

1980 Annual Report

DOW

PLAINTIFF'S EXHIBIT

DOW-1478



EST0034960

To Our Stockholders

While doing research for this letter, I came across Dow's "first-ever" annual report, released in 1932. It contained only two pages, and because it is a fascinating glimpse into Dow's history, we have reproduced it as an insert in this year's report.

1932 was a memorable year for America. It marked the beginning of the "New Deal" and the start of fed-

phasis on end-use products and services continued to bear fruit. Dow's profits from such businesses — the Dowell Division, health and consumer products, and our Styrofoam plastic foam are examples — have grown from 20 percent of operating income in 1976 to 30 percent in 1980.

I hope every shareholder will take time to read the "Year In Review" section of this report, which more

Growth in Sales

1980	\$10 Billion
1964	\$1 Billion
1943	\$100 Million

THE DOW CHEMICAL COMPANY

DIRECTORS—JUNE 22, 1932

E. O. BARSTOW	J. S. CRIDER
E. W. BENNETT	W. H. DOW
G. E. COLLINGS	J. T. PARDEE
A. E. CONVERS	C. J. STROSACKER
	W. R. YEZEY

OFFICERS—JUNE 22, 1932

Chairman of the Board.....	A. E. CONVERS
President and General Manager.....	W. H. DOW
Vice President.....	G. E. COLLINGS
Vice President and Secretary.....	J. T. PARDEE
Vice President.....	E. W. BENNETT
Treasurer.....	J. S. CRIDER
Auditor, Asst. Treas. and	
Asst. Sec'y.....	E. W. BENNETT

Registrar and Transfer Agent
THE CLEVELAND TRUST COMPANY
Cleveland, Ohio

THE DOW CHEMICAL COMPANY

CONDENSED BALANCE SHEET

MAY 31, 1932

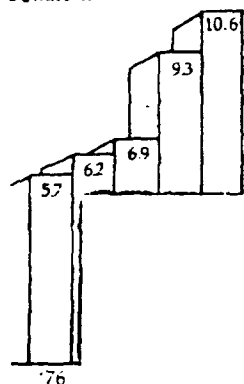
 Dow

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Highlights of the Year

Sales
Dollars in Billions)



Earnings
Per Share
(Dollars)



	1980	1979	% change	10-year compound annual % change
	(in millions unless otherwise stated)			
Net sales	\$10,626	\$9,255	+ 14.8%	+ 18.7%
Net income	805	784	+ 2.7%	+ 20.0%
U.S. and foreign income taxes	424	515	- 17.7%	+ 17.0%

THE DOW CHEMICAL COMPANY

GENERAL BALANCE SHEET, MAY 31, 1982

ASSETS		LIABILITIES	
Current Assets:		Current Liabilities:	
Cash	\$ 500,787.17	Notes Payable	\$700,000.00
Notes and Accounts Receivable Less Reserve	1,380,842.30	Accounts Payable	746,994.81
Merchandise, Materials and Supplies	4,259,381.93	Accrued Taxes	416,131.40
		Accrued Interest on Gold Notes	63,940.00
Total Current Assets	\$ 6,141,511.40	Total Current Liabilities	\$ 1,927,066.21
Land Contracts Receivable	49,636.07	Reserve for Fire and Accident Insurance	238,481.41
Investment in Affiliated and Other Companies	577,496.62	Ten Year 6% Sinking Fund Gold Notes, due February 1, 1940	3,197,000.00
Real Estate, Plant, Equipment, Patents, Etc., Less Reserves for Depreciation	16,365,222.20	Preferred Capital Stock—7% Cumulative	3,000,000.00
Deferred Charges	114,059.65	Common Capital Stock (630,000 shares Non-Par)	8,275,000.00
TOTAL	\$23,247,925.94	Surplus	6,610,378.32
		TOTAL	\$23,247,925.94

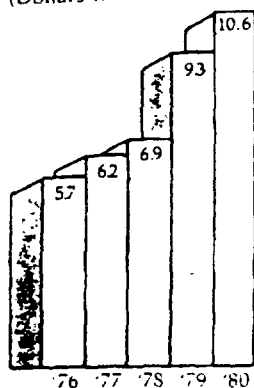
Net Income on Common Stock \$2.48 per share (after deducting depreciation, taxes and dividends on Preferred Stock)

program, see the story beginning on page thirteen.

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Highlights of the Year

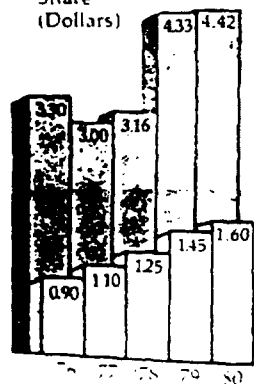
Sales
(Dollars in Billions)



Earnings Per Share vs. Dividends Per Share

■ Earnings Per Share

■ Dividends Paid Per Share



	1980	1979	% change	10-year compound annual % change
	(in millions unless otherwise stated)			
Net sales	\$10,626	\$9,255	+ 14.8%	+ 18.7%
Net income	805	784	+ 2.7%	+ 20.0%
U.S. and foreign income taxes	424	515	- 17.7%	+ 17.0%
Net income per share (in dollars)	4.42	4.33	+ 2.1%	+ 19.9%
Dividends paid per share (in dollars)	1.60	1.45	+ 10.3%	+ 14.0%

Average shares

outstanding	182.2	181.1	+ 0.6%	—
Stockholders (in thousands, year-end)	137.0	141.5	- 3.2%	+ 4.2%
Employees (in thousands, year-end)	56.8	55.9	+ 1.6%	+ 1.8%
Wages, salaries and benefits	\$ 1,807	\$1,598	+ 13.1%	+ 13.8%

About the Cover

All of the employees shown on the cover are the "stars" of an advertising program designed to create greater public understanding of issues which affect Dow and the chemical industry. From the top, left to right, they are Ernie Singleton, waste treatment superintendent, Louisiana Division; Margaret Baker, environmental manager, Oyster Creek Division; "Beans" Little, emergency response coordinator, Texas Division; Pam Smith, petroleum engineer, Dowell Division; Bill Franklin, fire protection superintendent, Louisiana Division; Ron Malecki, environmental engineer, Michigan Division; Phil Watanabe, molecular biologist, Dow U.S.A.; Edith Whatley, industrial hygienist, Texas Division; Agnes Brief, nurse coordinator, Michigan Division; Bob Cole, waste control technician, Oyster Creek Division; Lowell Jones, driving training manager, Dowell Division; Ardell Lawson, distribution specialist, Western Division, and Gary Grice, industrial rigger, Michigan Division. For more about the company's expanded communication program, see the story beginning on page thirteen.

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To Our Stockholders

While doing research for this letter, I came across Dow's "first-ever" annual report, released in 1932. It contained only two pages, and because it is a fascinating glimpse into Dow's history, we have reproduced it as an insert in this year's report.

1932 was a memorable year for America. It marked the beginning of the "New Deal" and the start of federal programs and bureaucracies which have grown so pervasive they threatened our very existence in 1980. It was also a memorable year for Dow. Results in that first report show the company was successfully weathering the economic storms of those days.

I believe history will record 1980 as another pivotal year in United States history. The American people have chosen a new course . . . one essential to the future well being of all Americans, and one which deserves a full measure of support from each of us. Fiscal responsibility, world respect, energy independence, and peace through strength are national objectives every thinking American can and must support.

1980 was also a remarkable year for Dow.

Your company had record sales and earnings, and became the world's most profitable chemical company despite global economic conditions that included a major recession in the United States and many other countries in which we operate.

Dow earned \$805 million in 1980, and sales exceeded \$10.6 billion. Moreover, while we maintained our leadership in the basic chemicals and plastics that have long been the backbone of the company, our em-

phasis on end-use products and services continued to bear fruit. Dow's profits from such businesses — the Dowell Division, health and consumer products, and our Styrofoam plastic foam are examples — have grown from 20 percent of operating income in 1976 to 30 percent in 1980.

I hope every shareholder will take time to read the "Year In Review" section of this report, which more fully describes the remarkable performance turned in during 1980 by Dow employees around the world.

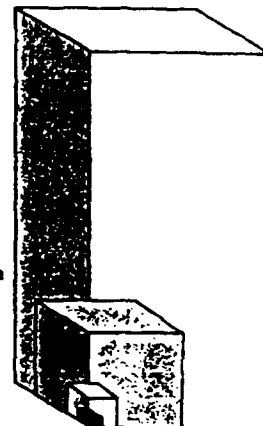
Dow sales exceeded \$10 billion for the first time in 1980, and that made me curious about the timing of earlier milestones in our growth. The chart at right shows what I discovered. Sales of The Dow Chemical Company have consistently increased *tenfold* in periods of only 15-20 years. I'll leave it to the reader to make a projection for the year 2000.

Proud as I am of our financial achievements, I take even greater pride in another facet of our 1980 performance. Dow employees set an all time safety record, demonstrating once again that our commitment to human health and safety pays big dividends on its own.



Growth in Sales

1980
\$10 Billion
■ 1964
\$1 Billion
1943
\$100 Million
■ 1927
\$10 Million



That's especially important, because it has become fashionable in recent years to criticize the chemical industry as unsafe, hazardous, and willing to compromise the health of its employees. The facts demonstrate just the opposite. National Safety Council data for 1979 show the U.S. chemical industry *second* of 43 industries in safety performance, and more than *ten times* safer than non-military government service. Dow's record is better still.

Moreover, detailed epidemiological studies on long time Dow employees, many of whom are now retired, show they are healthier than a comparable sample of the population at large.

It all adds up to the fact that Dow has one of the safest, healthiest, most productive work environments in the world. We intend to keep it that way.

Paul F. Orefice
President

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The Year in Review —

Company Increases Profit Level Despite Roller Coaster U.S. Economy

It was a year to test the mettle of any company. Sharp swings in the U.S. economy, and elsewhere, challenged our ability to react quickly and effectively to sudden changes in demand for our products.

In the United States, business boomed through the first quarter, dropped off sharply in mid-April, then picked up again in the fall almost to the earlier pace.

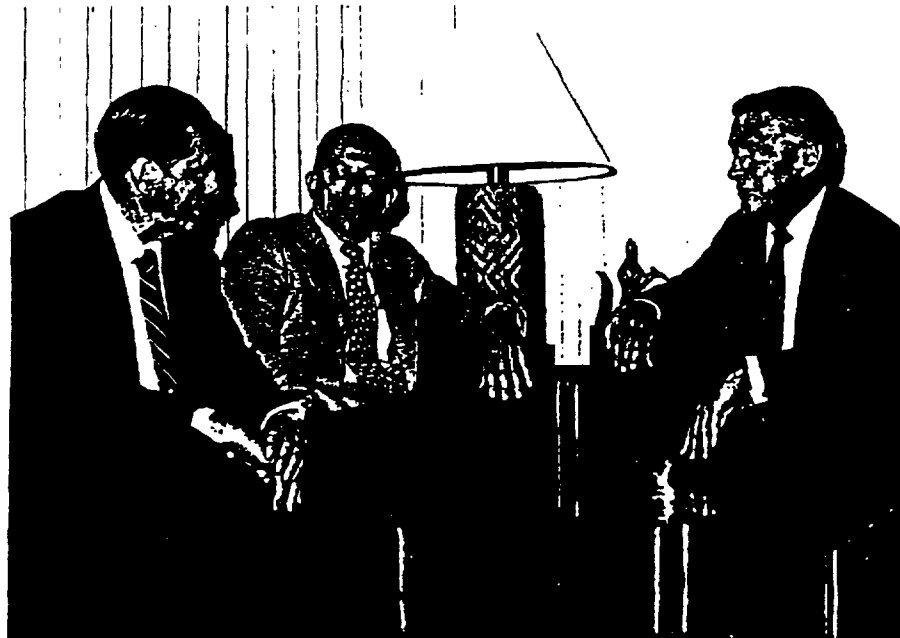
Demand in some areas outside the United States was also hampered by the U.S. recession — principally in the Pacific. Overall, however, the fact that more than half of Dow's sales are outside the United States helped the company weather the U.S. recession better than did the chemical industry as a whole.

Despite the roller-coaster U.S. economy, Dow achieved a substantial increase in sales, owing to higher prices, and a modest increase in profits above those in 1979.

Sales for the year totaled \$10.6 billion, an increase of 14.8 percent over 1979's \$9.3 billion. Earnings were \$4.42 a share, or \$805 million, compared with \$4.33 a share, or \$784 million in 1979.

Earnings improved even though the economic downturn brought lower operating rates and greater resistance to price increases. Operating rates dropped from more than 80 percent of capacity to less than 65 percent; at year's end they had rebounded to about 75 percent of capacity.

The rate of price increases slowed considerably during the summer, as supply outstripped the dwindling demand. Such was not the case, however, with costs. Dow's expenses for hydrocarbons and energy, its



principal purchases, rose some 34 percent during the year.

The recession took its toll in earnings in the second and third quarter; profit slipped 20 percent behind the same periods in 1979. But the recovery was almost as dramatic. Demand picked up smartly starting in September, especially in the United States. Continued demand during the final months of the year was an encouraging sign for business during the early part of 1981.

One reason the company was able to maintain its earnings was strict control over capital spending. Capital spending for the year totaled \$1.18 billion, down somewhat from the \$1.27 billion in 1979.

Nevertheless, Dow remained by far the largest 'investor' in its own

Paul F. Orefice (center), president and chief executive officer, confers with Earle B. Barnes (left), chairman of the board, and Robert W. Lundeen, executive vice president.

business among companies in the chemical industry. One result of this was a 'penalty' in 1980 of more than \$100 million in added depreciation and interest costs, in addition to start-up expenses. Another result on the 'plus' side, is that the corporation continues to have the newest, most efficient plant facilities among the major chemical companies; nearly

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half of all Dow plant and equipment has been built in the last five years.

