RECESSION TAKES BITE OUT OF EARNINGS

Good full-year data for shipments belie the messy picture of **FINANCES** at companies worldwide

FROM THE VANTAGE POINT of 2009, it's incredible that, in both the U.S. and Canada, chemical prices and shipments increased in 2008. Corporate data paint a more accurate picture of the year. High prices and healthy shipments were not strong enough to protect profits for most of the world's chemical firms. By the fourth quarter, massive inventory destocking pummeled demand, and it was not clear when—or whether—it would return to prior levels.

In the first half of 2008, the global chemical industry battled high energy and feedstock prices and flat or shrinking demand in the U.S. and Europe. Industry leaders looked to the buying power of emerging markets in Asia and South America to supply revenues.

As the year wore on, the economic slow-down hit the chemical industry in waves.

The market for construction materials was the first to fail, because of the bursting of the real estate bubble. Then demand for products aimed at the automotive and electronics markets declined toward the end of the year as consumer spending eroded. Even high-growth economies such as China cut back on industrial production.

Companies supplying the agriculture sector bucked the trend of falling demand. High prices for food commodities drove farmers to invest in their land to increase output. Strong demand for fertilizers and agricultural chemicals boosted profits for firms such as Terra Industries, whose 2008 earnings tripled compared with 2007.

Although conditions worsened as 2008 went on, broad economic data suggest that the business of chemistry was reasonably strong for the year as a whole. In the U.S., overall chemical shipments jumped by

9.6%, compared with 9.0% in 2007. Agricultural chemicals led the pack with a 29.8% increase. On the other hand, shipments of coatings and adhesives, which were hurt by the construction slowdown, declined by 8.8% compared with an increase of 8.2% in 2007. Prices rose for all chemicals, especially agricultural products, whose prices soared by 54.0%.

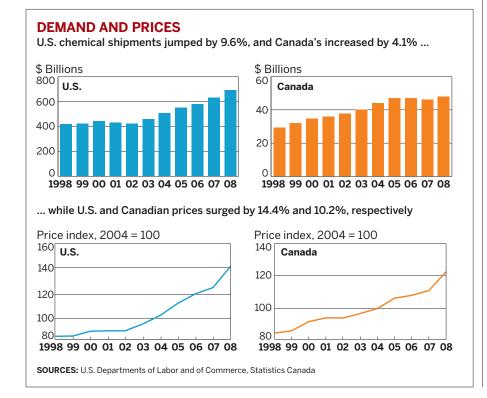
In Canada, chemical shipments rose 4.1% compared with 2007. Again, the strongest gain was in agriculture, with shipments up 31.7%. Canadian chemical prices jumped by 10.2%. In Europe, growth of chemical shipments slowed but stayed positive in Belgium, Germany, the Netherlands, and Spain.

Still, the earnings picture was a mess. The sharp drop in demand resulted in lousy third- and fourth-quarter earnings that wiped out previous gains for a large portion of the chemical enterprise. In the U.S., 16 of 29 companies surveyed by C&EN saw full-year earnings decline from 2007. Similarly, two of the four Canadian companies surveyed had worse results than in the previous year. Not surprisingly, Canadian fertilizer companies Agrium and PotashCorp saw huge earnings increases.

THE PICTURE WAS WORSE in Europe, with 2008 profits shrinking at 11 of 19 firms that C&EN surveyed. Fiscal-year reports from Japan showed a total wipeout, with all 12 firms tracked by C&EN suffering significant earnings declines and with half of the group reporting losses. Companies with large exposure to the petrochemical business, such as Mitsubishi Chemical, Mitsui Chemicals, and Sumitomo Chemical, fared exceptionally poorly.

Even the pharmaceutical industry's financial results were weak. The drug business is generally well insulated from economic cycles, because its products are a necessity for many consumers. But other factors contributed to lower 2008 earnings at three of eight firms in the U.S. and four of five in Europe. The industry continued to struggle as blockbuster drugs came off patent and generics ate into market share. Manufacturing problems and safety concerns for other drugs added to the headaches. Meanwhile, three of four U.S. biopharmaceutical firms booked solid earnings results for the year, powered by drugs like Amgen's cancer treatment Avastin and Biogen Idec's two multiple sclerosis drugs Avonex and Tysabri.

Most chemical firms felt confident that



U.S. SHIPMENTS

Drop in spending on durable goods slowed shipments of coatings and adhesives

												ANNUAL	CHANGE
\$ BILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2007-08	1998-08
All chemicals	\$416.6	\$419.5	\$442.2	\$427.4	\$420.5	\$459.1	\$506.1	\$549.1	\$577.0	\$629.3	\$689.9	9.6%	5.2%
Chemicals, excluding	313.2	311.7	320.4	307.7	315.1	341.4	389.2	411.2	423.0	464.2	515.6	11.1	5.1
pharmaceuticals													
Agricultural chemicals	24.2	21.6	20.3	20.7	19.7	18.7	20.7	24.8	27.0	32.4	42.1	29.8	5.7
Coatings & adhesives	26.8	27.5	29.7	30.0	28.4	28.5	30.5	30.4	32.9	35.6	32.5	-8.8	1.9
All other chemicals	262.1	262.5	270.3	256.9	267.0	294.2	338.0	356.0	363.1	396.2	441.1	11.3	5.3
Pharmaceuticals	103.4	107.8	121.8	119.7	105.4	114.3	116.9	137.9	154.0	165.1	174.3	5.6	5.4

SOURCE: C&EN calculations using Department of Commerce data

CANADA SHIPMENTS

Pharmaceutical and agricultural chemical shipments were strong in 2008; other categories slipped

												ANNUAL	CHANGE
\$ BILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2007-08	1998-08
All manufacturing	\$413.9	\$478.9	\$526.5	\$509.7	\$525.2	\$528.7	\$547.0	\$563.1	\$569.8	\$569.7	\$567.3	-0.4%	3.2%
Chemical manufacturing	29.5	32.1	34.9	36.0	38.0	40.4	44.2	46.5	47.0	46.1	47.9	4.1	5.0
Basic chemicals	8.0	8.6	10.3	10.8	11.0	11.8	12.5	13.5	14.5	13.6	13.6	0.0	5.5
Petrochemicals	2.3	2.8	4.2	4.1	3.8	4.5	5.6	6.8	7.5	6.8	6.8	0.0	11.2
Resins & synthetic rubber	5.3	5.7	6.6	6.1	6.7	7.0	9.3	9.8	8.8	8.4	7.9	-6.7	4.1
Pesticide, fertilizer & other	2.5	2.3	2.3	2.3	2.4	3.1	3.5	3.8	3.5	3.8	5.1	31.7	7.2
agricultural chemicals													
Pharmaceuticals & medicine	4.5	4.8	5.2	6.4	7.1	7.4	8.3	8.7	9.6	9.5	11.1	16.8	9.4
Paints, coatings & adhesives	2.3	2.4	2.3	2.4	2.4	2.6	2.6	2.7	2.8	2.8	2.8	0.0	2.3
Soaps, cleaners & toilet	2.8	3.6	3.2	2.9	2.9	3.3	2.9	2.8	3.2	3.2	2.9	-8.8	0.3
_preparations													

NOTE: Monetary statistics for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = \$1.066 Canadian. SOURCE: Statistics Canada

EUROPE SHIPMENTS

Growth slowed but remained positive in 2008

												ANNUAL	CHANGE
\$ BILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2007-08	1998-08
Belgium	\$42.7	\$43.4	\$52.0	\$62.4	\$63.0	\$65.1	\$69.7	\$70.7	\$75.4	\$79.5	\$80.4	1.1%	6.5%
Germany	172.0	178.8	198.9	197.2	195.1	200.9	209.3	223.9	237.3	255.8	258.5	1.0	4.2
Netherlands	35.5	37.2	47.7	47.3	47.6	50.0	53.6	58.2	66.9	72.2	73.6	2.0	7.6
Spain	43.8	45.6	52.7	55.2	55.8	57.9	61.3	64.9	70.5	74.5	75.5	1.4	5.6

NOTE: Monetary statistics for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = 0.679 euros. SOURCES: European Chemical Industry Council, national agencies

their strong balance sheets, built up during the years since the 2000-01 recession, would help them weather the storm. But by the end of the year, falling earnings and higher costs for credit led to reorganizations and cost-cutting programs at many firms.

On a positive note, the cutbacks did not affect 2008 spending on long-term assets or R&D, likely because much of the money was earmarked in 2007, when the economic outlook was sunnier. In the U.S., capital spending at surveyed companies shot up 18.6%, and R&D spending continued to

grow, expanding by 6.0%. Pharmaceutical company spending on R&D was up, but at a slower rate, increasing only 3.4%.

In Canada, capital spending increased at all surveyed firms. The agriculture boom spurred investment by PotashCorp, which contributed greatly to the more than 60% increase in spending for the group.

Capital spending in Europe continued to rebound from its low point in 2004. Led by Air Liquide, Linde, and Solvay, European chemical companies tracked by C&EN hiked investments by 17.6%. Chemical

R&D spending in Europe rose by 5.4%.

ANNUAL CHANCE

Japanese chemical firms were ahead of their North American and European counterparts when it came to cutting back on capital spending. After four years of growth, the companies shrank outlays by 13.4%. Chemical companies outside of Japan have pledged to sharply curtail capital spending in 2009, although they say they will not cut spending on R&D, calling it the lifeblood of their businesses. Likewise, in Japan, spending on R&D increased by a healthy 8.7% for the year.

U.S. PRICE INDEX

Chemical prices were up sharply, especially for agricultural chemicals, which rose with higher commodity food prices

PRODUCER PRICE INDEX,												ANNUAL	CHANGE
2004 = 100	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2007-08	1998-08
All commodities	84.8	85.6	90.4	91.5	89.3	94.1	100.0	107.3	112.3	117.7	129.2	9.8%	4.3%
Industrial commodities	84.5	85.7	91.3	92.0	89.7	94.2	100.0	108.6	114.4	118.6	130.3	9.9	4.4
Finished goods	88.0	89.5	92.9	94.8	93.5	96.5	100.0	104.8	108.0	112.2	119.3	6.3	3.1
Chemicals & allied products	82.5	82.7	86.7	87.1	87.1	92.8	100.0	110.1	118.0	123.2	140.9	14.4	5.5
Industrial chemicals	74.5	73.1	79.3	78.9	78.2	87.0	100.0	115.8	130.4	139.1	168.6	21.2	8.5
Prepared paint	88.1	89.6	91.5	93.6	95.0	97.2	100.0	106.9	114.5	118.9	126.9	6.7	3.7
Paint materials	80.0	80.2	82.6	83.4	92.3	96.2	100.0	106.0	110.6	117.6	125.2	6.5	4.6
Drugs & pharmaceuticals	85.3	88.4	90.5	92.1	93.5	96.6	100.0	104.9	109.7	113.6	120.6	6.2	3.5
Fats & oils, inedible	76.0	57.5	45.7	50.6	58.8	80.4	100.0	95.6	96.3	123.3	187.7	52.2	9.5
Agricultural chemicals	89.3	85.9	86.5	91.0	86.1	94.0	100.0	106.4	110.1	126.0	194.0	54.0	8.1
Plastic resin & materials	76.9	77.1	86.8	82.2	80.1	89.6	100.0	118.4	121.6	120.1	131.8	9.7	5.5
Other chemicals & products	93.7	94.1	95.4	97.0	97.1	98.1	100.0	104.9	109.9	112.4	119.8	6.6	2.5

SOURCE: Department of Labor

CANADA PRICE INDEX

Prices for most major categories jumped in 2008

PRODUCER PRICE INDEX.												ANNUAL	CHANGE
2004 = 100	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2007-08	1998-08
All commodities	91.7	93.3	97.3	98.3	98.3	97.0	100.0	101.6	103.9	105.7	110.1	4.2%	1.9%
Chemicals & chemical products	85.1	86.6	92.1	94.4	94.3	97.0	100.0	106.3	108.0	110.9	122.2	10.2	3.7
Inorganic Industrial	91.4	89.6	90.4	95.7	96.2	97.8	100.0	108.3	116.6	142.1	148.6	4.6	5.0
chemicals	00.0	05.5	00.0	1001	100.0	00.0	100.0	100.0	111 4	11.0.0	1474	00.1	4.1
Sulfuric acid	99.0	95.5	92.9	103.1	102.8	98.9	100.0	103.2	111.4	116.9	147.4	26.1	4.1
Caustic soda	110.6	99.3	100.6	130.6	111.7	109.5	100.0	112.3	109.5	106.8	135.4	26.7	2.0
Ammonia	87.9	83.5	86.0	90.9	88.9	97.2	100.0	114.7	100.9	141.0	236.7	67.9	10.4
Organic industrial chemicals	63.6	68.3	82.7	89.0	85.9	92.6	100.0	113.6	115.1	116.0	134.1	15.7	7.8
Benzene-toluene-xylene	38.6	43.5	69.4	57.6	51.6	59.0	100.0	109.1	112.2	118.2	121.5	2.8	12.2
Olefins	52.2	62.9	77.6	86.3	79.1	92.6	100.0	123.8	124.4	125.0	152.7	22.2	11.3
Synthetic resins	87.1	89.2	99.2	96.8	95.2	97.4	100.0	106.7	105.4	97.3	105.3	8.2	1.9
Polyethylene (a)	91.4	95.0	101.4	98.6	94.8	100.2	100.0	106.9	112.1	109.4	119.7	9.4	2.7
Polystyrene	86.0	85.7	90.3	89.8	89.4	92.7	100.0	104.2	104.3	105.5	106.7	1.1	2.2
Thermosets	91.3	87.1	95.7	104.9	100.6	100.6	100.0	100.0	101.6	102.4	103.7	1.3	1.3
Agricultural chemicals	100.1	99.0	98.9	98.9	98.9	99.2	100.0	100.1	100.1	100.4	100.7	0.3	0.1
Pharmaceuticals	92.2	92.9	93.4	94.0	97.8	99.2	100.0	100.8	103.0	103.7	104.9	1.2	1.3
Paints & varnishes	86.7	87.9	90.6	93.8	95.6	97.3	100.0	104.9	110.2	111.5	115.4	3.4	2.9
Soaps & cleaners	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.2	100.1	99.9	-0.2	0.0
Toilet preparations	92.7	94.7	97.0	98.4	99.7	100.7	100.0	98.9	97.4	97.0	98.6	1.7	0.6
Pigments, lakes & toners	101.9	103.6	105.4	103.6	101.8	99.8	100.0	105.2	107.1	105.0	103.9	-1.0	0.2

a Includes high- and low-density polyethylene. **SOURCE:** Statistics Canada

EXPLANATION

Column Headings In Tables Of Company Results

Year. Data are for the calendar year unless otherwise indicated. Data for earlier years are not restated to reflect subsequent acquisitions or divestitures.

Net sales. Gross sales less discounts, allowances, and returns; generally excludes excise taxes and other operating income or revenue.

Earnings. Net sales and other income less operating costs, nonoperating charges, depreciation, depletion, interest expense, deferred charges, minority interest in income, and taxes. Nonrecurring or extraordinary credits and charges may be included.

Profit margin. Earnings divided by net sales, expressed as a percentage.

Total assets. Sum at year's end of current assets, investments, prepaid expenses, net plant and equipment, and other tangible assets. Excludes insofar as possible intangible assets, including goodwill, value of patents, and the like.

Stockholders' equity. Equity at year's end of preferred and common stockholders, including value of capital stock, capital and earned surplus, and surplus reserves, as well as contingency and miscellaneous reserves for which no definite purpose is stated. Intangible

assets are deducted insofar as possible.

