2	4,084.0	
		Stocks on hand, end of month.....	1995	(NA)	1,266.2	(D)	(D)	(D)
			1994	(NA)	1,138.6	573.6	747.0	924.4
28731 32	Other uses: Production.....	1995	1,835.7	404.2	507.2	448.3	476.0	
		1994	1,877.4	490.5	437.0	444.8	505.1	
		Stocks on hand, end of month.....	1995	(NA)	(S)	(D)	(D)	(D)
			1994	(NA)	(S)	(S)	(S)	(S)
28731 44	Ammonium nitrate (100% NH <sub>4</sub> NO <sub>3</sub> ): Original melt liquor (1): Production.....	1995	8,491.4	2,232.2	2,169.6	1,899.6	2,190.0	
		1994	8,567.6	2,193.9	2,155.7	1,985.5	2,232.5	
		Stocks on hand, end of month.....	1995	(NA)	160.3	168.5	206.3	202.1
			1994	(NA)	221.1	213.0	196.9	283.2
28731 45	Of total production how much was: Consumed in the manufacture of other nitrogen solutions (e.g. CAN17, AN20, AAN): Production.....	1995	584.6	140.6	151.4	141.7	150.8	
		1994	(NA)	(NA)	(NA)	(NA)	(NA)	
		Stocks on hand, end of month.....	1995	(NA)	(D)	(D)	(D)	(D)
			1994	(NA)	(NA)	(NA)	(NA)	(NA)
28731 46	Liquor consumed in the manufacture of urea-ammonium nitrate solutions: Production.....	1995	3,495.1	963.2	938.5	738.4	855.0	
		1994	(NA)	(NA)	(NA)	(NA)	(NA)	
		Stocks on hand, end of month.....	1995	(NA)	(D)	15.9	(D)	23.9
			1994	(NA)	(NA)	(NA)	(NA)	(NA)
28731 47	High density prill and granular: Production.....	1995	2,498.9	710.4	596.9	532.6	659.0	
		1994	(NA)	(NA)	(NA)	(NA)	(NA)	
		Stocks on hand, end of month.....	1995	(NA)	19.5	39.5	31.3	21.6
			1994	(NA)	(NA)	(N/A)	(N/A)	(N/A)
28731 48	Low density prill and grained: Production.....	1995	1,585.5	379.6	386.4	395.2	424.2	
		1994	(NA)	(NA)	(NA)	(NA)	(NA)	
		Stocks on hand, end of month.....	1995	(NA)	(D)	(D)	(D)	(D)
			1994	(NA)	(NA)	(NA)	(NA)	(NA)
28731 49	All other (e.g. liquor sales, etc.) Production.....	1995	327.3	38.4	96.4	91.7	100.9	
		1994	(NA)	(NA)	(NA)	(NA)	(NA)	
		Stocks on hand, end of month.....	1995	(NA)	(D)	(D)	(D)	(D)
			1994	(NA)	(NA)	(NA)	(NA)	(NA)
28731 56	Ammonium sulfate (100% (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ): Production.....	1995	2,646.7	649.2	681.5	632.5	683.5	
28731 58		1994	2,584.1	643.8	653.8	643.1	643.3	
Stocks on hand, end of month.....		1995	(NA)	98.7	166.9	285.1	285.9	
		1994	(NA)	148.5	131.5	192.1	218.3	

Table 7. PRIMARY PRODUCTION OF INORGANIC FERTILIZER CHEMICALS, BY QUARTER: 1995 AND 1994  
(Thousands of short tons)

