



1978 Annual Report

Report of the Board of Directors for the Year Ended December 31, 1978 of American Cyanamid Company, Wayne, N.J. 07470

Research and Development

An aggressive, well-financed and productive research and development program is vital to the growth and progress of any multinational corporation in today's highly competitive marketplace.

Over the past five years we have been transforming our R&D program into a dynamic search for those "break-through" products which will have the greatest possible effect on the company's future sales and profits.

The first results in our search for tomorrow's products began to emerge in 1978. Many of the promising new products are in the medical area, but we are also developing new compounds which can have a major effect on our other business segments: agriculture, specially chemicals, consumer products and Formica® brand products.

A special report on Cyanamid's R&D program, with details on some of those new products which hold the most promise, begins on page 4 of this report.

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Annual Meeting of Stockholders

The 1979 annual meeting of stockholders of American Cyanamid Company will be held at 11 a.m. on Monday, April 16, in the Phoenix Room of the Canal National Bank Building, 1 Canal Plaza, Portland, Maine.

Form 10-K available to stockholders

A copy of the company's 1978 annual report on Form 10-K, including financial statements and schedules, as filed with the Securities and Exchange Commission, will be made available free of charge to Cyanamid stockholders. Copies of exhibits attached to the Form 10-K will also be made available at a charge. Requests should be addressed to the Secretary of the company.

Financial Highlights

American Cyanamid Company and Subsidiaries Financial Highlights

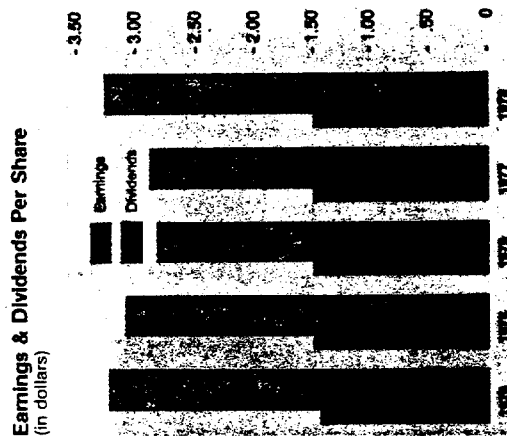
(Dollars in thousands except per share amounts)

Operating Results

	1978	1977
Net sales	\$2,745,745	\$2,412,311
Earnings of consolidated companies before taxes on income	239,075	216,371
Taxes on income	90,000	84,100
Equity in net earnings of associated companies	6,868	7,129
Net earnings	155,943	139,400
Dividends	71,422	71,347
Per share of common stock		
Net earnings	3.26	2.92
Dividends	1.50	1.50
Depreciation and depletion	120,150	104,370
Additions to plants, equipment and facilities	251,034	235,451

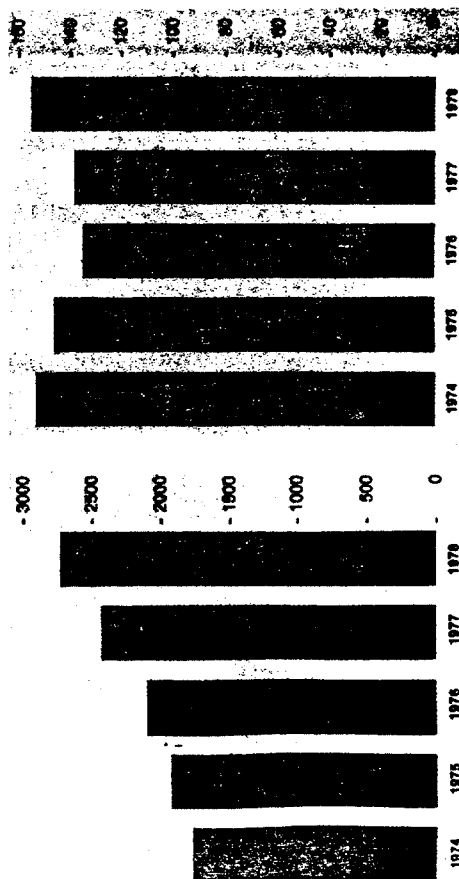
Year-end Position

Total assets	\$2,526,149	\$2,222,251
Funded debt	520,184	442,420
Stockholders' equity	1,254,507	1,168,891
Per share of common stock	26.24	24.47
Shares outstanding at end of year	47,814,582	47,771,594
Number of stockholders	92,733	99,294
Number of employees	43,968	43,750



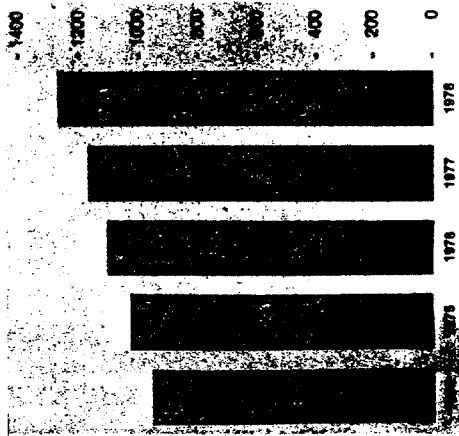
Net Sales

(in millions of dollars)



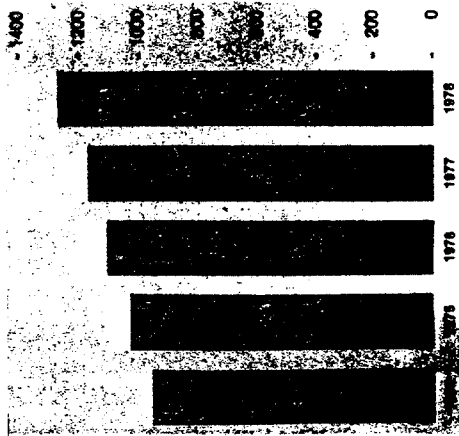
Net Earnings

(in millions of dollars)



Stockholders' Equity

(in millions of dollars)



To Our Stockholders

To Our Stockholders:

I am pleased to report that your company achieved record sales and earnings in 1978 and increased the dividend for the first quarter of 1979.

Net earnings rose 11.9% from the previous year on a 13.8% increase in worldwide sales, which reached \$2.7 billion. Net earnings were \$155.9 million or \$3.26 per share.

All of our five businesses contributed to the sales increase. Sales of Formica® brand products, which had the benefit of a full year's operation of Formica International Limited as a 100%-owned subsidiary, were up 25%. Medical sales were up 16%; agricultural 10%; specialty chemicals 12%, and consumer products 11%.

Our foreign operations were exceptionally strong, with sales increasing by 19% over the previous year. The most significant increases were achieved in medical and agricultural products in Europe and in Formica brand products in Latin America. Toiletries and fine fragrances registered important gains in Europe and Latin America.

Operating earnings were \$310 million, up 12.3% for the year. Four of our businesses contributed to the increase, with specialty chemicals and medical showing the largest percentage gains. Earnings from our consumer products were lower, reflecting increased competition in the shampoo business and the costs of important business-building programs for new and existing products undertaken during the year.

In consideration of increased earnings in 1978, the board of directors increased the dividend for the first



James G. Atleek,
Chairman of the Board, President and Chief Executive Officer

quarter of 1979 from 37½¢ to 40¢ per share.

We are particularly encouraged by the progress of our research efforts. During 1978, we began clinical testing of three promising medical compounds, including cetaben sodium, our anti-atherosclerosis drug. The other compounds are an anti-anxiety agent without the usual sedative effect of tranquilizers and an analgesic with the effectiveness of codeine but without codeine's addictive characteristics. We continued animal testing of our two new anti-cancer agents, and results to date are favorable.

Our research expenditures were \$108 million, up 12% from 1977. (A detailed report on research operations begins on page 4.)

Our efforts to build for the future were further strengthened by the largest capital spending program in our history. Capital investment was \$251 million, bringing our total capital expenditures over the past five years to \$1.1 billion. During this period, we increased our total plant investment by almost 80%. With near-term capacity needs now satisfied, our capital expenditures will be lower in 1979.

It should be noted that not all of this capital has been invested in productive units. In 1978, for example, \$19 million was spent for new pollution control facilities. Since the beginning of 1974, we have invested a total of \$121 million in facilities to control pollution, and we expect to spend another \$27 million in 1979. Operating costs of these facilities are now running at about \$54 million per year, representing 6% of our total operating costs.

Our 1978 capital expansion program

was supported by borrowing \$150 million, of which \$50 million was used to refinance existing funded debt. Even with this added long-term debt, we are maintaining a prudent debt ratio of about 30% of total capitalization.

We continue to put heavy emphasis on improving productivity throughout Cyanamid. In 1978, we instituted a cost reduction system which offers promise of significant profit improvement. Energy conservation is another area of major effort.

During the year various activities were initiated or expanded to help insure the continuity of managerial talent. Supervisory training programs were started at some locations and expanded at others. We continued to fulfill our affirmative action obligations, and at year-end, minorities and women were a larger percentage of our domestic employee population than a year ago. More importantly, these employees are moving into the mainstream of management activities.

There were some significant changes in Cyanamid's corporate management during the year. Dr. Nolan B. Sommer, a senior vice president and director, retired in July after 33 years of distinguished service. W. Perry Brown joined the company as vice president and director of personnel in June. In October, John K. Bangs was elected secretary of the company. Lloyd N. Cutler, a partner in the law firm of Wilmer, Cutler & Pickering, was elected to our board in February, 1979.

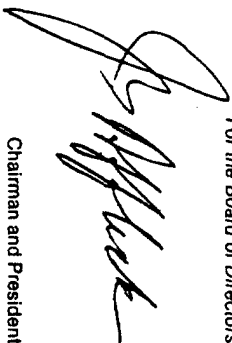
There also have been important divisional changes. We established separate research divisions with worldwide responsibilities for agricultural, medical, consumer and Formica brand

products. This follows the pattern set by the formation of our global chemical research division several years ago. We also reorganized our consumer products business, creating four operating divisions to meet our growth requirements.

Looking to the future, we believe that our programs to enhance the development of employees and our increased support for research, manufacturing and marketing are providing us with a firm base for excellent progress in the years ahead.

I would like to extend the appreciation of the board of directors to our employees, customers and suppliers for their support during the year. Together, we can expect to set new records in 1979.

For the Board of Directors



Chairman and President

To Our Stockholders

Research & Development

A \$100-million-a-year quest for tomorrow's products.

