Average increase in U.S. pharma and biotech firms' earnings per share in 2012:

4.3%

Percent increase in chemical company capital spending in 2012 in U.S.:

6.5 in Europe:

51.8 in Japan:

4.1

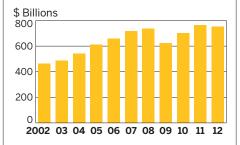
Percent increase in chemical company

R&D spending in 2012 in U.S.:

in Europe: **7.6** in Japan:

1.7

U.S. chemical shipments shrank slightly in 2012 ...



... while prices remained stable



SOURCE: C&EN calculations using Department of Commerce data

Average change in U.S. chemical firms' earnings per share in 2012:

-2.7%

Of chemical firms tracked by C&EN, NewMarket paid the U.S.'s highest dividend in 2012 at

\$28.00

Givaudan paid Europe's highest dividend in 2012 at

\$38.39

Change in pharma R&D spending in 2012:

-2.4%

NO GROWTH, NO PROBLEM

Even in debt-plagued Europe, chemical firms kept a firm grip on their **FINANCES**

THE ABILITY OF CHEMICAL firms to persevere in the face of tepid economic growth was sorely tested in 2012, when shipments of chemicals slowed in the U.S. and Europe. Still, many companies were able to increase earnings compared with 2011. Moreover, most firms strengthened their balance sheets coming out of the recession and have used that money to invest in plants and equipment, a signal that they expect demand growth to return in the future.

Weak demand was most evident in the U.S. After increasing by 9.1% in 2011, chemical shipments declined by 1.5% in 2012. The two areas of growth were agricultural chemicals, thanks to high commodity prices, and coatings and adhesives, because of healthy demand for automobiles and other durable goods. In Canada, a strong farm economy boosted chemical shipments in the agriculture sector by 4.1%, but for all other sectors shipments were lower than in 2011.

In contrast, shipments of chemicals in Europe grew by 3.6%, close to the 4.0% average for the decade. Individual country data show a wide range of growth rates, from a low 0.9% for Germany to 10.5% for Poland. Italy's chemical shipments shrank by 4.1% for the year.

One reason that the sluggish economy did not take a bigger bite out of chemical company earnings last year was that prices remained stable. In the U.S., the overall price index for chemicals increased 0.6%. Paint materials posted a significant 13.2% increase compared with the previous year. That helped about half of U.S. chemical firms expand sales and earnings in 2012.

Among them, Axiall (formerly Georgia Gulf), Cabot, Cytec Industries, and Westlake Chemical also saw profit margins increase significantly during the year.

Despite the often-discussed sovereign debt problems in Europe, chemical sales and earnings in the region held up remarkably well in 2012. Of the firms tracked by C&EN, only AkzoNobel posted a loss for the year. Earnings grew at Air Liquide, Arkema, Clariant, Lanxess, Linde, and Syngenta. Some growth came through acquisitions—particularly at Solvay, which bought Rhodia in 2011—and overseas operations.

European chemical firms also pumped funds into their facilities and equipment. Combined, they boosted capital investments by more than 50%, or a whopping \$7.0 billion, in 2012, significantly more than the previous year's \$2.6 billion increase. U.S. companies tracked by C&EN increased capital spending by only 6.5%, or \$627 million.

In Japan, Mitsui Chemicals, Sumitomo Chemical, and Teijin posted losses for the year, while most other firms had stable or increased earnings. The firms tracked by C&EN increased capital spending by just over 4%, less than their counterparts in Europe and the U.S.

U.S. SHIPMENTS

Overall chemical shipments were down slightly, but shipments of agricultural and coatings chemicals increased

					ANNUAL	CHANGE
\$ BILLIONS	2002	2010	2011	2012	2011-12	2002-12
All chemicals	\$462.5	\$701.2	\$764.8	\$753.0	-1.5%	5.0%
Chemicals, excluding	319.5	515.5	585.1	585.7	0.1	6.2
pharmaceuticals						
Agricultural chemicals	19.3	31.2	35.3	37.9	7.3	7.0
Coatings & adhesives	27.4	31.3	32.3	33.9	5.0	2.2
All other chemicals	272.8	453.0	517.5	513.9	-0.7	6.5
Pharmaceuticals	143.0	185.8	179.7	167.3	-6.9	1.6

SOURCE: C&EN calculations using Department of Commerce data

U.S. PRICE INDEX

Prices for paint soared, but generally, chemical product prices grew only slightly

PRODUCER PRICE INDEX,					ANNUAL	CHANGE
2002 = 100	2002	2010	2011	2012	2011-12	2002-12
All commodities	100.0	140.9	153.3	154.2	0.6%	4.4%
Industrial	100.0	128.3	134.8	135.9	0.8	3.1
commodities						
Finished goods	100.0	129.4	137.1	139.8	1.9	3.4
Chemicals &	100.0	162.3	181.1	182.2	0.6	6.2
allied products						
Industrial chemicals	100.0	211.5	255.1	241.4	-5.4	9.2
Prepared paint	100.0	142.1	148.7	162.0	9.0	4.9
Paint materials	100.0	134.8	157.4	178.1	13.2	5.9
Drugs &	100.0	144.2	149.8	157.1	4.9	4.6
pharmaceuticals						
Fats & oils, inedible	100.0	270.5	381.9	373.5	-2.2	14.1
Agricultural chemicals	100.0	164.3	198.5	201.3	1.4	7.2
Plastic resin &	100.0	160.7	175.7	180.6	2.8	6.1
materials						
Other chemicals &	100.0	125.7	131.4	135.1	2.9	3.1
products						

SOURCE: Department of Labor

Chemical shipments % change in Canada:

Pharmaceutical shipments % change in Canada:

Value of European chemical shipments in 2012:

billion

Value of U.S. chemical shipments in 2012:

billion

Of chemical firms tracked by C&EN.