Another factor that helped Dow during 1980 was its broadening product mix. The recession drove down demand for some of Dow's traditional high-volume industrial chemicals and plastic resins, but this was not the case with most of Dow's growing family of end-use products and services. The outstanding example of this was the Dowell Division and Dow's overseas joint venture, Dowell-Schlumberger. As more U.S. oil was decontrolled, drilling activity soared — and so did Dowell's business. Sales surged ahead by some 45 percent over 1979, to more than \$750 million. Dow's profits from Dowell and Dowell-Schlumberger together accounted for almost 20 percent of Dow's earnings in 1980.

Although Dow remains dedicated to maintaining its leadership position in the basic chemicals which provide the lion's share of sales and profit dollars, the company continued its move into products and services closer to the consumer. Dow research spending for 1980 totaled some \$314 million, up 17%, and about half that effort was devoted to end use products and services. During the last four years, profit from end products and services has grown from 20 percent of the total to 30 percent.

One move further in this direction came when Dowell, which sells products and services for fracturing, cementing and acidizing wells, entered the drilling fluids business. The company purchased Anadarko Mud Service, Inc., and an interest in Anadarko's parent, Top Drilling, Inc. Dowell also agreed to acquire substantially all of the operating assets of the G-H Fluid Services Division of

Galveston-Houston Company for \$46 million.

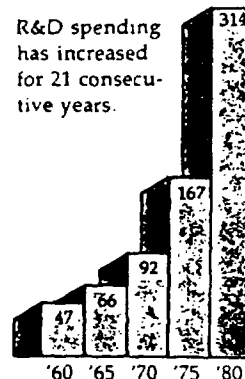
In November, Dow took a large and significant step in further diversifying its product lines when it agreed to acquire Richardson-Merrell's ethical pharmaceutical business. The purchase, subject to approval by Richardson-Merrell stockholders, will be by an exchange of Dow stock valued at \$260 million for shares of Richardson-Merrell. The combination of Dow's U.S. pharmaceutical interests, the worldwide pharmaceutical interests of Lepetit (Dow's Italian subsidiary) and Merrell's national and international business will generate sales of about \$800 million annually, making Dow a significant factor in the world health products business.

Also in the pharmaceutical field, Lepetit acquired Archifar S.p.A., located in Italy, which produces bulk antibiotics and has annual sales of \$30 million. In Brazil, Dow reached agreement with Astra of Sweden to make and market Astra's full line of products in the anesthetic, respiratory and cardiovascular field.

While the company's continuing operations contributed by far the greatest portion of net income, profits were also helped by a lower tax rate due to some capital gains and foreign tax benefits. Interest expense increased \$97 million but was offset in part by the capitalization of interest in the amount of \$71 million, which was required accounting treatment for the first time in 1980.

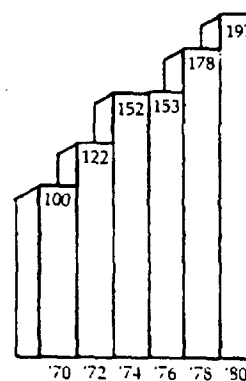
Global Research (Dollars in Millions)

R&D spending has increased for 21 consecutive years.



Real Growth (Index: 1970 = 100)

Physical output of the company has nearly doubled in the past decade.

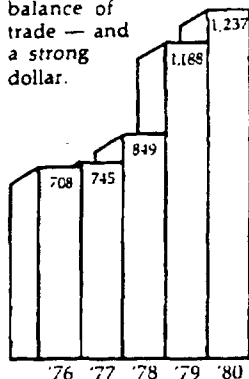


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The Year in Review — Continued

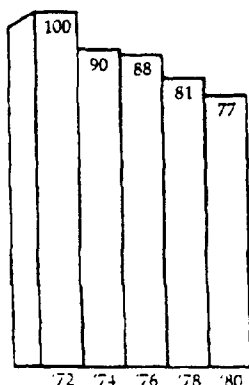
Market Value of Exports from the U.S. (Dollars in Millions)

Dow (as well as the entire chemical industry) has been a consistent supporter of the U.S. balance of trade — and a strong dollar.



Energy Conservation (1972 = 100, Dow U.S.A.)

Dow's continuing efforts to conserve energy are shown in the declining amount of conversion energy (such as purchased power, fuel oil, gas and coal) which is required for each unit of production.



United States

David L. Rooke
President
Dow Chemical U.S.A.

Sales of \$5.1 billion were reported in

the United States during 1980, representing nearly half of Dow's total revenue. Sales were up 12 percent over 1979. Despite a soft economy and a major increase in feedstock and energy costs, record profits before tax of \$809 million were recorded, due in part to successful price management, cost reduction programs and optimal utilization of manpower resources. This compares with pre-tax profits of \$689 million in 1979.

Exports of products from the United States exceeded expectations during the first half of the year and then slackened during the second half, resulting in exports with a market value of \$1.2 billion for the year.

At the operating level, innovative cost saving programs were instituted which contributed about \$100 million directly to Dow U.S.A. profit in 1980. Moreover, many of these programs will continue to pay important dividends in future years.

At mid-year, the Chemical Manufacturers Association selected Dow U.S.A. as winner of the Lamont du Pont Safety Award for the greatest reduction in recordable injury cases over a five year period. The award was based on the company's 58 percent improvement during 1978 and 1979 over the previous three year period. Moreover, our 1980 safety performance was even better, with our lowest-ever frequency rate of 0.25 per million work hours.

As expected, Dowlex polyethylene resins excelled in both sales and profits. Dowlex is a linear low density polyethylene which has exceptional

toughness, puncture resistance and tear strength. Principal markets include wire and cable jacketing, films for agricultural use, packaging, construction, piping and household products. Dowlex has great potential and the company has plans to increase production capacity from 150 million pounds a year to 850 million pounds, worldwide, by 1983.

A major contributor to U.S. profits was the Dowell Division, the oil and gas well servicing unit mentioned earlier. Dowell is expanding aggressively to meet the needs of the nation's energy exploration activities.

Also showing strong gains were Ziploc plastic bags, which recorded sales 38 percent higher than in 1979. Ziploc bags are the leading food storage bags in the United States.

Other major products with outstanding sales performance included methylene chloride, propylene glycol and glycerine.

Products representing future high sales potential include high-gloss, high-impact ABS resins for a variety of plastics applications, S/B latexes for fillers to replace fiber in paper making; titanium for use in aircraft and aerospace industries; acrylic and vinylidene chloride latex for the paint and other industries, and fumed silica for silicone applications.

A number of other products are exhibiting exceptional potential. They include Carlon herbicide, used principally for brush control along rights-of-way for utility lines and forestry control; polycarbonate plastics for automotive applications, window glazing, appliance housings and panels; weight-saving metal-plastic laminates for automobiles and household appliances and duct work; and hollow fiber membranes for artificial kidneys, gas separation and water purification. Dursban insecticide also shows promise as an effective product for termite control.

Start-up of the Oyster Creek Division's crude oil processing plant in Texas was completed in the spring. This plant is capable of processing

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200,000 barrels of crude oil a day. Dow also completed construction of a new, large naphtha cracker at its Louisiana Division, taking its naphtha feedstock from the Oyster Creek facility.

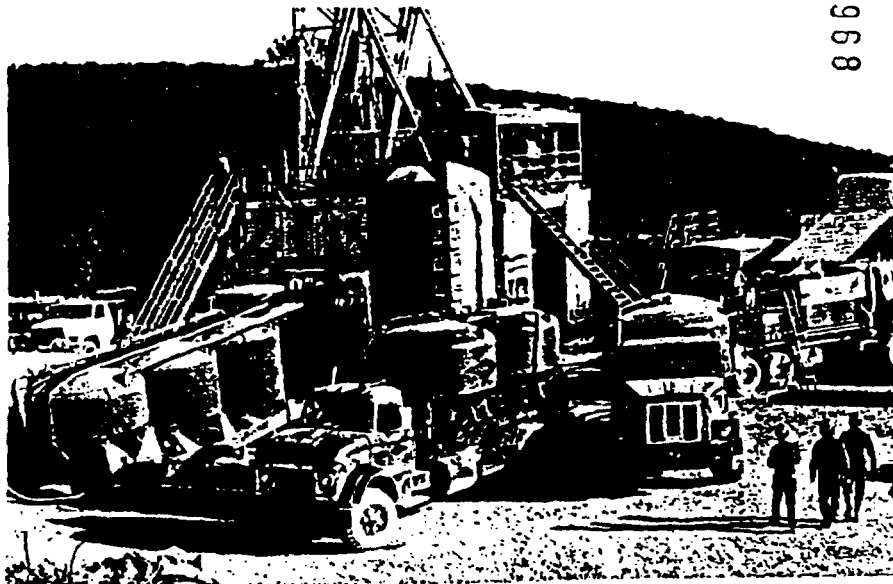
In other hydrocarbon technology developments, progress continued in the fields of conversion of coal to petroleum and the gasification of coal and lignite.

Energy conservation programs, coupled with new technology, were instrumental in helping reduce total raw material and energy costs. Fourteen new gas turbine generators were authorized for the Gulf Coast which, when completed, will increase fuel efficiency by one third.

The State of Alaska chose Dow to head a petrochemical project under the name of the Dow-Shell group to conduct a year-long study which could lead to the construction of more than \$3 billion in petrochemical plants, pipelines and support facilities in Alaska during the next five years.

Two small subsidiaries were sold during the year. The Tennessee operations of Hydrosience, Inc., an environmental engineering firm acquired by Dow in 1972, were sold to IT Corporation. Wanda Petroleum Company, a subsidiary involved in the storage, transportation and marketing of natural gas liquids and refinery products, was sold to Enterprise Products Company.

Two new Dow distribution terminals were authorized at Joliet, Illinois, and Bayonne, New Jersey, and an expansion was authorized for the Long Beach, California, terminal. When completed, these will further improve Dow's ability to effectively and efficiently move products to Dow customers. Dow U.S.A. has 140 terminals and warehouses to serve its customers, and has added 700 cars to its modern rail fleet, which now totals 8,500 cars.



Oil and gas fields all across the United States and Canada are the work place for 7,000 employees of the Dowell Division. Dow's oil well servicing unit. Booming oil and gas drilling activity has boosted demand for Dowell and for Dowell-Schlumberger, Dow's overseas joint venture.

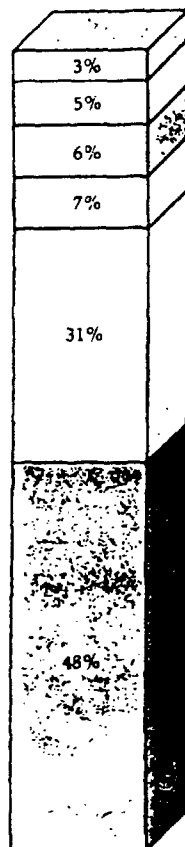
The Year in Review — Continued

Area Sales

Brazil
Latin America
Pacific
Canada

Europe

United States



Europe

Frank P. Popoff
President
Dow Chemical
Europe S.A.

While strong demand in the early months of 1980 enabled sales for the year in Europe to advance 21 percent to \$3.2 billion, rapidly deteriorating business conditions held pre-tax profits to \$312 million, compared with \$348 million the previous year.

The past year was characterized by a marked slowdown in the economies of the major European countries. Growth in output was substantially reduced compared with 1979 and both inflation and unemployment persisted at high levels.

Strong demand for basic chemicals lasted into the second quarter of 1980, but the effects of rapidly declining economic activity and escalating feedstock and operating costs were increasingly felt throughout the remainder of the year. Prices for petrochemicals and plastics fell during the third quarter and recovered only slightly during the final quarter of the year.

In the chemicals business, sales of caustic soda showed strong growth, due to price increases, while in plastics, demand for coatings products continued at the high levels of 1979. Exceptionally good results were recorded by Derakane vinyl ester resins. Specialty chemicals also enjoyed an excellent year, with fabricated products and agricultural chemicals showing outstanding growth.

Expansions in propylene oxide, chlorine and chloromethanes at

Stade came on stream in 1980, while at Terneuzen ethylene oxide and ethylene amines expansions are due for completion in 1981 and 1982, respectively.

Work on DINA, a major petrochemical complex in Yugoslavia, continues satisfactorily with start-up of the first phase planned for 1981-82. DOKI, a smaller polystyrene joint venture in Yugoslavia, completed its second full year of operations.

In Spain, expansion of the Tarragona site to world scale dimensions has begun. Negotiations continue for major petrochemical developments in Saudi Arabia and Scotland.

Steps were taken during the year to strengthen Dow's European energy feedstock position. In conjunction with Sovereign Oil and Gas, oil exploration activity in the United Kingdom sector of the North Sea was initiated. In another development, agreement was reached with La Compagnie Francaise des Petroles (CFP) to purchase a twenty percent participation in the Total refinery at Flushing in The Netherlands.

In a move to broaden coverage of the agricultural chemicals business in France, a new company called Prochimagro was formed through the acquisition of Prochim, a company formulating and selling agricultural chemicals in France since 1946.

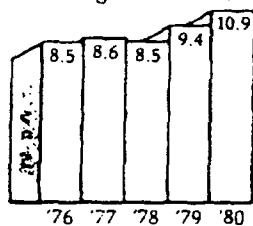
In Zurich, the Dow Banking Corporation, a wholly owned subsidiary, sold 24 percent of its shares on the Swiss open market. Dow retains 76 percent of the shares. Founded 15 years ago, the international merchant bank has grown consistently. Broadening the shareholder base opens up new sources of equity financing to support further expansion.