Over the past five years, we have achieved a major transformation in our research effort.

We have redirected our emphasis to seek radical new routes to innovation, to search out strikingly new products that will ensure significant growth and success for the company.

We have targeted our efforts on those scientific areas where our particular expertise can be brought to bear on the largest market opportunities.

In 1978 we saw the first results of this effort emerge from our laboratories.

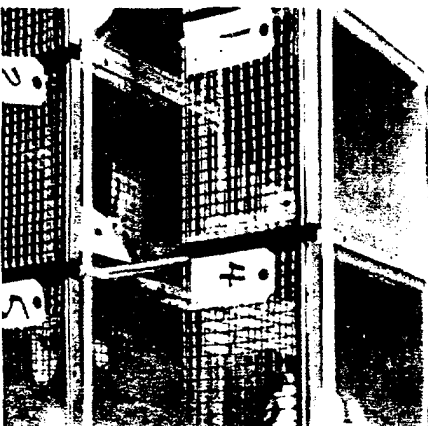
In the pharmaceutical field, we began clinical testing of three drugs and we anticipate that another seven will be ready for clinical trials in 1979.

Our heart drug candidate, celabren sodium, exemplifies our research strategy. It is designed to treat atherosclerosis, the most prevalent form of heart disease, through a new concept of what it is that causes plaque to form on the walls of arteries and block passage of the blood. The concept—called a model—has not yet been proven. Therefore, the clinical trials which are currently underway are a test for both the drug and the model. Present indications are that this product would prevent plaque buildup and possibly reverse this condition where it has already begun. It might also treat senility caused by atherosclerosis. The results of the celabren trials, to date, remain favorable, although we still have to demonstrate its effectiveness in man.

During 1978, clinical trials were begun on an anxiolytic, or anti-anxiety



Clockwise from top left: Lederle scientists use an ultrasonic scanner to learn how to measure the effects of celabren sodium on atherosclerosis. A plant physiologist at Princeton, N.J., checks results of a plant growth regulator on soybeans; Research on swine nutrition is conducted at a Cynamid farm on Taiwan; Rats are tested for reaction to anti-anxiety compounds at Lederle's Pearl River, N.Y., laboratories.



Research & Development

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agent, which, in animals, appears to eliminate the sedative and other undesirable side effects of existing tranquilizers. This, and a number of other experimental products, are based on new models of the basic causes of the target diseases.

Obviously, the risks are higher for this sort of path-breaking research; but, on the other hand, the rewards are likely to eclipse less ambitious, "me-too" research.

Other new product candidates have not required new models. We began clinical trials in 1978 on an analgesic we believe will prove to be as effective as codeine without its addictive characteristics.

Among other products in the early stages of development are two new anti-cancer agents, both active against leukemia and solid tumors. One of the compounds, an anthraquinone, is undergoing evaluation by the National Cancer Institute.

Our first major new pharmaceutical to reach the market will probably be piperacillin, a semi-synthetic antibiotic effective against difficult-to-control gram-negative and anaerobic infections. The compound was developed by Toyama Chemical Company of Japan, and we hold the option to

acquire an exclusive license for all markets outside of Japan. Now in the concluding phase of clinical testing, piperacillin was the subject of 18 studies reported at the 18th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy, held in Atlanta last fall. We expect to obtain approval to market piperacillin in some foreign countries late in 1979, and in the United States in 1981.

Our agricultural research also has generated encouraging product leads. We entered the two-billion-dollar herbicide field during the past few years with two products, Prowl® and Avenge®, both of which have gained excellent acceptance. We now are developing Combat® herbicide to complement uses of Prowl in corn and soybeans. Combat is expected to be introduced in the United States in 1981.

Our agricultural scientists are now developing a number of new insecticides. One of these products is expected to help control imported fire ants which currently infest 190 million acres in the southern United States. Results of U.S. Department of Agriculture field tests conducted during 1978 demonstrated this compound's effectiveness. Other products used for the control of the fire ant either have been banned by the Environmental Protection Agency or approved with severe restrictions.

We are doing research on plant growth regulators which may some day lead to dramatic boosts in the yields of major food crops. It is still too early to appraise the prospects of our leads in this area.

We devote a significant portion of

*Trademark



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Research & Development

our agricultural research effort to animal health. A new anthelmintic product, Tramisol® hog wormer mix, to control major intestinal parasites in swine, was introduced last fall, and a new implant for lamb growth promotion, Vigozoo®, began its initial sales in Europe late in 1978. We have in development two new antibiotic candidates for health and growth promotion and a cattle tickicide, all of which should be ready for marketing in the early 1980's.

In the field of specialty chemicals, we are working on a number of new products and more efficient processes.

Our chemists are experimenting with a new group of polyacrylamide flocculants for ores and concentrates that will also speed solidification of slurry waste in mined areas for use in land reclamation. Other polyacrylamide and polyamine flocculants are under test for tertiary oil recovery.

We are working to develop chemicals known as phosphate boosters. These would substantially increase phosphate recovery for fertilizer and industrial use and could thus extend the life of world phosphate reserves.

Our chemists are now testing a phosphine-derived promoter to be used by the mining industry as a flotation reagent in the recovery of metallic ores.

In the specialty elastomer field, we are introducing two new products. Norsorex®, which we have licensed from Cdf Chimie of France, is a synthetic elastomer having unusual toughness in soft formulations, making it useful in gaskets and automobile door

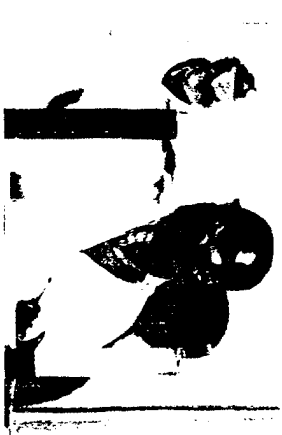
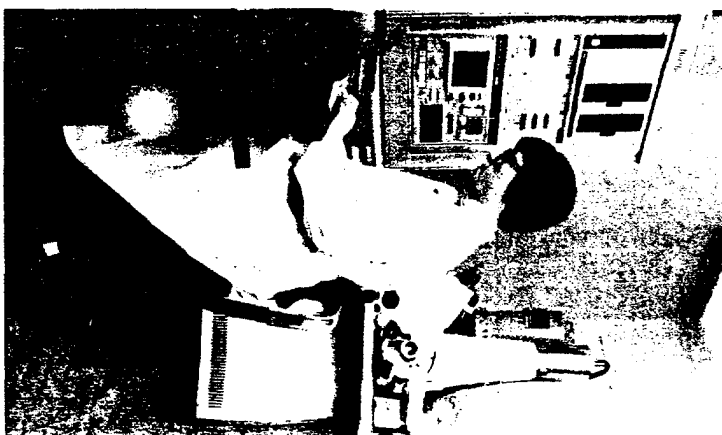
and trunk seals. The other product, Cylor®, is a new thermoplastic elastomer with outstanding flexibility, abrasion resistance and tolerance for lubricants that make it especially useful in automotive applications such as front wheel drive assemblies.

Cyanamid's consumer products research covers a gamut of products, with emphasis on hair preparations, fragrances and household products. This effort is being expanded rapidly. Three fragrances were developed within the past five years, of which two — men's and women's products bearing the Pierre Cardin name — have been notable successes. The third, our new lifestyle fragrance called CIE®, is starting out equally well.

Today, our technology is also focused on personal cleanliness, the control of body odors, and household cleaning and disinfecting. Lemon-So®, our new liquid cleaner, is doing well in test markets. In hair sprays, where Breck® products lead the field, good hair holding has always been accompanied by some degree of tackiness. Our goal is to develop a super-hold product which will eliminate this problem.

Cyanamid's research in Formica® brand products emphasizes the development of new technology to support innovation in design and application. Our designers are also working on methods to improve print pattern fidelity and to provide unique surface textures and finishes. Much of our longer-range research in the laminates field is geared to raw material and energy conservation.

Research is of vital importance to the future of our company, and we are



Clockwise from top left: Improvements in auto exhaust catalysts are studied in this scanning electron microscope at our chemical research labs at Stamford, Conn.; Formica Corporation's color computer at Cincinnati color-matches inks; Consumer products research includes analysis of after-shave lotion in the fragrance lab at Clifton, N.J.; A chemist at Stamford measures effect of new flocculant on sewage.

Research & Development

proud of the accomplishments of our 1,500 scientists. These talented men and women work in 19 Cyanamid laboratories located in the United States, Canada, England, Egypt, Italy, the Netherlands, Brazil, the Philippines and Taiwan. Although our research expenses have been increasing rapidly in recent years and were \$108 million in 1978, we continue to believe that they are fully justified by the results that are being achieved.

Science and technology are rapidly developing new products that prolong human life and make living healthier and more enjoyable for everyone. To that attainable goal, Cyanamid's research is firmly committed.



Agriculture

	(\$ in millions)			
	Worldwide Sales	% Total Sales	Operating Earnings	% Total Operating Earnings
1978	\$611	22	\$ 83	27
1977	\$555	23	\$ 79	29
1976	\$492	24	\$ 83	34
1975	\$524	27	\$162	61
1974	\$425	24	\$129	48

Agricultural sales rose 10% and operating earnings were up 4% in 1978.

Pesticides continued to set the pace for Cyanamid's advances in agricultural sales and operating earnings. Three research developments of recent years played major roles in our sales progress during 1978. These are Counter® soil insecticide and Prowl® and Avenge® herbicides.

Counter sales increased significantly in its major market, the United States. This product has been among the U.S. market leaders since 1977 for the control of corn rootworms. This year, combined sales of Counter and Thimet® soil and systemic insecticide gave Cyanamid the largest share of this important segment of the domestic pesticide market.

Prowl, which controls weeds infesting corn, cotton, soybeans, barley, rice and a number of other crops, showed strong sales gains worldwide, particularly in the United States, West Germany and Brazil. As a result of the October, 1977 explosion in the Prowl



plant at Hannibal, Missouri, operating profits were depressed. Reconstruction should be complete in early 1980, and we expect that Prowl profitability will add significantly to our agricultural earnings the following year.

Avenge, which protects small grains such as wheat, barley and rye from wild oat weeds, continued to generate excellent sales gains, increasing its market share in England, Scandinavia, Canada and the United States.