Return on equity. The amount of net income returned as a percentage of shareholders' equity.

Capital spending, % of sales. The percentage of sales revenues spent on long-term assets such as property, plant, and equipment.

R&D spending, % of sales. The percentage of sales revenues spent on research.

Earnings per share. Earnings less preferred dividends, divided by the number of shares of common stock outstanding.

Dividend, \$ per share. Cash dividends paid (or declared) on each share of common stock; excludes the value of stock dividends and adjusted for stock splits.

Dividend yield, % of price.

Dividend per share divided by the average of the high and low prices of the common stock during the year.

Stock price range. High and low market prices of common stock during the year, adjusted for stock splits but not stock dividends.

Price/earnings ratio.

Average of the high and low prices of the common stock during the year divided by earnings per share.

U.S. COMPANY RESULTS

The economic downturn late in the year brought mixed earnings results for chemical and pharmaceutical firms

CAPITAL

STOCK-SPEND-R&D EARN- DIVIDEND, DIVIDEND RANGE, PER SHARE EARNINGS HOLD-RETURN ING. **PROFIT** TOTAL ERS' ING, % INGS PER \$ PER YEAR SALES EARNINGS MARGIN **ASSETS EQUITY EQUITY** SALES OF SALES SHARE SHARE OF PRICE RATIO

(Monetary figures, except per share amounts, are in millions of dollars)

CHEMICALS

CHEMICALS	•													
AIR PRODUCT	S & CHEMI	CALS (a)												
2008	\$10,415	\$1,091	10.5%	\$11,354	\$3,813	28.6%	10.4%	1.3%	\$4.97	\$1.70	2.0%	\$106.06	\$65.05	17.2
2007	10,038	1,043	10.4	11,154	3,990	26.1	10.5	1.4	4.67	1.48	1.8	98.51	66.19	17.6
2006	8,850	795	9.0	10,079	3,822	20.8	14.3	1.7	3.38	1.34	2.2	69.54	53.00	18.1
2005	8,144	712	8.7	9,390	3,557	20.0	11.4	1.6	3.15	1.25	2.1	65.81	51.85	18.7
ALBEMARLE														
2008	\$2,467	\$194	7.9%	\$2,427	\$620	31.3%	4.0%	2.7%	\$2.10	\$0.48	1.5%	\$45.90	\$16.16	14.8
2007	2,336	233	10.0	2,388	837	27.8	4.2	2.7	2.41	0.42	1.0	48.84	32.92	17.0
2006	2,369	201	8.5	2,127	625	32.2	4.2	2.0	1.51	0.35	1.2	37.35	19.29	18.8
2005	2,108	115	5.5	2,153	536	21.4	3.3	2.0	2.41	0.62	1.7	39.50	32.04	14.8
ARCH CHEMIC														
2008	\$1,492	\$37	2.5%	\$850	-\$21	def	3.6%	1.5%	\$1.49	\$0.80	2.6%	\$40.19	\$20.76	20.5
2007	1,488	49	3.3	838	118	41.8%	2.8	1.4	1.43	0.80	2.1	48.02	29.29	27.0
2006	1,435	14	1.0	793	10	146.4	1.9	1.3	0.61	0.80	2.3	31.00	37.21	55.9
2005	1,305	40	3.0	665	13	310.9	1.4	1.6	1.67	0.80	3.0	31.14	21.96	15.9
CABOT (a)														
2008	\$3,191	\$86	2.7%	\$2,821	\$1,212	7.1%	6.2%	2.3%	\$1.34	\$0.72	2.3%	\$40.49	\$21.98	23.3
2007	2,616	127	4.9	2,598	1,156	11.0	5.4	2.6	1.87	0.72	1.7	49.87	34.48	22.6
2006	2,543	90	3.5	2,498	1,160	7.8	7.4	2.3	1.32	0.64	1.8	39.50	30.42	26.5
2005	2,125	106	5.0	2,349	1,074	9.9	8.8	2.8	1.77	0.64	1.9	39.27	27.66	18.9
l														

FINANCES

CALGON CARBON 2008 \$400 2007 35 2006 31 2005 29 CELANESE 2008 \$6.82 2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3.54 2007 3,74 2006 3,72 2006 3,72 2006 3,72 2006 3,33 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3.64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57.51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 49,12 2007 53,51 2006 7,45 2007 7,05	23 444 46 46 47 70 23 337 20 40 40 40 40 40 41 41 44	\$36 15 -9 -8 \$372 336 319 305 -\$973 -27 -253 144 \$284 207 168 143	9.0% 4.3 def def 5.5% 5.2 4.8 5.0 def def 4.8% 7.8% 5.9 5.0 4.9	\$355 312 286 348 \$6,023 6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789 2,307	\$220 136 112 151 -\$961 -229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528 -266	16.4% 11.0 def def def def def def def 3.1.4% 81.1% 25.0 31.8 def	8.3% 3.4 4.1 5.5 4.0% 4.5 3.8 3.5 3.1 3.4 3.5 5.4% 3.3 3.3 3.1	1.0% 1.1 1.3 1.6 1.2% 1.1 1.1 1.5 1.4% 1.7 1.8 1.7 2.3% 2.2	\$0.67 0.31 def def \$2.44 2.11 1.95 1.67 def def def \$0.60	ne ne s0.90 \$0.16 0.16 ne ne \$0.20 0.20 \$0.50	ne ne ne 11.8% 0.6% 0.5 ne ne 12.1	\$23.03 16.96 8.69 10.25 \$50.99 44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	\$9.11 5.43 4.15 4.94 \$5.71 24.50 16.80 13.54 \$1.02 6.95 7.75 9.89	24.0 def def def 11.6 16.4 11.1 10.1 def def def 23.2
2008 \$40 2007 35 2006 31 2005 29 CELANESE 2008 \$6,82 2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3.54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2005 26,63	51 16 991 223 444 46 66 70 447 7223 337 40 04 80 926	\$372 336 319 305 -\$973 -27 -253 144 \$284 207 168 143	4.3 def def 5.5% 5.2 4.8 5.0 def def def 4.8%	\$6,023 6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-\$961 -\$961 -229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	11.0 def def def def def def 25.0 31.8	3.4 4.1 5.5 4.0% 4.5 3.8 3.5 3.4 3.1 3.4 3.5 5.4% 3.3 3.3	1.1 1.3 1.6 1.2% 1.1 1.1 1.5 1.4% 1.7 1.8 1.7	0.31 def def \$2.44 2.11 1.95 1.67 def def def \$0.60	ne ne \$0.90 \$0.16 0.16 ne ne \$0.15 0.20 0.20 0.20	ne ne 11.8% 0.6% 0.5 ne ne 2.1 1.9 1.4	\$50.99 44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	\$5.43 4.15 4.94 \$5.71 24.50 16.80 13.54 \$1.02 6.95 7.75	def def def 11.6 16.4 11.1 10.1 def def
2007 35 2006 31 2005 29 CELANESE 2008 \$6.82 2007 6.44 2006 6.65 2005 6.07 CHEMTURA (a) 2008 \$3.54 2007 3.74 2006 3.72 2006 3.72 2006 3.72 2006 3.72 2006 3.33 2005 2.98 CYTEC INDUSTRIES (b 2008 \$3.64 2007 3.50 2006 3.33 2005 2.92 DOW CHEMICAL 2008 \$57.51 2006 49.12 2005 46.30 DUPONT 2008 \$30.52 2007 29.37 2006 27.42 2007 29.37 2006 27.42 2005 26.63 EASTMAN CHEMICAL 2008 \$6.72 2007 6.83 2007 6.83 2007 6.83	51 16 991 223 444 46 66 70 447 7223 337 40 04 80 926	\$372 336 319 305 -\$973 -27 -253 144 \$284 207 168 143	4.3 def def 5.5% 5.2 4.8 5.0 def def def 4.8%	\$6,023 6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-\$961 -\$961 -229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	11.0 def def def def def def 25.0 31.8	3.4 4.1 5.5 4.0% 4.5 3.8 3.5 3.4 3.1 3.4 3.5 5.4% 3.3 3.3	1.1 1.3 1.6 1.2% 1.1 1.1 1.5 1.4% 1.7 1.8 1.7	0.31 def def \$2.44 2.11 1.95 1.67 def def def \$0.60	ne ne \$0.90 \$0.16 0.16 ne ne \$0.15 0.20 0.20 0.20	ne ne 11.8% 0.6% 0.5 ne ne 2.1 1.9 1.4	\$50.99 44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	\$5.43 4.15 4.94 \$5.71 24.50 16.80 13.54 \$1.02 6.95 7.75	def def def 11.6 16.4 11.1 10.1
2006 31 2005 29 CELANESE 2008 \$6,82 2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2007 53,51 2006 49,12 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 6,83 2007 6,83	223 444 666 770 446 447 223 337 40 0)4 80 026	-9 -8 336 319 305 -\$973 -27 -253 144 \$284 207 168 143	def def 5.5% 5.2 4.8 5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	\$6,023 6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-\$961 -229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def def def def def 25.0 31.8	4.1 5.5 4.0% 4.5 3.8 3.5 3.1 3.4 3.5 5.4% 3.3 3.3	1.3 1.6 1.2% 1.1 1.1 1.5 1.4% 1.7 2.3%	def def \$2.44 2.11 1.95 1.67 def def def \$0.60	\$0.90 \$0.16 0.16 ne ne \$0.15 0.20 0.20	ne 11.8% 0.6% 0.5 ne ne 3.1% 2.1 1.9	\$50.99 44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	\$5.71 24.50 16.80 13.54 \$1.02 6.95 7.75	11.6 16.4 11.1 10.1 def def def
2005 29 CELANESE 2008 \$6,82 2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2007 53,51 2006 49,12 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 6,83 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	223 444 566 770 446 447 7223 837 90 90 90 90 90 90 90 90 90 90 90 90 90	\$372 336 319 305 -\$973 -27 -253 144 \$284 207 168 143	def 5.5% 5.2 4.8 5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	\$6,023 6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-\$961 -229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def def def def def 3.1.1% 25.0 31.8	5.5 4.0% 4.5 3.8 3.5 3.1 3.4 3.5 5.4% 3.3 3.3	1.6 1.2% 1.1 1.1 1.5 1.4% 1.7 2.3%	\$2.44 2.11 1.95 1.67 def def def \$0.60	\$0.90 \$0.16 0.16 ne ne \$0.15 0.20 0.20	0.6% 0.5 ne ne 3.1% 2.1 1.9	\$50.99 44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	\$5.71 24.50 16.80 13.54 \$1.02 6.95 7.75	11.6 16.4 11.1 10.1 def def def
CELANESE 2008 \$6,82 2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2007 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	223 444 566 770 446 447 223 387 40 94 94 94 94 94 94 94 94 94 94 94 94 94	\$372 336 319 305 -\$973 -27 -253 144 \$284 207 168 143	5.5% 5.2 4.8 5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	\$6,023 6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-\$961 -229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def def def 25.0 31.8	4.0% 4.5 3.8 3.5 3.4% 3.1 3.4 3.5 5.4% 3.3 3.1	1.2% 1.1 1.1 1.5 1.4% 1.7 1.8 1.7	\$2.44 2.11 1.95 1.67 def def def \$0.60	\$0.16 0.16 ne ne \$0.15 0.20 0.20	0.6% 0.5 ne ne 3.1% 2.1 1.9	\$50.99 44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	\$5.71 24.50 16.80 13.54 \$1.02 6.95 7.75	11.6 16.4 11.1 10.1 def def
2008 \$6,82 2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	444 446 447 447 447 440 440 440 440 441 441 441 441 441 441	336 319 305 -\$973 -27 -253 144 \$284 207 168 143	5.2 4.8 5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def def def 12.4% 81.1% 25.0 31.8	3.4% 3.5 3.4% 3.1 3.4 3.5 5.4% 3.3 3.1	1.1 1.1 1.5 1.4% 1.7 1.8 1.7	2.11 1.95 1.67 def def def \$0.60	\$0.15 0.20 0.20	0.5 ne ne 3.1% 2.1 1.9 1.4	44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	24.50 16.80 13.54 \$1.02 6.95 7.75	16.4 11.1 10.1 def def def
2007 6,44 2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	444 446 447 447 447 440 440 440 440 441 441 441 441 441 441	336 319 305 -\$973 -27 -253 144 \$284 207 168 143	5.2 4.8 5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	6,767 6,557 6,015 \$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-229 -551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def def def 12.4% 81.1% 25.0 31.8	3.4% 3.5 3.4% 3.1 3.4 3.5 5.4% 3.3 3.1	1.1 1.1 1.5 1.4% 1.7 1.8 1.7	2.11 1.95 1.67 def def def \$0.60	\$0.15 0.20 0.20	0.5 ne ne 3.1% 2.1 1.9 1.4	44.77 26.33 20.06 \$8.81 12.33 13.53 17.95	24.50 16.80 13.54 \$1.02 6.95 7.75	16.4 11.1 10.1 def def def
2006 6,65 2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	666 670 446 447 223 387 40 04 880 04 14	319 305 -\$973 -27 -253 144 \$284 207 168 143	4.8 5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	\$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-551 -1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def def 12.4% 81.1% 25.0 31.8	3.8 3.5 3.4 3.1 3.4 3.5 5.4% 3.3 3.1	1.1 1.5 1.4% 1.7 1.8 1.7	1.95 1.67 def def def \$0.60	\$0.15 0.20 0.20 0.20	3.1% 2.1 1.9	\$8.81 12.33 13.53 17.95	\$1.02 6.95 7.75	11.1 10.1 def def def
2005 6,07 CHEMTURA (a) 2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83	70 446 447 223 337 20 40 004 004 004 004 104 104 104	\$284 207 168 143	5.0 def def def 4.8% 7.8% 5.9 5.0 4.9	\$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-1,195 -\$307 -41 1,128 1,154 \$350 825 528	def def def 12.4% 81.1% 25.0 31.8	3.5 3.4% 3.1 3.4 3.5 5.4% 3.3 3.1	1.5 1.4% 1.7 1.8 1.7	1.67 def def def \$0.60	\$0.15 0.20 0.20 0.20	3.1% 2.1 1.9 1.4	\$8.81 12.33 13.53 17.95	\$1.02 6.95 7.75	def def def
CHEMTURA (a) 2008 \$3.54 2007 3.74 2006 3.72 2005 2.98 CYTEC INDUSTRIES (b 2008 \$3.64 2007 3.50 2006 3.33 2005 2.92 DOW CHEMICAL 2008 \$57.51 2006 49.12 2005 46.30 DUPONT 2008 \$30.52 2007 29.37 2006 27.42 2005 26.63 EASTMAN CHEMICAL 2008 \$6.72 2007 6.83 2007 6.83 2007 6.83	23 337 20) 40 24 26	-\$973 -27 -253 144 \$284 207 168 143	def def def 4.8% 7.8% 5.9 5.0 4.9	\$2,282 3,831 3,849 4,365 \$2,501 2,957 2,789	-\$307 -41 1,128 1,154 \$350 825 528	def def def 12.4% 81.1% 25.0 31.8	3.4% 3.1 3.4 3.5 5.4% 3.3 3.1	1.4% 1.7 1.8 1.7	def def def \$0.60	\$0.15 0.20 0.20 0.20	3.1% 2.1 1.9 1.4	\$8.81 12.33 13.53 17.95	\$1.02 6.95 7.75	def def def
2008 \$3,54 2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	47 23 87 9) 40 94 80 26	-27 -253 144 \$284 207 168 143	def def 4.8% 7.8% 5.9 5.0 4.9	3,831 3,849 4,365 \$2,501 2,957 2,789	-41 1,128 1,154 \$350 825 528	def def 12.4% 81.1% 25.0 31.8	3.1 3.4 3.5 5.4% 3.3 3.1	1.7 1.8 1.7 2.3%	def def \$0.60	0.20 0.20 0.20	2.1 1.9 1.4	12.33 13.53 17.95	6.95 7.75	def def
2007 3,74 2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83	47 23 87 9) 40 94 80 26	-27 -253 144 \$284 207 168 143	def def 4.8% 7.8% 5.9 5.0 4.9	3,831 3,849 4,365 \$2,501 2,957 2,789	-41 1,128 1,154 \$350 825 528	def def 12.4% 81.1% 25.0 31.8	3.1 3.4 3.5 5.4% 3.3 3.1	1.7 1.8 1.7 2.3%	def def \$0.60	0.20 0.20 0.20	2.1 1.9 1.4	12.33 13.53 17.95	6.95 7.75	def def
2006 3,72 2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2007 6,83	23 37 40 04 30 26	-253 144 \$284 207 168 143	7.8% 5.9 5.0 4.9	\$2,501 2,957 2,789	1,128 1,154 \$350 825 528	def 12.4% 81.1% 25.0 31.8	3.4 3.5 5.4% 3.3 3.1	1.8 1.7 2.3%	def \$0.60	0.20	1.9 1.4	13.53 17.95	7.75	def
2005 2,98 CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2008 \$6,72 2006 7,45	37 30 40 04 30 26	\$284 207 168 143	7.8% 5.9 5.0 4.9	\$2,501 2,957 2,789	\$350 825 528	81.1% 25.0 31.8	5.4% 3.3 3.1	2.3%	\$0.60	0.20	1.4	17.95		
CYTEC INDUSTRIES (b 2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83) 40 04 80 26	\$284 207 168 143	7.8% 5.9 5.0 4.9	\$2,501 2,957 2,789	\$350 825 528	81.1% 25.0 31.8	5.4% 3.3 3.1	2.3%					9.89	23.2
2008 \$3,64 2007 3,50 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2006 7,45	40 04 80 26	207 168 143	5.9 5.0 4.9	2,957 2,789	825 528	25.0 31.8	3.3 3.1		\$3.46	\$0.50	1.00/			
2007 3,500 2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2006 7,45	04 30 26	207 168 143	5.9 5.0 4.9	2,957 2,789	825 528	25.0 31.8	3.3 3.1		\$3.46	\$0.50	1 00/			
2006 3,33 2005 2,92 DOW CHEMICAL 2008 \$57,51 2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83	30 26 14	168 143	5.0 4.9	2,789	528	31.8	3.1	22			1.2%	\$63.77	\$16.28	11.6
DOW CHEMICAL 2008 \$57.51 2007 53.51 2006 49.12 2005 46.30 DUPONT 2008 \$30.52 2007 29.37 2006 27.42 2005 26.63 EASTMAN CHEMICAL 2008 \$6.72 2007 6.83 2007 6.83 2006 7.45	26 14	143	4.9						4.20	0.40	0.6	71.78	53.83	15.0
DOW CHEMICAL 2008 \$57,51 2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2007 6,83 2006 7,45	14			2,307	-266	def		2.2	3.45	0.40	0.7	62.30	45.80	15.7
2008 \$57,51 2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2006 7,45		\$579					3.6	2.3	3.07	0.40	0.9	53.90	39.34	15.2
2007 53,51 2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2006 7,45		\$579												
2006 49,12 2005 46,30 DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2006 7,45	10		1.0%	\$41,255	\$9,292	6.2%	4.0%	2.3%	\$0.62	\$1.68	5.8%	\$43.43	\$14.93	47.1
DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 2007 6,83 2006 7,45	13	2,887	5.4	44,448	15,036	19.2	3.9	2.4	2.99	1.64	3.8	47.96	38.89	14.5
DUPONT 2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 2007 6,83 2006 7,45		4,141	8.4	41,882	13,366	31.0	3.6	2.4	4.30	1.46	3.7	45.15	33.00	9.1
2008 \$30,52 2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 2007 6,83 2006 7,45	<u> </u>	4,546	9.8	42,351	11,741	38.7	3.4	2.3	4.62	1.34	2.8	56.75	40.18	10.5
2007 29,37 2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 2007 6,83 2006 7,45														
2006 27,42 2005 26,63 EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2006 7,45	29 (\$2,007	6.6%	\$31,364	\$2,289	87.7%	6.5%	4.6%	\$2.20	\$1.64	4.4%	\$52.49	\$21.32	16.8
EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2006 7,45		2,988	10.2	29,201	6,206	48.1	5.4	4.6	3.25	1.52	3.2	53.90	42.25	14.8
EASTMAN CHEMICAL 2008 \$6,72 2007 6,83 2006 7,45		3,148	11.5	27,190	4,835	65.1	5.6	4.7	3.38	1.48	3.4	49.68	38.52	13.0
2008 \$6,72 2007 6,83 2006 7,45	39	2,053	7.7	28,479	4,136	49.6	5.0	5.0	2.08	1.46	3.2	54.90	37.60	22.2
2007 6,83 2006 7,45														
2006 7,45	26	\$328	4.9%	\$4,956	\$1,228	26.7%	9.4%	2.3%	\$4.31	\$1.76	3.4%	\$78.29	\$25.87	12.1
	30	321	4.7	5,693	1,766	18.2	7.6	2.3	3.84	1.76	2.7	72.44	57.54	16.9
2005 7,05		409	5.5	5,859	1,715	23.8	5.2	2.2	4.98	1.76	3.2	61.29	47.30	10.9
	59	557	7.9	5,461	1,300	42.8	4.9	2.3	6.81	1.76	3.3	61.80	44.10	7.8
FMC CORP.														
2008 \$3,11	15	\$330	10.6%	\$2,797	\$706	46.7%	5.6%	3.0%	\$4.35	\$0.50	0.9%	\$80.23	\$28.53	12.5
2007 2,63	33	157	6.0	2,553	884	17.8	4.4	3.6	2.08	0.41	0.9	59.00	35.63	22.7
2006 2,34	47	145	6.2	2,571	856	16.9	4.9	4.1	1.84	0.27	0.8	38.99	25.87	17.6
2005 2,15	50	111	5.2	2,591	811	13.7	4.3	4.4	1.42	ne	ne	31.94	21.63	18.9
H.B. FULLER (c)														
2008 \$39	92	\$19	4.8%	\$845	\$299	6.4%	5.1%	4.2%	\$0.37	\$0.26	1.3%	\$27.84	\$12.23	54.1
2007 1,40	00	101	7.2	1,021	455	22.2	1.5	1.2	1.68	0.26	1.0	31.53	20.66	15.5
2006 1,47		81	5.5	1,111	410	19.7	1.4	1.1	1.38	0.25	1.1	15.60	28.25	15.9
2005 1,51	12	57	3.8	1,010	486	11.7	1.6	1.1	0.99	0.48	3.1	18.06	12.63	15.5
GEORGIA GULF (d)											-			
2008 \$2,91	16	-\$258	def	\$1,405	-\$345	def	2.1%	ne	def	\$0.24	4.8%	\$9.00	\$1.01	def
2007 3,15		-255	def	1,844	-161	def	2.7	ne	def	0.32	2.3	21.54	6.36	def
2006 2,42	57	52	2.1%	1,993	-72	def	3.7	ne	\$1.51	0.32	1.2	34.65	18.36	17.6
2005 2,27	28	96	4.2	923	285	33.5%	1.4	ne	2.79	0.32	0.8	55.90	21.40	13.9