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Company Interest Rates

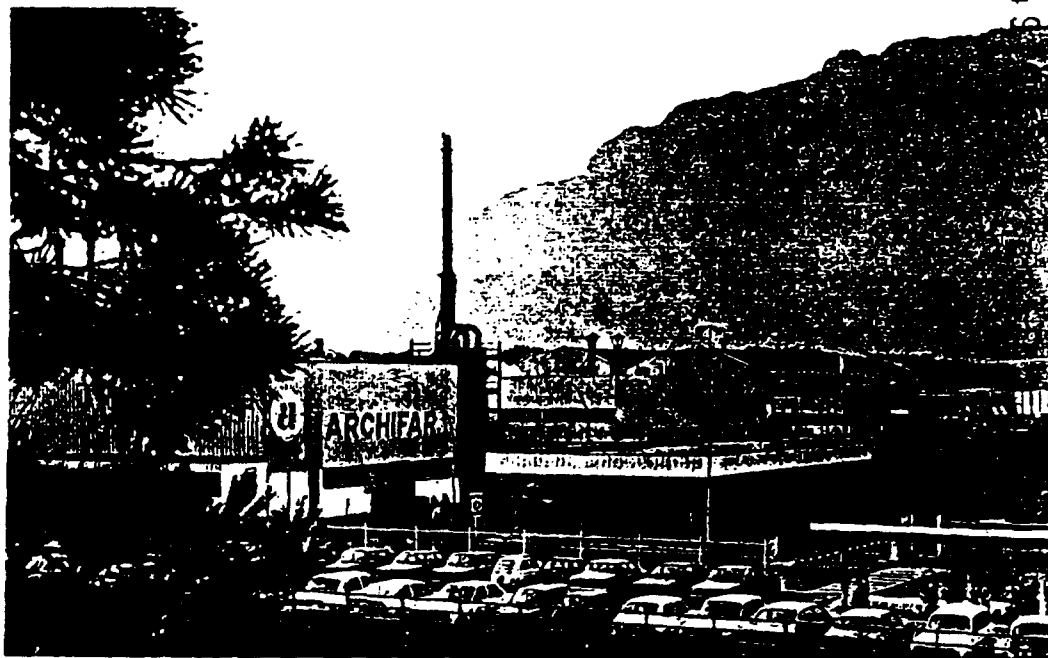
Dow has long used debt to fuel its growth — and made money on the borrowed dollars. The company consistently earns a higher rate of return than the interest it pays.

(Percentage interest rate on average total debt)



Top: Archifar S.p.A., an Italian firm that produces bulk antibiotics, including Erythromycin and Ampicillin, has been acquired by Gruppo Lepetit, a Dow subsidiary in Italy that has extensive interests in Brazil and the rest of Latin America. Archifar has annual sales of \$30 million.

Lower: One of Dow's newest plants to make Styrofoam plastic foam is located at Sharjah in the United Arab Emirates. Dow now has a global network of 16 plants producing Styrofoam insulation.



The Year in Review — Continued

Distribution of the 1980 Income Dollar (Corporate)

Cash Dividends Declared

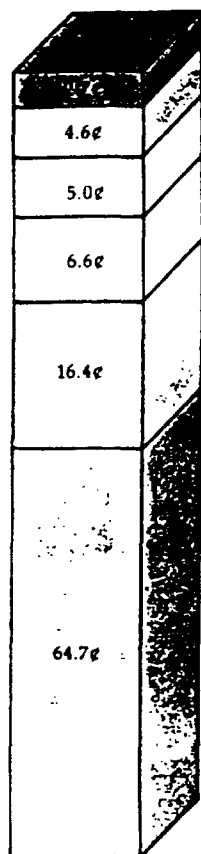
Earnings Invested

Taxes

Depreciation

Wages, Salaries, and Benefits

Raw Materials Supplies, and Services



Canada

James M. Hay
President
Dow Chemical
of Canada, Limited



Although 1980 was a recession year, sales rose to \$731 million, up 16 percent from \$630 million in 1979. Sales volume grew more than four times as fast as the "real" Canadian gross national product. Pre-tax profit reached \$59 million, the same amount (excluding a one time sale of oil and gas assets) as in 1979.

Decreased demand for some major products caused a decline in selling prices during the second half of the year while costs of raw materials and energy continued to increase. This, however, was partially offset with continued strength in other product areas. The Alberta project was completed in 1980 with the final unit, ethylene oxide/ethylene glycol, coming on stream in July, but start-up costs and a weak worldwide vinyl chloride market resulted in the project not contributing to profit in 1980. It is expected to be profitable in 1981.

Export sales, which doubled from 1979 levels, contributed to improved profits. Exports accounted for 23 percent of Dow Canada's chemical and plastic production in 1980 and this figure is expected to grow to about 29 percent in 1981. Over the past twelve months, Canadian plants produced at an average of 85 percent of capacity.

Dow Canada has received approval from the Energy Resources Conservation Board of Alberta for a new 400 million pound per year Dowlex polyethylene resins plant at Fort Saskatchewan. To provide assured long term feedstock supplies for Canadian operations, construc-

tion of a second 1.5 billion pound per year ethylene-from-ethane plant has begun by Alberta Gas Ethylene Company Ltd. Completion of both plants is expected in 1984.

There is some political confrontation in Canada as Alberta and the Federal Government disagree on the national energy program. A political compromise is expected and management believes Dow Canada will continue to contribute to the country's economic strength.

Pacific

Andrew J. Butler
President
Dow Chemical
Pacific Limited



The global recession reached the Pacific approximately six months after the United States, as several Asian countries' exports to industrialized nations fell off badly in the second half. Commodities such as vinyl chloride, ethylene dichloride and caustic soda were affected most. Agricultural products, pharmaceuticals and designed products showed good growth in volume and profits.

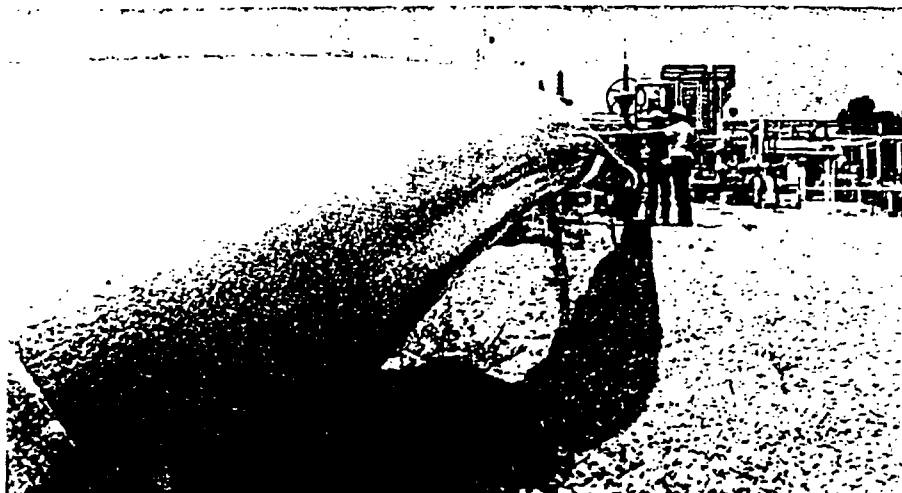
Area sales increased a modest eight percent to \$680 million, with the regions of New Zealand and Japan doing especially well. Area profits declined to \$75 million, reflecting generally lower volume, the first full year of operations for the Korean facilities and the worldwide trend of greatly increased raw material and energy costs. The profit before tax in 1979 was \$124 million.

Korea's export-oriented economy, reacting to the second oil shock and internal political tensions, took a backward step with a contraction in the gross national product of six percent, its first in twenty years. However, new plants for chlorine, caustic soda, vinyl chloride and low density polyethylene were started success-

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fully and there should be a substantial improvement in 1981.

At the close of the year, Dow revealed long-range plans for substantial expansion of its chemical business in Japan. Since on-shore production of chloralkali products is severely impacted by high power and salt costs, the original plans to produce chlorine in Japan have been deferred. Major marine terminal facilities will be developed to handle much larger volumes of ethylene dichloride, vinyl chloride and caustic soda. A joint venture vinyl chloride product plant is also in the planning stage.



Top: The longest artery ever built to move batched gas products – the 1,900 mile Cochin Pipeline – runs from Dow's complex at Fort Saskatchewan through the northern tier of the United States to the termination (above) at the Sarnia Division in Ontario. Dow is a one-third partner in the twelve-inch line.

Lower left: One of Dow's fastest growing products is Dowlex linear low density polyethylene. Its superior qualities contribute to the development of products such as this Roughneck trash can made by the Rubbermaid Company.

Lower right: A "PizzaTHERM" carton, made with Styron 685D polystyrene resin, won first place in the Packaging Division of a design competition sponsored by Plastics World magazine. The package provides exceptional heat insulation and resists leak-through.





Latin America

Enrique C. Falla
President
Dow Chemical
Latin America

The environment in the major Latin American countries during 1980 was characterized by a climate of relative political stability, a moderate — but steady — economic growth, and a deceleration in the rates of inflation. Sales rose to \$557 million, up 17 percent from \$476 million in 1979. Gains were achieved in both physical volume and prices, but the increase in prices was insufficient to cover rising costs. Pre-tax profits totaled \$93 million, compared to a record level of \$102 million in 1979.

Throughout the year, Dow maintained its leading position as suppliers of industrial chemicals, while specialties continued as the



Top left: A biological oxidation facility serving Dow's manufacturing complex at Stade Federal Republic of Germany, can treat waste water with salt content up to 25 percent. The facility has a capacity equivalent to the needs of a city of 600,000 people.

Lower left: A farm worker in Ecuador puts Dow Polyethylene D film on an immature banana bunch. This insecticide film protects maturing bananas from attack by *Collapsis* beetles, red thrip and other pests.

Lower right: At Dow Brazil's research and development center in Franco da Rocha, an employee studies a polymerization process for making polyester resins from propylene glycol. The laboratory, which was dedicated in February 1981, is the first of its kind in Brazil for the analysis of chemical residues and environmental samples.

fastest growing products for the area. Agricultural products maintained their record of consistent growth. Tordon products solidified their position as the leading herbicide, while Lorsban insecticide, in combination with other insecticides, effectively penetrated the cotton pesticides market with a cost performance advantage. The pharmaceutical business, through the introduction of new products, an effective promotional program, and better utilization and deployment of resources, has become a solid profit contributor to the area.

Although locally manufactured products still constitute less than one-half of Dow sales in the area, construction is underway on two projects to expand the local manufacturing base. A new Voranol polyols plant will expand operations at the San Lorenzo, Argentina site, with a starting date in 1982. Insecticide formulation facilities will come on stream in mid-1983 in Cartagena, Colombia.



Brazil

Hunter W. Henry, Jr.
President
Dow Quimica, S.A.

Sales in 1980 increased to \$300

million from the \$276 million registered in 1979, with a healthy physical volume growth of seven percent. However, stringent application of price controls by the Brazilian government, particularly with respect to the chemical and pharmaceutical industries, resulted in an unsatisfactory profit performance. The loss totaled \$13 million, compared with a loss of \$3 million in 1979. Energy, raw materials and labor escalated rapidly during the year and the control mechanisms did not allow a timely pass-through of these costs.

The volume growth in the industrial sector came from strong performances by such products as caustic soda, chlorinated solvents, and glycols. Herbicides and insecticides also grew significantly in physical and dollar volume in response to the government emphasis on agriculture and a special program to increase alcohol production as a means of reducing oil imports.

The design and plastics group had good growth as increased capacity was realized from the S/B latex plant. The new epoxy resins plant completed its first full year of operation with subsequent growth of over 40 percent in sales. Significant export shipments of Voranol polyols were registered. Two new Styron polystyrene resins, for injection and extrusion, were introduced.

The pharmaceuticals business faced a very difficult year, especially due to government restrictions on ethical products and severe hikes on customs duties and taxes for imports. Dow's anti-cholesterol drug, probucol, was successfully introduced in Brazil under the trade name Lesterol, reaching a 30 percent market share within three months of launching.

Energy savings put into operation during 1980 enabled Dow Brazil to reduce fuel oil consumption by 13 percent compared to 1979, despite a nine percent increase in physical output.

A laboratory for the analysis of chemical residues in agricultural products and environmental samples was established in Dow Brazil's new research and development center. This laboratory is the first of its kind in Brazil.

Dow maintained its position as the largest exporter of industrial and agricultural chemicals in Brazil with an increase of 50 percent in sales from its plants in Brazil.

Global Sales By Product Group (Corporate)

Chemicals/Metals
Group
Inorganic
Chemicals

11.7%

Organic
Chemicals

16.4%

Metals

3.3%

Functional Chemicals
and Services

9.6%

Hydrocarbons

13.3%

Plastics/Packaging
Group

Molding
Materials

17.8%

Plastic Products

4.0%

Coatings and
Monomers

13.3%

Bioproducts/Consumer
Product Group

Health Care Products
and Services

4.5%

Agricultural Chemicals

4.8%

Consumer Products

1.3%

ST0004974



Franklin



Naegele



Schornstein



Temple



Boyd



Williams



Pruitt



Keil



Sheetz



McKennon

Board and Management Changes

During the year, the following changes took place on the board of directors and among corporate officers.

Barbara Hackman Franklin was elected to the board of directors. She has served as a commissioner of the U.S. Consumer Products Safety Commission and was a presidential assistant on the White House staff. She is now a senior fellow in Public Management of the Wharton School of the University of Pennsylvania.