Sales of animal feed and health products were significantly higher in 1978, with improved performance in the United States and continued progress in Europe and Latin America. Aureomycin® chlortetracycline product



Agriculture

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sales were particularly strong, primarily because of greater livestock and poultry consumption in the United States. In October, the U.S. Food and Drug Administration advised that requests by the industry and agricultural organizations for hearings on the safety of penicillin and tetracycline antibiotics in animal feeds will be granted. Although we do not anticipate a final resolution of this matter until 1981 at the earliest, we are optimistic as to its outcome. We believe that 27 years of safe usage without evidence of hazards sustains our position that these products are safe, and they clearly are of considerable economic benefit to producers, and hence to consumers. The extent of this benefit has been documented by the FDA itself, which estimates that without any antibiotics in animal feeds, consumers would pay an additional \$1.9 billion per year for meat.

Avoltan® avoparcin, an animal growth promoter introduced in England two years ago, has done exceptionally well. This product of Cyanamid research is now widely used in the European swine and poultry markets and we hope to introduce it in the United States in the early 1980's to improve growth and feed efficiency in cattle.

Fertilizer volume was ahead of last year, but because of price declines, we were able to achieve only a modest gain in dollar sales. Since costs continued to escalate, operating earnings were significantly lower for the year. Our new ammonia plant at Fortier, Louisiana, was completed on schedule toward the end of 1978, adding to our profit potential in 1979 and thereafter.



Clockwise from top left: A farmer checks the effect of Counter 15-G on corn rootworms; A salesman reviews with farmers the advantages of Prowl herbicide in soybean weed control; The Agricultural Division's Animal Industry Department markets a wide range of health products for large and small animals; Cyrolane™ insecticide helps to protect this Egyptian cotton crop.

Medical

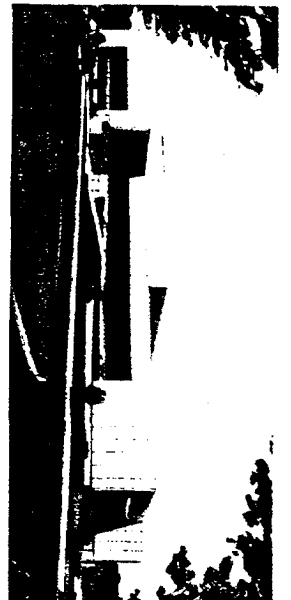
	(\$ in millions)			
	Worldwide Sales	% Total Sales	Operating Earnings	% Total Operating Earnings
1978	\$560	20	\$ 85	27
1977	\$484	20	\$ 70	25
1976	\$426	20	\$ 54	22
1975	\$400	21	\$ 46	17
1974	\$351	20	\$ 47	18

Medical sales increased 16% and operating earnings were 22% above 1977.

Antibiotic sales, paced by Minocin® minocycline, were higher in 1978. This fourth generation Lederle antibiotic has proven effective against numerous troublesome conditions, including respiratory infections associated with chronic bronchitis, acne and non-gonococcal urethritis, which is receiving increasing attention as today's most prevalent form of venereal disease.

Also substantially higher were sales of Dexon®, the first synthetic absorbable suture. Since we introduced this product eight years ago, we have developed numerous new forms, the latest being a fine filament braid with improved handling qualities. As a result of such innovations, the use of Dexon has become widespread and its share of the total sutures market has increased rapidly.

Our anticancer agents made significant advances in worldwide sales in 1978. The use of these products has



increased because of modern cancer treatment techniques.

Orimune®, the first oral polio vaccine in trivalent form, had sharply higher sales as a result of government mass immunization programs throughout the United States. Health authorities have placed new emphasis on such campaigns to combat public apathy and lower levels of immunization in recent years.

During 1978, we continued to experience growth in sales of Stressabs® 600 and Stressabs® with Iron vitamin formulations, and we also added a third member to this line, Stressabs® with Zinc. A major new multivitamin and multimineral supplement, Centrum®, was introduced late in the year. Centrum is formulated with 21 essential vitamins and minerals — more than other leading brands. Centrum contains each vitamin and mineral for which a U.S. recommended daily allowance has been established, plus manganese and potassium. Sales to date have been excellent. We are now mounting aggressive marketing campaigns for both Centrum and Stressabs, and expect to increase our vitamin sales and profit contributions significantly over the next few years.

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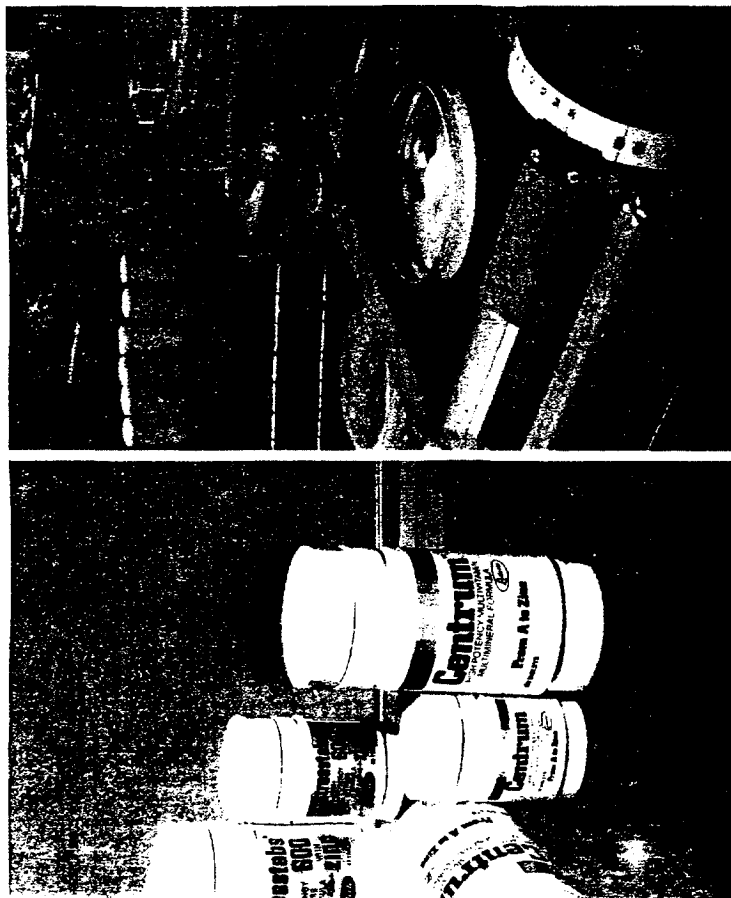
Medical

Sales of Lederle's standard products were up substantially during the year. Our success with these products, which are dispensed generically, is based upon Lederle's excellent reputation for quality.

While marketing programs for our vitamins and standard products will continue to be important to the company, the main thrust of our medical business is the pursuit of significant therapy advances and profit opportunities through research. We look for major additional profit contributions from our medical research in the early to mid-1980's when a number of our unique new products should begin to enter the marketplace.

In the meantime, we are introducing a number of products with lesser, but still significant, prospects. One example is Cinopal® fenbufen, a nonsteroid agent for the treatment of arthritis and related conditions. This product was approved for sale in some countries overseas as early as 1976 and should be marketed in the United States in 1981.

Clockwise from top left: New \$23 million toxicology lab at Pearl River, N.Y., will be completed in early 1980; Lederle's successful line of vitamins is broadened by Centrum, a new multivitamin and multimineral supplement; Piperacillin's activity against resistant bacteria is monitored as advanced clinical trials of the new antibiotic continue in the U.S. and Europe; A film on TB control produced by Cyanamid is shown to these Pakistani villagers; A Davis & Geck worker uses a microscope to attach Dexon S sutures to surgical needles.



Specialty Chemicals

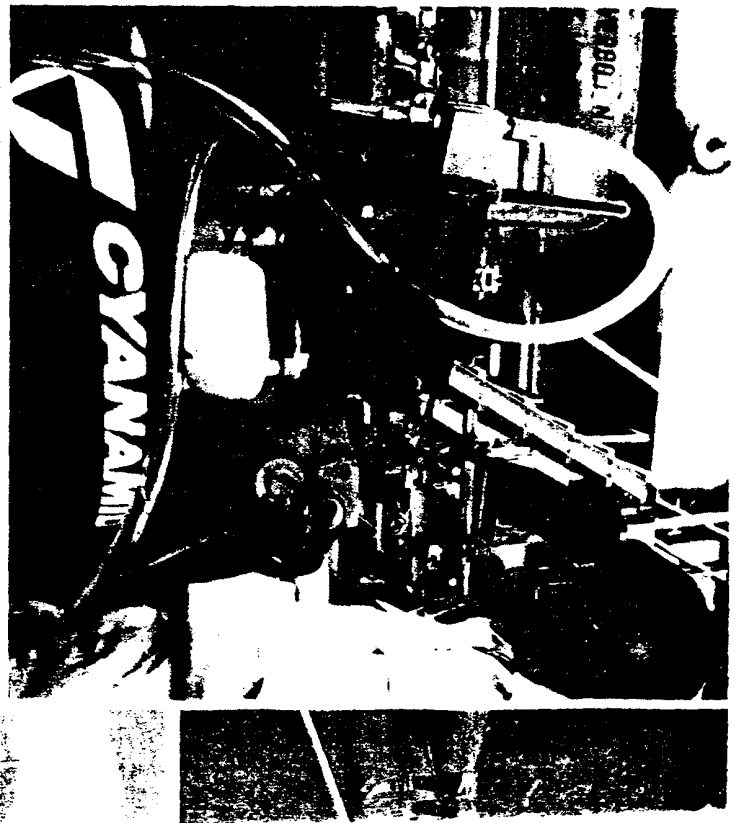
Sales of specialty chemicals were up 12%, and operating earnings advanced 21%.

Recent products and processes developed by Cyanamid research sparked our progress during 1978. Our expanding lines of organic flocculants have experienced brisk worldwide demand to meet pollution-control, mining and paper industry needs.

Nearly every commercial and military aircraft uses Cyanamid's structural adhesives, primers or honeycomb core. Sales of these products reached record levels in 1978, and Cyanamid is well positioned to participate in the resurgence of the commercial aircraft market into the 1980's. Diversification into high-performance industrial adhesives is underway with several new products for automotive and appliance markets introduced in 1978.