Product code	Product description	Year	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
28731 11	Nitric acid (100% HNO <sub>3</sub> ): Production.....	1995	8,843.6	2,351.1	2,238.0	1,984.5	2,270.1
		1994	8,713.7	2,264.3	2,189.7	1,987.3	2,272.3
		1995	(NA)	(X)	(X)	(X)	(X)
		1994	(NA)	(X)	(X)	(X)	(X)
28731 55	Nitrogen solutions (including mixtures containing urea) (100% N): Production.....	1995	3,602.9	974.8	893.3	809.1	925.7
		1994	3,594.9	1,007.5	996.2	725.4	865.9
		1995	(NA)	289.7	234.6	249.5	0.0
		1994	(NA)	416.5	271.5	296.9	340.5
28731 66	Solutions containing ammonium nitrate/ urea: Production.....	1995	3,432.9	933.3	846.2	771.4	882.0
		1994	3,420.6	963.7	942.8	687.0	827.1
		1995	(NA)	258.0	198.7	(D)	(D)
		1994	(NA)	404.0	263.6	285.7	254.2
28731 68	All other solutions (3): Production.....	1995	170.0	41.5	47.1	37.7	43.7
		1994	r/ 174.4	r/ 43.8	r/ 53.4	r/ 38.4	r/ 38.8
		1995	(NA)	31.7	35.9	(D)	(D)
		1994	(NA)	12.5	7.9	11.1	86.3
28741 --	Phosphoric acid (100% P <sub>2</sub> O <sub>5</sub> ): Production.....	1995	13,133.8	3,326.8	3,274.0	3,183.1	3,350.0
		1994	12,792.0	3,081.7	3,269.6	3,186.1	3,254.6
		1995	(NA)	270.1	309.2	278.2	260.0
		1994	(NA)	255.1	281.3	259.2	277.8
28741 81	Thermal: Production.....	1995	318.6	79.7	77.1	51.3	110.6
		1994	324.2	79.9	81.7	83.6	79.0
		1995	(NA)	10.2	8.5	8.0	7.3
		1994	(NA)	10.8	8.6	12.4	10.3
28741 85	Wet: Production.....	1995	12,815.2	3,247.1	3,196.9	3,131.8	3,239.4
		1994	12,467.9	3,001.8	3,187.9	3,102.5	3,175.6
		1995	(NA)	259.9	300.8	270.2	252.7
		1994	(NA)	244.2	272.7	246.8	267.5
28741 86	By use: Fertilizer: Production.....	1995	11,914.4	3,023.5	2,962.3	2,903.8	3,024.7
		1994	11,588.8	2,779.9	2,952.0	2,889.3	2,967.6
		1995	(NA)	(D)	(D)	(D)	(D)
		1994	(NA)	(D)	(D)	(D)	(D)
28741 87	Feed and other: Production.....	1995	900.7	223.5	234.5	228.0	214.7
		1994	897.1	228.4	242.9	215.7	210.1
		1995	(NA)	(D)	(D)	(D)	(D)
		1994	(NA)	(D)	(D)	(D)	(D)

Table 7. PRIMARY PRODUCTION OF INORGANIC FERTILIZER CHEMICALS, BY QUARTER: 1995 AND 1994  
(Thousands of short tons)

Product code	Product description	Year	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
28741 88	By grade:						
	Ortho (less than 65% P2O5):						
	Production.....	1995	11,658.5	2,932.3	2,943.9	2,867.8	2,914.5
		1994	11,252.1	2,695.7	2,873.6	2,822.4	2,860.4
28741 89	Super (more than 65% P2O5):						
	Production.....	1995	1,156.6	314.7	252.9	264.0	325.0
		1994	1,215.7	305.3	314.2	281.3	314.9
	Stocks on hand, end of month.....	1995	(NA)	29.1	33.2	29.2	27.4
28732 --	Urea original melt liquor (100% urea):						
	Production.....	1995	8,126.9	2,058.9	2,054.8	1,962.5	2,050.7
		1994	8,360.3	2,219.5	2,005.0	1,965.4	2,170.3
	Stocks on hand, end of month.....	1995	(NA)	373.7	420.0	313.8	362.6
28732 15	Of total production how much was:						
	Consumed in the manufacture of urea-ammonium nitrate solutions:						
	Production.....	1995	2,608.2	678.8	670.6	583.3	675.5
		1994	(NA)	(NA)	(NA)	(NA)	(NA)
28732 19	Prills:						
	Production.....	1995	2,589.5	607.2	624.8	605.2	752.3
		1994	(NA)	(NA)	(NA)	(NA)	(NA)
	Stocks on hand, end of month.....	1995	(NA)	22.6	(D)	35.4	46.8
28732 20	Granular:						
	Production.....	1995	2,667.5	704.8	692.4	713.0	557.3
		1994	(NA)	(NA)	(NA)	(NA)	(NA)
	Stocks on hand, end of month.....	1995	(NA)	273.4	274.2	165.4	189.2
28732 22	All other (solid and solution):						
	Production.....	1995	261.6	68.1	67.0	60.9	65.6
		1994	(NA)	(NA)	(NA)	(NA)	(NA)
	Stocks on hand, end of month.....	1995	(NA)	(D)	(D)	(D)	(D)
	1994	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: The 1992 and 1991 stocks on hand, end of quarter, were originally published in the Current Industrial Report Series, MQ28B, "Fertilizer Materials." Detail may not add to total due to independent rounding.