Robert E. Naegele, Dave W. Schornstein and Joseph G. Temple, Jr., were named to the newly created post of group vice president. They were replaced as presidents of Dow Chemical Canada, Dow Chemical Pacific and Dow Chemical Latin America by James M. Hay, Andrew J. Butler and Enrique C. Falla, respectively.

In accord with company policy for directors, Clyde H. Boyd, president of Dow Chemical Europe, and G. J. Williams, financial vice president, relinquished their line duties. Both remain vice presidents and directors. M. E. Pruitt, corporate director of research and a vice president, retired from the company.

Replacing Williams as financial vice president is Robert M. Keil, who had been executive vice president of Dow Chemical U.S.A. Replacing Boyd as president of Dow Europe was Frank P. Popoff.

David P. Sheetz replaced Pruitt as vice president and corporate director of research. Sheetz had been vice president and director of R&D for Dow Chemical U.S.A.

In April, Keith R. McKennon, director of Government and Public Affairs, was elected a vice president of the company.

ST0004975

Via Print, Podium, Airwaves —

Dow People Are Speaking Up To Improve Public Understanding Of Issues Facing The Industry

All around the world today, Dow people are speaking up. People who care deeply about their company, what it stands for, and how it is viewed by others. People who are immensely proud of their company's performance, yet realistic enough to realize it is the public's *perception* of that performance that counts in the long run.

Says Keith McKennon, corporate vice president for Government and Public Affairs, "People who know Dow firsthand have great respect for the company and what it represents. Our job is to give more people an opportunity to know us better."

Setting the tone for this spirited effort is an expanding U.S. regional advertising program that focuses on, and defines, Dow's emerging edge for the eighties. We call it simply, "common sense/uncommon chemistry." But there's more to it than a phrase to capture people's attention.

"It's Dow's formula for growth," says Dow U.S.A. president David Rooke, "and it's based on *people* as the catalyst . . . If you look at our progress in the areas of health, safety and the environment, you'll begin to see how the uncommon chemistry we achieve depends on the common sense we share."

In the advertising produced by Dow, employees speak forcefully and credibly about the work they do and its relevance to the people of our plant communities. No Madison Avenue here. The spokespeople are what they appear to be: engineers, technicians, toxicologists, nurses, industrial hygienists, maintenance workers — all dedicated to bettering public understanding of the industry they work in and the company they work for.

In addition to Dow's Michigan headquarters area, current media coverage includes Freeport and Oyster Creek, Texas, Pittsburg,



"As an outdoorsman, I don't believe in playing games with pollution control. And neither does Dow"

By Ron Malecki, Environmental Engineer, Michigan Division, Dow Chemical Co.

The challenge is to all people who care about the environment. It's not just a matter of playing games with pollution control. It's a matter of taking responsibility for the actions we take. As an outdoorsman, I don't believe in playing games with pollution control. And neither does Dow.

There's a lot of talk about the environment these days. But what's the real story? Is it just a matter of playing games with pollution control? Or is it a matter of taking responsibility for the actions we take? As an outdoorsman, I don't believe in playing games with pollution control. And neither does Dow.



For more information, contact Keith McKennon, Corporate Vice President for Government and Public Affairs, Dow Chemical Company, P.O. Box 170, Freeport, Michigan 49734.



Keystone of the company's issues advertising program is a series of commercials and ads "starring" employees who talk about their work and how it contributes to society. The advertisement above, featuring Ron Malecki, an environmental engineer with the Michigan Division, was produced on location by Dow personnel (center). The final product was published in regional editions of leading national magazines and a companion television commercial was shown on stations in selected markets.

1ST0004976

The People of Dow Speak Up — Continued



Above left: In the "hot box," a Dow executive undergoes rigorous questioning as the guest star on a simulated television panel news program called "Business World."

Above right: More than a hundred employees such as Joe Quick volunteer as speakers to school, civic, service and other groups, including this class at Northwood Institute. Quick is project leader for aquatic toxicology in the Environmental Sciences Research Laboratory.

Left: Free enterprise contests are among numerous campus activities devoted to business understanding that are supported by the company.

ST0014977

California, Plaquemine, Louisiana, and Tulsa, Oklahoma. We're also running in the state capital cities of Lansing, Austin, Sacramento, Indianapolis, Baton Rouge — and Washington, D.C.

So why not a national program? "It may be coming," says Bud Carpenter, director of communications, "but credibility begins at home. Our first priority has always been for our employees and for those who live and work in our plant communities. That's why we have initiated a regional program before considering a national effort."

Keeping the advertising credible is essential. People today sense that big companies are somehow awesomely distant and lacking in human scale. With this approach, we take people "into" our plants and into our confidence. We want them to know what we're really like — and that we have the same concerns they do.

That's important, because national surveys have shown a disturbing trend in public opinion. While people clearly appreciate the miracles of modern chemistry, they're not all that certain about the industry that produces them.

So far, attitude research shows we're making some progress. Telephone surveys indicate the campaign has enjoyed excellent audience recall and response. And people with no prior impression of Dow now have a positive view of the company.

Will the program continue to stress chemical safety and the safeguarding of human health and the environment? Yes, because it demonstrates in a very visible way Dow's firmly-held belief in a common-sense approach to these critical activities.

But "common sense" is only the first half of our equation for growth. Another aspect is equally important in its own right, and that's our concept of "uncommon chemistry."

For years, Dow has been honing the cutting edge of new chemical technology with great success. But until now, the company has chosen to speak somewhat modestly about many of its achievements.

No more. Today, the company is involved in the development of whole new sciences including such promising pursuits as laser and enzyme chemistry, and the use of recombinant DNA in restructuring molecules. These are the emerging *bio*-technologies, and they will fundamentally alter the way chemical companies operate in the future.

With Dow having an important role in bringing this about, telling our high-technology story is essential if people's perceptions of Dow are to keep pace with their expectations.

Right now, we're laying that groundwork by testing some exciting concepts in national advertising for next year. With the help of Dow's advertising agency, we're developing messages that will highlight Dow's unique ability to bring its "uncommon chemistry" to bear on the worldwide problems of energy, food production, transportation and human health.

In a related move, Dow has taken the plunge into public television — helping to underwrite thoughtful programs that enhance the notions of private enterprise and freedom of choice in people's lives. Last year, these included the series, "Ben Wattenberg's 1980," and the widely-acclaimed "Firing Line," with commentator, William Buckley.

Television may be the obvious forum to address public issues, but it can also be a minefield for the

unwary: Companies can find themselves debating in an electronic climate aflutter with bad science, unwarranted assumptions and wobbly conclusions — which are often given credence by alarmingly shallow and peremptory reporting.

Which is to say, "speaking up" can be downright risky.

But it's a risk worth taking. For a dozen years or more, business has been in a one-sided debate — with many companies sitting on the sidelines, losing by default. That's changing. Companies now realize that their adversaries are playing hard ball, and that to retain and enlarge its constituency, business must stand up, speak up, and enter the fray. If it doesn't, no one else will.

And that's precisely the point of "The Point Is . . .," a twice-a-month summary of public issues that are important to Dow and the chemical industry.

Published in a newsletter format, it addresses issues running the gamut from safety and cancer to Big Government and the media. Regular mailings are made to legislators, educators, environmental groups, editors, opinion leaders, and a host of others who influence public policy.

Apparently, we've struck a responsive chord: of the 18,000 people who now receive "The Point Is . . .," most have asked to be put on our mailing list.

These issue-oriented commentaries are part of a grassroots effort by many Dow people, including the enthusiastic employees who man the

ST00004978

The People of Dow Speak Up — Continued



Top: Toxicologists and industrial hygienists, such as Dr. Jessie Norris (right), periodically take time to participate in media tours to explain their work.

Center: Direct communication with legislative and regulatory officials is a routine part of the work-week for many Dow managers, including Fred Hoerger, director of regulatory and legislative issues for the Health and Environmental Research department.

Lower: Public issues important to Dow and the chemical industry are discussed in "The Point Is . . ." a newsletter that is circulated to people in government, education and the media.

company's volunteer speakers' bureau.

Over the past two years, these employees have given over 650 talks before an aggregate audience estimated at over 50,000 people. This includes civic organizations, service clubs — even activist groups.

The talks aren't "canned propaganda," but genuine efforts to get at the issues and dispel the doubts and misconceptions that accompany them.

That's also the purpose behind Dow's "Visible Scientist" program: To facilitate a more rational dialogue on issues, Dow has assembled a cadre of knowledgeable "expert witnesses" from among its own scientific ranks. Articulate and personable, these Dow people approach controversy armed with reason instead of rhetoric, facts instead of supposition, science instead of chicanery.

The electronic media provide most of the exposure, but surviving the give-and-take of television takes more than preparation. It takes television "presence." That's what we hope to build with an innovative, closed-circuit, on-camera training program called "Business World."

In it, we use a half-hour question and answer format similar to actual public affairs programming on television. Dow people, posing as a "panel of experts" from the working press, fire questions at the person in the "hot box." It's a no-holds-barred exercise to acquaint selected Dow people with the "realities" of television journalism.

Dow's "Speak Up" effort has its political side, too. In the last election, for example, many a Dow employee put his "money where his mouth is" by contributing to one of eight employee Political Action Committees (PACS) around the country. There is no "button holing" by management. No pressure of any kind. The only common thread is the individual's

Need a Speaker? Call Dow

If you'd like to obtain a Dow speaker for your organization, please contact the Speak Up Coordinator, Dow Chemical U.S.A., 2020 Dow Center, Midland, Michigan 48640. We would like to have an audience of at least 30 persons. While not every request can be met because of prior commitments, speaker availability or remote locations, a sincere effort will be made to honor your request.

desire to support Congressional candidates with a strong belief in free enterprise.

However, Dow employees do not restrict their support of free enterprise to the ballot box. For years, they have participated in business awareness programs to reach students and teachers in secondary schools and higher education. As part of these programs, Dow provides films, booklets, and other instructional aids on request.

So there you have it: The people of Dow are being heard. Today, their voices are joining with others in industry who are determined to stand up and speak up for what they believe. About their country. About their business. About the quality of all our lives.

About time, isn't it?

common
sense
uncommon
chemistry

ST0004979

Management's Discussion and Analysis of Financial Condition and Results of Operations

1980 was a year of anomalies. Sales established a new record each month in the first quarter. Demand was strong, prices showed firmness, plant utilization was at a high level and inventories were under control. All areas of our global business shared in this prosperity. Commencing in April, our two principal markets, the United States and Europe, experienced significant reductions in sales and resistance to needed price increases surfaced. Then, as the year drew to a close, the U.S. market began to show signs of revitaliza-

tion but Europe failed to show the same vigor.

The quarterly financial statistics shown below reflect these conditions. Net income for the fourth quarter of 1980 and 1979 each includes profit from the sale of hydrocarbon properties equal to \$.28 per share. The disposals will not have a material effect on the continuing profitability of the Company.

Unaudited quarterly financial data for 1980 and 1979 follow (in millions, except per share data):

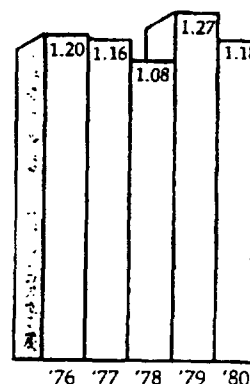
1980	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Net sales	\$2,810	\$2,523	\$2,521	\$2,772	\$10,626
Operating income	399	305	273	235	1,212
Net income	231	171	161	242	805
Earnings per common share	1.27	.94	.88	1.33	4.42
Cash dividends paid per common share	.40	.40	.40	.40	1.60
Market price range of common stock:					
High	39.25	35.63	38.25	36.75	39.25
Low	28.25	29.00	31.75	30.25	28.25
1979	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Net sales	\$2,075	\$2,307	\$2,426	\$2,447	\$9,255
Operating income	337	395	366	236	1,334
Net income	176	215	199	194	784
Earnings per common share	.97	1.19	1.09	1.08	4.33
Cash dividends paid per common share	.35	.35	.35	.40	1.45
Market price range of common stock:					
High	29.63	29.00	34.88	33.75	34.88
Low	24.38	24.75	25.00	27.13	24.38

Sales in 1980 totaled \$10.6 billion, an increase of 14.8 percent over 1979 sales of \$9.3 billion. The significant increase in basic cost components forced the Company to raise the selling prices of its products and serv-

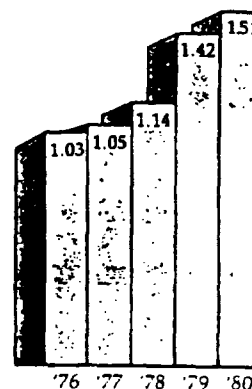
ices. Dow's selling price increases for 1980 and 1979 were:

Selling Prices	Percent increase from prior year	
	1980	1979
United States	16.8	12.9
Non-U.S.	11.9	32.7
Global	14.2	22.1

Capital Spending
(Dollars in Billions)



Cash Flow
(Dollars in Billions)



ST0004880

Management Discussion and Analysis — Continued

The percentage increases in sales for industry segments and geographic areas were:

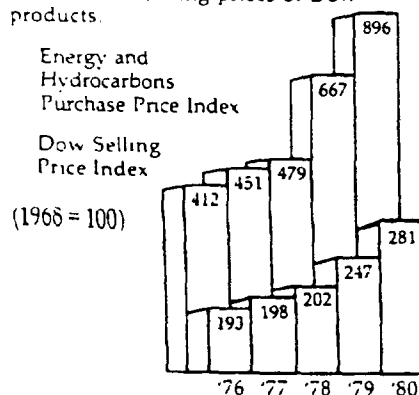
Sales	Percent increase from prior year	
	1980	1979
Industry segments		
Chemicals/Metals . . .	21	35
Plastics/Packaging . .	8	39
Bioproducts/Consumer Products . .	12	16
Geographic areas		
United States	12	26
Europe	21	47
Canada	16	44
Pacific	8	55
Latin America	17	41
Brazil	9	11

The escalation of the cost of feedstocks and energy, as well as labor and employee benefits, continued the pattern set in recent years.