Cyanamid's refinery and auto-exhaust catalysts also achieved record sales for the year, and we now plan to build three plants to bolster our global position. During 1978, we developed a faster acting catalyst

	Worldwide Sales	% Total Sales	% Total Operating Earnings
1978	\$622	30	26
1977	\$735	31	24
1976	\$688	29	28
1975	\$598	30	16
1974	\$610	34	28



Clockwise from top left: A Cyanamid technical serviceman prepares our paper chemicals for use at a customer's mill in Holland; Cressan acrylic fibers went into this fashionable line of jogging suits; Cyanamid pigments provide color to inks used to print everything from food packaging to magazines; Improved strength and wear properties for tires of all sizes are made possible by Cyanamid's rubber processing chemicals; Cyanamid water soluble polymers are used to improve liquid and coal solids separation at this coal processing plant in Pennsylvania; Cyanamid resins are used by auto paint makers for a higher quality finish.



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Specialty Chemicals

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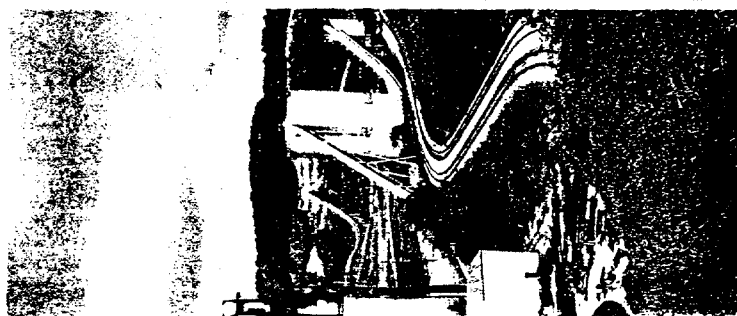
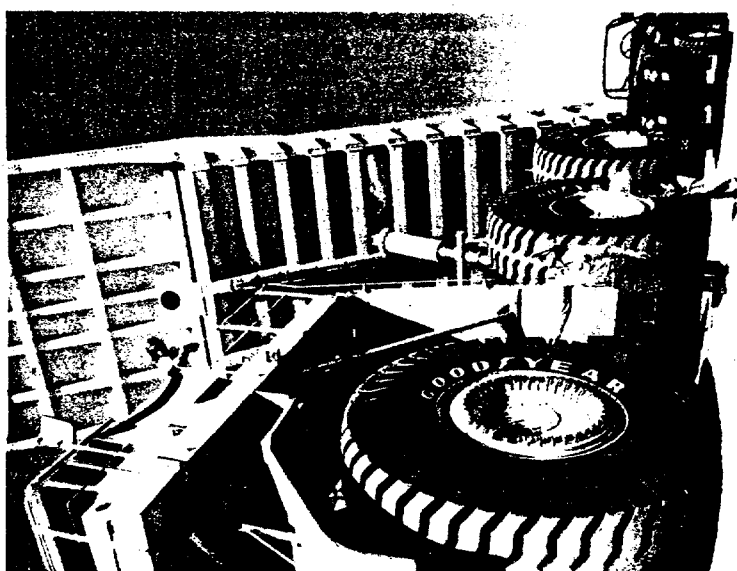
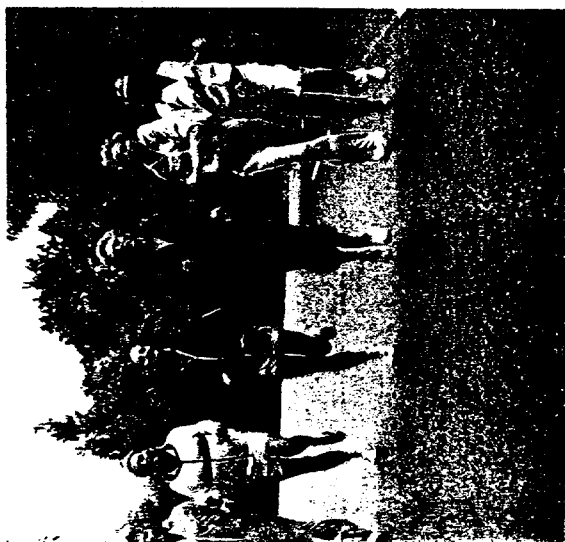
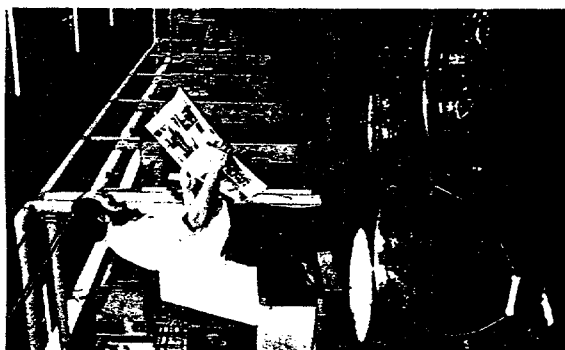
which will be used initially with 1980 model cars. Also, in cooperation with Japan Catalytic International, Inc., our partner in the auto-exhaust catalyst field, we perfected a three-way catalyst which will be used beginning with the 1981 model year. In addition to carbon monoxide and hydrocarbons which are removed by our current two-way catalyst, the new product also reduces emissions of nitrogen oxide.

Sales of titanium dioxide also were higher for the year. This, coupled with manufacturing cost improvements, led to better operating performance for this white pigment that is used in paint, paper, printing ink and plastics.

Cyanamid's chemicals business includes fibers, a field long affected by overproduction. New marketing programs brought 1978 sales of Creslan® acrylic fiber to the highest level in the past five years, with increasing receptivity in apparel and home furnishings applications. At the same time, production cost improvement programs have enabled us to increase profitability.

New plants, with modern, efficient production processes, are vital to our progress. During 1978 we benefited from a unique, low-cost process for glyoxal, which is used in textile chemicals, and a continuous process to make beta naphthol, a basic ingredient of dyes and color pigments.

Our future in specialty chemicals will be aided by new plants valued at about \$100 million which began production in 1978 or early 1979. These include U.S. facilities for sulfuric acid, acrylamide, aniline, mononitrobenzene, nigrosine, and Tobias acid, and a unit for acrylamide in Holland.



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Consumer Products

	Worldwide Sales	% Total Sales	Operating Profit	% Total Operating Earnings
1978	\$357	13	\$ 30	10
1977	\$321	13	\$ 33	12
1976	\$301	14	\$ 30	12
1975	\$288	14	\$ 21	8
1974	\$241	13	\$ 14	5

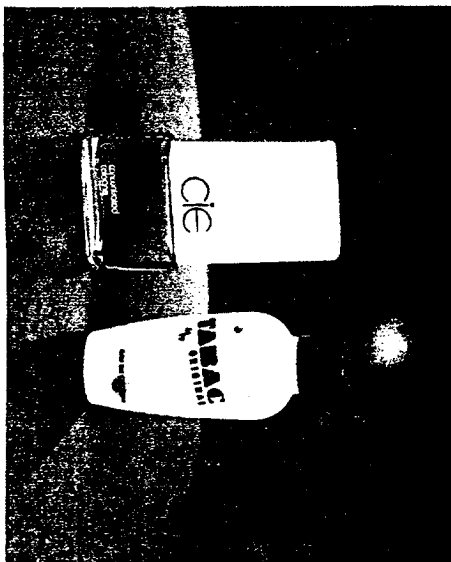
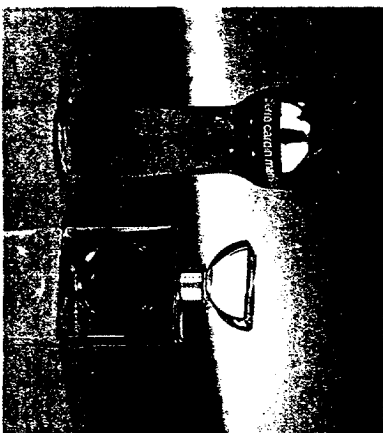
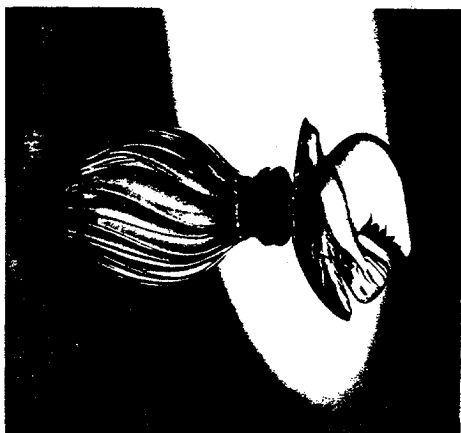
Sales of consumer products rose 11%, but operating earnings declined 10%.

Our consumer products include Shulton's Old Spice® toiletries and Breck® hair preparations; Nina Ricci®, Pierre Cardin®, Cardin de Pierre Cardin® and CIE® fine fragrances, and Pine-Sol® liquid cleaner.

During the year, we invested in a number of major new-product programs, building for our future. CIE, our new lifestyle fragrance, was aggressively promoted. We began market tests for Lemon-Sol® liquid cleaner, our latest household product, and re-formulated Breck hair-care products were introduced. While these programs are expected to improve the profitability of our consumer products in the years ahead, their costs served to depress 1978 operating earnings.

Old Spice men's toiletries generated significant global sales gains in 1978, particularly in the United States, England and Japan. Miss Breck®

*Trademark



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Consumer Products

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aerosol hair spray, with an environmentally safe, non-fluorocarbon propellant, continued to hold market leadership. Improved formulas enabled Breck® creme rinse to better its market position. However, Breck® shampoos lost ground in an extremely competitive market which saw the introduction of no less than seven major new brands.

The Jacqueline Cochran prestige fragrances showed significant sales progress in 1978. Nina Ricci's L'Air du Temps® strengthened its position as the leading French fragrance in the United States. Pierre Cardin men's fragrance generated an excellent sales gain, and the newer Cardin de Pierre Cardin for women moved ahead as well.

Jacqueline Cochran's newest fragrance, CIE, exceeded our expectations in its first year of national marketing. We recently acquired U.S. rights to a product for men, the European fragrance Tabac Original®. These, and related products now under development, should play an expanding role in our consumer products business in the years ahead.

In household products, sales of Pine-Sol, the number one liquid cleaner in the United States and Brazil, continued to increase throughout the Americas. Our new product, Lemon-Sol liquid cleaner, was successful in test markets in 1978, and is now being further tested in an enlarged market area.