U.S. companies increased

earnings in 2012

increased earnings in 2012

Japanese companies

increased earnings in 2012

Percent increase in shipments of U.S. agricultural chemicals:

Percent increase in shipments of Canadian agricultural chemicals:

CANADA SHIPMENTS

The Canadian chemical and pharmaceutical sectors both slipped in 2012

					ANNUAL	CHANGE
\$ BILLIONS	2002	2010	2011	2012	2011-12	2002-12
All chemicals	\$40.5	\$44.4	\$46.8	\$45.9	-1.9%	1.3%
Chemicals, excluding	32.9	33.6	38.3	38.0	-0.8	1.5
pharmaceuticals						
Agricultural chemicals	2.6	3.9	4.9	5.1	4.1	7.0
Paints & coatings	2.0	1.7	1.8	1.7	-5.6	-1.6
All other chemicals	28.3	28.0	31.6	31.2	-1.3	1.0
Pharmaceuticals	7.6	10.8	8.5	7.9	-7.1	0.4

NOTE: Monetary statistics for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = \$0.9995 Canadian. SOURCE: C&EN calculations using Statistics Canada data

EUROPE SHIPMENTS

The Netherlands and Poland enjoyed Europe's strongest growth

					ANNUAL	CHANGE
\$ BILLIONS	2002	2010	2011	2012a	2011-12	2002-12
Europe	\$582.5	\$751.0	\$832.6	\$862.5	3.6%	4.0%
European Union ^b	533.9	635.9	695.3	714.4	2.7	3.0
Germany	142.1	192.1	205.3	207.1	0.9	3.8
France	88.4	96.0	104.0	106.0	1.9	1.8
Netherlands	41.5	55.0	62.5	69.0	10.4	5.2
Italy	60.9	62.2	66.5	63.8	-4.1	0.5
U.K.	67.9	54.0	60.0	63.1	5.2	-0.7
Spain	35.6	45.2	49.3	50.7	2.8	3.6
Belgium	32.6	40.3	44.6	46.1	3.4	3.5
Poland	9.8	15.8	18.1	20.0	10.5	7.4
Sweden	9.4	10.5	10.9	11.6	6.4	2.1
Ireland	9.3	3.7	4.5	4.7	4.4	-6.6

NOTE: Monetary statistics for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 0.7777 euros. a Data are provisional and could differ from final figures, scheduled to be released during the second half of the year. **b** Total for 27 countries that make up the EU. **SOURCE:** CEFIC

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.

3,223

2,818

1.990

2011

2009

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

Total assets. Sum at vear'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 price range. High and low market prices of common stock during the year, adjusted for stock splits but not stock dividends.

Price/earnings ratio.

stock during the year.

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

U.S. COMPANY RESULTS

Only half of U.S. chemical and drug firms tracked by C&EN saw profits grow in 2012

	NET		PROFIT	TOTAL	STOCK- HOLD- ERS'	RETURN ON	CAPITAL SPEND- ING, % OF	R&D SPEND- ING. % OF	EARN-	DIVIDEND	, DIVIDEND I	STOCK RANGE, PE	R SHARE	PRICE/ EARNINGS
YEAR	SALES	EARNINGS		ASSETS	EQUITY	EQUITY	SALES	SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary figures	, except pe	r-share amou	nts, are in mi	llions of dollar	rs)									
CHEMICALS														
AIR PRODUCTS	S & CHEN	IICALS ^a												
2012	\$9,612	\$999	10.4%	\$14,582	\$4,263	23.4%	15.8%	1.3%	\$5.53	\$2.50	3.0%	\$92.79	\$72.26	14.9
2011	10,082	1,215	12.1	13,139	4,786	25.4	13.4	1.2	5.75	2.23	2.6	98.00	74.58	15.0
2010	9,026	1,029	11.4	12,306	4,498	22.9	14.4	1.3	4.85	1.92	2.6	85.44	64.13	15.4
2009	8,256	640	7.8	11,850	3,616	17.7	14.3	1.4	3.01	1.79	2.9	80.60	41.46	20.3
ALBEMARLE														
2012	\$2,745	\$312	11.4%	\$3,066	\$1,561	20.0%	10.2%	2.9%	\$3.49	\$0.80	1.3%	\$68.51	\$50.88	17.1
2011	2,869		16.2	2,800	1,275	36.4	6.7	2.7	4.82	0.67	1.2	71.79	38.02	11.4
2010	2,363	337	14.3	2,661	1,069	31.5	3.2	2.5	3.54	0.56	1.2	57.34	34.49	13.0
2009	2,005	178	8.9	2,328	762	23.4	5.0	3.0	1.95	0.50	1.9	37.62	15.54	13.6
ASHLAND ^b														
2012	\$8,206	\$38	0.5%	\$7,246	-\$1,249	3.0%	3.6%	1.7%	\$0.33	\$0.80	1.3%	\$78.27	\$41.11	180.9
2011	6,502	56	0.9	7,541	-1,290	-4.3	3.1	1.4	5.28	0.65	1.2	68.34	44.14	10.7
2010	5,741	88	1.5	6,190	462	19.0	3.6	1.5	1.82	0.45	0.9	63.28	34.14	26.8
2009	5,220	-240	-4.6	6,206	183	-131.1	3.3	1.8	-3.60	0.30	1.2	44.62	5.60	def
AXIALL°														
2012	\$3,326	\$121	3.6%	\$1,541	\$344	35.2%	2.4%	ne	\$3.47	\$0.24	0.7%	\$47.17	\$20.24	9.7
2012	Ψ3,320	ΨΙΖΙ	5.0 /0	Ψ1,J41	Ψ044	55.270	2.470	110	ΨΟ.Ψ/	Ψ0.Δ4	0.7 70	ψ-7.17	Ψ20.24	5.7

a Fiscal year ends on Sept. 30. b Acquired International Specialty Products in 2011. c Formerly Georgia Gulf. def = deficit. ne = nonexistent.