www.cen-online.org 34 July 6, 2009

YEAR	NET SALES	EARNINGS	PROFIT MARGIN	TOTAL ASSETS	STOCK- HOLD- ERS' EQUITY	RETURN ON EQUITY	CAPITAL SPEND- ING, % OF SALES	R&D SPEND- ING, % OF SALES		DIVIDEND, \$ PER SHARE	DIVIDEND YIELD, % OF PRICE	STOCK RANGE, PE HIGH	PRICE ER SHARE LOW	PRICE/ EARNINGS RATIO
(Monetary figures	s, except per	share amour	nts, are in mi	llions of dollar	rs)									
W.R. GRACE														
2008	\$3,317	\$122	3.7%	\$3,758	-\$544	def	4.0%	2.5%	\$1.68	ne	ne	\$27.79	\$3.01	9.2
2007	3,115	80	2.6	3,747	-472	def	4.4	2.6	1.12	ne	ne	30.65	18.86	22.1
2006	2,827	18	0.6	3,521	-666	def	4.2	2.3	0.27	ne	ne	20.35	8.12	52.7
2005	2,570	67	2.6	3,413	-699	def	3.1	2.3	1.00	ne	ne	13.79	6.75	10.3
INTERNATION	AL ELAVOI	DS & EDAG	DANCES											
2008	\$2,839	\$230	8.1%	\$2,023	-\$154	def	3.0%	7.5%	\$2.87	\$0.96	2.7%	\$47.20	\$24.90	12.6
2007	2,277	247	10.9	1,994	-116	def	2.9	8.7	2.82	0.88	1.8	54.20	46.00	17.8
2006	2,095	228	10.9	1,733	159	143.3%	2.8	8.9	2.50	0.77	1.9	49.88	32.53	16.5
2005	1,993	209	10.5	1,866	143	146.5	4.7	9.0	2.02	0.73	2.0	42.90	31.19	18.3
LUBRIZOL	ΦE 020	\$CC	def	¢2.007	¢201	el - £	4.00/	4.40/	ع ـ ا ـ	¢1.00	2.00/	¢61.20	¢26.72	2 - ل
2008 2007	\$5,028	-\$66	def	\$3,007	\$381	def	4.0%	4.4%	def	\$1.23	2.8%	\$61.38	\$26.72	def
2007	4,499 4,041	283 182	6.3% 4.5	3,092 2,987	399 309	71.0% 58.9	3.2	4.9 5.1	\$4.05 3.09	1.16	2.0	69.95 50.75	48.76 38.02	14.7
2005		204	5.0			855.0	3.4	5.1		1.04				
2003	4,043	204	5.0	2,823	24	033.0	3.4	5.1	2.89	1.04	2.6	44.51	35.25	13.8
MONSANTO (a	a)													
2008	\$11,365	\$2,007	17.7%	\$13,328	\$4,711	42.6%	8.1%	8.6%	\$3.59	\$0.83	0.8%	\$141.50	\$66.26	28.9
2007	8,563	922	10.8	8,943	3,463	26.6	5.9	9.1	1.66	0.55	1.0	70.88	42.75	34.2
2006	7,344	698	9.5	8,977	3,774	18.5	5.0	9.9	1.27	0.40	1.1	47.58	27.80	29.7
2005	6,924	157	2.3	7,990	3,212	4.9	3.0	8.5	0.29	0.34	1.3	34.62	17.08	89.1
NALCO HOLDI	NG													
2008	\$4,212	-\$343	def	\$2,266	-\$2,383	def	3.2%	1.8%	def	\$0.14	0.8%	\$26.28	\$7.80	def
2007	3,913	129	3.3%	2,398	-2,104	def	2.9	1.7	\$0.88	0.14	0.5	30.98	19.94	28.9
2006	3,603	99	2.7	2,187	-2,579	def	2.6	1.7	0.67	ne	ne	21.51	15.83	27.9
2005	3,312	48	1.4	2,128	-2,719	def	2.3	1.8	0.33	ne	ne	22.03	14.25	55.0
NEWMARKET	CORD (L)													
NEWMARKET 2008		\$73	4.5%	\$757	\$237	30.8%	2.0%	5.1%	\$4.75	\$0.80	1 /10/	¢02 E7	\$23.37	12.3
2008	\$1,617 1,375	\$/3 	5.7	725	\$237 271	29.0	2.0%	5.1%	4.63	0.58	1.4%	\$93.57 60.36	38.81	10.7
2007	1,263	54	4.3	693	250	21.5	2.3	5.6	3.08	0.50	1.1	70.00	23.55	15.2
2005	1,203	35	3.3	652	216	16.2	1.7	6.1	2.02	ne	ne	25.26	12.95	9.5
POLYONE (c)														
2008	\$2,739	-\$273	def	\$1,045	-\$57	def	1.6%	1.0%	def	ne	ne	\$6.39	\$2.33	def
2007	2,643	11	0.4%	1,288	354	3.2%	1.6	0.8	\$0.12	ne	ne	9.29	5.93	63.4
2006 2005	2,662 2,451	126 63	4.7 2.6	1,477 1,390	278 90	45.3 69.7	1.5	0.8	1.36 0.68	ne ne	ne ne	9.89	6.31 5.31	6.0
2000	2,101		2.0	1,000	30	03.7	1.0	0.7	0.00	110	110	10.20	0.01	11.1
PPG INDUSTR	IES (d)													
2008	\$15,849	\$538	3.4%	\$10,585	-\$780	def	2.4%	2.8%	\$3.25	\$2.09	3.9%	\$71.00	\$35.94	16.5
2007	11,206	815	7.3	10,541	2,063	39.5%	3.2	3.2	4.91	2.04	2.8	82.42	64.01	14.9
2006	11,037	711	6.4	8,039	1,252	56.8	3.4	2.9	4.27	1.91	3.0	69.80	56.53	14.8
	10,201	776	7.6	7,027	1,399	55.5	2.8	3.0	4.54	1.86	2.9	74.73	55.64	14.4
2005														
					\$1,979	61.2%	14.9%	0.9%	\$3.80	\$1.50	2.0%	\$99.73	\$47.40	19.4
2005 PRAXAIR 2008	\$10.796	\$1,211	11.2%	\$11.024	Φ1,5/5							,		
PRAXAIR 2008	\$10,796 9,402	\$1,211 1,177		\$11,024 11,281			14.6	1.0	3.62	1.20	1.6	91.99		20.8
PRAXAIR	\$10,796 9,402 8,324		11.2% 12.5 8.4	\$11,024 11,281 9,418	3,041	38.7 24.3	14.6 13.2	1.0	3.62	1.20	1.6 1.7	91.99 63.70	58.32 50.65	20.8 19.1
PRAXAIR 2008 2007	9,402	1,177	12.5	11,281	3,041	38.7							58.32	
PRAXAIR 2008 2007 2006 2005	9,402 8,324 7,656	1,177 696	12.5 8.4	11,281 9,418	3,041 2,870	38.7 24.3	13.2	1.0	3.00	1.00	1.7	63.70	58.32 50.65	19.1
PRAXAIR 2008 2007 2006 2005	9,402 8,324 7,656	1,177 696 824	12.5 8.4 10.8	11,281 9,418 8,865	3,041 2,870 2,276	38.7 24.3 36.2	13.2 11.5	1.0 1.0	3.00	1.00 0.72	1.7 1.5	63.70 54.31	58.32 50.65 41.06	19.1 21.5
PRAXAIR 2008 2007 2006 2005 QUAKER CHEN 2008	9,402 8,324 7,656 MICAL \$582	1,177 696 824 \$11	12.5 8.4 10.8	11,281 9,418 8,865 \$338	3,041 2,870 2,276 \$79	38.7 24.3 36.2	13.2 11.5	1.0 1.0	3.00 2.22 \$1.05	1.00 0.72 \$0.92	1.7 1.5 4.2%	63.70 54.31 \$33.82	58.32 50.65 41.06 \$10.19	19.1 21.5 21.0
PRAXAIR 2008 2007 2006 2005	9,402 8,324 7,656	1,177 696 824	12.5 8.4 10.8	11,281 9,418 8,865	3,041 2,870 2,276	38.7 24.3 36.2	13.2 11.5	1.0 1.0	3.00	1.00 0.72	1.7 1.5	63.70 54.31	58.32 50.65 41.06	19.1 21.5

a Fiscal year ends Dec. 2. b Formerly Ethyl Corp. c Acquired GLS, a provider of specialty thermoplastic polyester elastomers, in 2008 for \$148.9 million. d Acquired coatings firm SigmaKalon Group in 2008. def = deficit. ne = nonexistent.