Cyanamid's consumer products include (counterclockwise from top left) L'Air du Temps by Nina Ricci, Pierre Cardin men's fragrance and Cardin de Pierre Cardin for women, CIE fine fragrances for women and Tabac Original for men, the Old Spice line of men's toiletries, Pine-Sol cleaner-disinfectant, and Breck preparations for care of the hair.



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Formica® Brand Products

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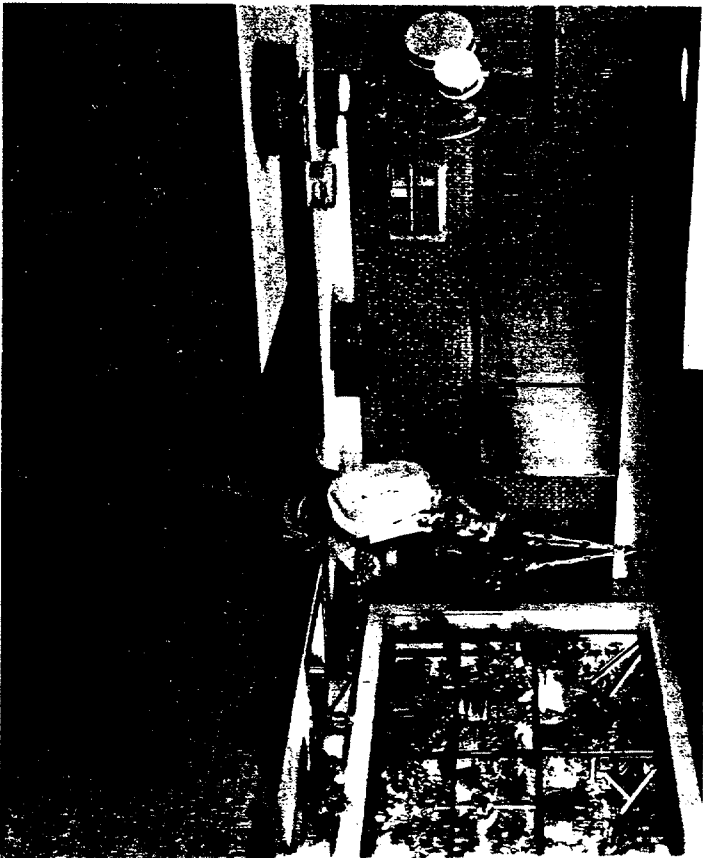
	Worldwide Sales	% Total Sales	Operating Profit	Operating Profit Margin
1978	\$208.1	100	\$11.2	5.4%
1977	\$217	100	\$12.2	5.6%
1976	\$189	9	\$10.9	5.8%
1975	\$152	8	\$9.5	6.2%
1974	\$153	8	\$8.5	5.5%

Sales of Formica® brand products rose 25% and operating earnings were up 18%.

The products in this group include Formica® brand decorative laminates, melamine component panels and coated wall coverings.

Our Latin American operations continued to set the sales pace in 1978, with excellent performances in Venezuela, Brazil and Mexico. To stay abreast of demand, in 1979 we will complete construction that will double the capacity of our Venezuelan plant. We plan to increase the capacities of our Brazilian and Mexican plants in the following year.

The Formica decorative laminates business in the Eastern Hemisphere was developed over many years by Formica International Limited (FIL) over which Cyanamid acquired full control in April, 1977. FIL's profitability was far from satisfactory at that time. Over the ensuing months, we began to modernize its operations, discontinuing unprofitable lines and improving pro-



Formica® Brand Products

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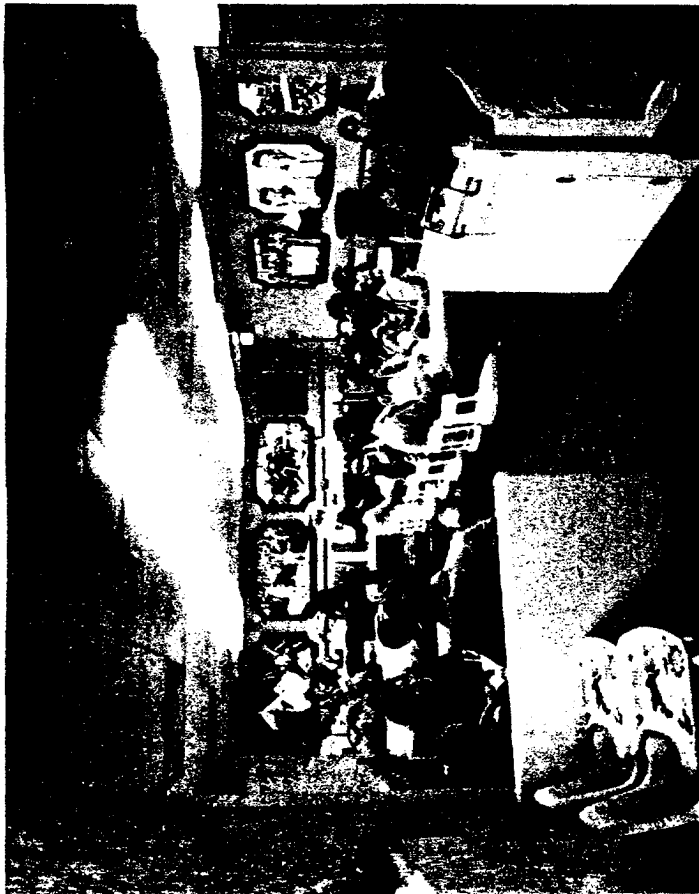
duction, marketing and distribution. Progress was most satisfactory in 1978, and operating profits moved ahead of our expectations.

U.S. sales of decorative laminates also were up for the year. However, U.S. operating earnings were adversely affected by high costs caused by the severe winter weather early in 1978 and the start-up of our plant expansion at Evendale, Ohio.

Sales of Formica melamine component panels, especially designed for wall storage systems and other vertical applications, moved ahead of competitive brands in the United States and Canada during 1978.

Formica Corporation's long-range sales potential is being enhanced by a design advisory board which completed its first full year in 1978.

Consisting of 18 leading interior architects and designers, the board meets regularly with Formica's management to discuss new design and application possibilities. During 1978 projects in development ranged from a new line of juvenile furniture to furnishings for health-care facilities. The program was supported by a series of grants from Formica Corporation.



Clockwise from top left: This new kitchen features doors and drawer fronts crafted of Formica brand melamine component panels; Formica brand decorative laminates are used throughout this McDonald's restaurant in London; Two members of Formica Corporation's Design Advisory Board, William Turnbull, Jr., and Margaret Larcade, consult with Formica design director J. Allen Montel (standing); Egon Von Furstenberg designed this unique octagon table using Formica brand decorative laminates.

Operating Results — Cyanamid's consolidated sales in 1978 were \$2.75 billion, up 13.8 percent from \$2.41 billion in 1977. Net earnings of \$155.9 million in 1978 were 11.9 percent above 1977. Net earnings per share for 1978 were \$3.26 compared to \$2.92 in 1977 based on the average number of shares of common stock (excluding treasury shares) outstanding for each year. The 1978 sales, net earnings and net earnings per share results are the highest in the history of Cyanamid.

Quarterly Results — Quarterly net sales, gross profit, net earnings and net earnings per share for 1978 and 1977 were as follows:

Amounts in thousands

1978 Quarter	Net sales	Gross profit	Net earnings	Net earnings per share
First	\$ 650,552	\$ 258,923	\$ 86,408	\$.76
Second	688,504	275,335	88,583	.83
Third	672,561	272,886	85,975	.75
Fourth	734,128	289,794	93,976	.82
	<u>\$2,745,745</u>	<u>\$1,106,948</u>	<u>\$155,945</u>	<u>\$3.26</u>

1977 Quarter	Net sales	Gross profit	Net earnings	Net earnings per share
First	\$ 584,491	\$221,735	\$ 51,593	\$.66
Second	600,709	241,362	59,822	.62
Third	604,616	243,143	31,918	.67
Fourth	642,493	259,731	36,587	.77
	<u>\$2,412,311</u>	<u>\$965,971</u>	<u>\$139,400</u>	<u>\$2.92</u>

Gross profit is derived by subtracting manufacturing cost of sales from net sales.

Common Stock Prices and Dividends Paid — Reported comparative high and low market prices on the New York Stock Exchange Composite Tape and dividends paid per share of the common stock by quarter for 1978 and 1977 were:

Quarter	1978 Market price		Dividends paid	1977 Market price		Dividends paid
	High	Low		High	Low	
First	\$28 1/4	\$22 1/4	\$.37 1/4	\$29 1/4	\$25 1/4	\$.37 1/4
Second	32	24 1/4	.37 1/4	28 1/4	25 1/4	.37 1/4
Third	32 1/4	28 1/4	.37 1/4	27 1/4	25	.37 1/4
Fourth	30 1/4	23 1/4	.37 1/4	23		.37 1/4
			<u>\$1.50</u>			<u>\$1.50</u>

We have examined the consolidated balance sheets of American Cyanamid Company and subsidiaries as of December 31, 1978 and 1977 and the related consolidated statements of earnings and earnings employed in the business and changes in financial position for the years then ended. Our examinations were made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the aforementioned consolidated financial statements present fairly the financial position of American Cyanamid Company and subsidiaries at December 31, 1978 and 1977, and the results of their operations and the changes in their financial position for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

New York, N.Y.
February 6, 1979 PEAT, MARWICK, MITCHELL & CO.