Costs	Percent increase from prior year	
	1980	1979
Feedstocks and energy, per unit	34	39
Labor and benefits, per employee	9	13

Energy Cost vs. Selling Prices

The cost of energy and hydrocarbons — by far the company's largest single cost item — once again far outstripped the increase in the selling prices of Dow products.



The ratio of operating income to sales in 1980 was 11.4 percent, down from 14.4 percent in 1979, and due almost exclusively to the inability to obtain adequate price adjustments.

Operating income by segments and geographic areas reflected the following changes:

Operating Income	Percent increase (decrease) from prior years	
	1980	1979
Industry segments		
Chemicals/Metals . . .	7	6
Plastics/Packaging . .	(25)	67
Bioproducts/Consumer Products . .	16	(33)
Geographic areas		
United States	2	5
Europe	(11)	62
Canada	22	37
Pacific	(37)	97
Latin America	(17)	86
Brazil	(100)	15

Plastics/Packaging operating income showed a decline of 25 percent following an outstanding year in 1979. Demand dropped sharply and prices for polyolefins and styrene polymers softened while costs continued to soar. Prices began to firm near year-end.

Operating statistics by industry segments and geographic areas are shown in greater detail in Note S to the financial statements.

Interest cost rose sharply during 1980 by \$98 million to \$456 million due to increased borrowing and higher rates. However, the impact on income was moderated by the capitalization of \$71 million of interest during construction of capital additions which was required by accounting rules for the first time in 1980.

The reduction in the effective income tax rate from 39.2 percent in 1979 to 34.3 percent in 1980 added \$61 million, or \$.33 per share to net income. The conditions which gave rise to the rate change are shown in Note E to the financial statements.

Capital spending at \$1.2 billion in 1980 continued expansion and improvement programs which have been above \$1 billion annually since 1976. The probabilities are that construction expenditures will continue at or above this level for several years.

The financing of capital programs is expected to come both from internally generated cash flow and from external borrowings.

Quarterly cash dividends of \$.40 per share were paid during 1980. However, in December, the board of directors raised the rate to \$.45, effective for the dividend paid January 30, 1981.

1979 vs. 1978

An analysis of 1979 operations versus 1978 shows that sales rose from \$6.9 billion to \$9.3 billion, or 34 percent. Approximately 22 percent was due to increased prices which were necessary because of huge jumps in costs. All areas registered significant sales improvement. In terms of industry segments, Bioproducts/Consumer Products sales realized the smallest percentage increase in 1979, which was due in large measure to government controls on the price of pharmaceuticals.

Operating income showed a 27 percent increase overall, but industry segments experienced an erratic pattern. Chemicals/Metals increased only 6 percent mainly due to unrecovered cost increases. Strong selling prices in Plastics/Packaging resulted in a 67 percent increase, while Bioproducts/Consumer Products operating profits declined 33 percent for the reason mentioned above.

Income benefited by \$.28 a share in the fourth quarter of 1979 from the sale of an interest in certain oil and gas properties in Canada.

SUPPLEMENTARY INFORMATION ON EFFECTS OF CHANGING PRICES The table below shows certain income data presented in the historical cost income statement on page 23, adjusted to constant dollars and current costs expressed in dollar values generally at the average 1980 price level. The changes to costs and income are presumed to reflect some of the deleterious effects of inflation on reported income under the two different methods of measuring inflation. Those changes are moderated because the primary financial statements already give substantial recognition to the effects of inflation by worldwide use of declining balance depreciation and the last-in, first-out method for valuing inventories.

Consolidated Statement of Income Adjusted for Changing Prices
Year Ended December 31, 1980
(In millions)

	As Reported in the Financial Statements	Adjusted for General Inflation (Constant Dollars)	Adjusted for Changes in Specific Prices (Current Costs)
Net sales	<u>\$10,626</u>	<u>\$10,626</u>	<u>\$10,626</u>
Cost of sales, excluding depreciation	7,921	8,000	8,000
Depreciation expense	728	829	806
Interest expense — net	298	298	298
Gain on sale of hydrocarbon properties	(74)	(74)	(74)
Other operating expense	524	524	524
Provision for taxes on income	<u>424</u>	<u>424</u>	<u>424</u>
	<u>9,821</u>	<u>10,001</u>	<u>9,978</u>
Income from continuing operations	<u>\$ 805</u>	<u>\$ 625</u>	<u>\$ 648</u>
Purchasing power gain on net monetary liabilities held during the year		<u>\$ 470</u>	<u>\$ 470</u>

Historical Cost Adjusted for General Inflation

The supplemental data in constant dollars reflect historical costs adjusted for changes in purchasing power of the dollar as measured by the Consumer Price Index for All Urban Consumers published by the Bureau of Labor Statistics. These amounts do not purport to represent appraised value or any other measure of current value. Depreciation was computed under the straight line method.

At December 31, 1980, there was an excess of monetary liabilities over monetary assets. As inflation erodes the purchasing power of the dollar, net debts are repayable with dollars of lesser value resulting in a gain in purchasing power of \$470 million.

Current Costs

Cost of sales was calculated by applying the last-in, first-out method to all inventories. The carrying value of \$2,745 million for inventories at December 31, 1980 was determined by using the year-end purchase prices of raw materials and supplies and the standard cost of manufacturing for finished goods and work-in-process inventories which approximates current cost.

Net plant properties were determined primarily through the use of indices related specifically to the construction cost of chemical plants. These values which totaled \$8,776 million at December 31, 1980 represent the estimated current costs of existing assets and do not consider technological improvements and efficiencies associated with normal replacement of productive capacities. Depreciation was computed using the straight line method.

Cost for assets outside the United States was determined in local currency and translated into U.S. dollars at exchange rates in effect at year-end.

Management Discussion and Analysis — Continued

Increases in current costs of inventories and plant properties held during the year, less the effect of general inflation, are not included in income from continuing operations but are shown below:

	Inventories	Plant Properties	Total
Increase in current cost	\$ 151	\$ 402	\$ 553
Less — General inflation	<u>271</u>	<u>985</u>	<u>1,256</u>
Net	<u>\$(120)</u>	<u>\$(583)</u>	<u>\$ (703)</u>

The following table is a five-year comparison of selected supplementary financial data adjusted for effects of changing prices. Certain information pertaining to years ended on or before December 31, 1978 is omitted because it is impracticable to obtain such information.

Five-Year Comparison of Selected Supplementary Financial Data Adjusted for Effects of Changing Prices (Average 1980 Dollars)

	Years Ended December 31				
	1980	1979	1978	1977	1976
(In millions, except per share data)					
Historical cost information adjusted for general inflation (constant dollars):					
Net sales	\$10,626	\$10,507	\$8,699	\$8,477	\$8,182
Income from continuing operations	625	820			
Income from continuing operations per share	3.43	4.53			
Purchasing power gain on net monetary liabilities held during the year	470	494			
Net assets held at year-end	7,463	7,170			
Current cost information:					
Income from continuing operations	648	790			
Income from continuing operations per share	3.56	4.36			
Increase in the general price level over increase in specific prices	703	403			
Net assets held at year-end	7,980	8,027			
Cash dividends declared per share	1.63	1.68	1.63	1.55	1.37
Market price per share at year-end	30.68	34.49	30.26	35.48	61.42
Average Consumer Price Index (1967 = 100)	246.8	217.4	195.4	181.5	170.5

Income tax expense as shown by the primary financial statements has not been changed.

Selected Financial Data

	Years Ended December 31				
	1980	1979	1978	1977	1976
(In millions, except per share)					
Net sales	\$10,626	\$ 9,255	\$6,888	\$6,234	\$5,652
Net income	805	784	575	554	612
Net income per common share	4.42	4.33	3.16	3.00	3.30
Total assets	11,538	10,252	8,789	7,752	6,944
Long-term debt	3,438	3,055	2,937	2,473	1,998
Cash dividends declared per common share	1.65	1.50	1.30	1.15	.95

Management's Statement of Responsibility for Financial Statements

The following consolidated financial statements and related notes of The Dow Chemical Company and its subsidiary companies were prepared by the management in accordance with generally accepted accounting principles. The Board of Directors, through its three-member Audit Committee, is responsible for assuring that management fulfills its responsibilities in the preparation of the financial statements.

The Company is responsible for the integrity and objectivity of the consolidated financial statements, which are presented in a consistent manner on the accrual basis of accounting. Established accounting procedures are designed to provide accurate books, records and accounts which fairly reflect the transactions of the Company.

The training of qualified personnel and the assignment of duties are intended to provide internal controls at a cost appropriate to our evaluation of the risks involved. Such controls are monitored by an internal audit staff, providing reasonable assurances that transactions are executed in accordance with management's authorization and that adequate accountability for the Company's assets is maintained.

Deloitte Haskins & Sells, independent public accountants, with direct access to the Board of Directors through its Audit Committee, have examined the consolidated financial statements prepared by the Company, and their report follows.

Opinion of Independent Public Accountants

TO THE STOCKHOLDERS AND DIRECTORS OF
THE DOW CHEMICAL COMPANY

We have examined the consolidated balance sheets of The Dow Chemical Company and its subsidiary companies as of December 31, 1980 and 1979, and the related consolidated statements of income, additional paid-in capital, retained earnings, and changes in financial position for each of the three years in the period ended December 31, 1980. 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, such financial statements present fairly the financial position of The Dow Chemical Company and its subsidiary companies at December 31, 1980 and 1979, and the results of their operations and the changes in their financial position for each of the three years in the period ended December 31, 1980, in conformity with generally accepted accounting principles consistently applied during the period except for the change, with which we concur, in the accounting for interest cost as described in Note B to the financial statements.

Deloitte Haskins & Sells

Detroit, Michigan
February 13, 1981

Accounting Principles

CONSOLIDATION The accompanying consolidated financial statements include the assets, liabilities, revenues and expenses of all significant subsidiaries except for banks and insurance companies. Because of the nature of their operations, the accounts of these companies are not consolidated. However, their earnings are included in consolidated net income under the equity method of accounting.

NON-CONSOLIDATED EQUITY INVESTMENTS Investments in companies which are 20%-50% owned are carried on the equity basis. Marketable equity securities are carried at the lower of cost or market. Other investments are carried at cost less reserves.

TRANSLATION OF FOREIGN CURRENCIES Cash, marketable securities, receivables and liabilities are translated at current rates. Property, inventories and investments in capital stock are translated at rates prevailing when the transactions occurred. Deferred income taxes are translated in the same manner as the assets or liabilities to which they relate.

Revenues and expenses are translated at appropriate current rates for each month, except that depreciation is recorded at historical rates. Foreign currency gains and losses are reflected in income currently.

INVENTORIES Inventories are stated at cost, which is less than market value. Cost is determined on the last-in, first-out basis, except for operating supplies, which are carried on the first-in, first-out basis.

PLANT PROPERTIES AND DEPRECIATION Land, buildings and equipment, including property under capital lease agreements, are carried at cost less accumulated depreciation. Depreciation is based on the estimated service lives of depreciable assets and is provided using the declining balance method.

Fully depreciated assets are retained in the property and depreciation accounts until they are removed from service. In the case of disposals, the assets and related depreciation are removed from the accounts and the net amount, less proceeds from disposal, is charged or credited to income.

EXPLORATION AND DEVELOPMENT COSTS The successful efforts method is used in accounting for costs incurred in the acquisition, exploration, development and production of oil and gas reserves. Capitalized costs are amortized using the unit-of-production method on the basis of total estimated units of proved reserves and non-productive efforts are charged to expense.

GOODWILL The excess of the cost of investments in subsidiaries over carrying value of assets acquired is shown as goodwill. Goodwill arising since October 1970 is amortized over 40 years. In the opinion of management, goodwill prior to that date requires no amortization.

RETIREMENT PLANS The Company and certain subsidiaries have plans which provide retirement benefits for eligible employees. The major plan covers substantially all full-time United States employees. The policy is to accrue and fund pension cost as computed by an actuary.

TAXES ON INCOME AND INVESTMENT CREDITS The companies compute and record income taxes currently payable based upon their determination of taxable income which may be different from pretax accounting income. These differences may arise from recording in pretax accounting income transactions which enter into the determination of taxable income in another period. The tax effect of these timing differences is recognized by adjustment currently to the provision for taxes.

Provision is made for taxes on that income of subsidiaries which is taxable in the United States as earned, and on unremitted earnings of subsidiary and 50% owned companies to the extent that such earnings are deemed to be not permanently invested. Income taxes are provided on the undistributed income of 20%-49% owned companies at the time the Company records its equity in such earnings.

A portion of the taxes due on foreign operations conducted through a domestic international sales corporation (DISC) is deferrable under U.S. tax rules. However, it is the practice of the Company to fully accrue such taxes currently.

Laws governing the determination of United States and certain foreign income taxes provide for investment credits for acquisition of qualified facilities. Such credits are reflected as a reduction of income tax expense on the flow-through basis in the year in which they are earned.

In addition to tax credits, certain foreign countries provide incentives which are granted to encourage new investment. Generally, such grants are credited to income as earned.

EARNINGS PER COMMON SHARE The calculation of earnings per share is based on the weighted average number of shares of common stock outstanding during each year.