1,384

1,442

1,570

228

221

1.8

1.5

43

145

25.4

19.5

83.3

2.1

1.6

ne

ne

1.66

ne

40.59

24.75

50.00

12.19

11.11

5.50

15.9

14.7

3.0

					STOCK-		CAPITAL SPEND-	R&D				STOCK	PRICE	
YEAR	NET SALES	EARNINGS	PROFIT MARGIN	TOTAL ASSETS	HOLD- ERS' EQUITY	RETURN ON EQUITY	ING, % OF SALES	SPEND- ING, % OF SALES	EARN- INGS PER SHARE	\$ PER SHARE	, DIVIDEND YIELD, % OF PRICE	RANGE, PI	ER SHARE LOW	PRICE/ EARNINGS RATIO
(Monetary figures	s, except per	-share amou	nts, are in mi	llions of dollar	rs)									
CABOTa														
2012	\$3,300	\$388	11.8%	\$3,589	\$1,129	34.4%	8.5%	2.2%	\$6.07	\$0.76	2.3%	\$44.97	\$22.45	5.6
2011	3,102	236	7.6	3,081	1,576	15.0	7.4	2.1	3.62	0.72	2.0	48.77	23.75	10.0
2010	2,893	154	5.3	2,843	1,374	11.2	3.7	2.4	2.37	0.72	2.6	34.00	20.95	11.6
2009	2,243	-77	-3.4	2,637	1,095	-7.0	4.7	3.2	-1.23	0.72	3.6	32.00	7.97	def
CELANESE														
2012	\$6,418	\$605	9.4%	\$8,058	\$788	76.8%	5.6%	1.6%	\$3.82	\$0.27	0.6%	\$52.59	\$32.77	11.2
2011	6,763	607	9.0	7,561	384	158.1	5.2	1.4	3.89	0.22	0.5	58.68	29.43	11.3
2010	5,918	377	6.4	7,255	-100	-377.0	3.4	1.2	2.42	0.18	0.6	41.74	23.47	13.5
2009	5,082	484	9.5	7,318	-508	-95.3	3.5	1.5	3.30	0.16	0.8	33.41	7.44	6.2
CF INDUSTRIE														
2012	\$6,104	\$1,849	30.3%	\$8,102	\$4,217	43.8%	8.6%	ne	\$28.94	\$1.60	0.8%	\$227.99		6.5
2011	6,098	1,539	25.2	6,910	2,869	53.6	4.1	ne	22.18	1.00	0.6	192.70	115.34	6.9
2010	3,965	441	11.1	8,756	2,348	18.8	6.5	ne	5.40	0.40	0.3	138.74	92.41	21.4
2009	2,608	449	17.2	2,494	1,728	26.0	9.0	ne	7.54	0.40	0.6	95.13	42.30	9.1
CYTEC INDUST														
2012	\$1,708	\$188	11.0%	\$3,213	\$1,095	17.2%	8.5%	3.1%	\$4.08	\$0.50	0.9%	\$70.86		14.3
2011	3,073	208	6.8	2,558	708	29.4	3.8	2.8	4.29	0.50	1.1	59.19	32.49	10.7
2010	2,748	175	6.4	2,641	704	24.9	4.2	2.6	3.49	0.05	0.1	60.85	36.42	13.9
2009	2,790	123	4.4	2,458	462	26.6	7.0	2.7	-0.05	0.16	0.6	39.20	10.58	def
DOW CHEMICA														
2012	\$56,786	\$842	1.5%	\$52,155	\$4,417	19.0%	4.6%	3.0%	\$0.71	\$1.21	3.8%	\$36.08	\$27.45	44.7
2011	59,985	2,402	4.0	51,233	5,300	45.3	4.5	2.7	2.06	0.90	2.9	42.23	20.61	15.3
2010	53,674	1,970	3.7	51,091	4,145	47.5	4.0	3.1	1.75	0.60	2.1	34.50	22.42	16.3
2009	44,875	676	1.5	46,857	2,044	33.1	3.1	3.3	0.32	0.60	3.4	29.50	5.89	55.3
DUPONT														
2012	\$34,812	\$2,788	8.0%	\$39,994	\$437	638.0%	5.2%	5.9%	\$2.98	\$1.70	3.6%	\$53.98	\$41.67	16.0
2011	37,961	3,510	9.2	37,666	-2,233	-157.2	4.9	5.2	3.73	1.64	3.5	57.00	37.10	12.6
2010	31,505	3,054	9.7	35,089	3,957	77.2	4.8	5.2	3.32	1.64	4.0	50.17	31.88	12.4
2009	26,109	1,755	6.7	33,496	2,526	69.5	5.0	5.3	1.92	1.64	6.3	35.62	16.05	13.5
EASTMAN CHE	EMICALg													
2012	\$8,102	\$437	5.4%	\$7,126	-\$1,465	-29.8%	5.7%	2.4%	\$3.00	\$1.08	2.0%	\$68.22		17.9
2011	7,178	696	9.7	5,778	1,464	47.5	6.4	2.2	4.98	0.99	2.3	55.36	32.45	8.8
2010	5,842	438	7.5	5,611	1,252	35.0	4.2	2.6	6.07	1.79	2.6	84.57	51.10	11.2
2009	5,047	136	2.7	5,200	1,198	11.4	6.1	2.7	1.85	1.76	4.4	61.95	17.76	21.5
FMC CORP.														
2012	\$3,748	\$416	11.1%	\$3,864	\$1,045	39.8%	5.5%	3.1%	\$3.01	\$0.41	0.9%	\$59.41	\$42.93	17.0
2011	3,378	366	10.8	3,330	891	41.1	5.6	3.1	2.57	0.30	0.8	46.50	31.91	15.3
2010	3,117	173	5.6	3,126	995	17.4	4.6	3.2	1.19	0.25	0.8	41.02	25.38	27.9
2009	2,826	239	8.5	2,927	924	25.9	5.7	3.3	1.69	0.25	1.1	29.07	17.45	13.8
H.B. FULLER ^h														
2012	\$1,886	\$126	6.7%	\$1,299	\$292	43.2%	1.9%	1.1%	\$2.53	\$0.33	1.2%	\$34.52	\$21.10	11.0
2011	1,558	89	5.7	986	464	19.2	2.3	1.3	1.82	0.30	1.4	25.41	16.92	11.6
2010	1,356	71	5.2	913	394	18.0	2.7	1.4	1.46	0.28	1.3	24.66	18.47	14.8
2009	1,235	84	6.8	856	346	24.3	1.9	1.4	1.70	0.27	1.6	23.06	9.70	9.6
W.R. GRACE														
2012	\$3,156	\$94	3.0%	\$4,810	\$38	247.4%	4.4%	2.1%	\$1.26	ne	ne	\$68.86	\$45.39	45.3
2011	3,212	269	8.4	4,349	19	1,393.8	4.4	2.1	3.66	ne	ne	52.50		11.3
2010	2,675	207	7.7	4,146	-194	-106.7	4.2	2.2	2.85	ne	ne	36.27	19.63	9.8
2009	2,825	81	2.9	3,850	-418	-19.4	3.3	2.5	0.98	ne	ne	26.17	4.07	15.4

a Fiscal year ends on Sept. 30. d Acquired Terra Industries in 2010. e Acquired Rohm and Haas in 2009. f Acquired Danisco in 2011. g Acquired Solutia in 2012. h Fiscal year ends on Dec. 1. def = deficit. ne = nonexistent.