Amfac Chemical Company and Subsidiaries

Years Ended December 31, 1978 and 1977

	1978	1977
	(Thousands of dollars except per share amounts)	
NET SALES	\$2,748,748	\$2,412,311
Expenses:		
Manufacturing cost of sales less depreciation and depletion	1,838,787	1,448,340
Selling and advertising	485,835	420,031
Administrative and general	134,321	118,988
Depreciation and depletion	120,150	104,370
Research and process development	108,148	98,381
	<u>2,485,751</u>	<u>2,188,089</u>
EARNINGS FROM OPERATIONS	262,994	224,223
Interest, royalties and other income, net	33,989	37,403
	<u>296,983</u>	<u>261,626</u>
Interest expense	54,908	47,255
EARNINGS OF CONSOLIDATED COMPANIES BEFORE TAXES ON INCOME	<u>242,075</u>	<u>214,371</u>
Taxes on income (Note 8)	80,000	84,100
	<u>162,075</u>	<u>130,271</u>
EARNINGS OF CONSOLIDATED COMPANIES	6,888	7,129
Equity in net earnings of associated companies		
NET EARNINGS	<u>168,943</u>	<u>139,400</u>
EARNINGS EMPLOYED IN THE BUSINESS AT BEGINNING OF YEAR	916,826	846,773
Product dividends of \$1.50 per share	<u>(71,322)</u>	<u>(71,367)</u>
EARNINGS EMPLOYED IN THE BUSINESS AT END OF YEAR	<u>\$1,001,347</u>	<u>\$ 918,806</u>
NET EARNINGS PER SHARE OF COMMON STOCK	<u>\$3.28</u>	<u>\$2.92</u>

See accompanying Notes to Consolidated Financial Statements

	1978	1977
	(Thousands of dollars)	
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES		
Accounts payable and accrued expenses	\$ 480,827	\$ 364,800
Short-term borrowings, including commercial paper of \$82,885 (\$9,968 in 1977) (Note 5)	110,488	73,741
Funded debt maturities due within one year	29,472	16,307
Income taxes	38,306	33,408
TOTAL CURRENT LIABILITIES	<u>658,956</u>	<u>508,256</u>
FUNDED DEBT NOT DUE WITHIN ONE YEAR (Note 5)	230,184	242,820
DEFERRED INCOME TAXES	81,300	70,800
OTHER NON-CURRENT LIABILITIES (Note 5)	31,358	31,690
STOCKHOLDERS' EQUITY (Notes 5 and 6)		
Common stock — par value \$5 per share		
Authorized — 80,000,000 shares	244,827	244,827
Issued — 48,905,338 shares	39,018	38,858
Additional paid-in capital	7,001,347	8,188,828
Earnings employed in the business	<u>1,284,800</u>	<u>1,200,251</u>
Less cost of 1,090,756 shares of common stock held in treasury (1,133,744 shares in 1977)	<u>30,382</u>	<u>31,960</u>
TOTAL STOCKHOLDERS' EQUITY	<u>1,294,607</u>	<u>1,168,897</u>
	<u>\$2,836,149</u>	<u>\$2,222,251</u>

CONTINGENT LIABILITIES AND COMMITMENTS (Note 7)

See accompanying Notes to Consolidated Financial Statements

Georgetown Dynamite Company
Balance Sheet
 December 31, 1976 and 1977

	1976 (Thousands of dollars)	1977
ASSETS		
CURRENT ASSETS		
Cash	\$ 48,392	\$ 52,685
Marketable securities and short-term investments, at cost (approximate market)	81,285	58,013
Accounts receivable, less allowance for doubtful accounts of \$13,000	570,886	462,537
Prepaid expenses (Note 3)	489,728	439,477
TOTAL CURRENT ASSETS	1,189,271	1,012,712
INVESTMENTS AND ADVANCES		
Equity investments of and advances to associated companies	66,010	54,246
Other investments and advances	49,861	22,581
TOTAL INVESTMENTS AND ADVANCES	104,971	76,827
PLANT, EQUIPMENT AND FACILITIES, at cost (Note 3)	2,123,420	1,908,236
Less accumulated depreciation and depletion	810,813	828,328
NET PLANT INVESTMENT	1,212,607	1,081,908
INTANGIBLES RESULTING FROM BUSINESS ACQUISITIONS	16,111	16,888
DEFERRED EXPENSES AND DEFERRED CHARGES	33,916	33,916
	\$2,929,146	\$2,222,251

CY0005660

Years Ended December 31, 1978 and 1977

SOURCES OF WORKING CAPITAL

	1978	1977
Net earnings	\$155,943	\$139,400
Items not requiring the use of funds:		
Depreciation and depletion	120,150	104,370
Deferred income taxes	10,500	26,200
Equity in undistributed net earnings of associated companies	(2,215)	(1,031)
Funds derived from operations	284,378	268,939
Issuance of funded debt not due within one year	160,040	71,740
Equity raising from issuance of common stock	1,095	169
All others - net	762	6,248
	<u>446,275</u>	<u>347,096</u>

USES OF WORKING CAPITAL

Additions to plants, equipment and facilities	251,034	235,451
Cash dividends on stock	71,422	71,347
Non-current net assets consolidated, principally plants, equipment and facilities (Note 1)	—	24,962
Reduction in funded debt not due within one year	82,276	53,457
Increase (decrease) in investments and advances - net	25,928	(41,894)
Increase in prepaid expenses and deferred charges	73	6,188
Decrease (increase) in other noncurrent facilities	688	(1,363)
	<u>431,422</u>	<u>348,156</u>

INCREASE (DECREASE) IN WORKING CAPITAL

\$ 14,853

\$ (1,062)

INCREASE (DECREASE) IN THE COMPONENTS OF WORKING CAPITAL

Cash, marketable securities and time deposits	\$ (13,024)	\$ (38,218)
Accounts receivable	106,329	60,972
Inventory	50,281	66,949
Accounts payable and accrued expenses	(75,827)	(74,124)
Short-term borrowing	(38,717)	(25,530)
Funded debt installments due within one year	(13,171)	(1,439)
Income taxes	(4,991)	10,328
	<u>\$ 14,853</u>	<u>\$ (1,062)</u>

See accompanying Notes to Consolidated Financial Statements

American Cyanamid Company and Subsidiaries

(Thousands of dollars)

1. Summary of Accounting Policies

Consolidation — The consolidated financial statements include the accounts of American Cyanamid Company and all subsidiaries, except real estate subsidiaries whose operations were discontinued in 1974. All significant intercompany transactions and balances have been eliminated. Subsidiaries operating outside the United States and Canada are included on a fiscal-year basis ending November 30.

The equity method of accounting is used for investments in associated companies (20% to 50% owned). Aggregate cost of these investments was \$25,544 at December 31, 1978 (\$23,640 at December 31, 1977). Dividends of \$4,653 were received from these companies in 1978 (\$6,098 in 1977). At December 31, 1978, principal associated companies are comprised of the following (% owned):

Arizona Chemical Company (50%)	Mitsui-Cyanamid, Ltd. (50%)
B. Braun-Dexon G.m.b.H. (50%)	Sherkat Sahani Cyanamid-KBC (50%)
Cyanamid-Keljen Katalysator B.V. (50%)	Societe des Sutures Chirurgicales
Cyanenka S.A. (40%)	Robert & Carrere-Lederle (50%)
CY/RO Industries (50%)	TDF Tofine B.V. (50%)
Lederle (Japan) Ltd. (50%)	

Formica International Limited (FIL) became a wholly owned subsidiary in April, 1977, after the remaining 80% interest was acquired for \$13,800. The company's total investment in FIL approximates the fair value of the net assets of the subsidiary. This acquisition was accounted for as a purchase. Prior to April, 1977, the consolidated earnings statements included only the equity in net earnings of FIL as a 40% owned associated company.

Currency translation — Foreign currency financial statements and transactions are translated into U.S. dollars in accordance with Statement of Financial Accounting Standards No. 8. Exchange adjustments before tax effect (\$600 loss in 1978, \$25,400 loss in 1977) are included in earnings of the respective years.

Depreciation and amortization — Depreciation is provided on a straight-line composite method over the estimated remaining useful lives of various classes of assets. In view of the variety of plants, equipment and facilities, it is not considered practicable to list the rates used in making the computations. However, the aggregate charge for depreciation was equivalent to 7.1% in 1978 and 1977 of the average amount of depreciable plants, equipment and facilities. When depreciable assets are sold or otherwise retired from service, their cost, less amounts realized on sale or salvage, is charged or credited to the ac-

cumulated depreciation account. Expenditures for maintenance and repairs are charged to current operating expenses. Acquisitions, additions and betterments for increasing productive capacity or prolonging service lives of the plant, equipment and facilities are capitalized. Intangibles resulting from business acquisitions are carried at cost and amortized over a period of forty years unless, in the opinion of management, their lives are limited, or they have sustained a permanent diminution in value, in which case they are amortized over appropriate periods.

Inventories — Inventories are carried at the lower of cost or market. Cost is determined on the last-in, first-out (LIFO) method for substantially all inventories in the United States with the remainder determined on the first-in, first-out or average method.

Taxes on income — The provision for Federal taxes on income is reduced by the investment tax credit using the flow-through method. Deferred income taxes are provided to recognize the effect of timing differences between financial statement and income tax accounting, principally differences in depreciation methods and rates.

Earnings per share — Earnings per share of common stock is based on the average number of shares outstanding during the year, 47,792,323 in 1978 (47,768,905 in 1977). The stock options described in Note 6 do not result in a material dilution of earnings per share.

2. Foreign Operations included in the consolidated financial statements are as follows:

	1978	1977
Net current assets	\$219,000	\$189,300
Net other assets (principally plants, equipment and facilities)	323,000	289,500
Net earnings of foreign subsidiaries	84,400	70,900
Equity in undistributed earnings of foreign subsidiaries	342,600	302,500

The company provides for taxes on the undistributed earnings of subsidiaries and associated companies where the remittance of such earnings is not considered to be indefinitely postponed. At December 31, 1978, the company has no present intention of remitting undistributed earnings of subsidiaries and associated companies aggregating \$360,800 (\$306,400 in 1977).

3. Inventories — At December 31, 1978 estimated current cost exceeded the LIFO value of the inventories by approximately \$101,000 (1977 — \$85,000). It is not practicable to determine the major components of inventory under the dollar value LIFO inventory method.

A. Plants, Equipment and Facilities are comprised of:

	1978	1977
Land, including mining land	\$ 2,000	\$ 2,000
Buildings	1,500	1,500
Machinery and equipment	1,500	1,500
Construction in progress	1,500	1,500
	<u>\$ 6,500</u>	<u>\$ 6,500</u>

B. Funded Debt

	1978	1977
Spring fund deposits	\$ 2,000	\$ 2,000
5 1/4 % due 1980	10,000	10,000
7 1/4 % due 2007	20,000	20,000
8 1/4 % due 2006	20,000	20,000
Promissory notes, 5 1/4 % due 1980 to 1982	51,500	51,500
Promissory notes, 8 1/4 % due 1982 to 1990	19,000	19,000
Commercial paper (see below)	—	—
Pollution control bonds	—	—
6.8 % due 2000	21,200	21,200
6.5 % due 2006	28,400	28,400
5.5 % to 6.5 % due at various dates through 2008	37,412	37,412
Sundry obligations	26,840	26,840
	<u>\$ 238,194</u>	<u>\$ 242,620</u>

Annual maturities of funded debt and sinking fund requirements for the four years subsequent to December 31, 1978, are as follows: 1980 — \$22,600; 1981 — \$14,400; 1982 — \$15,600; and 1983 — \$9,200.