FINANCES

YEAR	NET	EARNINGS	PROFIT	TOTAL	STOCK- HOLD- ERS'	RETURN ON	CAPITAL SPEND- ING, % OF SALES	R&D SPEND- ING, % OF SALES		DIVIDEND \$ PER SHARE	, DIVIDEND YIELD, % OF PRICE			PRICE/ EARNINGS RATIO
	ures, except per			ASSETS Ilions of dollar	rs)	EQUITY	SALES	UF SALES	SHAKE	SHAKE	OF PRICE	HIGH	LOW	RATIO
ROHM AND		<u> </u>	F 00/	<u></u>	¢100	-1-4	E 40/	2.40/	ΦΩ 4.4	¢1.00	2.70/	ф 7 Г.СО		247
2008 2007	\$9,575 8,897	\$480 660	5.0% 7.4	\$6,825 7,048	-\$108 0	def def	5.4% 4.7	3.4%	\$2.44 3.12	\$1.60 1.44	2.7%	\$75.68 62.68	\$44.83 47.05	24.7 17.6
2006	8,230	755	9.2	6,525	1,003	75.3%		3.5	3.41	1.28	2.6	53.86	42.77	14.2
2005	7,994	638	8.0	6,508	698	91.4	4.2	3.4	2.86	1.12	2.5	50.00	39.47	15.6
SIGMA-ALD	\$2,201	\$342	1E E0/	¢2 0 4 0	\$870	20.20/	4.10/	2.00/	\$2.65	¢0.E2	1 10/	¢62.04	\$34.33	10 /
2008 2007	2,039	311	15.5% 15.3	\$2,048 2,072	1,059	39.3% 29.4	4.1% 3.9	3.0% 2.9	2.34	\$0.52 0.46	1.1%	\$63.04 55.87	37.70	18.4 20.0
2006	1,798	277	15.4	1,847	924	30.0	4.1	2.9	2.05	0.42	1.2	39.68	31.27	17.3
2005	1,667	258	15.5	1,665	767	33.7	5.5	3.0	3.76	0.76	1.2	67.10	55.34	16.3
SOLUTIA 2008	\$2,110	\$786	37.3%	\$2,400	-\$823	def	4.0%	0.6%	\$4.97	no	no	\$17.29	\$3.64	2.1
2008	3,535	-203	37.3%_ def	2,433	-\$023 -1,801	def	4.0%	1.3	def	ne ne	ne ne	0.79	0.18	def
2007	2,905	- <u>-203</u> -47	def	1,935	-1,537	def	3.6	1.5	def	ne	ne	0.75	0.18	def
2005	2,825	11	0.4	1,873	-1,565	def	2.9	1.6	0.11	ne	ne	1.69	0.33	9.2
STEPAN	¢1.000	Ф 27	2 20/	ФCО1	¢107	10.00/	2 10/	2 10/	ቀ ጋ ፫ጋ	¢Λ 0Γ	1.00/	Φε Λ 00	ф <u>о</u> дуг	10.0
2008 2007	\$1,600 1,330	\$37 15	2.3%	\$601 562	\$197 185	18.8% 8.1	3.1%	2.1%	\$3.52 1.50	\$0.85 0.83	1.9% 2.8	\$60.82 34.90	\$27.75 25.40	12.6 20.1
2007	1,330		0.6	531	166	4.0	3.9	2.5	0.63	0.83	2.8	33.00	25.40	46.1
2005	1,173	14	1.3	500	151	9.0	3.8	2.7	1.39	0.79	3.3	27.48	20.80	17.4
TERRA IND														
2008	\$2,891	\$633	21.9%	\$2,113	\$1,059	59.8%	3.1%	ne	\$6.12	\$0.30	0.9%	\$57.64	\$11.21	5.6
2007 2006	2,348 1,837	202 -1	8.6 def	1,884 1,567	616 477	32.8 def	2.8	ne	1.90 def	ne	ne	51.15 12.40	11.08 5.45	16.4
2005	1,931	17	0.9	1,516	485	3.5	1.6	ne ne	0.18	ne ne	ne ne	9.27	4.87	def 39.3
PHARMAG	CEUTICALS	i												
	BORATORIES													
2008	\$29,528	\$4,734	16.0%	\$27,281	\$2,341	202.2%		9.1%	\$3.12	\$1.40	2.5%	\$60.50	\$49.45	17.6
2007 2006	25,914 22,476	3,606	13.9 7.6	23,864 26,217	17,779 14,054	20.3	6.4	9.7	2.34	1.30	2.4	59.50 49.87	48.75 39.18	23.1 39.8
2005	22,470	1,717 3,372	15.1	19,190	14,415	23.4	5.4	8.2	2.17	1.10	2.7	50.00	37.50	20.2
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-,	, -									
	YERS SQUIBE													
2008	\$20,597	\$3,155	15.3%	\$23,574	\$6,263	50.4%		17.4%	\$1.59	\$1.24	5.6%	\$27.08	\$17.54	14.0
2007	19,348		10.2	19,844		18.6	4.4	16.7	0.99	1.12	3.9		25.73	
2006 2005	17,914 19,207	1,585 2,992	8.8 15.6	18,898 21,394	9,991	15.9 26.7	3.8	16.5 14.3	0.81	1.12	4.8	26.32 26.48		28.7 15.6
	15,257				11,200		- 0.0	11.0	2.02			20.10		
ELI LILLY &		****		***	***			10					405.5	
2008	\$20,378		def	\$25,158	\$2,681	def	4.6%	18.8%	def	\$1.88	4.3%	\$57.18		def
2007	18,634	2,953	15.8%	24,333	13,664	21.6%		18.7	\$2.71	1.70	3.1	60.56	49.09	20.2
2006 2005	15,691 14,645	2,663 3,122	17.0 21.3	21,955 24,581	10,981 10,896	24.3	6.9 8.9	19.9 20.7	2.45	1.60 1.52	2.9	58.86 60.44	50.41 49.76	22.3 19.2
	11,070												.5., 5	
	& JOHNSON													
2008		\$12,949	20.3%	\$57,217	\$14,816	87.4%		11.9%	\$4.57	\$1.80	2.9%		\$52.06	13.7
2007	61,095	10,576	17.3	52,191	14,556	72.7	4.8	12.6	3.65	1.62	2.6	65.45	59.72	17.1
2006 2005	53,324 50,414	11,053 10,411	20.7	41,868 45,850	39,318 37,871	28.1 27.5	5.0 5.2	13.4 12.8	3.73	1.46 1.28	2.3	69.41 69.99		16.9 18.8
	ne = nonexisten	•			,,,,,,,				2.70				, , , , ,	

	NET		PROFIT	TOTAL	STOCK- HOLD- ERS'	RETURN ON	CAPITAL SPEND- ING, % OF	R&D SPEND- ING, %	EARN- INGS PER	DIVIDEND \$ PFR	, DIVIDEND YIELD, %	STOCK RANGE, PE	PRICE R SHARE	PRICE/
YEAR	SALES	EARNINGS	MARGIN	ASSETS	EQUITY	EQUITY	SALES	OF SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary figures	s, except per	share amour	nts, are in mil	lions of dolla	rs)									
MERCK & CO.														
2008	\$24,850	\$7,808	31.4%	\$45,232	\$16,794	46.5%	5.2%	19.3%	\$3.64	\$1.52	3.6%	\$61.18	\$22.82	11.5
2007	24,197	3,275	13.5	46,183	18,185	18.0	4.2	20.2	1.51	1.52	2.9	61.62	42.35	34.4
2006	22,636	4,334	19.1	42,194	17,560	24.7	4.3	21.1	1.03	1.52	3.9	46.37	31.81	38.0
2005	22,012	4,631	21.0	43,242	17,917	25.8	6.4	17.5	2.10	1.52	5.0	35.20	25.50	14.5
PFIZER														
2008	\$48,296	\$8,026	16.6%	\$71,963	\$18,371	43.7%	3.5%	16.5%	\$1.19	\$1.28	6.6%	\$24.08	\$14.45	16.2
2007	48,418	8,213	17.0	73,388	65,010	12.6	3.9	16.7	1.19	0.96	3.8	28.60	22.16	21.3
2006	48,371	11,024	22.8	69,611	71,358	15.4	4.2	15.7	1.52	0.96	3.8	28.60	22.16	16.7
2005	51,298	8,094	15.8	66,005	65,627	12.3	4.1	14.1	1.10	0.76	3.1	29.21	20.27	22.5
CHERING-PL	OLIGH													
2008	\$18,502	\$1,903	10.3%	\$19,185	\$1,597	119.2%	4.0%	19.1%	\$1.07	\$0.26	1.3%	\$27.73	\$12.76	18.9
2007	12,690	-1,473	def	19,215	10,385	def	4.9	23.1	def	0.25	0.9	33.34	22.75	def
2006	10,594	1,121	10.6	15,579	7,908	14.2	4.3	20.7	0.71	0.22	1.1	23.90	18.00	29.5
2005	9,508	269	2.8	14,900	7,387	3.6	5.0	19.6	0.12	0.22	1.1	22.45	17.68	167.2
WYETH														
2008	\$44,834	\$4,418	10.0%	\$49.725	\$14,490	30.5%	3.3%	7.5%	\$3.29	\$1.06	2.7%	\$49.50	\$28.06	11.8
2007	22,400	4,616	20.6	38,198	18,211	25.3	6.2	14.5	3.38	1.06	2.0	62.20	43.65	15.7
				30,130										
2006	20 351	4 197	20.6	32 197	14 653	28.6	63	15.3	3 02	1 ()1	21	54 13	41 91	
2006 2005 BIOPHARMA	20,351 18,756	4,197 3,656	20.6 19.5	32,197 31,725	14,653 11,994	28.6 30.5	6.3 5.8	15.3 14.7	3.08 2.70	1.01 0.94	2.1	54.13 47.88	41.91 38.48	15.6 16.0
2005 BIOPHARMA AMGEN	18,756	3,656	19.5	31,725	11,994	30.5	5.8	14.7	2.70	0.94	2.2	47.88	38.48	16.0
BIOPHARMA AMGEN 2008	18,756 ACEUTIC \$14,687	3,656 ALS \$4,196	19.5 28.6%	\$22,116	11,994 \$6,059	30.5 69.3%	4.6%	20.6%	\$2.82	0.94 ne	2.2	47.88 \$75.85	38.48	21.7
BIOPHARMA AMGEN 2008 2007	18,756 ACEUTIC \$14,687 15,858	3,656 ALS \$4,196 2,950	19.5 28.6% 18.6	\$22,116 3,366	\$6,059 5,921	30.5 69.3% 49.8	5.8 4.6% 8.0	20.6% 20.6	\$2.82 2.48	0.94 ne ne	ne ne	\$75.85 80.36	\$46.44 63.92	21.7 29.1
810PHARMA MGEN 2008 2007 2006	18,756 ACEUTIC \$14,687	3,656 ALS \$4,196	19.5 28.6%	\$22,116	11,994 \$6,059	30.5 69.3%	4.6%	20.6%	\$2.82	0.94 ne	2.2	47.88 \$75.85	38.48	21.7
2005 BIOPHARMA AMGEN 2008 2007 2006 2005	\$14,687 15,858 12,022	\$4,196 2,950 3,674	28.6% 18.6 30.6	\$22,116 3,366 2,314	\$6,059 5,921 5,038	69.3% 49.8 72.9	4.6% 8.0 10.1	20.6% 20.6 28.0	\$2.82 2.48 2.93	ne ne ne	ne ne ne	\$75.85 80.36 86.17	\$46.44 63.92 57.20	21.7 29.1 24.5
BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC	18,756 ACEUTIC \$14,687 15,858 12,022 9,977	\$4,196 2,950 3,674 2,363	28.6% 18.6 30.6 23.7	\$22,116 3,366 2,314 2,028	\$6,059 5,921 5,038 4,712	69.3% 49.8 72.9 50.1	4.6% 8.0 10.1 8.7	20.6% 20.6 28.0 23.2	\$2.82 2.48 2.93 1.10	ne ne ne ne	ne ne ne ne	\$75.85 80.36 86.17 64.76	\$46.44 63.92 57.20 52.70	21.7 29.1 24.5 53.4
2005 BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008	\$14,687 15,858 12,022 9,977 \$2,840	\$4,196 2,950 3,674 2,363 \$783	28.6% 18.6 30.6 23.7	\$22,116 3,366 2,314 2,028 \$5,180	\$6,059 5,921 5,038 4,712 \$2,506	69.3% 49.8 72.9 50.1	4.6% 8.0 10.1 8.7	20.6% 20.6 28.0 23.2 37.7%	\$2.82 2.48 2.93 1.10	ne ne ne	ne ne ne ne	\$75.85 80.36 86.17 64.76	\$46.44 63.92 57.20 52.70 \$55.68	21.7 29.1 24.5 53.4
2005 BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007	\$14,687 15,858 12,022 9,977 \$2,840 2,137	\$4,196 2,950 3,674 2,363 \$783 638	28.6% 18.6 30.6 23.7 27.6% 29.9	\$22,116 3,366 2,314 2,028 \$5,180 4,999	\$6,059 5,921 5,038 4,712 \$2,506 5,534	69.3% 49.8 72.9 50.1 31.2% 12.8	4.6% 8.0 10.1 8.7 9.7% 13.3	20.6% 20.6 28.0 23.2 37.7% 43.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82	ne ne ne ne ne	ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75	\$46.44 63.92 57.20 52.70 \$55.68 42.86	21.7 29.1 24.5 53.4 24.4 22.6
2005 BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781	\$4,196 2,950 3,674 2,363 \$783 638 214	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150	69.3% 49.8 72.9 50.1 31.2% 12.8 4.6	4.6% 8.0 10.1 8.7 9.7% 13.3 11.1	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63	ne ne ne ne ne ne ne	ne ne ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24	21.7 29.1 24.5 53.4 24.4 22.6 73.8
BIOPHARMA MGEN 1008 1007 1006 1005 BIOGEN IDEC 1008 1007 1006	\$14,687 15,858 12,022 9,977 \$2,840 2,137	\$4,196 2,950 3,674 2,363 \$783 638	28.6% 18.6 30.6 23.7 27.6% 29.9	\$22,116 3,366 2,314 2,028 \$5,180 4,999	\$6,059 5,921 5,038 4,712 \$2,506 5,534	69.3% 49.8 72.9 50.1 31.2% 12.8	4.6% 8.0 10.1 8.7 9.7% 13.3	20.6% 20.6 28.0 23.2 37.7% 43.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82	ne ne ne ne ne	ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75	\$46.44 63.92 57.20 52.70 \$55.68 42.86	21.7 29.1 24.5 53.4 24.4 22.6
BIOPHARMA AMGEN 2008 2006 2006 2005 BIOGEN IDEC 2008 2007 2006 2007 2006 2007 2006 2007 2006 2007 2006 2007 2006 2007 2006 2007	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617	\$4,196 2,950 3,674 2,363 \$783 638 214 161	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8	4.6% 8.0 10.1 8.7 9.7% 13.3 11.1 19.7	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47	ne ne ne ne ne ne ne	ne ne ne ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8
BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 GENENTECH	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617	\$4,196 2,950 3,674 2,363 \$783 638 214 161	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8	9.7% 13.3 11.1 19.7	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47	ne ne ne ne ne ne ne	ne ne ne ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8
2005 BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 GENENTECH 2008 2007	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1	9.7% 13.3 11.1 19.7 7.1% 10.3	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59	ne ne ne ne ne ne ne ne	ne ne ne ne ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8
8005 BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 BENENTECH 2008 2007 2008	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443 7,640	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769 2,113	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195 13,051	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905 14,842	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1 16.2	5.8 4.6% 8.0 10.1 8.7 9.7% 13.3 11.1 19.7 7.1% 10.3 15.9	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3 26.6% 25.9 23.2	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59 1.97	ne	ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73 95.16	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35 75.58	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8 25.7 29.9 43.3
8005 BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 BENENTECH 2008 2007 2008	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1	9.7% 13.3 11.1 19.7 7.1% 10.3	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59	ne ne ne ne ne ne ne ne	ne ne ne ne ne ne ne ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35 75.58	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8
BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 GENENTECH 2008 2007 2006 2007 2006 2007	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443 7,640	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769 2,113	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195 13,051	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905 14,842	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1 16.2	5.8 4.6% 8.0 10.1 8.7 9.7% 13.3 11.1 19.7 7.1% 10.3 15.9	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3 26.6% 25.9 23.2	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59 1.97	ne	ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73 95.16	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35 75.58	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8 25.7 29.9 43.3
BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 BENENTECH 2008 2007 2006 2007 2006 2007 2006 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2008	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443 7,640	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769 2,113	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195 13,051	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905 14,842	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1 16.2	9.7% 13.3 11.1 19.7 7.1% 10.3 15.9 25.5	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3 26.6% 25.9 23.2 23.0	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59 1.97	ne	ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73 95.16	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35 75.58 43.90	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8 25.7 29.9 43.3
BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 GENENTECH 2008 2007 2006 2005 GENENTECH 2008 2007 2006 2005	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443 7,640 5,488	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769 2,113 1,279	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195 13,051 10,258	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905 14,842 7,470	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1 16.2 12.5	9.7% 13.3 11.1 19.7 7.1% 10.3 15.9 25.5	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3 26.6% 25.9 23.2 23.0	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59 1.97 1.18	ne ne ne ne ne ne ne ne ne	ne	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73 95.16 100.20	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35 75.58 43.90 \$52.16 58.71	21.7 29.1 24.5 53.4 24.4 22.6 73.8 109.8 25.7 29.9 43.3 61.1
BIOPHARMA AMGEN 2008 2007 2006 2005 BIOGEN IDEC 2008 2007 2006 2005 GENENTECH 2008 2007 2006 2007 2006 2007 2008 2007 2008 2007 2008 2007 2008 2007 2008 2008	\$14,687 15,858 12,022 9,977 \$2,840 2,137 1,781 1,617 \$10,531 9,443 7,640 5,488	\$4,196 2,950 3,674 2,363 \$783 638 214 161 \$3,427 2,769 2,113 1,279	28.6% 18.6 30.6 23.7 27.6% 29.9 12.0 10.0 32.5% 29.3 27.7 23.3	\$22,116 3,366 2,314 2,028 \$5,180 4,999 4,652 4,261 \$19,189 16,195 13,051 10,258	\$6,059 5,921 5,038 4,712 \$2,506 5,534 7,150 6,906 \$13,073 11,905 14,842 7,470	30.5 69.3% 49.8 72.9 50.1 31.2% 12.8 4.6 3.8 17.9% 17.1 16.2 12.5	9.7% 13.3 11.1 19.7 7.1% 10.3 15.9 25.5	20.6% 20.6 28.0 23.2 37.7% 43.3 40.3 46.3 26.6% 25.9 23.2 23.0	\$2.82 2.48 2.93 1.10 \$2.65 2.82 0.63 0.47 \$3.21 2.59 1.97 1.18	ne n	ne n	\$75.85 80.36 86.17 64.76 \$73.59 84.75 52.72 70.00 \$99.14 89.73 95.16 100.20	\$46.44 63.92 57.20 52.70 \$55.68 42.86 40.24 33.18 \$65.60 65.35 75.58 43.90 \$52.16 58.71 54.64	21.7 29.1 24.5 53.4 24.6 73.8 109.8 25.7 29.9 43.3 61.1