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Consolidated Statement of Income

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Net Sales	\$10,626	\$9,255	\$6,888
Operating Costs and Expenses			
Cost of sales	8,649	7,231	5,284
Selling and administrative	765	690	552
	<u>9,414</u>	<u>7,921</u>	<u>5,836</u>
Operating income	1,212	1,334	1,052
Other Income (Expense)			
Equity in earnings:			
Non-consolidated subsidiaries	10	20	37
20%-50% owned companies	127	103	76
Interest income	87	86	50
Interest and debt discount and expense	(385)	(358)	(287)
Sundry income — net	<u>187</u>	<u>128</u>	<u>40</u>
Income Before Provision for Taxes			
on Income	1,238	1,313	968
Provision for Taxes on Income	<u>424</u>	<u>515</u>	<u>384</u>
Income Before Minority Interest	814	798	584
Minority Interests' Share in Income	<u>9</u>	<u>14</u>	<u>9</u>
Net Income	<u>\$ 905</u>	<u>\$ 784</u>	<u>\$ 575</u>
Earnings per Common Share	\$ 4.42	\$ 4.33	\$ 3.16

See Accounting Principles and Notes to Financial Statements

Consolidated Balance Sheet

ASSETS

	December 31	
	1980	1979
	(In millions)	
Current Assets		
Cash	\$ 25	\$ 42
Marketable securities and interest-bearing deposits (at cost, approximately market)	143	210
Accounts and notes receivable:		
Trade, (less allowance for doubtful receivables — 1980, \$56; 1979, \$53)	1,660	1,573
Other	499	480
Deferred income tax benefits	129	135
Inventories:		
Finished and work in process	1,415	857
Materials and supplies	519	456
Total Current Assets	4,390	3,753
Investments		
Capital stock of related companies — at cost plus equity in accumulated earnings:		
Banking and insurance subsidiaries	166	186
Associated companies (50% owned)	690	599
20%-49% owned companies	110	72
Other investments — (at cost)	86	70
Noncurrent receivables	175	96
Total Investments	1,227	1,023
Plant Properties	9,873	8,909
Less — Accumulated depreciation	4,201	3,673
Net Plant Properties	5,672	5,236
Goodwill	109	107
Deferred Charges and Other Assets	140	133
TOTAL	<u>\$11,538</u>	<u>\$10,252</u>

See Accounting Principles and Notes to Financial Statements

LIABILITIES

	December 31	
	1980	1979
	(In millions)	
Current Liabilities		
Notes payable	\$ 617	\$ 528
Long-term debt due within one year	119	73
Accounts payable:		
Trade	974	1,011
Other	209	163
United States and foreign taxes on income	215	267
Accrued and other current liabilities	669	573
Total Current Liabilities	2,803	2,615
 Long-Term Debt	 3,438	 3,055
 Other Liabilities		
Minority interests in subsidiary companies	44	39
Deferred employee benefits	68	64
Deferred income taxes	745	582
Total Other Liabilities	857	685
 Stockholders' Equity		
Common stock (authorized 500,000,000 shares of \$2.50 par value each; issued 1980, 202,076,376; 1979, 200,554,994)	505	501
Additional paid-in capital	516	480
Retained earnings	3,868	3,365
Total	4,889	4,346
 Less — Treasury stock, at cost (1980, 19,374,411; 1979, 19,373,819 shares)	 449	 449
Net Stockholders' Equity	4,440	3,897
TOTAL	\$11,538	\$10,252

See Accounting Principles and Notes to Financial Statements

Consolidated Statement of Additional Paid-In Capital

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Balance at Beginning of the Year	\$480	\$447	\$436
Add:			
Excess of selling or market price over par value of common stock issued to employees	32	30	11
Income tax benefit realized from sale of common stock to employees	4	3	
Balance at End of the Year	<u>\$516</u>	<u>\$480</u>	<u>\$447</u>

Consolidated Statement of Retained Earnings

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Balance at Beginning of the Year	\$3,365	\$2,859	\$2,521
Add (Deduct):			
Net income	805	784	575
Adjustments related to subsidiary companies		(6)	
Cash dividends declared (per share — 1980, \$1.65; 1979, \$1.50; 1978, \$1.30)	(302)	(272)	(237)
Balance at End of the Year	<u>\$3,868</u>	<u>\$3,365</u>	<u>\$2,859</u>

See Accounting Principles and Notes to Financial Statements

Consolidated Statement of Changes in Financial Position

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Source of Working Capital			
Net income	\$ 805	\$ 784	\$ 575
Charges (credits) to income not involving working capital:			
Depreciation	728	634	562
Equity in net income of non-consolidated companies, less dividends received	(99)	(92)	(90)
Deferred income taxes	163	171	69
Provided from operations	1,597	1,497	1,116
New long-term debt	650	317	509
Disposition of property and noncurrent investments	103	166	96
Sale of common stock to employees	40	37	13
Total working capital provided	<u>2,390</u>	<u>2,017</u>	<u>1,734</u>
 Use of Working Capital			
New plant properties	1,184	1,268	1,075
Cash dividends declared	302	272	237
Purchase of treasury stock		40	54
Reduction of long-term debt	267	199	45
Increase in noncurrent receivables and sundry assets	127	58	9
Investment in related companies	61	207	23
Total working capital used	<u>1,941</u>	<u>2,044</u>	<u>1,443</u>
Increase (Decrease) in Working Capital	<u>\$ 449</u>	<u>\$ (27)</u>	<u>\$ 291</u>
 Increase (Decrease) in Working Capital by Element			
Cash and marketable securities	\$ (84)	\$ (147)	\$ 263
Receivables	106	405	291
Deferred taxes	(6)	65	(3)
Inventories	621	314	(68)
Notes payable and current portion of long-term debt	(135)	(141)	122
Accounts payable	(9)	(337)	(192)
Income taxes and accruals	(44)	(186)	(122)
Increase (Decrease) in Working Capital	<u>\$ 449</u>	<u>\$ (27)</u>	<u>\$ 291</u>

See Accounting Principles and Notes to Financial Statements

Notes to Financial Statements

A. SIGNIFICANT EVENT SUBSEQUENT TO DECEMBER 31, 1980 Under the terms of an Agreement and Plan of Reorganization dated November 1, 1980 with Richardson-Merrell Inc. (RMI), the Company will acquire the ethical pharmaceutical business of RMI for a price of \$260 million to be paid in Dow common stock. The number of shares to be issued will be based upon the average market price of Dow common stock for the twenty trading days immediately preceding the closing date. The determination of the closing date in 1981 is contingent upon the satisfactory performance of all requirements of the agreement by both parties. The ethical pharmaceutical sales and net income reported by RMI for the fiscal year ended June 30, 1980 were \$282 million and \$10 million, respectively.

B. INTEREST COST Effective January 1, 1980, the policy of capitalizing interest cost as a part of the cost of constructing capital assets was adopted in accordance with Statement of Financial Accounting Standards No. 34. Gross interest incurred in 1980 was \$456 million, of which \$71 million was capitalized. No interest cost was capitalized in 1979 or 1978. The effect of the change was to increase 1980 earnings per share by approximately \$.20.

C. SUNDRY INCOME — NET The components of sundry income — net include:

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Royalty income	\$ 24	\$ 21	\$21
Gain on sale of hydrocarbon properties	74	85	
Profit on securities	18	6	10
Profit on redemption of long-term debt	14	3	
Foreign exchange and translation gains (losses) — other than Dow Banking Corporation	31	(8)	(13)
Other — net	26	21	22
Total	\$187	\$128	\$40

Wanda Petroleum Company, a wholly-owned subsidiary, was sold to Enterprise Products Company in October 1980 for a pre-tax gain of \$74 million. After applicable income taxes, net income in 1980 benefited by \$52 million, or \$.28 per share.

In December 1979, sale of an interest in certain Canadian oil and gas properties resulted in a pre-tax gain of \$85 million and net income of \$50 million, or \$.28 per share.

D. SUPPLEMENTARY INCOME STATEMENT INFORMATION

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Maintenance and repairs	\$597	\$537	\$420
Depreciation and depletion of plant properties	728	634	562
Research and development	314	269	231
Taxes, other than United States and foreign taxes on income:			
Property, franchise and miscellaneous taxes	126	113	92
Payroll taxes	129	120	96
Provision for doubtful receivables	15	18	12
Foreign exchange and translation gains (losses):			
Other than Dow Banking Corporation	31	(8)	(13)
Dow Banking Corporation	(14)	2	23

E. TAXES ON INCOME Domestic and foreign components of pre-tax income, classified primarily by the domicile of the individual subsidiaries, were:

	Year Ended December 31		
	1980	1979	1978
	(In millions)		
Domestic	\$ 849	\$ 851	\$734
Foreign	389	462	234
Income before tax	\$1,238	\$1,313	\$968

This classification of profit before tax will differ from Note S, page 33 which presents revenue and profits allocated by geographic area in accordance with the area management organization.

The provision for taxes on income consisted of:

(In millions)	Federal	State and Local	Foreign	Total
1980				
Current	\$125	\$13	\$117	\$255
Deferred	153		16	169
Total	<u>\$278</u>	<u>\$13</u>	<u>\$133</u>	<u>\$424</u>
1979				
Current	\$250	\$15	\$144	\$409
Deferred	34		72	106
Total	<u>\$284</u>	<u>\$15</u>	<u>\$216</u>	<u>\$515</u>
1978				
Current	\$192	\$18	\$102	\$312
Deferred	55		17	72
Total	<u>\$247</u>	<u>\$18</u>	<u>\$119</u>	<u>\$384</u>

The current tax provision was reduced by investment tax credits of \$94 million in 1980, \$98 million in 1979 and \$79 million in 1978.

Deferred tax provisions related to the following:

	1980	1979	1978
	(In millions)		
Excess of depreciation and depletion claimed for tax purposes over book amounts	\$125	\$113	\$49
Doubtful accounts and other losses in excess of those deductible currently for tax purposes	(2)	(5)	(4)
Undistributed earnings of foreign subsidiaries deemed not to be permanently invested	13	11	7
Income of export and shipping companies operating outside the United States	29	2	11
Intercompany profit eliminated in consolidation	(5)	(7)	2
Use of LIFO method in countries where it is not allowed for tax purposes	(2)	(39)	3
Other — net	11	31	4
Total	<u>\$169</u>	<u>\$106</u>	<u>\$72</u>

Major differences between the effective rate and the United States statutory rate were:

	1980	Percent 1979	1978
Statutory rate	46.0	46.0	48.0
U.S. investment credits	(6.1)	(6.3)	(7.0)
Taxes on income of foreign operations at tax rates different from U.S. statutory rate	(2.4)	0.7	1.5
Untaxed equity in income of companies whose accounts are not consolidated	(2.9)	(3.5)	(4.6)
State and local income taxes (net of federal tax)	0.5	0.6	1.0
Other	(0.8)	1.7	0.8
Effective rate	<u>34.3</u>	<u>39.2</u>	<u>39.7</u>

Unremitted earnings of subsidiary and 50%-owned companies which are deemed to be permanently invested amounted to approximately \$1.3 billion, \$1.2 billion and \$1.0 billion at December 31, 1980, 1979 and 1978, respectively.

Income tax returns filed in the United States through 1975 have been settled.

F. INVENTORIES The amount of reserve required to reduce inventories from the first-in, first-out basis to the last-in, first-out basis at December 31, 1980 and 1979 was \$799 million and \$795 million, respectively.

G. RELATED COMPANY TRANSACTIONS Investments in nonconsolidated subsidiaries and companies which are 20%-50% owned at December 31, 1980 and 1979 were \$379 million and \$341 million, respectively. The Company's equity in the net assets of related companies accounted for by the equity method approximated the carrying amount of such investments. Investments in 1980 included \$27 mil-

lion for the purchase of 20 percent participation in the Total refinery at Flushing, The Netherlands, from La Compagnie Francaise de Petroles, plus additional capital contributions to D-H Titanium Company, Dow Industrija Nafta (DINA) and MT Partnership. Investments in 1979 included \$186 million arising from the contribution of oil and gas properties to MT Partnership, a joint venture with TCPL Resources, Ltd., to pursue acquisition, exploration and development programs for hydrocarbon reserves, plus a capital contribution to Dow Finance Company.

Noncurrent receivables at December 31, 1980 and 1979 included \$14 million and \$8 million, respectively, from 20%-50% owned companies.

Dividends received from related companies were \$38 million in 1980, \$31 million in 1979 and \$23 million in 1978.

All other transactions with, and balances due to or from, related companies were not material in amount.

H. OTHER INVESTMENTS Noncurrent marketable equity securities included in other investments at cost on December 31, 1980 and 1979 were \$21 million and \$9 million, respectively. The market value of these securities exceeded cost by \$23 million at December 31, 1980 and \$1 million at December 31, 1979, after deducting \$1 million of unrealized losses for both periods.

I. PLANT PROPERTIES Plant properties consisted of the following:

	December 31	
	1980	1979
	(In millions)	
Land	\$ 163	\$ 155
Land and waterway improvements	285	250
Buildings	751	681
Machinery and equipment	7,243	5,975
Wells and brine systems	269	214
Office furniture and equipment	153	132
Oil and gas land and leaseholds	132	112
Other	74	62
Construction in progress	803	1,328
Total	<u>\$9,873</u>	<u>\$5,909</u>

J. LEASED PROPERTIES Capital leases included with owned property in the balance sheet were:

	December 31	
	1980	1979
	(In millions)	
Land	\$ 1	\$ 1
Buildings	2	1
Machinery and equipment	155	165
Office furniture and equipment	7	8
Total	165	175
Less — Accumulated depreciation	104	103
Net	<u>\$ 61</u>	<u>\$ 72</u>

Notes to Financial Statements — Continued

Minimum lease commitments at December 31, 1980, were as follows:

	Capital Leases	Operating Leases
	(In millions)	
1981	\$ 20	\$ 57
1982	16	50
1983	13	55
1984	12	51
1985	11	39
1986 and thereafter	91	264
Total minimum lease payments	163	\$516
Less — Estimated executory costs	1	
Net minimum lease payments	162	
Less — Amounts estimated to represent interest	63	
Present value of net minimum lease obligations	99	
Less — Current accounts payable	14	
Long-term capital lease obligations	\$ 85	

Minimum operating lease commitments have not been reduced by minimum sublease rentals of \$3 million due in the future under noncancelable subleases.