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
(S) Suppressed. Data did not meet publication standards of the Bureau of the Census.

(1) Represents total amount of original solution produced, including amounts used for fertilizer, explosive, and other uses and amounts consumed in manufacturing other products, such as nitrogen solutions.

(2) Excludes data for government-owned, privately operated plants.

(3) "Ammonium nitrate/calcium nitrate solutions" (product code 28731 73) and "All other two component products" (product code 28731 67) are combined with "solutions containing ammonia" (product code 28731 65) into a new product code (28731 68) for 1995.

Table 8. PRODUCTION, SHIPMENTS, AND STOCKS OF SUPERPHOSPHATES AND OTHER PHOSPHATIC FERTILIZER MATERIALS,  
 BY QUARTER: 1995 AND 1994  
 (Thousands of short tons)

Product code	Product description	Year	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
28742 --	Superphosphates and other phosphatic fertilizer materials:							
		Production (100% P2O5).....	1995	10,365.2	2,593.7	2,551.4	2,529.1	2,691.0
			1994	10,041.6	2,359.1	2,564.2	2,533.0	2,585.4
		Shipments, including interplant transfers (100% P2O5).....	1995	10,231.1	2,598.3	2,422.8	2,677.7	2,532.3
			1994	9,966.9	2,538.6	2,423.1	2,586.7	2,418.4
		Stocks on hand, end of quarter (gross weight).....	1995	(NA)	649.3	725.8	601.0	782.3
	1994	(NA)	499.7	641.3	602.8	704.4		
28742 15	Normal and enriched superphosphates: AND							
28742 41	Concentrated superphosphates (triple) (over 40% P2O5):							
		Production (100% P2O5).....	1995	807.8	172.8	186.0	163.2	285.8
			1994	876.8	217.0	224.7	216.4	218.7
		Shipments, including interplant transfers (100% P2O5).....	1995	767.7	192.3	190.9	163.7	220.8
			1994	811.9	220.2	186.3	197.7	207.7
		Stocks on hand, end of quarter (gross weight).....	1995	(NA)	70.0	77.8	99.4	79.9
	1994	(NA)	41.2	84.2	105.9	99.8		
28742 51	Ammonium phosphates: Monoammonium phosphates:							
		Production (100% P2O5).....	1995	1,528.8	445.0	355.3	367.0	361.6
			1994	1,754.1	449.0	434.9	448.3	421.9
		Shipments, including interplant transfers (100% P2O5).....	1995	1,497.6	425.7	328.0	413.2	330.8
			1994	1,788.6	485.1	434.6	478.1	390.8
		Stocks on hand, end of quarter (gross weight).....	1995	(NA)	155.7	223.3	134.6	150.8
	1994	(NA)	168.0	146.2	117.8	116.1		
28742 52	Diammonium phosphates:							
		Production (100% P2O5).....	1995	7,739.3	1,892.4	1,937.1	1,933.3	1,976.5
			1994	7,049.7	1,598.3	1,801.3	1,808.2	1,842.0
		Shipments, including interplant transfers (100% P2O5).....	1995	7,669.8	1,923.8	1,790.6	2,052.1	1,903.3
			1994	7,017.0	1,738.2	1,669.5	1,863.3	1,746.0
		Stocks on hand, end of quarter (gross weight).....	1995	(NA)	325.7	373.2	291.8	478.4
	1994	(NA)	216.4	373.2	301.5	405.9		