CANADA COMPANY RESULTS

Earnings at the fertilizer firms skyrocketed in 2008

	NET		PROFIT	TOTAL	STOCK-	RETURN	CAPITAL SPEND-	R&D SPEND-	EARNINGS PER	DIVIDEND, \$ PER	DIVIDEND YIELD, %	STOCK PRI	CE RANGE, HARE	PRICE/ EARNINGS
YEAR	SALES	EARNINGS		ASSETS		ON EQUITY		SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary	y figures, exce	ept per share	amounts, are	in millions	of dollars)									
AGRIUM														
2008	\$10,268	\$1,322	12.9%	\$7,382	\$1,674	79.0%	4.9%	na	\$8.34	\$0.11	0.2%	C\$ 116.15	C\$ 28.70	8.1
2007	5,491	441	8.0	5,588	2,841	15.5	8.3	na	3.25	0.11	0.2	71.67	25.38	14.0
2006	4,373	33	0.8	3,016	984	3.4	4.8	na	0.25	0.11	0.4	36.88	22.32	111.1
2005	3,491	283	8.1	2,777	1,172	24.1	5.0	na	2.12	0.11	0.5	32.66	17.75	11.2
METHAN	NEX													
2008	\$2,314	\$172	7.4%	\$2,791	\$1,255	13.7%	22.8%	na	\$1.82	\$0.61	2.9%	C\$ 33.85	C\$ 10.78	11.5
2007	2,267	376	16.6	2,835	1,301	28.9	12.3	na	3.68	0.55	2.1	33.94	20.95	7.0
2006	2,108	457	21.7	2,401	1,167	39.2	3.0	na	4.18	0.49	2.0	32.79	20.37	6.0
2005	1,658	224	13.5	2,056	900	24.9	7.1	na	1.89	0.41	2.1	24.58	16.46	10.2
	HEMICALS													
2008	\$7,366	\$46	0.6%	1 1	\$914	5.0%	2.3%	0.7%	\$0.55	\$0.38	2.2%	C\$ 32.18	C\$ 5.05	31.7
2007	6,732	324	4.8	4,856	1,101	29.4	2.3	0.7	3.88	0.38	1.1	43.70	30.13	8.9
2006	6,519	125	1.9	4,077	546	22.9	3.0	0.8	1.52	0.38	1.1	41.25	29.50	21.8
2005	5,616	26	0.5	5,217	1,215	2.1	7.5	0.9	0.31	0.38	0.8	64.25	36.65	152.7
POTASH	ICORP (a)										_			
2008	\$9,447	\$3,495	37.0%	\$10,130	\$4,470	78.2%	12.7%	na	\$11.01	\$0.40	0.3%	C\$ 246.29	C\$ 61.81	13.1
2007	5,234	1,104	21.1	9,595	5,897	18.7	11.6	na	3.40	0.35	0.4	148.89	51.92	27.7
2006	3,767	632	16.8	6,091	2,654	23.8	13.5	na	1.98	0.20	0.5	56.96	28.93	20.3
2005	3,847	543	14.1	5,226	2,001	27.1	10.0	na	1.63	0.20	0.6	46.00	28.25	21.4
NOTE: Sto	ock price ratio	os were calcul	lated at the 2	2008 avera	ge exchange	rate of \$1.0	0 U.S. = \$1.	066 Canadi	an (C\$). a St	ock split th	ree-for-one i	n 2007. na =	not available	<u>)</u> .

Copyright Permission to Use C&EN in the Classroom

Educators are always encouraged to make C&EN a part of the curriculum. If you are interested in photocopying articles or linking to a specific page on www.cen-online.org, contact the ACS Copyright Office for permission.*



Please remember to include:

- Your complete contact information (institution name, phone number, e-mail address, and fax number in addition to your name)
- The exact citation (C&EN; month, day, and year of publication; volume and issue numbers; inclusive page numbers)
- How you plan on using the article
- Your specific deadline date

The Copyright Office will then contact you. *For educators, free use is granted in many cases.