Rental payments under operating leases charged to expense were (in millions):

	Year Ended December 31		
	1980	1979	1978
Minimum rentals	\$108	\$92	\$87
Contingent rentals	10	8	1
Less — Sublease rentals	(1)	(3)	(1)
Net	\$117	\$97	\$87

K. SUPPLEMENTARY STATISTICS FOR MINERAL RESERVES (Unaudited) The estimated quantities of proven and probable mineral reserves at December 31, 1980 were:

	(Thousands of tons)	
	Lignite	Dolomite
Reserves — December 31, 1979	1,079,000	158,446
Reserves purchased	71,000	
Reserves mined		446
Reserves — December 31, 1980	1,150,000	158,000
Average market price per ton	\$16.00	\$4.25

In several geographic areas throughout the world, the Company owns natural brine deposits which are rich in bromides, chlorides and in magnesium and calcium salts, rock salt deposits and limestone deposits. Approximately 28 million tons of salt and brine were produced in 1980, and the Company estimates these raw material deposits will last in excess of 100 years.

L. OIL AND GAS PRODUCING ACTIVITIES

The Company is engaged in limited oil and gas producing activities, primarily in the United States and Canada. A summary of information on oil and gas activities follows:

	Dow Share	
	100% Owned	50% Owned
	(In millions)	
Aggregate amount of capitalized costs at December 31:		
1980	\$258	\$346
1979	228	186
Accumulated depreciation and depletion at December 31:		
1980	108	6
1979	91	1
Expenditures for property acquisition and development during:		
1980	34	160
1979	102	1
Exploration and production (lifting) costs during:		
1980	71	10
1979	51	
1978	37	
Present value of estimated future net revenues (unaudited) at December 31:		
1980	385	150
1979	363	124
Estimated quantities of proved oil and gas reserves (unaudited) at December 31 were:		
Crude oil, condensate and natural gas liquids (millions of barrels):		
1980	7.1	25.3
1979	7.3	4.9
Natural gas (billions of cubic feet)		
1980	244.2	411.8
1979	277.2	216.2

M. RETIREMENT PLANS The Company and its subsidiaries have several pension plans covering substantially all of their employees, including certain employees in foreign countries. The cost of all retirement plans was \$127 million in 1980, \$115 million in 1979 and \$101 million in 1978. The Company makes annual contributions to the plans equal to the amounts accrued for pension expense. A comparison of accumulated plan benefits and plan assets for the Company's domestic defined benefit plan is presented below:

	January 1	
	1981	1980
	(In millions)	
Actuarial present value of accumulated plan benefits:		
Vested	\$ 894	\$789
Nonvested	184	161
	\$1,078	\$950
Net assets available for benefits	\$1,044	\$776

The weighted average rate of return used in determining the actuarial present value of accumulated plan benefits was 6.5 percent for both 1981 and 1980.

The Company's foreign pension plans are not required to report to certain governmental agencies pursuant to ERISA, and have not determined for 1981 the actuarial value of accumulated benefits or net assets available for benefits as calculated and disclosed above. However, as of the beginning of 1980, available assets in other plans exceeded vested benefits by approximately \$50 million.

N. INVESTMENT BENEFIT PLAN Under the Tax Reform Act of 1976, the Company is entitled to a further one percent investment tax credit if a like amount is used to acquire its stock for distribution to employees. In addition, the Company can increase the tax credit as much as one-half percent provided employees contribute an equal amount, all of which is to be used for the purchase of the Company's common stock for the benefit of the participating employees. To carry out these provisions, the Company established the Dow Investment Benefit Plan for all U.S. employees, excluding directors. Costs of \$14 million in 1980 and \$7 million in 1979 and 1978 were offset in income tax expense by an equivalent amount of investment tax credit.

O. LONG-TERM DEBT AND AVAILABLE CREDIT FACILITIES

Details of debt due after one year were as follows:

	December 31 1980	1979
	(In millions)	
Promissory notes:		
12.85%, final maturity 1985	\$ 150	
8.00%, final maturity 1986	120	\$ 120
4.50%, final maturity 1990	65	70
5.00%, final maturity 1991	56	60
Debentures:		
7.96%, final maturity 1987, Canadian dollar	212	214
4.35%, final maturity 1988	40	42
6.70%, final maturity 1998	60	69
7.75%, final maturity 1999	64	73
8.875%, final maturity 2000	104	108
8.90%, final maturity 2000	103	111
7.40%, final maturity 2002	74	86
7.625%, final maturity 2003	76	90
8.50%, final maturity 2005	225	225
8.50%, final maturity 2006	200	200
7.875%, final maturity 2007	300	300
8.625%, final maturity 2008	300	300
11.25%, final maturity 2010	400	
Bonds:		
5.50%, final maturity 1989, Swiss franc	34	38
9.625%, final maturity 1994	198	200
Other — Various rates and maturities:		
Foreign currency loans	93	106
Brazilian U.S. dollar loans	215	241
Other U.S. dollar loans	100	157
Pollution control bond obligations	175	157
Capital lease obligations	85	96
	3,449	3,063
Less — Unamortized debt discount	11	8
Total	\$3,438	\$3,055

The amounts shown are stated net of debentures purchased to satisfy future sinking fund requirements.

The average interest rate on long-term debt was 9.1% in 1980 compared to 8.4% in 1979.

Annual installments on long-term debt and capital lease obligations for the next five years are as follows (in millions): 1981, \$119; 1982, \$114; 1983, \$165; 1984, \$164; 1985, \$347.

Unused and available credit facilities from various United States banks totaling \$455 million at December 31, 1980 required the retention of average cash balances aggregating approximately \$35 million. These requirements were generally satisfied by balances maintained for normal business operations.

Additional unused and available credit facilities with various United States and foreign banks totaling \$596 million at December 31, 1980 required the payment of commitment fees.

Both of these groups of facilities, totaling \$1,051 million, are available in support of commercial paper borrowing or long-term financing arrangements.

Additional unused credit facilities totaling \$745 million at December 31, 1980 are available for use by foreign subsidiaries.

P. NOTES PAYABLE Notes payable at December 31, 1980 and 1979 included commercial paper in the amounts of \$320 million and \$296 million, respectively. Substantially all of the remainder were obligations due banks with a variety of interest rates and maturities.

Q. STOCKHOLDERS' EQUITY The authorized capital stock consists of 25 million preferred shares with a par value of \$1.00 per share, none of which has been issued, and 500 million shares of common stock with a par value of \$2.50 per share.

The changes in the number of issued shares (in thousands) in the last three years were:

	1980	1979	1978
Beginning of the year	200,555	199,082	198,551
Sold to employees	1,519	1,463	530
Conversion of debentures	2	10	1
End of the year	202,076	200,555	199,082

At December 31, 1980, 1979 and 1978, shares of common stock (in thousands) outstanding were 182,702, 181,181 and 181,174, after deducting 19,374; 19,374 and 17,908 shares of treasury stock, respectively.

Shares of common stock (in thousands) were reserved for the following purposes at December 31:

	Shares		
	1980	1979	1978
Stock option and award plans	9,354	9,969	6,139
Employees' stock purchase plan	1,135	1,194	1,272
Conversion of debentures	12	14	24
Total shares reserved	10,501	11,177	7,435

Notes to Financial Statements — Continued

Retained earnings of the Parent company were approximately \$1,749 million at December 31, 1980, and there were no significant restrictions limiting the availability for dividend purposes.

Retained earnings includes approximately \$1,684 million of undistributed earnings of consolidated subsidiaries, of which \$130 million are restricted from payment of dividends. Restrictions include legal reserve requirements, currency controls and other governmental restrictions.

Undistributed earnings of unconsolidated subsidiaries and 20%-50% owned companies included in the retained earnings were \$587 million and \$516 million at December 31, 1980 and 1979, respectively.

In computing earnings per share, no adjustment was made for common shares issuable under award, option and stock purchase plans because there would be no material dilutive effect.

R. STOCK OPTION AND AWARD PLANS The Dow Chemical Company 1979 Award and Option Plan provides a maximum of 6.1 million shares of its common stock to officers and other managerial, administrative or professional employees of the Company who may be granted awards of deferred stock or options pursuant to the Plan, in lieu of cash for services. During the five-year period from the date of adoption of the Plan, the Company may grant options, incentive rights or a combination thereof covering an aggregate of four million shares of common stock which may be purchased upon exercise of options or may be transferred in respect of incentive rights. The Company may also grant awards during the ten-year period ending May 1989 of 2.1 million shares of deferred stock plus dividend units not to exceed 1.5 million outstanding at any one time. Dividend units represent the right to receive for a specified period cash payments equivalent in value to cash dividends paid during such period on one share of common stock. The Plan provides that options are not exercisable more than ten years after the date of grant.

In 1972 and 1976, stockholders authorized option plans permitting the granting during the ensuing five years to officers and key employees of options to purchase shares of common stock at the stock's fair market value at the time of the grant. The plans provide that qualified options, as defined by the Internal Revenue Code, are not exercisable more than five years after the date of grant, and non-qualified options are not exercisable more than ten years after the date of grant. The Tax Reform Act of 1976 established that qualified options exercised after May 20, 1981 will be treated for tax purposes as non-qualified options. The number of shares authorized under the 1972 and 1976 option plans were three million shares each.

In addition, management incentive awards which are related to consolidated net income may be granted to key employees, including directors and

officers. Awards may be made in dividend units or deferred stock authorized by the Award Plan, or in cash, or a combination thereof.

Shares of deferred stock and dividend units under the various plans were:

	Deferred Stock	Dividend Units
	(In thousands)	
Deferred stock and dividend units granted during:		
1980	14	6
1979	328	8
1978	103	8
Deferred stock and dividend units outstanding at December 31:		
1980	475	369
1979	470	363
1978	147	355
Deferred stock and dividend units available for grant at December 31:		
1980	1,762	1,488
1979	1,774	1,494
1978	1,695	1,145

Shares of common stock under option under the various plans were:

	Number of Shares	Option Price Range
	(In thousands)	
Options outstanding at December 31:		
1980	3,990	\$22.14-\$53.09
1979	3,902	\$22.14-\$53.94
1978	3,973	\$22.14-\$53.94
Options granted during:		
1980	835	\$32.25
1979	607	\$26.00-\$28.75
1978	640	\$24.50
Options exercised during:		
1980	215	\$22.14-\$37.00
1979	118	\$22.14-\$28.66
1978	8	\$22.14-\$28.66
Options expired or terminated during:		
1980	532	
1979	560	
1978	662	
Options exercisable at December 31:		
1980	3,166	
1979	3,295	
1978	3,334	
Options available for grant at December 31:		
1980	3,075	
1979	3,823	
1978	324	

Aggregate amounts charged to expense for all plans were \$10 million in 1980, \$12 million in 1979 and \$5 million in 1978.

The Company made offerings of common stock to its employees, excluding directors, in 1980 at \$27.60 per share, in 1979 at \$22.60 per share, and in 1978 at \$22.75 per share, payable generally through payroll deductions. Unfilled subscriptions (in thousands), cancellable at the option of the employee, were 1,135 and 1,194, respectively, at December 31, 1980 and 1979. Partial payments on these subscriptions aggregating \$20 million and \$17 million at December

31, 1980 and 1979, respectively, are included in current liabilities.

No charge is made against income for the excess, if any, of quoted market value on date of delivery of stock sold over the selling price, nor for employees' gains upon disqualifying disposition of stock acquired under stock option plans. Such amounts constitute taxable income to the employee and are deductible in the computation of United States income taxes. It is the practice of the Company to credit the reduction in income taxes to additional paid-in capital.

S. GEOGRAPHIC AND INDUSTRY SEGMENTS The Company conducts its worldwide operations through separate geographic area organizations which represent major markets or combinations of related markets. The practice of allocating corporate expense related to the overall management of the Company was discontinued in 1980 to better present geographic operating income, profit before income taxes, and identifiable assets. Amounts for 1979 and 1978 were restated to provide consistency between periods. The results by geographic area for the three years were (in millions):

	United States	Europe	Canada	Pacific	Latin America	Brazil	Elim. and Corp. Items	Consolidated
Year ended December 31, 1980:								
Sales to unaffiliated customers	\$5,133	\$3,225	\$ 731	\$680	\$557	\$300		\$10,626
Transfers between areas	909	186	113	1	6	30	\$(1,245)	
Operating income	741	341	95	74	90		(129)	1,212
Profit (loss) before tax	809	312	59	75	93	(13)	(97)	1,238
Identifiable assets	6,088	2,393	1,392	636	394	543	92	11,538
Gross plant properties	6,057	1,855	1,158	273	97	433		9,873
Capital expenditures	754	235	113	33	15	34		1,184
Employees (thousands)	34.8	11.3	4.0	2.0	2.5	2.2		56.8
Year ended December 31, 1979:								
Sales to unaffiliated customers	\$4,583	\$2,663	\$ 630	\$627	\$476	\$276		\$ 9,255
Transfers between areas	816	188	44		4	18	\$(1,070)	
Operating income	725	382	78	118	108	23	(100)	1,334
Profit (loss) before tax	689	348	144	124	102	(3)	(91)	1,313
Identifiable assets	4,940	2,346	1,312	634	363	612	45	10,252
Gross plant properties	5,488	1,631	1,039	243	82	406		8,909
Capital expenditures	748	126	292	58	8	36		1,268
Employees (thousands)	34.1	11.4	3.9	1.9	2.5	2.2		55.9
Year ended December 31, 1978:								
Sales to unaffiliated customers	\$3,646	\$1,813	\$ 439	\$404	\$337	\$249		\$ 6,888
Transfers between areas	606	123	25	1	2	9	\$(766)	
Operating income	693	236	57	60	58	20	(72)	1,052
Profit (loss) before tax	651	222	40	68	52	(4)	(61)	968
Identifiable assets	4,422	1,974	919	535	260	623	56	8,789
Gross plant properties	4,951	1,522	927	184	79	375		8,038
Capital expenditures	616	106	250	62	4	37		1,075
Employees (thousands)	32.3	11.4	3.3	1.8	2.6	2.1		53.5

Transfers between areas are valued at cost plus a markup. There were no direct sales to foreign customers from domestic operations.