FINANCES

With the standard color With the standar	YEAR			PROFIT MARGIN	TOTAL ASSETS	STOCK- HOLD- ERS' EQUITY	RETURN ON EQUITY	CAPITAL SPEND- ING, % OF SALES	R&D SPEND- ING, % OF SALES	EARN- INGS PER SHARE	DIVIDEND \$ PER SHARE	, DIVIDEND YIELD, % OF PRICE	STOCK RANGE, PI HIGH	ER SHARE	PRICE/ EARNINGS RATIO
STATE STAT	(Monetary figur	es, except per	-snare amour	its, are in mi	llions of dollar	·S)									
2011 11,221 247 22 8,543 1,662 14,9 2.9 1,5 1,04 0,40 2.7 21,52 8,14 14,3 2009 7,665 125 1.6 8,522 1,771 71 2.5 1.9 0,49 0,40 5,9 11,57 2.04 13,9															
Decomposition Page		\$10,964	\$363		\$8,699				1.4%	\$1.53	\$0.40			\$9.75	8.8
NTERNATIONAL FLAVORS \$FRAGRANCES 1771 1 25 19 0.49 0.40 5.9 11.57 2.04 13.9				2.2	8,543		14.9		1.5	1.04	0.40				
NTERNATIONAL FLAVORS & FRAGRANCES 2012 \$2.547 \$9.04 \$2.547 \$5.50 46.2% 4.5% 8.3% \$3.11 \$1.30 \$2.2% \$67.79 \$52.05 19.3 \$1.011 \$2.188 \$267 96 \$2.287 3.99 66.9 46.6 79 3.30 116 2.0 66.29 512.05 19.3 \$2.000 \$2.236 196 8.4 1924 48 408.3 2.9 8.3 2.46 1.00 3.0 4.185 25.30 13.5 \$2.000 2.236 196 8.4 1924 48 408.3 2.9 8.3 2.46 1.00 3.0 4.185 25.30 13.5 \$2.000 2.236 196 8.4 1924 48 408.3 2.9 8.3 2.46 1.00 3.0 4.185 25.30 13.5 \$2.000 2.236 196 8.4 1924 48 408.3 2.9 8.3 2.46 1.00 3.0 4.185 25.30 13.5 \$2.000 2.236 196 8.4 1924 48 408.3 2.9 8.3 2.46 1.00 3.0 4.185 25.25 13.5 \$2.000 2.236 196 8.4 1924 48 408.3 2.9 3.3 2.46 1.00 3.0 4.185 25.25 3.5 \$2.000 2.201 2.238 2.247 2.248 3.15 2.248 2.248 3.15 2.248 3.15 2.248 3.15 2.248 3.15 2.248 3.15 2.248 3.15 2.248 3.15 2.248 3.15 2.201 2.248 3.15 2.201 2.248 3.15 2.201 2.248 3.15 3.15 3.15 3.15 3.16 3.18 3.0 3.16 3.1					8,620	1,756					0.40		16.89		
2012 \$2,82 \$254 \$9,0% \$2,547 \$5590 \$46,2% \$4,5% \$3.3% \$3.11 \$1.30 \$2,9% \$567,9 \$55,00 \$1.28 \$2010 \$2.67 \$3.09 \$6.97 \$4.6 \$79 \$3.00 \$1.10 \$2.56 \$1.00 \$	2009	7,665	125	1.6	8,532	1,771	7.1	2.5	1.9	0.49	0.40	5.9	11.57	2.04	13.9
2011	INTERNATIO	NAL FLAVO	RS & FRAG	RANCES											
2010	2012	\$2,821	\$254	9.0%	\$2,547	\$550	46.2%	4.5%	8.3%	\$3.11	\$1.30	2.2%	\$67.79	\$52.05	19.3
NEWMARKET CORP.	2011	2,788	267	9.6	2,257	399	66.9	4.6	7.9	3.30	1.16	2.0	66.29	51.20	17.8
NEWMARKET CORP.	2010	2.623	264	10.1	2.158	289	91.3	4.0	8.3	3.29	1.04	2.2	56.10	39.28	14.5
2012 \$2,212 \$240 10.8% \$1,227 \$371 64.7% 1.8% 5.3% \$1.85 \$2.80.0 1.2% \$283.48 \$172.50 12.8 2011 2.138 2.07 9.7 1.153 512 40.4 2.5 4.9 151.0 2.3 15 2.04.92 11.83 10.2 2010 1.786 177 9.9 1.016 445 39.8 1.9 5.1 12.12 1.57 1.5 131.6 81.80 8.8 2009 1.530 162 10.6 10.25 2.75 58.9 2.5 5.6 10.65 10.8 1.5 121.13 2.782 70. POLYONE 2012 \$2.993 \$72 2.4% \$1.382 \$115 62.6% 1.9% 1.4% \$0.81 \$0.20 1.2% \$21.00 \$115.8 2.01 2011 2.864 173 60 1.341 1.51 1.161 6.19 1.3 1.87 0.16 1.2 1.65 1.9 5.3 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.2 0.0 1.2 0.2 0.0 1.2 0.0 1.2 0.2 0.2 0.0 1.2 0.0 1.2 0.2 0.0 1.2 0															
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2011	PPG INDUST	RIES													
PRAXAIR	2012	\$15,200	\$941	6.2%	\$12,032	\$476	197.7%	2.7%	3.0%	\$6.13	\$2.34	2.1%	\$136.79	\$83.27	17.9
PRAXAIR	2011	14.885	1.095	7.4	10.597	-339	-323.0	2.6	2.9	6.96	2.26	2.8	97.81	66.43	11.8
PRAXAIR	2010	13.423	769	5.7	10.988	-154	-499.4	2.5	3.0	4.67	2.18	3.1	84.59	56.96	15.2
2012 \$11,224 \$1,692 15.1% \$15,410 \$3,741 45.2% 19.4% 0.9% \$5.67 \$2.20 2.0% \$116.92 \$101.93 19.3 2011 11.252 1.672 14.9 13.817 3.258 51.3 16.0 0.8 5.53 2.00 2.0 111.74 88.64 18.1 12.009 8.956 1.254 14.0 12.105 3.436 36.5 15.1 0.8 3.90 1.80 2.3 84.97 53.42 17.3 2009 8.956 1.254 14.0 12.105 3.436 36.5 15.1 0.8 4.01 1.60 2.3 84.97 53.42 17.3 2009 2.00 2.	2009	12,239	336	2.7	10,040	-278	-120.9	2.0	3.3	2.03	2.13	4.7	62.31		22.3