By Email: Copyright@acs.org By fax: 202-776-8112

EUROPE COMPANY RESULTS

Earnings, for the most part, decreased, reflecting the poor economy

SPEND- EARNINGS DIVIDEND, DIVIDEND

PER

SHARE

\$ PER

SHARE

YIELD. %

OF PRICE

PRICE/

EARN-

INGS

RATIO

STOCK PRICE RANGE,

PER SHARE

LOW

HIGH

CAPITAL

SPEND-

SALES OF SALES

HOLDERS' RETURN ING, % OF ING, %

STOCK-

EQUITY ON EQUITY

NET

YEAR

Altana (d) 2008

2007

2006

2007

2006

2005

Bayer 2008

BASF (e) 2008

\$1,976

2,031

1,905

\$91,758

85,308

77,446

62,937

\$48,480

\$152

189

84

\$4,289

5,984

5.105

4,665

\$2,532

7.7%

9.3

4.4

4.7%

7.0

66

7.4

5.2%

\$2,577

2,536

9,333

\$74,904

68,895

66.671

52,508

\$77,336

\$1,735

1,674

8,474

\$27,573

29,585

27.348

25,795

\$24,065

8.7%

11.3

1.0

15.6%

20.2

18.7

18.1

10.5%

PROFIT

SALES EARNINGS MARGIN

TOTAL

ASSETS

Selicious Solvay 2008 \$13,976 \$596 4,3% \$18,062 \$6,988 8.5% 13.9% 5.9% \$13.84 \$3.24 2.9% €97.90 €51.45 2007 14.090 1.150 8.2 16.458 6,564 17.5 8.1 5.8 13.93 3.24 2.0 123.20 92.00 2006 13.836 1.165 8.4 16.342 6,562 17.8 6.2 6.0 14.02 4.12 2.8 116.20 83.10 2005 12.603 1.162 9.2 16.546 5.771 20.1 5.9 5.5 13.93 2.15 1.6 104.10 79.95 FINLAND Kemira 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2007 4.137 94 2.3% 4.310 1.601 5.9% 8.7 2.3 \$0.78 0.74 3.1 19.20 13.11 12.206 3.714 172 4.6 4.077 1.605 10.7 6.5 2.0 1.41 0.71 3.4 17.17 11.07 2005 2.935 13.0 4.4 3.431 1.500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2006 16.117 1.475 9.2 23.987 9.667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15.361 1.373 8.9 23.888 9.140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2006 8.36 6.53 67 0.8 6.684 2.83 3.1 def ne ne ne ne ne Rhodia (c) 2008 \$7,485 -905 def 8.311 -980 def 5.0 2.0 def ne ne 2.71 1.35 4.20 1.18 1.29 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3															
2007 14.090 1.150 8.2 16.458 6.564 17.5 8.1 5.8 13.93 3.24 2.0 123.20 92.00 2006 13.836 1.165 8.4 16.342 6.562 17.8 6.2 6.0 14.02 4.12 2.8 116.20 83.10 2005 12.603 1.162 9.2 16.546 5.771 20.1 5.9 5.5 13.93 2.15 1.6 10.410 79.95 FINLAND Kemira 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2007 4.137 94 2.3% 4.310 1.601 5.9% 8.7 2.3 \$0.78 0.74 3.1 19.20 13.11 2.006 3.714 172 4.6 4.077 1.605 10.7 6.5 2.0 1.41 0.71 3.4 17.17 11.07 2005 2.935 130 4.4 3.431 1.500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17.519 1.653 9.4 19.813 9.533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1.475 9.2 23,987 9.667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1.373 8.9 23.888 9.140 15.0 9.3 10 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8.354 179 2.1 6.530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8.635 67 0.8 6.684 2.853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.205 8.406 c.574 def 6.881 2.154 def 5.8 3.1 def ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$1.55 \$2.2% \$6.368 \$5.52 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7.041 190 2.7 6.592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne ne 2.71 1.35 6.2006 2006 7.132 91 1.3 7.161 961 9.5% 54 2.1 0	(Monet	ary figures, ex	cept per sha	re amounts,	, are in millior	s of dollars)									
Solvay 2008 \$13.976 \$596 4.3% \$18.062 \$6.988 8.5% 13.9% 5.9% \$13.84 \$3.24 2.9% €97.90 €51.45	CHEN	MICALS													
Solvay 2008 \$13.976 \$596 4.3% \$18.062 \$6.988 8.5% 13.9% 5.9% \$13.84 \$3.24 2.9% €97.90 €51.45	BEI GI	LIM													
2008 \$13.976 \$596 4.3% \$18.062 \$6.988 8.596 13.9% \$5.9% \$13.84 \$3.24 2.9% €.97.90 €.51.45 2007 14.090 1.150 8.2 16.458 6.564 17.5 8.1 5.8 13.93 3.24 2.0 123.20 92.00 2006 13.836 1.165 8.4 16.342 6.562 17.8 6.2 6.0 14.02 4.12 2.8 116.20 83.10 2005 12.603 1.162 9.2 16.546 5.771 20.1 5.9 5.5 13.93 2.15 1.6 104.10 79.95 2008 \$4.172 \$.83															
2007 14,090 1,150 8.2 16,458 6,564 17.5 8.1 5.8 13.93 3.24 2.0 123.20 92.00 2006 13.836 1,165 8.4 16,342 6,562 17.8 6.2 6.0 14.02 4.12 2.8 116.20 83.10 2005 12,603 1,162 9.2 16,546 5.771 20.1 5.9 5.5 13.93 2.15 1.6 104.10 79.95 FINLAND Kemira 2008 \$4,172 -\$3 def \$4,212 \$1.437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2007 4,137 94 2.3% 4,310 1,601 5.9% 8.7 2.3 \$0.78 0.74 3.1 19.20 13.11 2006 3,714 172 4.6 40.77 1,605 10.7 6.5 2.0 1.41 0.71 3.4 17.17 11.07 2005 2.935 130 4.4 3,431 1,500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$19,298 \$1.797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17.519 1,653 9.4 19.813 9.533 17.3 11.4 11 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9.667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15.361 1.373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8.296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2008 \$8.296 \$1.79 2.1 6,530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2.853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 2.2008 \$8.296 \$1.79 2.1 6,530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2.853 2.3 5.7 2.9 1.10 ne ne ne 41.48 24.94 2.2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.79 2.1 6,530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2008 \$8.296 \$1.79 2.1 6,530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 2008 \$8.296 \$1.70 1.7 50.88 36.35 20			\$596	4 3%	\$18,062	\$6,988	8.5%	13.9%	5.9%	\$13.84	\$3.24	2 9%	€.9790	€.51.45	7.9
2006 13.836 1,165 8.4 16,342 6,562 17.8 6.2 6.0 14.02 4.12 2.8 116.20 83.10 2005 12,603 1,162 9.2 16,546 5,771 20.1 5.9 5.5 13.93 2.15 1.6 104.10 79.95 FINLAND Kemira 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14,77 €5,42 2007 4,137 94 2.3% 4,310 1.601 5.9% 8.7 2.3 \$0.78 0.74 3.1 19.20 13.11 2006 3,714 172 4.6 4,077 1.605 10.7 6.5 2.0 1.41 0.71 3.4 17.17 11.07 2005 2,935 130 4.4 3,431 1,500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2006 16,117 1.475 9.2 23,987 9.667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15.361 1.373 8.9 23,888 9.140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8.354 179 2.1 6.530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2005 8.406 -574 def 6.881 2.154 def 5.8 3.1 def ne ne ne ne RRoddie (c) 2008 \$7,015 \$155 2.2% \$6.368 .552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7.041 190 2.7 6.592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7.132 91 1.3 7.161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 6200 7.485 -905 def 8.311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18															11.4
FINLAND Kemira 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2008 \$4,172 -\$3 def \$4,212 \$1,437 def 5.3% 2.5% def \$0.37 2.5% €14.77 €5.42 2008 \$1,137 94 2.3% 4.310 1,601 5.9% 8.7 2.3 \$0.78 0.74 3.1 19.20 13.11 : 2006 3.714 172 4.6 4.077 1,605 10.7 6.5 2.0 1.41 0.71 3.4 17.17 11.07 2005 2,935 130 4.4 3.431 1,500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$1,9298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17.519 1.653 9.4 19.813 9.533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9.667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23.888 9.140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8.296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8.354 179 2.1 6.530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2008 \$8.296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2008 \$8.296 \$1.47 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8.354 179 2.1 6.530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2008 \$8.296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2008 \$8.296 \$1.47 1.87 \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2008 \$8.296 \$1.47 1.87 \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2008 \$8.296 \$1.47 1.87 \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 \$2.1% €45.75 €10.93 2007 8.354 179 2.1 6.530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2008 \$8.296 \$1.47 1.87 \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8.354 179 2.1 6.530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2008 \$7.015 \$1.55 2.2% \$6.368 \$2.552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7.041 190 2.7 6.592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2008 7.132 91 1.3 7.161 961 9.5% 54 2.1 0.07 ne n		,	,		-,										10.
Semira		-,			- , -										9.
2008 \$4,172	FINLA	ND									-				
2007 4,137 94 2.3% 4,310 1,601 5.9% 8.7 2.3 \$0.78 0.74 3.1 19.20 13.11 2 2006 3,714 172 4.6 4,077 1,605 10.7 6.5 2.0 1.41 0.71 3.4 17.17 11.07 2005 2,935 130 4.4 3,431 1,500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$19,298 \$1.797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17.519 1,653 9.4 19.813 9.533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23.888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne R Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18	Kemira	a													
2006 3,714 172 4.6 4,077 1,605 10.7 6.5 2.0 1.41 0,71 3.4 17.17 11.07 2005 2,935 130 4.4 3,431 1,500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17,519 1,653 9.4 19,813 9.533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18	2008	\$4,172	-\$3	def	\$4,212	\$1,437	def	5.3%	2.5%	def	\$0.37	2.5%	€ 14.77	€ 5.42	de
2005 2,935 130 4.4 3,431 1,500 8.7 5.7 2.2 1.08 0.38 2.2 14.02 9.86 FRANCE Air Liquide (a) 2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17,519 1,653 9.4 19,813 9.533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 4.2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18	2007	4,137	94	2.3%	4,310	1,601	5.9%	8.7	2.3	\$0.78	0.74	3.1	19.20	13.11	30.
FRANCE Air Liquide (a) 2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17,519 1,653 9.4 19,813 9,533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2.853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 €2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 €2005 7,485 -905 def 8.311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18	2006	3,714	172	4.6	4,077	1,605	10.7	6.5	2.0	1.41	0.71	3.4	17.17	11.07	14.
Air Liquide (a) 2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17,519 1,653 9.4 19,813 9.533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2.848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2.853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 4.2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18	2005	2,935	130	4.4	3,431	1,500	8.7	5.7	2.2	1.08	0.38	2.2	14.02	9.86	16.
2008 \$19,298 \$1,797 9.3% \$21,951 \$10,318 17.4% 14.6% 1.2% \$6.88 \$3.31 3.0% €95.65 €55.78 2007 17,519 1,653 9.4 19,813 9,533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6.588 \$2.972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 4.2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	FRANC	CE													
2007 17,519 1,653 9.4 19,813 9,533 17.3 11.4 1.1 6.22 3.00 2.4 93.14 75.08 2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 42.005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 42.005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne ne ne 1.94 1.18	Air Liq	uide (a)													
2006 16,117 1,475 9.2 23,987 9,667 15.3 10.3 1.1 12.19 5.88 5.4 83.00 63.76 2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne ne Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 42005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne ne 1.94 1.18	2008	\$19,298	\$1,797	9.3%	\$21,951	\$10,318	17.4%	14.6%	1.2%	\$6.88	\$3.31	3.0%	€ 95.65	€ 55.78	16.2
2005 15,361 1,373 8.9 23,888 9,140 15.0 9.3 1.0 11.52 4.14 4.6 68.93 53.55 Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4.2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne	2007	17,519	1,653	9.4	19,813	9,533	17.3	11.4	1.1	6.22	3.00	2.4	93.14	75.08	19.
Arkema (b) 2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 € 2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne	2006	16,117	1,475	9.2	23,987	9,667	15.3	10.3	1.1	12.19	5.88	5.4	83.00	63.76	8.9
2008 \$8,296 \$147 1.8% \$6,588 \$2,972 5.0% 5.9% 2.7% \$2.43 \$0.88 2.1% €45.75 €10.93 2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 42005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne ne ne ne ne ne ne ne 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 42005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	2005	15,361	1,373	8.9	23,888	9,140	15.0	9.3	1.0	11.52	4.14	4.6	68.93	53.55	7.8
2007 8,354 179 2.1 6,530 2,848 6.3 5.7 2.8 2.96 1.10 1.7 50.88 36.35 2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4 2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne	Arkem	ıa (b)					-								
2006 8,635 67 0.8 6,684 2,853 2.3 5.7 2.9 1.10 ne ne 41.48 24.94 4 2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne	2008	\$8,296	\$147	1.8%	\$6,588	\$2,972	5.0%	5.9%	2.7%	\$2.43	\$0.88	2.1%	€ 45.75	€ 10.93	17.2
2005 8,406 -574 def 6,881 2,154 def 5.8 3.1 def ne	2007	8,354	179	2.1	6,530	2,848	6.3	5.7	2.8	2.96	1.10	1.7	50.88	36.35	21.
Rhodia (c) 2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% €27.35 €3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 4 2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	2006	8,635	67	0.8	6,684	2,853	2.3	5.7	2.9	1.10	ne	ne	41.48	24.94	44.
2008 \$7,015 \$155 2.2% \$6,368 -\$552 def 5.1% 1.5% \$1.53 \$0.37 1.6% € 27.35 € 3.93 2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 4 2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	2005	8,406	-574	def	6,881	2,154	def	5.8	3.1	def	ne	ne	ne	ne	n
2007 7,041 190 2.7 6,592 -572 def 5.3 1.9 1.87 0.37 10.1 2.99 1.96 2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne ne 2.71 1.35 4 2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	Rhodia	a (c)													
2006 7,132 91 1.3 7,161 961 9.5% 5.4 2.1 0.07 ne ne 2.71 1.35 4 2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	2008	\$7,015	\$155	2.2%	\$6,368	-\$552	def	5.1%	1.5%	\$1.53	\$0.37	1.6%	€ 27.35	€ 3.93	15.0
2005 7,485 -905 def 8,311 -980 def 5.0 2.0 def ne ne 1.94 1.18	2007	7,041	190	2.7	6,592	-572	def	5.3	1.9	1.87	0.37	10.1	2.99	1.96	1.9
		7,132	91	1.3	7,161	961	9.5%	5.4	2.1	0.07	ne	ne	2.71	1.35	40.
GERMANY	2005	7,485	-905	def	8,311	-980	def	5.0	2.0	def	ne	ne	1.94	1.18	de
	GERM	ANY													

2007 47,673 6,935 14.5 75,631 24,761 28.0 5.7 8.0 8.60 1.99 2.6 62.53 40.20 8.8 2006 42,626 2,478 5.8 82,275 18,917 13.1 6.0 7.9 3.27 1.47 2.8 40.92 30.56 16.1 2005 40,310 2,351 5.8 54,058 16,423 14.3 5.1 6.3 3.23 1.02 2.4 35.92 22.11 13.2

8.0%

6.6

5.8

4.0%

4.4

4.6

4.6

5.3%

5.4%

2.2%

2.4

2.4

2.5

8.1%

4.9

5.2

\$1.12

1.40

0.60

\$4.61

6.13

4.70

4.23

\$3.27

\$0.15

0.75

1.91

\$2.87

2.87

2.21

1.47

\$2.06

0.8%

1.4

2.8

5.4%

4.5

4.5

3.5

2.7%

€ 16.90

55.89

51.65

€ 52.41

50.81

37.12

32.67

€ 65.68

€ 7.53

14.57

42.46

€ 19.95

35.98

29.49

25.06

€ 36.83

16.1

37.1

11.6

10.4

10.4

10.1

23.1

114.8

NOTE: Monetary statistics, except stock prices, for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = 0.679 euros, 1.0816 Swiss francs, and 0.539 pounds sterling. **a** Stock split two-for-one in June 2007. **b** Spun off from Total in 2006; prior figures are pro forma. **c** One-for-12 reverse stock split in June 2007. **d** Divested pharmaceuticals in 2006. **e** Stock split two-for-one in 2008. **def** = deficit. **ne** = nonexistent.

FINANCES

	NET		DDOCET	TOTAL	STOCK-	DETURN	SPEND-		EARNINGS			STOCK PRIC		PRICE/
YEAR	NET SALES	EARNINGS	PROFIT MARGIN	TOTAL ASSETS		RETURN ON EQUITY		OF SALES	PER SHARE	\$ PER SHARE	YIELD, % OF PRICE	HIGH	LOW	INGS RATIO
Moneta	ry figures,	except per sh	are amounts,	are in millio	ns of dollars)									
anxes														
2008	\$9,685	\$252	2.6%	\$6,850	\$2,072	12.2%	5.4%	1.5%	\$3.02	\$0.74	2.2%	€ 34.37	€ 10.28	10.9
2007	9,727	165	1.7	5,961	2,245	7.4	4.3	1.3	1.94	1.47	2.8	43.75	26.72	26.7
2006	10,222	290	2.8	6,190	2,102	13.8	3.8	1.3	3.43	0.37	0.7	43.55	24.46	14.6
2005	10,525	-92	def	6,390	1,849	def	3.5	1.4	def	ne	ne	27.65	13.63	de ⁻
inde (a)													
2008	\$18,649	\$1,056	5.7%	\$35,087	\$12,149	8.7%	11.6%	0.8%	\$6.24	\$2.65	2.5%	€ 97.90	€ 46.51	17.0
2007	18,115	1,401	7.7	36,736	13,558	10.3	8.4	0.8	8.39	2.50	2.0	91.75	75.26	14.7
2006	18,311	2,706	14.8	41,212	12,107	22.3	7.8	1.6	18.39	2.21	2.2	79.56	56.32	5.4
2005	14,001	757	5.4	18,575	6,585	11.5	9.1	1.8	5.98	2.06	2.6	63.36	45.55	13.4
Merck	KGaA													
2008	\$11,131	\$541	4.9%	\$23,041	\$14,084	3.8%	5.2%	16.3%	\$2.49	\$2.21	2.0%	€ 93.79	€ 57.67	44.8
2007	10,389	5,152	49.6	21,967	12,789	40.3	4.0	14.6	23.87	1.77	1.3	106.55	79.96	5.8
2006	9,213	1,447	15.7	11,927	5,604	25.8	4.0	12.0	7.47	1.33	1.2	89.10	63.96	15.3
2005	8,641	971	11.2	10,718	4,900	19.8	4.6	12.2	5.01	1.25	1.4	74.90	48.45	18.3
Wacke	r (h)													
2008	\$6,330	\$647	10.2%	\$6,812	\$3,067	21.1%	17.4%	3.8%	\$13.02	\$2.65	1.4%	€ 197.70	€ 62.23	14.7
2007	5,566	622	11.2	5,768	2,746	22.6	14.9	4.0	12.50	3.31	1.5	197.70	98.05	17.4
2006	4,912	458	9.3	4,796	2,334	19.6	14.5	4.6	9.51	2.95	2.0	127.35	74.31	15.6
2005	4,056		5.2	4,303	1,375	15.4	11.0	5.3	4.27	ne	ne	ne	ne	ne
NETHE	RLANDS													
	obel (c)													
2008	\$22,703	-\$1,504	def	\$27,591	\$11,654	def	3.5%	2.3%	\$6.45	\$2.65	4.5%	€ 57.11	€ 22.85	9.1
2007	15,041	854	5.7%	28,327	16,383	5.2%	3.5	2.8	2.16	2.65	3.3	65.56	44.41	37.4
2006	20,222	1,697	8.4	18,821	6,275	27.0	3.9	6.4	5.89	1.77	2.7	49.41	38.30	11.C
2005	19,137	1,415	7.4	18,290	5,264	26.9	3.9	6.2	4.93	1.77	3.4	40.18	30.82	10.6
DSM (c	1/													
2008	\$13,901	\$850	6.1%	\$14,216	\$6,915	12.3%	6.2%	4.2%	\$5.05	\$1.77	4.2%	€ 41.27	€ 15.76	8.3
2003	13,133	631	4.8	14,467	7,925	8.0	5.3	4.2 70	3.43	1.77	3.4	39.87	31.63	15.3
2006	12,294	811	6.6	14,888	8,196	9.9	6.0	3.9	4.15	1.47	2.9	39.70	28.58	12.1
2005	12,063		6.4	14,757	8,058	9.6	4.9	3.5	3.92	1.47	3.4	35.22	23.07	11.0
CWITZ	ERLAND													
Ciba	LKLAND													
2008	\$5,470	\$521	9.5%	\$6,388	\$1,523	34.2%	4.2%	3.9%	\$7.78	ne	ne	снғ 60.40	CHF 24.00	5.0
2007	6,024	219	3.6	8,116	3,052	7.2	4.1	4.0	3.26	\$2.30	3.8%	85.80	45.30	18.6
2006	5,866	-38	def	8,386	2,969	def	3.7	4.3	def	2.77	4.0	84.95	63.30	def
2005	6,852	-236	def	9,800	3,605	def	3.7	3.7	def	2.77	3.8	85.00	72.51	def
Clarian	ıt													
2008	\$7,459		def	\$5,495	\$1,836	def	3.3%	2.3%	def	ne	ne	снғ 12.95	снғ 6.10	det
2007	7,880		0.1%	6,727	2,191	0.2%	3.6	2.5	def	\$0.23	1.6%	22.30	9.44	33.1
2006	7,481	-72	def	6,638	2,247	def	4.4	2.6	def	0.23	1.4	20.54	14.10	def
2005	7,555	177	2.3	6,764	2,392	7.4	4.3	2.4	\$0.75	0.23	1.3	21.30	16.70	23.5
Givaud	an													
2008	\$3,777	\$103	2.7%	\$6,467	\$1,934	5.3%	4.7%	8.4%	\$14.33	\$9.24	1.1%	CHF 1,071.00	CHF 710.00	57.5
2007	3,816		2.3	7,294	2,478	3.5	4.7	9.0	12.07	18.00	1.7	1,264.00	996.00	86.5
2006	2,686		14.2	4,341	2,582	14.8	5.8	8.5	53.81	17.37	1.8	1,160.00	888.50	17.6
2005	2,575		14.6	4,171	2,251	16.7	5.8	7.9	51.91	16.26	2.2	890.50	729.50	14.4

NOTE: Monetary statistics, except stock prices, for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = 0.679 euros, 1.0816 Swiss francs, and 0.539 pounds sterling. **a** Acquired BOC in September 2006. **b** Became a publicly traded company in 2005. **c** Divested pharmaceuticals in 2007; acquired ICI in 2008. **d** Stock split two-for-one in September 2005. **def** = deficit. **ne** = nonexistent.