At December 31, 1977, the commercial paper was expiring, and as it represented a temporary borrowing pending completion of a sales agreement in January 1978, at which time the commercial paper was retired.

The 3 1/4 % and 8 1/4 % promissory notes contain certain covenants, including limitations on the payment of dividends. Under the modification of such limitations, the amount of earnings employed in the business at December 31, 1978, which may be applied to the payment of such cash dividends, is limited to \$158,800.

C. Stockholders' Equity

Authorized Capital includes 650,000 shares of preferred stock with a par value of \$1 per share, none of which is outstanding.

Stock Options — Under the company's stock option plan, key employees may be granted ten-year non-qualified options to purchase common stock at not less than 100% of market value on the date of grant. 2,500,000 shares were reserved for stock options under the plan. All options are exercisable, in cumulative installments of one-third of the number of shares commencing one year after date of grant and annually thereafter.

Details of stock option plans with respect to the present plan and predecessor plan under which no further options can be granted for 1978 and 1977 follow:

	Number of shares	Option price		Market value	
		Per share	Total	Per share	Total
Options granted:					
1978	100,000	\$24.00-25.75	\$ 2,400,000	\$ 24.75-25.75	\$ 2,460,000
1977	27,375	7.50	205,313	25.75	705,000
Options exercised:					
1978	228,000	\$24.75-27.00	\$ 5,682,000	\$24.00-28.125	\$ 5,852,000
1977	485,000	\$4.00-27.00	4,000,000	26.82-27.02	6,016,000
Options expiring:					
1978	100,000	\$24.00-28.50	\$ 2,400,000	\$25.125-32.50	\$ 3,584,000
1977	71,875	\$4.00-27.00	1,100,000	26.31-28.12	1,950,000
Options outstanding:					
Dec. 31, 1978	1,497,000	\$24.00-27.25	\$ 38,716,000	\$24.00-27.25	\$ 38,716,000
Dec. 31, 1977	1,204,340	\$4.00-27.25	37,919,000	\$4.00-27.25	37,919,000

At December 31, 1978, options to purchase 870,815 shares (855,803 shares at December 31, 1977) were exercisable and 1,978,516 shares (2,257,372 shares at December 31, 1977) were available for option.

Upon exercise of options, the difference between the proceeds and the par value of shares issued or cost of treasury stock, \$1.17 in 1978 and \$7 in 1977, is recorded in additional paid-in capital.

Of the options exercised, 77,946 shares in 1978 (1,333 shares in 1977) were surrendered under the plan pursuant to stock appreciation rights.

Additional Paid-in Capital changes during 1978 and 1977 were attributable solely to the issuance of shares under stock options.

Treasury Stock is acquired from time to time and used to fulfill obligations under the company's incentive compensation and stock option plans. During 1978 no such shares were acquired (2,301 shares acquired in 1977). In 1978, 40,734 shares were issued pursuant to the above stock options (5,848 in 1977) and 2,264 shares were issued to retired participants under the incentive compensation plan (\$3,750 in 1977).

Contingent Liabilities and Commitments — Rental expense under property and equipment leases in 1978 was \$35,200 (\$29,800 in 1977). Estimated future minimum rental expenses under property and equipment leases that have initial or remaining noncancellable lease terms in excess of one year as of December 31, 1978 are: 1979 — \$9,700; 1980 — \$5,500; 1981 — \$3,500; 1982 — \$2,200; 1983 — \$1,500; later years — \$4,700, all in the aggregate. The company accounts for leases as operating leases, which in all material respects conform with Statement of Financial Accounting Standards No. 13.

The present status of significant litigation is disclosed in the section entitled "Antibiotics Litigation" elsewhere in this report.

8. Taxes on Income — The components of the provision are:

	1978	1977
Current:		
Federal	\$13,300	\$ 8,500
Foreign	62,400	44,800
Other	3,800	4,600
	<u>79,500</u>	<u>57,900</u>
Deferred:		
Federal	11,200	16,300
Foreign and other	(700)	7,900
	<u>10,500</u>	<u>26,200</u>
Total taxes on income	<u>\$90,000</u>	<u>\$84,100</u>

The principal components of the 1978 deferred tax provision are the excess of tax over book depreciation (\$20,000) partially offset by investment tax credit (\$8,500) carried forward to subsequent years. In 1977, the principal components of the deferred tax provision are the excess of tax over book depreciation (\$11,000) and the realization for tax purposes of deductions resulting from foreign currency fluctuations (\$7,000).

A reconciliation between the company's effective tax rate and the U.S. Federal income tax rate of 48% is as follows:

	1978	1977
	Amount	Amount
Computed expected tax expense	\$114,800	\$103,800
Investment tax credit on assets purchased during the year	(20,000)	(15,200)
Other	(4,800)	(4,500)
Total	<u>\$ 90,000</u>	<u>\$ 84,100</u>
	37.6%	38.9%
		(7.0)
		(2.1)
		<u>38.9%</u>

9. Other financial statement information is as follows: Details of short-term borrowings are as follows:

	1978	1977
	Domestic	Domestic
Average borrowings during the year	\$53,700	\$54,700
Weighted average interest rate during the year	8%	7%
Highest level of borrowings at any month-end during the year	\$78,800	\$59,400
Weighted average interest rate at December 31	10%	7%
Balance, December 31	\$62,895	\$19,968
	Foreign	Foreign
Average borrowings during the year	\$49,700	\$49,100
Weighted average interest rate during the year	15%	17%
Highest level of borrowings at any month-end during the year	\$56,100	\$59,400
Weighted average interest rate at December 31	15%	18%
Balance, December 31	\$47,563	\$53,773
	Total	Total
Average borrowings during the year	\$103,400	\$103,800
Weighted average interest rate during the year	11%	16%
Highest level of borrowings at any month-end during the year	\$134,900	\$84,400
Weighted average interest rate at December 31	13%	16%
Balance, December 31	\$110,458	\$73,741

At December 31, 1978 the company had \$85,000 of domestic short-term lines of credit that were available for general corporate purposes.

Other non-current liabilities at December 31, 1978 include incentive compensation to officers and other employees of \$9,300 (\$11,100 at December 31, 1977). A portion of such amount is not payable currently in cash but is contingently payable in common stock of the company after employment terminates; pending allotment of the amount available for 1978, the portion so contingently payable in common stock is not determinable. Another portion of such amount is similarly contingently payable based on the performance of the company over a four-year period.

Maintenance and repairs in 1978 were \$138,000 (\$113,400 in 1977). Social security taxes for 1978 were \$54,300 (\$42,000 in 1977). Taxes other than income taxes for 1978 were \$31,700 (\$26,900 in 1977). Advertising in 1978 was \$161,206 (\$138,500 in 1977).

The company and its consolidated subsidiaries have various pension plans covering substantially all their employees including certain employees in foreign countries. The company's policy generally is to accrue and fund pension costs over the service lives of the covered employees. The total pension expense was \$33,000 for 1978 and \$27,800 for 1977. The actuarially computed value of vested benefits at the most recent valuation date under the principal pension plans of the company exceeds the current market value of fund assets and balance sheet liabilities by approximately \$31,000.

10. Quarterly Results (Unaudited) — Net sales, gross profit, net earnings and net earnings per share for the quarters of 1978 and 1977, which are unaudited, are included in the "Financial Review" section.

11. Supplemental Information on Replacement Cost (Unaudited) — The company's annual report on Form 10-K contains specific information with respect to year-end 1978 and 1977 replacement cost of inventories and productive capacity and the approximate effect which replacement cost would have had on the computation of cost of sales and depreciation and depletion expense for the years. Since the company's investment in plants, equipment and facilities is substantial and was made over an extended number of years, the cost to replace these assets (and the related depreciation expense) is significantly higher than the historical cost. Because inventories are of a current nature and because substantially all inventories in the U.S. are recorded on the LIFO basis of accounting, cost of sales on a replacement cost basis approximates the amount in the statements of earnings while the replacement cost of year-end inventories is greater than the amount in the balance sheets.

The amounts reported in the Form 10-K as replacement cost data are based primarily on indices and are not necessarily indicative of either the value which could be realized for such assets or management's intention to replace such assets. Similarly, the use of indices results in costs which are not necessarily representative of those which might be incurred in any future period. The data presented in the Form 10-K pertains only to selected balance sheet items and not to monetary or other non-monetary assets or liabilities. It is management's view that the replacement cost data presented in the Form 10-K cannot be used to assess the effect of inflation on reported results of operations.

12. Information about Operations by Businesses and Segments in accordance with the provisions of Statement of Financial Accounting Standards No. 14 for the years ended December 31, 1976 and 1977, is presented below:

Businesses:	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
Net sales	\$281,813	\$559,890	\$281,813	\$559,890	\$281,813	\$559,890	\$281,813	\$559,890	\$281,813	\$559,890	\$281,813	\$559,890	\$281,813	\$559,890	\$281,813	\$559,890
Operating earnings	82,523	65,405	82,523	65,405	82,523	65,405	82,523	65,405	82,523	65,405	82,523	65,405	82,523	65,405	82,523	65,405
General corporate expenses																
Interest (expense) income, net																
Earnings of consolidated companies before taxes on income																
Earnings of consolidated companies before taxes on income																
Equity in net earnings of associated companies	423	5,957	423	5,957	423	5,957	423	5,957	423	5,957	423	5,957	423	5,957	423	5,957
Identifiable assets	535,572	844,289	535,572	844,289	535,572	844,289	535,572	844,289	535,572	844,289	535,572	844,289	535,572	844,289	535,572	844,289
Equity in net assets of and advances to associated companies	2,159	14,409	2,159	14,409	2,159	14,409	2,159	14,409	2,159	14,409	2,159	14,409	2,159	14,409	2,159	14,409
Corporate assets																
Total assets at December 31, 1976	59,271	16,398	59,271	16,398	59,271	16,398	59,271	16,398	59,271	16,398	59,271	16,398	59,271	16,398	59,271	16,398
Depreciation and depletion	1,41,598	32,204	1,41,598	32,204	1,41,598	32,204	1,41,598	32,204	1,41,598	32,204	1,41,598	32,204	1,41,598	32,204	1,41,598	32,204
Capital additions																
Net sales	\$555,298	\$489,044	\$555,298	\$489,044	\$555,298	\$489,044	\$555,298	\$489,044	\$555,298	\$489,044	\$555,298	\$489,044	\$555,298	\$489,044	\$555,298	\$489,044
Operating earnings	79,087	70,247	79,087	70,247	79,087	70,247	79,087	70,247	79,087	70,247	79,087	70,247	79,087	70,247	79,087	70,247
General corporate expenses																
Interest (expense) income, net																
Earnings of consolidated companies before taxes on income																
Equity in net earnings of associated companies	437	3,254	437	3,254	437	3,254	437	3,254	437	3,254	437	3,254	437	3,254	437	3,254
Identifiable assets	422,294	824,379	422,294	824,379	422,294	824,379	422,294	824,379	422,294	824,379	422,294	824,379	422,294	824,379	422,294	824,379
Equity in net assets of and advances to associated companies	1,394	13,036	1,394	13,036	1,394	13,036	1,394	13,036	1,394	13,036	1,394	13,036	1,394	13,036	1,394	13,036
Corporate assets																
Total assets at December 31, 1977	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847	14,847
Depreciation and depletion	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028	29,028
Capital additions																