2012 \$11,224 \$1,692 15.1% \$15,410 \$3,741 45.2% 19.4% 0.9% \$5.67 \$2.20 2.0% \$116.92 \$101.93 19.3 2011 11.252 1.672 14.9 13.817 3.258 51.3 16.0 0.8 5.53 2.00 2.0 111.74 88.64 18.1 12.009 8.956 1.254 14.0 12.105 3.436 36.5 15.1 0.8 3.90 1.80 2.3 84.97 53.42 17.3 2009 8.956 1.254 14.0 12.105 3.436 36.5 15.1 0.8 4.01 1.60 2.3 84.97 53.42 17.3 2009 2.00 2.	DDAYAID														
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2012 \$2,623 \$460 17.5% \$2,847 \$1,573 29.2% 4.3% 2.6% \$3.80 \$0.80 1.2% \$74.94 \$61.68 18.0 2011 2,505 457 18.2 2,656 1,574 29.0 4.2 2.9 3.78 0.64 1.0 76.16 56.18 17.5 2010 2,271 384 16.9 2,432 1,394 27.5 4.4 2.9 3.17 0.64 1.1 67.76 46.50 18.0 2009 2,148 347 16.2 2,184 1,156 30.0 5.6 2.9 2.80 0.58 1.3 56.29 31.45 15.7 STEPAN 2012 \$1,804 \$79 4.4% \$970 \$465 17.0% 4.6% 1.6% \$3.71 \$0.58 1.2% \$55.90 \$38.05 12.7 2011 1,843 73 4.0 882 387 18.9 4.5 2.2 6.88 1.06 1.4 83.65 62.65 10.6 2010 1,431 <td>CICMA ALDE</td> <td>ICH .</td> <td></td>	CICMA ALDE	ICH .													
2011			\$460	17.5%	\$2 847	\$1 573	29.2%	4 3%	2.6%	\$3.80	\$0.80	1.2%	\$74.94	\$61.68	18.0
2010 2,271 384 16.9 2,432 1,394 27.5 4.4 2.9 3.17 0.64 1.1 67.76 46.50 18.0 2009 2,148 347 16.2 2,184 1,156 30.0 5.6 2.9 2.80 0.58 1.3 56.29 31.45 15.7 STEPAN 2012 \$1,804 \$79 4.4% \$970 \$465 17.0% 4.6% 1.6% \$3.71 \$0.58 1.2% \$55.90 \$38.05 12.7 2011 1,843 73 4.0 882 387 18.9 4.5 2.2 6.88 1.06 1.4 83.65 62.65 10.6 2010 1,431 65 4.5 799 338 19.2 5.2 2.7 6.36 0.98 1.6 79.75 45.99 9.9 2009 1,276 63 4.9 625 281 22.4 3.4 2.8 5.84 0.90 2.0 67.98 22.80 7.8															
STEPAN 2012 \$1,804 \$79 \$4.4% \$970 \$465 \$17.0% \$4.6% \$1.6% \$3.71 \$0.58 \$1.2% \$55.90 \$38.05 \$12.7 2011 \$1,804 \$79 \$4.4% \$970 \$465 \$17.0% \$4.6% \$1.6% \$3.71 \$0.58 \$1.2% \$55.90 \$38.05 \$12.7 2011 \$1,843 73 \$4.0 882 387 \$18.9 \$4.5 \$2.2 \$6.88 \$1.06 \$1.4 \$3.65 \$6.265 \$10.6 2010 \$1,431 \$65 \$4.5 \$799 \$338 \$19.2 \$5.2 \$2.7 \$6.36 \$0.98 \$1.6 \$79.75 \$45.99 \$9.9 2009 \$1,276 \$63 \$4.9 \$625 \$281 \$22.4 \$3.4 \$2.8 \$5.84 \$0.90 \$2.0 \$67.98 \$22.80 \$7.8															
2012 \$1,804 \$79 4.4% \$970 \$465 17.0% 4.6% 1.6% \$3.71 \$0.58 1.2% \$55.90 \$38.05 12.7 2011 1,843 73 4.0 882 387 18.9 4.5 2.2 6.88 1.06 1.4 83.65 62.65 10.6 2010 1,431 65 4.5 799 338 19.2 5.2 2.7 6.36 0.98 1.6 79.75 45.99 9.9 2009 1,276 63 4.9 625 281 22.4 3.4 2.8 5.84 0.90 2.0 67.98 22.80 7.8															
2012 \$1,804 \$79 4.4% \$970 \$465 17.0% 4.6% 1.6% \$3.71 \$0.58 1.2% \$55.90 \$38.05 12.7 2011 1,843 73 4.0 882 387 18.9 4.5 2.2 6.88 1.06 1.4 83.65 62.65 10.6 2010 1,431 65 4.5 799 338 19.2 5.2 2.7 6.36 0.98 1.6 79.75 45.99 9.9 2009 1,276 63 4.9 625 281 22.4 3.4 2.8 5.84 0.90 2.0 67.98 22.80 7.8	0750/::														
2011 1,843 73 4.0 882 387 18.9 4.5 2.2 6.88 1.06 1.4 83.65 62.65 10.6 2010 1,431 65 4.5 799 338 19.2 5.2 2.7 6.36 0.98 1.6 79.75 45.99 9.9 2009 1,276 63 4.9 625 281 22.4 3.4 2.8 5.84 0.90 2.0 67.98 22.80 7.8		\$1.204	\$70	1 10%	\$070	\$165	17∩04	1 60/-	1 60/-	\$3.71	\$0.58	1 20%	\$55.00	\$38 OF	12.7
2010 1,431 65 4.5 799 338 19.2 5.2 2.7 6.36 0.98 1.6 79.75 45.99 9.9 2009 1,276 63 4.9 625 281 22.4 3.4 2.8 5.84 0.90 2.0 67.98 22.80 7.8															
2009 1,276 63 4.9 625 281 22.4 3.4 2.8 5.84 0.90 2.0 67.98 22.80 7.8															
			63	4.9	625	281		5.4	۷.۵	2.84	0.90	2.0	07.98	22.80	/.ŏ