	NET		PROFIT	TOTAL	STOCK- HOLDERS'	RETURN	CAPITAL SPEND- ING % OF		EARNINGS PER	DIVIDEND, \$ PER	DIVIDEND YIELD, %	STOCK PRIC		PRICE/ EARN- INGS
YEAR		EARNINGS		ASSETS		ON EQUITY		OF SALES		SHARE	OF PRICE	HIGH	LOW	RATIO
(Moneta	ary figures,	except per sh	are amounts	s, are in million	ns of dollars)									
Lonza														
2008	\$2,714	\$388	14.3%	\$5,200	\$1,787	21.7%	21.2%	3.7%	\$7.53	\$1.62	1.4%	снғ 158.30	снғ 83.95	14.9
2007	2,651	278	10.5	4,572	1,670	16.7	20.8	3.1	5.43	1.62	1.4	138.00	103.50	20.5
2006	2,692	205	7.6	3,613	1,484	13.8	12.7	2.6	3.97	1.39	1.6	108.74	78.30	21.7
2005	2,328	174	7.5	3,999	1,376	12.6	10.8	2.5	3.58	1.19	1.8	80.65	63.35	18.6
Synge	nta													
2008	\$11,624	\$1,385	11.9%	\$14,584	\$5,901	23.5%	3.8%	8.3%	\$14.63	\$6.00	2.6%	CHF 349.25	CHE 158 00	16.0
2007	9,240	1,109	12.0	13,280	6,041	18.4	3.4	9.0	11.42	4.80	2.1	295.70	207.80	20.4
2006	8,046	634	7.9	11,852	5,694	11.1	2.7	9.9	6.46	3.80	2.2	234.40	146.90	27.3
2005	8,104	622	7.7	11,404	5,431	11.5	2.1	10.1	6.22	3.30	2.6	163.50	115.40	20.7
PHAR	RMACEU	TICALS												
FRANC	CE													
	-Aventis													
2008	\$40,601	\$5,672	14.0%	\$106,019	\$66,378	8.5%	5.8%	16.6%	\$4.33	\$3.24	4.3%	€ 66.90	€ 36.06	17.5
2007	41,294	7,747	18.8	105,862	65,829	11.8	5.7	16.2	5.73	3.05	3.2	71.95	56.20	16.5
2006	41,767	5,897	14.1	114,472	67,450	8.7	5.1	15.6	4.34	2.58	2.4	79.25	64.85	24.4
2005	40,203	3,817	9.5	127,566	68,931	5.5	4.2	14.8	2.47	2.24	2.3	76.70	56.40	39.6
SWITZ	ERLAND													
Novart	is													
2008	\$41,459	\$8,233	19.9%	\$78,299	\$50,437	16.3%	5.1%	17.4%	\$3.59	\$1.85	3.6%	снғ 65.45	снғ 46.14	14.4
2007	38,072	11,968	31.4	75,452	49,396	24.2	6.7	16.9	5.13	1.48	2.4	74.60	58.05	12.0
2006	36,031	7,175	19.9	68,008	41,294	17.4	5.0	14.8	3.04	1.25	1.9	76.80	64.20	21.4
2005	31,005	6,130	19.8	57,732	33,164	18.5	3.7	15.6	2.62	1.06	1.8	71.50	55.35	22.4
Roche														
2008	\$42,160	\$10,022	23.8%	\$70,323	\$49,743	20.1%	6.9%	19.4%	\$9.45	\$4.62	2.6%	CHF 229.50	CHF 155.20	18.8
2007	42,604	10,563	24.8	72,204	49,230	21.5	7.6	18.2	10.31	4.24	1.9	266.70	210.20	21.4
2006	38,807	7,283	18.8	68,723	43,234	16.8	8.5	15.7	8.36	3.13	1.5	252.50	198.00	24.9
2005	32,795	5,474	16.7	64,060	38,551	14.2	9.4	16.0	6.35	2.77	1.6	230.00	139.00	26.9
UNITE	D KINGDO	OM												
AstraZ														
2008	\$31,601	\$6,101	19.3%	\$46,784	\$16,060	38.0%	3.5%	16.4%	\$4.20	\$2.05	4.8%	£28.88	£17.48	10.2
2007	29,559	5,595	18.9	47,957	14,915	37.5	3.8	17.5	3.74	1.87	3.9	29.84	21.44	12.7
2006	26,475	6,043	22.8	29,932	15,416	39.2	3.0	14.7	3.85	1.72	4.8	23.60	14.68	9.2
2005	23,950	4,706	19.6	24,840	13,691	34.4	3.4	14.1	2.91	1.30	3.0	28.37	18.61	15.0
Glavo	SmithKline													
2008	\$45,180	\$10.095	22.3%	\$73,085	\$15,432	65.4%	5.9%	14.4%	\$1.63	\$1.06	4.8%	£13.85	£9.95	13.5
2003	42,186	10,346	24.5	57,577	18.404	56.2	6.7	14.470	1.74	0.98	4.0	14.77	11.69	14.1
2007	43,132	10,346	23.2	47,455	17,917	55.9	5.9	14.2	1.74	0.89	3.3	15.77	13.26	15.3
2005	40,225	8,944	22.2	50,510	13,578	65.9	4.2	14.5	1.52	0.89	3.2	15.77	11.75	16.6
		0.244												

and 0.539 pounds sterling.

JAPAN COMPANY RESULTS

Several firms posted hundreds of millions of dollars in net losses

YEAR	NET SALES	EARNINGS	PROFIT MARGIN	TOTAL ASSETS	STOCK- HOLDERS' EQUITY	RETURN ON EOUITY	CAPITAL SPENDING, % OF SALES	R&D SPEND- ING, % OF SALES	EARN- INGS PER SHARE	DIVIDEND, \$ PER SHARE	DIVIDEND YIELD, % OF PRICE	STOCK RANGE SHA HIGH	, PER	PRICE/ EARNINGS RATIO
			e amounts, a	re in millions o						-				
ASAHI K	ASEI													
2008	\$15,022	\$46	0.3%	\$13,341	\$5,795	0.8%	8.2%	3.9%	\$0.03	\$0.10	2.1%	¥636	¥295	137.3
2007	16,412	677	4.1	13,786	5,929	11.4	4.9	3.3	0.48	0.13	1.8	902	505	14.1
2006	15,705	663	4.2	14,121	6,321	10.5	5.2	2.3	0.47	0.12	1.5	906	661	16.0
2005	14,495	577	4.0	13,309	5,747	10.0	4.4	2.4	0.41	0.10	1.5	857	499	16.0
DIC (a)														
2008	\$9,018		0.3%	\$7,142	\$1,053	2.4%	4.7%	1.6%	\$0.03	\$0.06	2.4%	¥367	¥124	
2007	10,426		2.9	9,462	2,471	12.1	3.6	1.4	0.38	0.08	1.8	576	312	
2006	9,824		2.2	9,593	2,246	9.7	4.9	1.5	0.27	0.05	1.1	510	370	
2005	9,719	51	0.5	9,377	1,820	2.8	4.2	1.5	0.06	0.04	1.0	528	274	62.2
JSR COI	OD O													
2008	\$3,409	\$135	4.0%	\$3,284	\$2,368	5.7%	5.4%	6.1%	\$0.55	\$0.31	2.0%	¥2,455	¥801	28.9
2003	3,934	358	9.1	4,033	2,492	14.4	7.1	4.8	1.42	0.31	1.3	3,010	2,045	
2007	3,538	326	9.2	3,955	2,162	15.1	6.0	4.7	1.29	0.23	0.8	3,590	2,300	
2005	3,271	296	9.0	3,686	2,058	14.4	6.9	4.7	1.16	0.19	0.7	2,025	3,780	
	0,2:-			0,000	_,,,,,,							_,,,_,	-,	
KANEKA	4													
2008	\$4,348	-\$18	def	\$4,048	\$2,386	def	7.6%	3.8%	def	\$0.15	2.5%	¥798	¥471	. def
2007	4,865	182	3.7%	4,378	2,453	7.4%	6.3	3.3	\$0.53	0.15	1.8	1,207	605	16.4
2006	4,577	178	3.9	4,518	2,339	7.6	7.5	3.6	0.52	0.15	1.3	1,448	970	
2005	4,491	272	6.1	4,383	2,522	10.8	7.5	3.6	0.78	0.15	1.2	1,596	1,079	16.6
MITSLIR	ISHI CHEI	MICAL												
2008	\$20,215	-\$650	def	\$26,510	\$6,470	def	6.7%	6.1%	def	\$0.12	2.3%	¥758	¥299	def
2007	28,337	1,587	5.6%	26,751	8,007	19.8%	5.8	3.8	\$1.16	0.15	1.8	1,155	634	
2006	25,368		3.8	22,428	6,888	14.1	5.0	3.5	0.71	0.14	1.6	1,003	741	
2005	23,300	828	3.6	20,569	6,345	13.0	4.1	3.7	0.67	0.08	1.1	815	672	
	•													
	CHEMICA													
2008	\$14,388	-\$921	def	\$11,500	\$3,524	def	5.4%	2.8%	def	\$0.09	2.0%	¥685	¥206	
2007	17,281	240	1.4%	14,211	4,638	5.2%	4.7	2.4	\$0.31	0.12	1.3	1,179	648	
2006	16,327	506	3.1	14,491	4,506	11.2	4.3	2.2	0.64	0.10	1.1	1,084	660	
2005	14,242	427	3.0	12,853	4,488	9.5	5.5	2.5	0.54	0.08	1.0	954	570	13.6
SHIN-F1	SU CHEM	IICAL												
2008	\$11,614	\$1,497	12.9%	\$16,297	\$13,213	11.3%	13.3%	3.1%	\$3.51	\$0.97	1.9%	¥6,920	¥3,400	14.2
2007	13,312	1,776	13.3	18,556	13,916	12.8	19.5	3.5	4.13	0.87	1.2	9,500	4,970	
2006	12,619	1,490	11.8	17,990	12,770	11.7	16.1	3.2	3.46	0.68	1.0	8,150	5,460	
2005	10,909	1,113	10.2	16,165	11,352	9.8	10.6	2.8	2.58	0.34	0.6		3,800	
0110111	B = 11112	<u> </u>		<u> </u>	<u> </u>					<u> </u>				
SHOWA		404	0.00/	\$0.225	#0.500	0.00/	E E0.	0.007	\$0.00	AC 05	0.00/	\/20C	\/44 *	107.0
2008	\$9,710	\$24	0.2%	\$9,305	\$2,568	0.9%	5.5%	2.0%	\$0.02	\$0.05	2.0%	¥386	¥114	
2007	9,897		3.2	9,959	2,889	11.1	6.8	1.7	0.27	0.05	1.3	472	313	
2006	8,845		3.2	10,038	2,568	10.9	9.9	2.1	0.24	0.04	0.8	540	414	
2005	7,853	101	1.9	9,539	2,000	7.5	5.1	2.1	0.13	0.03	0.8	247	470	26.2
SUMITO	MO CHEN	/ICAL												
2008	\$17,296		def	\$19,562	\$7,502	def	7.5%	7.3%	def	\$0.09	1.7%	¥785	¥264	def
2007	18,344		3.3%	22,816	9,731	6.3%	7.5	5.6	\$0.37	0.12	1.4	1,035	637	
2006	17,313		5.2	22,487	9,967	9.1	8.9	5.5	0.55	0.12	1.3	1,073	751	
2005	15,056		5.8	21,070	6,942	12.6	8.0	5.9	0.53	0.10	1.4	964	493	
	.,				.,									

NOTE: Monetary statistics, except stock prices, for all years were converted at the 2008 exchange rate of \$1.00 = 103.39 yen. Statistics were prepared on the basis of consolidated results. The fiscal year ends March 31 of the following calendar year, except for Showa Denko's, which ends Dec. 31. **a** Formerly Dainippon Ink & Chemical. **def** = deficit.

YEAR (Moneta	NET SALES ry figures, ex	EARNINGS xcept per share	PROFIT MARGIN e amounts, are	TOTAL ASSETS e in millions o	EQUITY		CAPITAL SPENDING, % OF SALES		EARN- INGS PER SHARE	DIVIDEND, \$ PER SHARE	DIVIDEND YIELD, % OF PRICE	RANG	PRICE E, PER ARE LOW	PRICE/ EARNINGS RATIO
TAIYO	NIPPON S	ANSO											-	
2008	\$4,795	\$160	3.3%	\$5,168	\$1,879	8.5%	13.3%	0.8%	\$0.40	\$0.12	1.6%	¥989	¥521	18.3
2007	4,911	212	4.3	5,293	2,107	10.1	7.1	0.6	0.53	0.12	1.2	1,137	802	17.8
2006	4,436	194	4.4	5,298	2,090	9.3	7.8	0.6	0.48	0.12	1.2	1,131	849	19.8
2005	3,843	140	3.6	4,561	1,722	8.1	5.6	0.6	0.34	0.10	1.4	890	535	20.1
TEIJIN														
2008	\$9,125	-\$416	def	\$8,455	\$3,192	def	8.0%	4.0%	def	\$0.05	1.6%	¥441	¥168	def
2007	10,026	122	1.2%	9,827	3,978	3.1%	8.2	3.5	\$0.13	0.08	1.5	682	374	40.1
2006	9,765	330	3.4	9,671	3,944	8.4	7.5	3.5	0.36	0.10	1.3	895	596	20.3
2005	9,073	240	2.6	9,130	3,275	7.3	7.1	3.3	0.26	0.07	1.2	845	447	24.3
TORAY	INDUSTR	ES												
2008	\$14,233	-\$158	def	\$14,736	\$4,958	def	6.3%	3.4%	def	\$0.07	1.4%	¥691	¥352	def
2007	15,956	465	2.9%	16,425	6,211	7.5%	8.9	2.8	\$0.33	0.10	1.3	967	567	22.3
2006	14,958	567	3.8	16,195	6,284	9.0	8.2	2.7	0.40	0.10	1.0	1,109	807	22.9
2005	13,807	459	3.3	14,870	5,194	8.8	7.3	2.8	0.33	0.08	1.1	1,010	460	21.8

NOTE: Monetary statistics, except share prices, for all years were converted at the 2008 exchange rate of \$1.00 = 103.39 yen. Statistics were prepared on the basis of consolidated results. The fiscal year ends March 31 of the following calendar year, except for Showa Denko's, which ends Dec. 31. def = deficit.

U.S. CAPITAL SPENDING

Most firms boosted spending for a combined increase of 18.6%

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Air Products & Chemicals (a)	\$771	\$889	\$768	\$708	\$628	\$613	\$706	\$930	\$1,261	\$1,055	\$1,085
Albemarle	77	78	52	50	38	41	58	70	100	99	100
Arch Chemicals	84	59	62	45	35	20	18	18	27	42	53
Cabot (a)	187	166	137	122	146	129	119	186	188	141	199
Chemtura (b)	67	132	155	137	100	88	65	104	128	117	121
Cytec Industries	104	77	77	64	62	94	89	105	103	115	196
Dow Chemical (c)	1,546	1,412	1,349	1,587	1,623	1,100	1,333	1,597	1,775	2,075	2,276
DuPont (d)	2,240	2,055	1,925	1,634	1,280	1,713	1,232	1,340	1,532	1,585	1,978
Eastman Chemical	500	292	226	234	427	230	248	343	289	518	634
FMC Corp. (e)	266	236	240	146	84	87	85	94	116	115	175
H.B. Fuller (f)	62	56	49	31	36	39	31	25	21	21	20
W.R. Grace	101	83	65	63	91	86	63	81	119	137	132
Lubrizol (g)	93	65	86	66	65	88	133	137	131	183	203
Monsanto (h)	979	976	582	382	224	206	210	281	370	509	918
NewMarket Corp. (i)	23	14	14	10	13	12	15	18	26	31	32
PPG Industries	487	490	561	291	238	217	244	288	372	353	383
Praxair	781	653	704	595	498	983	668	877	1,100	1,376	1,611
Quaker Chemical	8	6	6	8	11	13	9	7	12	9	12
Rohm and Haas	229	323	391	401	407	339	322	92	404	417	520
Solutia	158	257	221	94	59	78	61	81	106	150	84
Stepan	44	33	28	34	36	33	34	42	46	40	50
TOTAL (j)	\$8,807	\$8,352	\$7,698	\$6,702	\$6,101	\$6,209	\$5,743	\$6,716	\$8,226	\$9,088	\$10,782

NOTE: Figures are for worldwide spending on construction, equipment, and land in consolidated businesses. Prior years are not restated to reflect company revisions. a Fiscal year ends Sept. 30. b Crompton and Great Lakes Chemical merged in 2005 to become Chemtura. c Acquired Union Carbide in 2001. d Acquired all of DuPont Merck Pharmaceutical in 1998 and all of Pioneer Hi-Bred in 1999; sold drug operations in 2001. e Machinery business split off in December 2001. f Fiscal year ends Nov. 30. g Acquired Noveon in 2004. h Merged with Pharmacia in 1999; spun off from Pharmacia in August 2002. i Formerly Ethyl Corp. j For companies reporting.