Notes to Financial Statements — Continued

Aggregation of products into industry segments is generally made on the basis of process technology and channels of distribution. The Chemicals/Metals segment embodies chemicals, hydrocarbon intermediates and the Company's magnesium business. The Plastics/Packaging segment includes large volume polyethylene and polystyrene products as well as a variety of plastic coatings, films and foams. The Bioproducts/Consumer Products segment encompasses human, animal and plant health care products, in addition to household films and cleaning chemicals.

Industry segment results for the three years were (in millions):

	Chemicals/ Metals	Plastics/ Packaging	Bioproducts/ Consumer Products	Elim. and Corp. Items	Consolidated
Year ended December 31, 1980:					
Sales to unaffiliated customers	\$5,771	\$3,726	\$1,129		\$10,626
Intersegment transfers	1,402	55	7	\$(1,464)	
Operating income	619	520	73		1,212
Identifiable assets	6,898	2,116	1,023	1,501	11,538
Depreciation	509	161	58		728
Additions to property	864	254	66		1,184
Year ended December 31, 1979:					
Sales to unaffiliated customers	\$4,786	\$3,458	\$1,011		\$ 9,255
Intersegment transfers	1,170	37	39	\$(1,246)	
Operating income	578	693	63		1,334
Identifiable assets	5,668	2,206	1,033	1,345	10,252
Depreciation	428	154	52		634
Additions to property	992	205	71		1,268
Year ended December 31, 1978:					
Sales to unaffiliated customers	\$3,535	\$2,479	\$ 874		\$ 6,888
Intersegment transfers	862	40	9	\$ (911)	
Operating income	544	414	94		1,052
Identifiable assets	4,868	1,911	874	1,136	8,789
Depreciation	376	137	49		562
Additions to property	841	180	54		1,075

Transfers between industry segments are generally valued at standard cost.

It is not practicable to estimate what the impact might be upon the revenue or profitability of geographic areas or industry segments if transfers/purchases had been made at the prevailing prices.

T. CONTINGENT LIABILITIES The Company and its subsidiaries are parties to a number of claims and lawsuits arising out of the normal course of business with respect to commercial matters including product liabilities, governmental regulation including environmental matters, and other actions. Certain of these actions purport to be class actions and seek damages in very large amounts. All such claims are being contested. The amounts of ultimate

liability thereunder are not determinable at December 31, 1980, but in the opinion of management, resolution of these matters will not materially affect the consolidated financial position or results of operations of the Company and its subsidiaries.

The Company has contracted to purchase electricity and process steam from a nuclear power plant being constructed by Consumers Power Company at Mid-

land, Michigan. If due to regulatory problems, (1) Consumers is unable to complete this plant prior to December 31, 1984, or (2) the Company terminates its purchase contract, the Company would be obligated to pay a termination fee, which as of December 31, 1980 is estimated at \$218 million and \$435 million, respectively.

A Canadian subsidiary has entered into an agreement to purchase substantially all of the output of an ethylene plant in the Province of Alberta. The owner of the plant, The Alberta Gas Ethylene Company, Ltd., has borrowed \$257 million which has been guaranteed as to principal and interest by the Company.

In addition, the Company has guaranteed loans of related companies in the amount of \$111 million.

U. CONDENSED CONSOLIDATED FINANCIAL STATEMENTS OF DOW BANKING CORPORATION During 1980, the Company reduced its holding in this Swiss subsidiary from 100 percent to 76 percent.

**Dow Banking Corporation
Consolidated Balance Sheet
December 31, 1980 and 1979
(In millions)**

	1980	1979
Cash and due from banks	\$ 442	\$ 469
Marketable securities	299	101
Bills discounted	57	84
Loans and overdrafts	424	432
Other assets	41	31
Total assets	\$1,253	\$1,117
Demand and time deposits	\$1,061	\$ 945
Other liabilities	37	33
Stockholders' equity	155	139
Total liabilities and stockholders' equity	\$1,253	\$1,117

**Dow Banking Corporation
Consolidated Statement of Income
Year Ended December 31
(In millions)**

	1980	1979	1978
Operating income	\$ 122	\$ 88	\$ 66
Operating expenses	112	76	53
Loss (gain) on translation	15	(2)	(24)
Profit (loss) before taxes on income	(5)	14	37
Taxes on income	2	2	4
Net income (loss)	\$ (7)	\$ 12	\$ 33

V. COMBINED FINANCIAL STATEMENTS OF 50% OWNED COMPANIES The summarized financial statements shown below represent the combined accounts of principal companies in which Dow owns a 50 percent interest.

**Combined Balance Sheet
December 31, 1980 and 1979
(In millions)**

	1980	1979
Current assets	\$1,079	\$ 864
Plant property — net	1,800	1,359
Other assets	56	48
Total assets	\$2,935	\$2,271
Current liabilities	\$ 781	\$ 584
Long-term debt	420	279
Other liabilities	84	60
Stockholders' equity	1,650	1,348
Total liabilities and stockholders' equity	\$2,935	\$2,271

**Statement of Combined Income
and Retained Earnings
Year Ended December 31
(In millions)**

	1980	1979	1978
Sales	\$2,447	\$1,800	\$1,433
Cost of sales	1,796	1,234	984
Other expenses — net	322	270	228
Income before provision for taxes on income	329	296	221
Taxes on income	128	109	97
Net income	201	187	124
Retained earnings at beginning of year	687	540	454
Dividends declared	(53)	(40)	(38)
Retained earnings at end of year	\$ 835	\$ 687	\$ 540

Product Group Sales Analysis

		Approximate Sales (In millions)		
Chemicals/Metals Group	Uses	1980	1979	1978
<i>Inorganic Chemicals</i>		\$1,247	\$1,121	\$ 916
<i>Major Products</i>				
Caustic soda	Production of paper, alumina, rayon, petroleum products and industrial chemicals			
Chlorinated solvents	Metal cleaning, dry cleaning, paint removers			
Chlorine	Chemical intermediate, water treatment, paper			
Ethylene dibromide	Leaded gasoline, soil and grain fumigant			
<i>Organic Chemicals</i>		1,739	1,584	1,189
<i>Major Products</i>				
Acetone	Solvent, production of methyl methacrylate			
Ethylene glycol	Antifreeze, polyester fiber production, polyester bottles			
Glycerine	Alkyd resins, tobacco products			
Isocyanates and VORANOL polyglycols	Rigid, elastomeric and flexible urethane products and foams			
Phenol	Plastic resins and adhesives			
Propylene glycols	Polyester resins, pet food humectant			
<i>Metals</i>		350	321	291
<i>Major Products</i>				
Magnesium sheet, plate and extrusions	Commercial and military products			
Magnesium ingot	Aluminum alloys, steel processing			
<i>Functional Chemicals and Services</i>		1,018	765	663
<i>Major Products & Services</i>				
Calcium chloride	Highway deicing and dust control			
Dowell Division	Petroleum production services, industrial equipment cleaning			
<i>Hydrocarbons</i>		1,417	995	476
<i>Major Products</i>				
Ethylene propylene	Chemical intermediate			
Naphtha	Petrochemical raw material			
Other petroleum products	Fuels, feedstocks			
Total sales		\$5,771	\$4,786	\$3,535
Plastics/Packaging Group				
<i>Molding Materials</i>		\$1,888	\$1,749	\$1,156
<i>Major Products</i>				
Acrylonitrile-butadiene- styrene (ABS)	Used in injection molding, blow molding and extrusion processes for fabrication of articles and in the automotive, appliance, packaging, wire and cable, housewares, toy and construction industries			
DOYLEX linear low density polyethylene				
High density polyethylene				
Low density polyethylene				
STYRON polystyrene				

Plastics/Packaging Group (Cont.)	Uses	Approximate Sales (In millions)		
		1980	1979	1978
Coatings and Monomers		1,410	1,301	970
<i>Major Products</i>				
Epoxy resins	Coatings, adhesives, laminates			
Styrene-butadiene latexes	Paper and carpeting			
Styrene monomer	Production of polystyrene plastic			
Vinyl chloride monomer	Production of polyvinylchloride plastic			
Plastic Products		428	408	353
<i>Major Products</i>				
Polyethylene film	Industrial packaging, agricultural use			
Polystyrene film	Functional and decorative packaging			
STYROFOAM polystyrene foam ..	Insulation, floral and craft uses			
SARAN film	Commercial packaging			
Total sales		\$3,726	\$3,458	\$2,479
Bioproducts/Consumer Product Group				
Health Care Products and Services		\$ 481	\$ 426	\$ 380
<i>Major Products & Services</i>				
Bio-Science Enterprises	Diagnostic services			
Diagnostic products and equipment	Medical laboratory tests			
NOVAHISTINE products	Cough and cold preparations			
RIFADIN and RIFOCIN antibiotics	Broad spectrum antibiotics used primarily for TB treatment			
LORELCO hypocholesterolemic	Cholesterol lowering drug			
Agricultural Chemicals		505	471	398
<i>Major Products</i>				
PLICTRAN miticide	Control of plant feeding mites			
DURSBAN insecticide	Broad range insecticide			
Phenoxy herbicides	Weed and brush control			
TORDON herbicide	Weed and brush control			
Consumer Products		143	114	96
<i>Major Products</i>				
DOW Bathroom Cleaner	Household use			
HANDI-WRAP plastic film	Household plastic film			
SARAN WRAP plastic film	Household plastic film			
ZIPLOC bags	Food storage			
Total sales		\$1,129	\$1,011	\$ 874

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Assistant Secretary

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Assistant Treasurer

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Clyde H. Boyd (Alternate)

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Herbert D. Doan
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Paul W. McCracken
Paul F. Oreffice

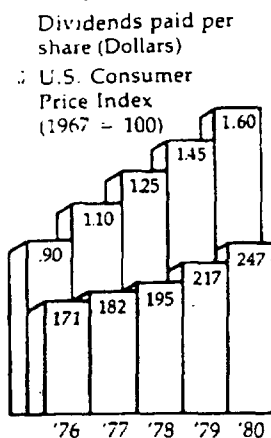
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Clyde H. Boyd
Hunter W. Henry
David L. Rooke
Joseph G. Temple, Jr.
L. C. Friedrich

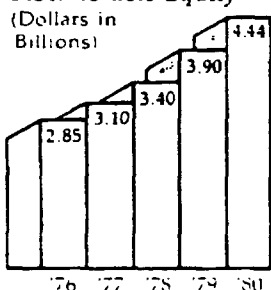
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Of Special Interest to Stockholders . . .

Dow Dividends vs. Inflation



Stockholders Equity

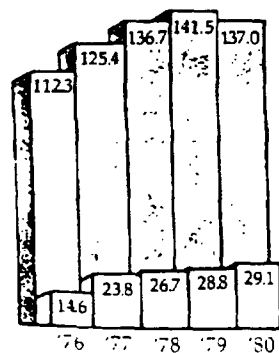


Number of Stockholders and Participants in the Dividend Reinvestment Plan

(Numbers in thousands)

■ Number of Stockholders

▨ Participants in Dividend Reinvestment Plan



Annual Meeting

The 1981 Annual Meeting of stockholders will be held at 2 p.m. (EDT) Friday, May 8 in the Midland Center for the Arts, Midland, Michigan. A formal notice of the meeting, with a proxy statement and proxy form, will be mailed to each stockholder separately from this report.

Form 10-K

A copy of the company's annual report to the Securities and Exchange Commission on Form 10-K will be provided without charge to any stockholder requesting it in writing. Please address: Corporate Secretary, The Dow Chemical Company, 2030 Dow Center, Midland, Michigan 48640.

Exchange Listings

NYSE Symbol: DOW
New York, Midwest, Pacific, Amsterdam, Antwerp, Basel, Brussels, Dusseldorf, Frankfurt, Geneva, Hamburg, Hanover, London, Paris, Tokyo, Toronto, Zurich.

Transfer Agents

The AmeriTrust Company
P.O. Box 6477
Cleveland, Ohio 44101
The Royal Trust Company
P.O. Box 7500, Station A
Toronto 116, Ontario, Canada

Registrars

The AmeriTrust Company
P.O. Box 6477
Cleveland, Ohio 44101
Montreal Trust Company
15 King Street West
Toronto, Ontario, Canada M5H 1B4

Dividend Reinvestment Plan

An automatic dividend reinvestment plan is available to all Dow stockholders. Information can be obtained by writing to: AmeriTrust Company, P.O. Box 6477, Cleveland, Ohio 44101.

Cassette Tapes Available

Cassette tapes for the blind of this report and quarterly reports can be obtained by writing: Financial Communications Manager, The Dow Chemical Company, 2030 Dow Center, Midland, Michigan 48640.

Corporate Headquarters

The Dow Chemical Company
2030 Dow Center, Midland, Michigan 48640
Tel: 517-636-1000

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