CAL 3,571 ,620 3,171 ,326	\$386 259 221 53	10.8% 7.2 7.0 2.3 HARMACI 15.0% 12.2 13.2	\$3,412 3,266 2,954 2,446 \$51,461	\$1,872 1,756 1,505 1,285	20.6% 14.7 14.7 4.1	SALES	ne ne ne	\$5.78 3.89 3.35	\$4.27 0.27	OF PRICE	HIGH	LOW \$40.86	RATIO
ccal 8,571 .620 .33,171 .326 ccal 8,874 8,885 1,666 0,765	\$386 259 221 53 & BIOPF \$5,963 4,728 4,626	10.8% 7.2 7.0 2.3 HARMACI 15.0% 12.2 13.2	\$3,412 3,266 2,954 2,446 EUTICALS	\$1,872 1,756 1,505 1,285	20.6% 14.7 14.7	10.8% 4.9 2.6	ne ne ne	\$5.78 3.89	\$4.27 0.27	7.1%	\$80.09		
8,571 ,620 3,171 ,326 (ALS) (RIES) 9,874 3,851 5,166 0,765	259 221 53 & BIOPH \$5,963 4,728 4,626	7.2 7.0 2.3 HARMACI 15.0% 12.2 13.2	3,266 2,954 2,446 EUTICALS \$51,461	1,756 1,505 1,285	14.7 14.7	4.9 2.6	ne ne	3.89	0.27			\$40.86	
8,571 ,620 3,171 ,326 (ALS) (RIES) 9,874 3,851 5,166 0,765	259 221 53 & BIOPH \$5,963 4,728 4,626	7.2 7.0 2.3 HARMACI 15.0% 12.2 13.2	3,266 2,954 2,446 EUTICALS \$51,461	1,756 1,505 1,285	14.7 14.7	4.9 2.6	ne ne	3.89	0.27			\$40.86	
,620 3,171 ,326 ALS ORIES 0,874 3,851 5,166 0,765	259 221 53 & BIOPH \$5,963 4,728 4,626	7.2 7.0 2.3 HARMACI 15.0% 12.2 13.2	3,266 2,954 2,446 EUTICALS \$51,461	1,756 1,505 1,285	14.7 14.7	4.9 2.6	ne ne	3.89	0.27			\$40.00	10.5
3,171 ,326 ALS DRIES 0,874 3,851 5,166 0,765	221 53 & BIOPF \$5,963 4,728 4,626	7.0 2.3 HARMACI 15.0% 12.2 13.2	2,954 2,446 EUTICALS \$51,461	1,505 1,285	14.7	2.6	ne			0,		32.31	12.7
,326 PRIES 9,874 3,851 5,166 0,765 ,639 ,295	\$5,963 4,728 4,626	2.3 IARMACI 15.0% 12.2 13.2	2,446 EUTICALS \$51,461	1,285					0.24	0.8	43.59	17.56	9.1
0RIES 0,874 3,851 5,166 0,765 ,639 ,295	\$5,963 4,728 4,626	15.0% 12.2 13.2	\$51,461	•			ne	0.80	0.24	1.1	28.18	10.40	24.1
9,874 3,851 5,166 9,765 ,639 ,295	4,728 4,626	12.2 13.2											
3,851 5,166 5,765 ,639 ,295	4,728 4,626	12.2 13.2											
,639 ,295	4,626	13.2	A A E 74	\$11,039	54.0%	4.5%	10.8%	\$3.76	\$1.67	2.6%	\$72.47	\$53.96	16.8
,639			44,571	8,820	53.6	3.8	10.6	3.03	1.92	3.8	56.44	45.07	16.8
,639	5,746		44,643	6,546	70.7	2.9	10.6	2.98	1.76	3.2	56.79	52.86	18.4
,295		18.7	32,924	3,407	168.7	3.5	8.9	3.69	1.60	3.2	57.39	41.27	13.4
,295													
,295	\$4,345	26.1%	\$41,636	\$6,398	67.9%	4.1%	20.3%	\$5.61	\$1.44	1.9%	\$90.17	\$63.76	13.7
	3,683	24.1	37,121	7,279	50.6	3.7	20.7	4.07	0.92	1.6	64.74	48.27	13.9
	4,627	31.6	29,922	10,380	44.6	4.0	19.7	4.82	ne	ne	61.14	50.36	11.6
,351	4,605	32.1	25,727	11,332	40.6	3.7	20.0	4.51	ne	ne	64.41	45.11	12.1
,166	\$1,380	33.1%	\$8,929	\$5,762	24.0%	6.1%	32.0%	\$5.80	ne	ne	\$157.18	\$111.44	23.2
,836	1,267	33.0	7,903	5,281	24.0	5.4	31.8	5.09	ne	ne	120.66	64.28	18.2
,470 3,153	1,005 977	29.0 31.0	5,173 7,413	2,477 5,123	40.6 19.1	5.0 5.3	36.0 40.7	3.98	ne ne	ne ne	68.60 54.00	45.96 41.75	14.4 14.3
,133	311	31.0	7,413	5,125	13.1	5.5	40.7		He	116		41.75	
UIBB	3												
7,621	\$1,960	11.1%	\$28,262	\$6,003	32.7%	3.1%	22.2%	\$1.17	\$1.37	4.1%	\$36.09	\$30.81	28.6
,244	3,709	17.5	27,384	10,281	36.1	1.7	18.1	2.18	1.33	4.4	35.29	24.97	13.8
,484	3,102	15.9	25,843	10,480	29.6	2.2	18.3	1.80	1.28	5.1	27.93	22.44	14.0
,808,	3,239	17.2	22,925	6,702	48.3	3.9	19.4	1.63	1.25	5.8	25.56	17.51	13.2
										-			
602	¢4.000	10 10/	¢24.200	¢14 774	2770/	4.00/	22.40/	¢2.67	¢1.06	2.00/	ΦE2 01	¢ 4E 01	12.6
													13.6 9.7
													7.6
													8.6
,000	.,025	10.0	20,010	7,001		0.0			1.00		10.07		
ON													
7,224	\$10,853	16.1%	\$98,923	\$42,402	25.6%	4.4%	11.4%	\$3.94	\$2.40	3.6%	\$72.74	\$61.71	17.1