EUROPE CAPITAL SPENDING

Capital spending among European chemical firms jumped again in 2008

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Air Liquide (France)	\$2,112	\$1,663	\$1,341	\$1,134	\$1,341	\$1,078	\$1,289	\$1,436	\$1,662	\$2,001	\$2,810
AkzoNobel (Netherlands) (a)	1,206	1,174	1,068	1,211	1,015	856	811	754	779	529	786
Altana (Germany) (b)	ne	110	134	159							
Arkema (France) (c)	ne	ne	ne	ne	ne	436	442	490	495	479	493
BASF (Germany)	4,268	4,071	5,348	4,473	3,943	3,377	2,842	2,869	3,551	3,775	3,713
Bayer (Germany)	3,979	3,876	3,898	3,854	3,510	2,102	1,467	2,044	2,561	2,739	2,591
Ciba (Switzerland)	366	247	230	239	231	215	272	254	218	247	230
Clariant (Switzerland)	428	393	495	467	313	278	267	322	331	283	250
DSM (Netherlands)	861	953	906	960	741	638	492	591	738	700	865
Givaudan (Switzerland) (d)	ne	153	120	105	85	146	138	149	156	179	179
Kemira (Finland)	376	247	321	439	358	345	235	166	241	362	222
Lanxess (Germany) (e)	ne	ne	ne	ne	ne	459	411	370	393	418	524
Linde (Germany)	860	1,303	1,442	1,071	1,277	1,261	1,057	1,272	1,430	1,523	2,165
Lonza (Switzerland) (f)	377	257	137	244	322	392	230	251	343	551	575
Merck (Germany)	469	529	629	692	555	414	345	395	373	417	582
Rhodia (France) (g)	495	548	741	711	551	343	293	374	393	376	355
Solvay (Belgium)	943	1,353	1,196	1,062	920	817	831	744	856	1,144	1,944
Syngenta (Switzerland) (h)	ne	ne	185	253	165	211	166	174	217	317	444
Wacker (Germany) (i)	ne	448	713	829	1,100						
TOTAL (j)	\$16,738	\$16,767	\$18,055	\$16,915	\$15,326	\$13,368	\$11,588	\$13,103	\$15,560	\$17,003	\$19,988

NOTE: Monetary statistics for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = 0.679 euros and 1.0816 Swiss francs. a Divested pharmaceuticals in 2007; acquired ICI in 2008. b Divested pharmaceuticals in 2006. c Spun off from Total in 2006; prior figures are pro forma. d Spun off from Roche in 2001; prior figures are pro forma. **e** Spun off from Bayer in 2005; prior figures are pro forma. **f** Became a publicly traded company in 1999; prior figures are pro forma. **g** Spun off from Rhône-Poulenc in 1998. **h** Formed from agrochemicals businesses of Zeneca and Novartis; became a publicly traded company in 2000; prior figures are pro forma. **i** Became a publicly traded company in 2005. j For companies listed. ne = nonexistent.

JAPAN CAPITAL SPENDING

With Shin-Etsu leading the retrenchment, most companies spent less on new plants and equipment

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Asahi Kasei	\$682	\$611	\$669	\$724	\$909	\$836	\$662	\$641	\$816	\$802	\$1,226
DIC (a)	755	897	528	488	417	442	442	407	477	377	425
JSR Corp.	222	119	106	128	155	166	175	226	214	281	185
Kaneka	237	237	237	234	172	222	224	336	344	305	329
Mitsubishi Chemical	1,014	819	835	965	825	671	649	947	1,266	1,645	1,345
Mitsui Chemicals	504	527	595	1,137	665	442	456	787	703	819	784
Shin-Etsu Chemical	712	774	936	789	634	985	1,027	1,159	2,037	2,597	1,542
Showa Denko	474	360	387	312	275	395	289	399	879	671	530
Sumitomo Chemical	654	789	601	706	1,470	1,066	1,217	1,208	1,546	1,378	1,297
Taiyo Nippon Sanso (b)	221	137	116	167	171	72	368	214	347	351	638
Teijin	306	418	477	541	679	513	524	646	732	819	733
Toray Industries	1,170	1,059	581	632	554	472	707	1,007	1,223	1,420	893
TOTAL (c)	\$6,949	\$6,747	\$6,066	\$6,824	\$6,928	\$6,281	\$6,741	\$7,978	\$10,584	\$11,464	\$9,926

NOTE: Monetary statistics for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = 103.39 yen. Fiscal year ends March 31 of the following calendar year, except Showa Denko's, which ends Dec. 31. **a** Formerly Dainippon Ink & Chemicals. **b** Nippon Sanso became Taiyo Nippon Sanso when it acquired Taiyo Toyo Sanso in October 2004; for 2003 and earlier, figures are for Nippon Sanso. **c** For companies reporting.

CANADA CAPITAL SPENDING

Investment spiked in 2008, largely because of Potash's projects

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Agrium	\$174	\$253	\$179	\$164	\$52	\$99	\$82	\$175	\$209	\$454	\$506
Methanex	178	139	19	91	160	243	157	118	63	278	527
Nova Chemicals (a)	367	620	440	168	71	130	242	419	198	156	166
PotashCorp	190	119	186	514	212	151	221	383	509	607	1198
TOTAL (b)	\$909	\$1,131	\$824	\$937	\$495	\$623	\$702	\$1,095	\$979	\$1,495	\$2,397

NOTE: Monetary statistics for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = \$1.066 Canadian. a Spun off from Nova Corp. in 1998. b For companies reporting.

U.S. R&D SPENDING

Most chemical firms continued to increase R&D spending, and pharma spending was up on average

CHEMICAL

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Air Products & Chemicals (a)	\$112	\$123	\$124	\$123	\$121	\$121	\$127	\$133	\$151	\$140	\$131
Albemarle	30	34	26	22	17	18	31	42	46	63	67
Arch Chemicals	16	18	17	25	23	24	15	21	18	20	22
Cabot (a)	83	73	43	48	48	64	53	59	58	69	74
Chemtura (b)	53	68	85	82	82	52	50	52	66	62	51
Cytec Industries	43	44	39	32	34	35	40	69	74	76	82
Dow Chemical (c)	807	845	892	1,072	1,066	981	1,022	1,073	1,164	1,305	1,310
DuPont (d)	1,308	1,617	1,776	1,588	1,264	1,349	1,333	1,336	1,302	1,338	1,393
Eastman Chemical	185	187	149	160	159	173	154	162	167	156	158
FMC Corp. (e)	158	152	155	100	82	87	93	94	97	95	94
H.B. Fuller (f)	22	21	18	19	18	18	16	16	17	17	17
W.R. Grace	47	42	46	50	52	52	51	59	64	80	83
Lubrizol	78	78	86	88	94	94	190	205	206	219	221
Monsanto (g)	1,263	695	588	560	527	510	511	588	725	780	980
NewMarket Corp. (h)	40	41	40	33	30	28	33	65	70	77	82
PPG Industries	271	284	282	266	289	306	303	309	318	354	451
Praxair	72	67	65	66	69	75	77	80	87	98	97
Quaker Chemical	10	9	9	9	9	10	14	14	13	15	17
Rohm and Haas	207	236	259	230	260	238	265	273	292	296	327
Solutia	62	58	67	58	39	53	44	45	45	45	12
Stepan	12	13	13	14	15	15	15	30	30	31	34
TOTAL (i)	\$4,879	\$4,705	\$4,779	\$4,645	\$4,298	\$4,303	\$4,437	\$4,725	\$5,010	\$5,380	\$5,703

PHARMACEUTICAL

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Abbott Laboratories	\$1,339	\$1,194	\$1,351	\$1,578	\$1,562	\$1,734	\$1,697	\$1,821	\$2,255	\$2,506	\$2,689
Bristol-Myers Squibb (j)	1,577	1,843	1,939	2,259	2,218	2,279	2,500	2,746	3,067	3,282	3,585
Eli Lilly & Co.	1,382	1,739	1,784	2,019	2,235	2,350	2,149	3,025	3,129	3,487	3,841
Johnson & Johnson	2,506	2,768	3,105	3,591	2,957	4,684	5,203	6,312	7,125	7,680	7,577
Merck & Co.	1,821	2,068	2,344	2,456	2,677	3,178	4,010	3,848	4,783	4,883	4,805
Pfizer (k)	3,305	4,036	4,435	4,847	5,176	7,131	7,684	7,442	7,599	8,089	7,945
Schering-Plough	1,007	1,191	1,333	1,312	1,425	1,469	1,607	1,865	2,188	2,926	3,529
Wyeth	1,655	1,740	1,688	1,870	2,080	2,094	2,461	2,749	3,109	3,257	3,373
TOTAL (i)	\$14,592	\$16,579	\$17,979	\$19,932	\$20,330	\$24,919	\$27,311	\$29,808	\$33,255	\$36,110	\$37,344

NOTE: Prior years are not restated to reflect company revisions except where noted. a Fiscal year ends Sept. 30. b Crompton & Knowles and Great Lakes Chemical merged in 2005 to become Chemtura; earlier figures are for Crompton & Knowles. c Acquired Union Carbide in 2001. d Acquired all of DuPont Merck Pharmaceutical in 1998 and all of Pioneer Hi-Bred in 1999; sold drug operations in 2001. e Machinery business split off in December 2001; data for 2002 and 2003 are for remaining chemical operations. f Fiscal year ends Nov. 30. g Merged with Pharmacia in 1999; spun off from Pharmacia in August 2002. h Formerly Ethyl Corp. i For companies reporting. J Acquired DuPont Pharmaceuticals in 2001. k Merged with Warner-Lambert in 2000 and with Pharmacia in 2003; prior years are restated for Warner-Lambert but not Pharmacia.

EUROPE R&D SPENDING

R&D spending increased for the third consecutive year

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Air Liquide (France)	\$128	\$134	\$140	\$133	\$136	\$139	\$152	\$158	\$171	\$197	\$236
AkzoNobel (Netherlands) (a)	957	1,069	1,163	1,247	1,327	1,306	1,212	1,193	1,303	415	520
Altana (Germany) (b)	ne	ne	ne	ne	ne	ne	ne	ne	100	99	106
Arkema (France) (c)	ne	ne	ne	ne	ne	281	270	259	247	233	221
BASF (Germany)	1,809	1,963	2,247	1,837	1,672	1,627	1,452	1,567	1,881	2,032	1,996
Bayer (Germany)	3,010	3,317	3,524	3,769	3,795	3,293	2,918	2,546	3,383	3,797	3,907
Ciba (Switzerland)	280	237	271	255	272	260	266	278	250	242	213
Clariant (Switzerland)	308	335	383	378	325	285	253	202	191	195	170
DSM (Netherlands)	371	381	389	439	399	395	421	427	197	548	580
Givaudan (Switzerland) (d)	ne	144	172	184	190	201	192	203	227	343	318
Kemira (Finland)	72	71	71	57	68	71	57	63	76	97	105
Lanxess (Germany) (e)	ne	ne	ne	ne	ne	247	186	149	128	130	143
Linde (Germany)	ne	211	268	247	252	253	244	253	296	143	153
Lonza (Switzerland) (f)	98	91	89	96	94	64	66	58	70	82	102
Merck (Germany)	596	733	804	850	895	891	882	1,050	1,108	1,514	1,817
Rhodia (France) (g)	269	261	286	290	296	275	336	152	153	137	108
Solvay (Belgium)	429	508	530	502	585	595	608	695	829	819	831
Syngenta (Switzerland) (h)	ne	769	745	723	697	727	809	822	796	830	969
Wacker (Germany) (i)	ne	ne	ne	ne	ne	ne	ne	216	224	225	240
TOTAL (j)	\$8,328	\$10,223	\$11,083	\$11,008	\$11,003	\$10,911	\$10,324	\$10,292	\$11,631	\$12,077	\$12,734

NOTE: Monetary statistics for all years were converted at the 2008 average exchange rate of \$1.00 U.S. = 0.679 euros and 1.0816 Swiss francs. a Divested pharmaceuticals in 2007; acquired ICI in 2008. b Divested pharmaceuticals in 2006. c Spun off from Total in 2006; prior figures are pro forma. d Spun off from Roche in 2001; prior figures are pro forma. **e** Spun off from Bayer in 2005; prior figures are pro forma. **f** Became a publicly traded company in 1999; prior figures are pro forma. **g** Spun off from Rhône-Poulenc in 1998. **h** Formed from agrochemicals businesses of Zeneca and Novartis; became a publicly traded company in 2000; prior figures are pro forma. **i** Became a publicly traded company in 2005. **j** For companies listed. **ne** = nonexistent.

JAPAN R&D SPENDING

R&D expenditures have kept growing, with Sumitomo Chemical and Mitsubishi Chemical far outspending others

\$ MILLIONS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Asahi Kasei	\$550	\$484	\$481	\$479	\$477	\$351	\$353	\$347	\$361	\$544	\$588
DIC (a)	122	103	116	124	125	145	154	143	150	150	142
JSR Corp.	54	58	50	128	136	146	160	153	168	190	207
Kaneka	97	118	127	127	135	140	152	163	163	161	166
Mitsubishi Chemical	650	644	658	818	881	856	863	867	882	1,084	1,236
Mitsui Chemicals	380	369	353	377	359	318	338	359	357	407	397
Shin-Etsu Chemical	na	261	251	273	264	255	270	310	404	464	359
Showa Denko	230	218	160	149	149	151	170	168	189	168	194
Sumitomo Chemical	575	574	572	645	704	727	756	889	945	1,019	1,268
Taiyo Nippon Sanso (b)	na	39	33	33	24	22	20	22	26	28	38
Teijin	267	275	293	308	289	318	290	302	339	351	364
Toray Industries	367	375	375	360	345	346	371	384	409	443	484
TOTAL (c)	\$3,292	\$3,517	\$3,470	\$3,822	\$3,888	\$3,775	\$3,898	\$4,105	\$4,393	\$5,009	\$5,443

NOTE: Monetary statistics for all years converted at the 2008 average exchange rate of \$1.00 U.S. = 103.39 yen. Fiscal year ends March 31 of the following calendar year, except Showa Denko's, which ends Dec. 31. **a** Formerly Dainippon Ink & Chemicals. **b** Nippon Sanso became Taiyo Nippon Sanso when it acquired Taiyo Toyo Sanso in October 2004; for 2003 and earlier, figures are for Nippon Sanso. c For companies reporting. **na** = not available.