Total sales between businesses were approximately \$87,400 in both 1976 and 1977. These intersegment sales, which are made at cost, were not significant for any of the businesses except medical (\$23,900 for 1976 and \$27,800 for 1977) and specialty chemicals (\$92,500 for 1976 and \$56,500 for 1977).

general corporate expenses, interest expense, interest income, and the share of income and expense of associated companies, and income taxes.

Corporate assets are those assets that are used in the company's operation of its business or geographic area. Corporate assets are primarily real estate, depreciable securities and construction in progress.

Intergeographic sales are made at prices which provide reasonable and appropriate returns based upon the respective priorities employed and the business conducted, and applicable eliminations have been applied to the intergeographic transactions.

assets are those assets that are used in the company's operating business or geographic area. Corporate assets are primarily depreciable securities and construction in progress.

Category	Amount	Other	Elimination	Adjustments	Consolidated
Net income	10,770,400	200,840	400,744	1,152,750	12,464,745
Minority interest	11,804	1,004	9,400	1,152,750	2,745,745
Operating expenses	200,200	200,000	1,000,000	(100,000)	2,745,745
Operating income	10,570,000	100,840	100,744	1,152,750	12,464,744
Interest expense	100,000	100,000	100,000	(100,000)	12,464,744
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Operating income	10,570				

Net Sales and Earnings—Consolidated
net sales in 1978 of \$2.75 billion were the highest in the history of the company, exceeding sales of \$2.41 billion in 1977 by 13.8%. Sales in 1977 represented a 15.2% increase over the \$2.09 billion of sales in 1976. Sales gains in both years were achieved in each of the five businesses.

Net earnings for 1978 were a record \$155.9 million or \$3.26 per share, 11.9% above the \$139.4 million or \$2.92 per share in 1977.

Medical sales increased 16% and operating earnings were up 22% for the year with the largest gains in the United States and Europe. Sales advances were led by antibiotics, anti-cancer agents, Dexon® synthetic absorbable sutures and the company's Stresstabs® vitamin formulations.

Agricultural sales rose 10% and operating earnings were 4% higher than in 1977. Continued progress with pesticides worldwide and improved domestic and European sales for animal industry products offset the effects of lower prices for fertilizers.

Sales of specialty chemicals, which include fibers, rose 12% and operating earnings were up 21%, both to new highs. Demand for a number of Cyanamid chemicals contributed to the gains.

Consumer product sales increased 11% but operating earnings were below 1977, reflecting increased competition in the shampoo business and the costs of business-building

programs for both new and existing products that were undertaken in 1978. Sales of fragrances and household cleaners were strong.

Sales of Formica® brand products were 25% higher than in 1977 and operating earnings were up 18% from last year. Overseas operations showed good gains, but in the U.S. earnings were adversely affected by 1978's severe winter and start-up and expansion costs of the Euclidite, Ohio plant.

Sales and operating earnings for the past five years for each of the company's businesses are shown in the individual business sections in this annual report.

Manufacturing Cost of Sales reflects added volume and the continuing higher raw material, payroll and maintenance costs as the primary reasons for the 13% increase in 1978 and 17% increase in 1977 (including in 1977, F.L. manufacturing cost of sales for the first time). Foreign exchange fluctuations related to inventories resulted in a gain of \$7.6 million in 1978 and a loss of \$11.2 million in 1977.

Depreciation and Depletion increased 15% in 1978 as compared to 17% in 1977. The increases in both years continue to reflect the high level of capital investment to provide increased capacity, improve efficiency of production units, modernize or replace older facilities, and install equipment required for protection of the environment.

Selling, Administrative and Research Expenses increased by 14% in 1978 as compared with a 13% increase in 1977. Much of these increases resulted from higher payroll costs. Foreign exchange losses not related to inventories amounted to \$8.1 million in 1978 and \$14.2 million in 1977. Advertising and sales promotion expenses were at increased levels in the consumer business in a continuing effort to improve and strengthen our consumer market positions. Research and process development expenditures increased 12% to \$188 million in 1978 following a 16% increase in 1977, reflecting our long-range program to ensure the flow of new products and processes.

Interest Expenses increased 16% in 1978 reflecting an increase in both short-term and long-term borrowings. Interest expense increased 34% in 1977, reflecting increased indebtedness and a higher overall interest rate on foreign indebtedness.

Taxes on income for 1978 were \$90 million as compared to \$84.1 million in 1977 because of higher pre-tax earnings partially offset by an additional \$4.8 million of investment tax credit in 1978. The overall effective tax rate is lower in 1978 than in 1977 primarily because of the investment tax credit.

Alden, IA
 Andersonville, GA
 Azusa, CA
 Benton, AR
 Bound Brook, NJ
 Bradley, FL
 Carolina, PR
 Charlotte, NC
 Chattanooga, TN
 Chicago, IL
 Childersburg, AL
 Clifton, NJ
 Cloquet, MN
 Damascus, VA
 Danbury, CT
 Demopolis, AL
 DeRidder, LA
 Escanaba, MI
 Evendale, OH
 Fort Madison, IA
 Fort Worth, TX
 Frankfort, IN
 Fortier, LA
 Georgetown, SC
 Hamilton, OH
 Hannibal, MO
 Havre de Grace, MD
 Hazleton, PA
 Jackson, MS
 Joliet, IL
 Kalamazoo, MI
 Linden, NJ
 Longview, WA
 Manati, PR (2)
 Marietta, OH
 Mays Landing, NJ
 Memphis, TN
 Michigan City, IN
 Milton, FL
 Mobile, AL
 Monticello, MS
 Painesville, OH
 Pearl River, NY
 Perrysburg, OH

Plymouth, NC
 Savannah, GA
 Shippan, CT
 Sierra, CA
 Springhill, LA
 Tarboro, NC
 Wallingford, CT
 Weeping Water, NB
 West Springfield, MA
 Willow Island, WV
 Woodbridge, NJ
 Woodbury, NY

Algote, Spain
 Atcuiza, Mexico
 Baie d'Urfe, Canada
 Baulkham Hill, Australia
 Bilbao, Spain
 Bogota, Colombia
 Botlek, Netherlands
 Bradford, England
 Brussels, Belgium
 Buenos Aires, Argentina (3)
 Bulsar, India
 Caracas, Venezuela (2)
 Cartagena, Colombia
 Catania, Italy
 Derrimut, Australia
 Gosport, England
 Guadalajara, Mexico
 Guaranas, Venezuela
 Hsinchu, Taiwan
 Hsinfeng, Taiwan
 Hurstville, Australia
 Isando, South Africa
 Karachi, Pakistan
 Leiden, Netherlands
 Managua, Nicaragua
 Mexico City, Mexico (2)
 Newcastle, England
 Niagara Falls, Canada (2)
 North Shields, England
 Oullins, France
 Papakura, New Zealand
 Quillan, France
 Resende, Brazil
 Rio de Janeiro, Brazil
 Sao Paulo, Brazil
 St. Jean, Canada
 St. Mary's, Australia
 Tahara, Japan
 Witbank, South Africa
 Wolfratshausen, West Germany

Botlek, Netherlands
 Bound Brook, NJ
 Bradford, England
 Casale, Italy
 Clifton, NJ
 Danbury, CT
 Evendale, OH
 Gosport, England
 Hsinchu, Taiwan
 Lot Sefos, Philippines
 Maldenhead, England
 Milton, FL
 Niagara Falls, Canada
 Painesville, OH
 Pearl River, NY
 Porto Alegre, Brazil
 Princeton, NJ
 Stamford, CT
 Zarzura, Egypt

(% Owned)
 Arizona Chemical Company (50%)
 B. Braun-Dexon G.m.b.H. (50%)
 Cyanamid-Ketjen Catalysts B. V. (50%)
 Cyanenka S. A. (40%)
 CY/RO Industries (50%)
 Lederle (Japan) Ltd. (50%)
 Mitsui-Cyanamid, Ltd. (50%)
 Shertat Sahami Cyanamid-Ketjen
 Societe des Sutures Chirurgicales
 Robert & Carriere-Lederle (50%)
 TDF Toffine B. V. (50%)

Brewster Phosphates
 Catalyst Company
 Merckum Enterprises

AgriCulture
Joseph J. Gaudin

Animal food, mainly consisting of fungi, insects, and small animals.

Cyranoida **John H. Schmitt**

MANUFACTURING, SPECIAL EQUIPMENT, REPAIRS, AND MAINTENANCE. The company is a full-line supplier, except for household appliances, ranging from consumer products, and facilities, through industrial machinery and equipment to General Motors, Ford and the Pacific.

**Cyranos and Europa, Michigan / Michigan
Ben H. Loper, President**

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For information, please contact: **Charles D. Jones**, Director, **Environmental Protection Division**, **U.S. Environmental Protection Agency**, **Washington, D.C. 20460**, **Telephone: (202) 368-2700**.

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Transfer Agent and Registrar

The Chase Manhattan Bank, N.A.
New York, N.Y. 10015

Stock Exchanges

Cyanamid's common stock is listed on the New York Stock Exchange as well as on stock exchanges in Amsterdam, Basle, Frankfurt, Geneva, Lausanne and Zurich.

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