,030	9,672	14.9	97,506	40,942	23.6	4.4	11.6	3.54	2.25	3.6	68.05	57.50	17.7
			87,614			3.9						57.02	12.7
,897	12,266	19.8	63,497	19,403	63.2	3.8	11.3	4.40	1.93	3.5	65.41	46.25	12.7
										-			
7267	\$6.168	13.0%	\$93 998	\$43 320	14 2%	⊿ 10%	173%	\$2.03	\$1.68	4 0%	\$48.00	\$36.91	20.9
													16.5
			·										129.0
7,428	13,024	47.5	52,512	49,569	26.3	5.3	21.3	5.65	0.26	0.9	38.42	16.32	4.8
													18.7
													15.2
													16.7
,009	8,035	17.3	102,558	48,070	18.0	2.4	15./	1.23	0.80	5.2	18.99	11.62	12.4
7 ,	.603 .287 .076 .836 .836 .00N .2224 .030 .587 .897 .7267 .047 .987 .428	.603 \$4,089 .287 4,348 .076 5,069 .836 4,329 .000 .224 \$10,853 .030 9,672 .587 13,334 .897 12,266 .047 6,272 .987 982 .428 13,024 .986 \$14,570 .425 10,009 .809 8,257 .009 8,635	.603 \$4,089 18.1% .287 4,348 17.9 .076 5,069 22.0 .836 4,329 19.8 .00N .224 \$10,853 16.1% .030 9.672 14.9 .587 13,334 21.7 .897 12,266 19.8 .047 6,272 13.1 .987 982 2.1 .428 13,024 47.5 .986 \$14,570 24.7% .425 10,009 14.8 .809 8,257 12.2 .009 8,635 17.3	.603 \$4,089 18.1% \$34,399 .287 4,348 17.9 28,592 .076 5,069 22.0 26,182 .836 4,329 19.8 25,540 .00N .0224 \$10,853 16.1% \$98,923 .030 9,672 14.9 97,506 .587 13,334 21.7 87,614 .897 12,266 19.8 63,497 .030 9,672 13.1 92,973 .030 9,672 13.1 92,973 .047 6,272 13.1 92,973 .048 13,024 47.5 52,512 .049 8,257 12.2 93,509 .009 8,635 17.3 102,558	.603 \$4,089 18.1% \$34,399 \$14,774 .287 4,348 17.9 28,592 8,408 .076 5,069 22.0 26,182 7,594 .836 4,329 19.8 25,540 7,604 .60N .224 \$10,853 16.1% \$98,923 \$42,402 .030 9,672 14.9 97,506 40,942 .587 13,334 21.7 87,614 24,569 .897 12,266 19.8 63,497 19,403 .7267 \$6,168 13.0% \$93,998 \$43,329 .047 6,272 13.1 92,973 42,788 .987 982 2.1 53,947 41,989 .428 13,024 47.5 52,512 49,569 .986 \$14,570 24.7% \$141,126 \$37,096 .425 10,009 14.8 142,935 37,554 .809 8,257 12.2 93,509 44,318 .009 8,635 17.3 102,558 48,070	.603 \$4,089 18.1% \$34,399 \$14,774 27.7% .287 4,348 17.9 28.592 8,408 51.7 .076 5,069 22.0 26.182 7.594 66.8 .836 4,329 19.8 25,540 7,604 56.9 .00N .224 \$10,853 16.1% \$98,923 \$42,402 25.6% .030 9.672 14.9 97,506 40,942 23.6 .587 13,334 21.7 87,614 24,569 54.3 .897 12,266 19.8 63,497 19,403 63.2 .7267 \$6,168 13.0% \$93,998 \$43,329 14.2% .047 6,272 13.1 92,973 42,788 14.7 .987 982 2.1 53,947 41,998 2.3 .7428 13,024 47.5 52,512 49,569 26.3 .986 \$14,570 24.7% \$141,126 \$37,096 39.3% .7425 10,009 14.8 142,935 37,554 26.7 .809 8,257 12.2 93,509 44,318 18.6 .009 8,635 17.3 102,558 48,070 18.0	.603 \$4,089 18.1% \$34,399 \$14,774 27.7% 4.0% .287 4,348 17.9 28,592 8,408 51.7 2.8 .076 5,069 22.0 26,182 7,594 66.8 3.0 .836 4,329 19.8 25,540 7,604 56.9 3.5	.603 \$4,089 18.1% \$34,399 \$14,774 27.7% 4.0% 23.4% .287 4,348 17.9 28,592 8,408 51.7 2.8 20.7 .076 5,069 22.0 26,182 7.594 66.8 3.0 21.2 .836 4,329 19.8 25,540 7,604 56.9 3.5 19.8	.603 \$4,089 18.1% \$34,399 \$14,774 27.7% 4.0% 23.4% \$3.67 .287 4,348 17.9 28,592 8,408 51.7 2.8 20.7 3.90 .076 5,069 22.0 26,182 7,594 66.8 3.0 21.2 4,58 .836 4,329 19.8 25,540 7,604 56.9 3.5 19.8 3.94 .000 .000 .000 .000 .000 .000 .000	\$\begin{array}{c c c c c c c c c c c c c c c c c c c	.603 \$4,089 18.1% \$34,399 \$14,774 27.7% 4.0% 23.4% \$3.67 \$1.96 3.9% .287 4.348 17.9 28,592 8,408 51.7 2.8 20.7 3.90 1.96 5.2 .0076 5,069 22.0 26,182 7,594 66.8 3.0 21.2 4.58 1.96 5.6 .836 4,329 19.8 25,540 7,604 56.9 3.5 19.8 3.94 1.96 5.8	\$\begin{array}{c c c c c c c c c c c c c c c c c c c	