Table 8. PRODUCTION, SHIPMENTS, AND STOCKS OF SUPERPHOSPHATES AND OTHER PHOSPHATIC FERTILIZER MATERIALS,  
 BY QUARTER: 1995 AND 1994  
 (Thousands of short tons)

Product code	Product description	Year	Total	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
28742 55 28742 61	Other ammonium phosphates and other phosphatic fertilizer materials (1):						
	Production (100% P <sub>2</sub> O <sub>5</sub> ).....	1995	289.2	83.6	73.1	65.5	67.0
		1994	361.0	94.8	103.3	60.0	102.8
	Shipments, including interplant transfers (100% P <sub>2</sub> O <sub>5</sub> ).....	1995	295.9	56.5	113.3	48.7	77.3
		1994	349.4	95.0	132.8	47.6	74.0
	Stocks on hand, end of quarter (gross weight).....	1995	(NA)	97.9	51.6	75.2	73.1
		1994	(NA)	74.0	37.7	77.6	82.6

Note: The 1995 and 1994 stocks on hand, end of quarter, were originally published in the Current Industrial Report Series, MQ28B, rounding.

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

(1) "Other ammonium phosphates" (28742 55) is combined with "Other phosphatic fertilizer materials" (28742 61) to avoid disclosure of figures for individual companies.

Table 9. PRODUCTION AND STOCKS OF SULFURIC ACID, BY PROCESS, BY QUARTER: 1995 AND 1994  
(Thousands of short tons of 100% H<sub>2</sub>SO<sub>4</sub>)

Quarter and year	Production				Sulfuric acid produced through decomposition	Spent acid used in fortification (2)	Stocks (gross) at producing plants at end of period
	Sulfuric acid, gross, new and fortified			New acid (1)			
	Total	Oleum grades	Other than leum grades				
<b>1995</b>							
Total.....	47,519.3	1,567.1	45,952.2	43,927.7	(D)	(D)	(NA)
First Quarter.....	11,627.2	379.5	11,247.7	10,805.6	(D)	(D)	652.1
Second Quarter.....	11,877.9	390.7	11,487.2	11,004.9	(D)	(D)	642.1
Third Quarter.....	11,909.8	388.8	11,521.0	10,946.0	(D)	(D)	679.3
Fourth Quarter.....	12,104.4	408.0	11,696.4	11,171.2	(D)	(D)	788.2
<b>1994</b>							
Total.....	44,861.9	1,594.9	43,267.0	42,311.1	(D)	(D)	(NA)
First Quarter.....	10,658.6	312.5	10,346.1	10,075.0	(D)	(D)	623.0
Second Quarter....	11,237.8	443.5	10,794.3	10,617.7	(D)	(D)	594.4
Third Quarter.....	11,344.5	428.9	10,915.7	10,660.2	(D)	(D)	518.7
Fourth Quarter.....	11,620.9	410.0	11,210.9	10,958.1	(D)	(D)	696.2

Note: Detail may not add to total due to independent rounding.

(D) Data withheld to avoid disclosing figures for individual companies.

(1) Represents gross production of sulfuric acid less acid produced through decomposition and spent acid used in fortification.

(2) Spent acid fortified by the addition of sulfur trioxide.

Table 10. PRODUCTION, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF FERTILIZER MATERIALS: 1995 AND 1994

(Quantity in thousands of metric tons)

Product code	Product description	Production (quantity)	Exports of domestic merchandise (quantity)(1)	Percent exports to production (quantity)	Imports for consumption (quantity)(2)	Apparent consumption (quantity)(3)	Percent imports to apparent consumption (quantity)
1995							
28731 30							
28731 32	Ammonia, synthetic anhydrous.....	15,777.1	(D)	(D)	(D)	(D)	(D)
28731 50	Ammonium nitrate, original solution.....	7,698.4	89.6	1.2	720.6	8,329.4	8.7
28731 66	Nitrogen solutions, ammonium nitrate/urea solutions.....	3,266.4	4.9	0.2	628.2	3,889.7	16.2
28731 56							
28731 58	Ammonium sulfate.....	2,399.5	917.0	38.2	433.6	1,916.1	22.6
28732 --	Urea.....	7,368.0	881.3	12.0	2,936.0	9,422.8	31.2
28741 81							
28741 85	Phosphoric acid.....	11,907.3	(D)	(D)	19.5	(D)	(D)
28742 15	Normal and enriched superphosphate AND						
28742 41	Concentrated superphosphate.....	1,659.8	719.9	43.4	-	939.9	-
28742 52	Diammonium phosphates.....	13,284.7	10,058.8	75.7	21.3	3,247.2	0.7
28193 --	Sulfuric acid, gross.....	43,081.9	170.2	0.4	1,925.7	44,837.4	4.3
1994							
28731 30							
28731 32	Ammonia, synthetic anhydrous.....	16,200.4	(D)	(D)	(D)	(D)	(D)
28731 50	Ammonium nitrate, original solution.....	7,767.5	55.0	0.7	507.4	8,219.9	6.2
28731 66	Nitrogen solutions, ammonium nitrate/urea solutions.....	3,259.2	119.1	3.7	311.8	3,451.9	9.0
28731 56							
28731 58	Ammonium sulfate.....	2,342.8	762.4	32.5	455.6	2,036.0	22.4
28732 --	Urea.....	7,579.6	913.5	12.1	3,160.4	9,826.5	32.2
28741 81							
28741 85	Phosphoric acid.....	11,597.5	(D)	(D)	15.7	(D)	(D)
28742 15	Normal and enriched superphosphate AND						
28742 41	Concentrated superphosphate .....	1,738.1	809.0	46.5	-	929.1	-



Table 10. PRODUCTION, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF FERTILIZER MATERIALS: 1995 AND 1994  
(Quantity in thousands of metric tons)

Product code	Product description	Production (quantity)	Exports of domestic merchandise (quantity)(1)	Percent exports to production (quantity)	Imports for consumption (quantity)(2)	Apparent consumption (quantity)(3)	Percent imports to apparent consumption (quantity)
28742 52	Diammonium phosphates .....	12,299.8	9,194.5	74.8	15.3	3,120.6	0.5
28193 --	Sulfuric acid, gross.....	40,672.6	140.2	0.3	2,134.5	42,666.9	5.0

Note: For comparison of SIC product code numbers, HTUSA import numbers, and Schedule B export numbers, see table 11.

-- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

(1) Source: Bureau of the Census report EM 545, U.S. Exports.

(2) Source: Bureau of the Census report IM 145, U.S. Imports for Consumption.

(3) Apparent consumption is derived by subtracting exports from manufacturers' production plus imports. Apparent consumption does not include any adjustments for changes in inventories.

Table 11. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED PRODUCT CODES WITH SCHEDULE B EXPORT NUMBERS, AND HTSUSA IMPORT NUMBERS: 1995

Product code	Product description	Export number (1)	Import number (2)
28731 11	Nitric acid.....	(NA)	2808.00.0010
28731 30		2814.10.0000	2814.10.0000
28731 32	Anhydrous ammonia, synthetic.....	2814.20.0000	2814.20.0000
28731 50	Ammonium nitrate, original solution.....	3102.30.0000	3102.30.0000
28731 56			
28731 58	Ammonium sulfate.....	3102.21.0000	3102.21.0000
28731 66	Nitrogen solutions, ammonium nitrate/ urea solutions.....	3102.80.0000	3102.80.0000
28732 00	Urea.....	3102.10.0000	3102.10.0000
28742 15	Normal and enriched superphosphates.....	3103.10.0010	3103.10.0010
28742 41	Concentrated superphosphates.....	3103.10.0020	3103.10.0020
28742 51	Monoammonium phosphates.....	(NA)	3105.40.0010
28742 52	Diammonium phosphates.....	3105.30.0000	3105.30.0000
28741 81		2809.20.0010	2809.20.0010
28741 85	Phosphoric acid.....	2809.20.0020 2809.20.0030	2809.20.0020 2809.20.0030
28193 --	Sulfuric acid, gross.....	2807.00.0000	2807.00.0000

(NA) Not available.

(1) Source: 1995 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

(2) Source: Harmonized Tariff Schedule of the United States, Annotated (1995).