EUROPE COMPANY RESULTS

Despite the sluggish European economy, revenues increased for most firms

CAPITAL

	NET		PROFIT	TOTAL	HOLD- ERS'	RETURN ON	ING, % OF	R&D SPEND- ING. % OF			DIVIDEND	STOCK PRICE PER SHA		PRICE/ EARNINGS
YEAR	SALES	EARNINGS	MARGIN	ASSETS	EQUITY	EQUITY	SALES	SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary figures except per-share amounts are in millions of dollars)														

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

CHEMICALS

BELGIUM														
Solvaya														
2012	\$15,989	\$751	4.7%	\$20,073	\$4,988	15.1%	6.3%	2.1%	\$9.08	\$4.11	3.7%	€109.80	€62.35	12.2
2011	10,427	318	3.0	19,459	3,020	10.5	7.4	1.9	3.90	2.96	2.7	111.60	61.50	28.6
2010	7,662	2,284	29.8	17,415	8,395	27.2	4.8	2.1	28.03	2.96	3.1	81.90	67.80	3.4
2009	10,910	663	6.1	15,826	6,329	10.5	5.4	6.5	8.08	2.83	3.7	77.80	42.00	9.5
FINLAND														
Kemira ^b														
2012	\$2,882	\$22	0.7%	\$2,529	\$1,019	2.1%	6.0%	1.9%	\$0.14	\$0.68	5.3%	€12.00	€8.00	90.9
2011	2,838	174	6.1	2,576	897	19.4	4.5	1.8	1.14	0.68	5.2	12.67	7.80	11.5
2010	2,779	143	5.1	2,393	878	16.2	3.5	1.9	0.94	0.62	4.6	13.19	7.89	14.4
2009	3,215	104	3.2	2,644	654	15.9	3.2	1.9	0.78	0.35	3.5	11.63	3.87	12.7
FRANCE														
Air Liquide		Φ0.000	10.50/	AOF FF1	AC 000	20.00/	10.10/	1.70/	AC. C.E.	AD 01	0.70/	000 50	00410	17.0
2012	\$19,707	\$2,069	10.5%	\$25,551	\$6,830	30.3%	13.1%	1.7%	\$6.65	\$3.21	2.7%	€99.52	€84.12	17.8
2011	18,589	1,974	10.6	24,337	6,171	32.0	12.1	1.3	6.96	3.21	2.8	100.65	80.90	16.8
2010	17,343	1,805	10.4	22,472	5,210	34.6	10.7	1.3	6.39	3.02	2.7	99.15	75.42	17.6
2009	15,399	1,582	10.3	20,505	3,951	40.0	11.8	1.3	6.04	2.89	3.2	84.40	55.03	14.8
Arkema 2012	<u>Фо 222</u>	ф <u>ло</u> л	3.4%	<u></u> ተር	¢Ω 11Ω	13.4%	6.8%	2.3%	\$4.55	<u></u>	2.8%	€84.26	€46.60	10.5
	\$8,223	\$283		\$6,263	\$2,110					\$2.31				18.5
2011	7,586	-19	-0.3	5,857	1,852	-1.0	7.2	2.2	-0.40	1.67	2.2	78.50	37.40	def
2010	7,593 5.714	-221	5.9	5,560	2,245 1.713	19.9 -12.9	5.3	2.4 3.1	7.29 -3.66	1.29 0.77	2.5	55.30	23.71 9.94	7.0
2009	5,/14	-221	-3.9	4,454	1,/13	-12.9	6.8	3.1	-3.00	0.77	3.0	29.94	9.94	def
GERMANY														
BASFC														
2012	\$92,747	\$6,196	6.7%	\$64,916	\$17,205	36.0%	5.6%	2.4%	\$6.75	\$3.34	4.2%	€73.09	€51.89	11.9
2012	94,506	7,957	8.4	63,335	17,315	46.0	4.6	2.470	8.65	3.21	4.2 70	69.40	43.66	8.4
2010	82.131	5,860	7.1	60,625	13,388	43.8	4.0	2.3	6.38	2.83	4.3	61.73	39.43	10.2
2009	65.183	1.813	2.8	52,487	10,492	17.3	4.9	2.8	1.98	2.19	5.3	43.95	20.71	21.0
2003	00,100	1,010	2.0	32,407	10,732	17.5	7.5	2.0	1.50	2.13	0.0	+5.55	20.71	21.0
Bayer														
2012	\$51.125	\$3,145	6.2%	\$54.061	\$11.927	26.4%	5.1%	7.6%	\$3.81	\$2.44	3.1%	€72.95	€47.97	20.4
2011	46,969	3,176	6.8	56,069	13,001	24.4	4.4	8.0	3.84	2.12	3.4	59.35	36.82	16.1
2010	45,118	1,673	3.7	54,653	12,722	13.1	4.3	8.7	2.02	1.93	2.9	58.62	44.12	32.7
2009	40,077	1.747	4.4	54,440	13,176	13.3	5.1	8.8	2.19	1.80	3.1	56.45	32.69	26.2
	- , -	,		- ,	-,									
Lanxess														
2012	\$11,693	\$661	5.7%	\$9,167	\$2,496	26.5%	7.7%	2.1%	\$7.95	\$1.29	1.8%	€68.90	€40.17	8.8
2011	11,283	651	5.8	8,364	2,187	29.7	7.7	1.6	7.82	1.09	1.8	64.08	31.34	7.8
2010	9,155	487	5.3	6,995	1,974	24.7	7.0	1.6	5.86	0.90	1.6	59.49	25.89	9.4
2009	6,503	51	0.8	6,265	1,606	3.2	5.4	2.0	0.62	0.64	2.6	27.64	11.06	40.3
Linde														
2012	\$19,648	\$1,607	8.2%	\$29,388	\$3,904	41.2%	12.8%	0.7%	\$10.15	\$3.47	2.2%	€136.15	€114.20	15.9
2011	17,728	1,510	8.5	22,820	1,255	120.3	9.9	0.7	8.77	3.21	2.3	125.80	96.16	16.3
2010	16,546	1,292	7.8	20,037		1,763.2	10.1	0.7	7.54	2.83	2.3	115.30	76.70	16.4
2009	14,416	760	5.3	17,701	-1,836	-41.4	10.1	0.8	4.47	2.31	2.6	87.95	49.66	19.8

NOTE: Monetary statistics, except stock prices, for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 0.7777 euros, 0.9377 Swiss francs, and 0.6308 pounds sterling. a Sold its pharmaceuticals unit and changed its accounting procedures in 2010; bought Rhodia in 2011. b Spun off Tikkurila in 2010. c Acquired Ciba in 2009. def = deficit.

	NET		PROFIT	TOTAL	STOCK- HOLD- ERS'	RETURN ON	CAPITAL SPEND- ING, % OF	R&D SPEND- ING, % OF			, DIVIDEND YIELD, %	STOCK PRIC		PRICE/ EARNINGS
YEAR		EARNINGS		ASSETS	EQUITY	EQUITY	SALES	SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary fig	gures, except	per-share a	mounts, are i	n millions of o	dollars)									
Merck ^d														
2012	\$13,811	\$729	5.3%	\$13,757		-107.0%	3.1%	14.1%	\$3.36	\$2.19	1.9%	€106.55	€72.37	34.3
2011	12,737	794	6.2	13,316	-1,634	-48.6	3.7	15.3	3.65	1.93	2.2	78.47	56.82	23.8
2010	11,481	813	7.1	12,735	-2,716	-29.9	4.4	15.6	3.74	1.61	1.9	72.28	57.62	22.3
2009	9,487	471	5.0	11,719	2,463	19.1	6.3	18.2	2.16	1.29	1.5	74.37	57.24	39.2
WI														
Wacker 2012	\$5,960	\$137	2.3%	\$8,106	\$3,333	4.1%	20.3%	3.8%	\$2.92	\$0.77	0.9%	€91.00	€40.87	29.0
2012	6,313	453	7.2	7,981	3,343	13.6	15.9	3.5	9.13	2.83	1.9	172.80	57.49	16.2
2010	6,106	631	10.3	7,981	3,104	20.3	13.0	3.5	12.70	4.11	2.7	149.65	87.47	12.0
2009	4.782	-91	-1.9	5,812	2,469	-3.7	20.7	4.4	-1.84	1.54	1.4	122.60	46.60	def
2003	7,702	- 31	1.5	5,012	2,403	5.7		7.7	1.04	1.54	1.7	122.00	+0.00	<u>uci</u>
NETHERLA	NDS													
AkzoNobel														
2012	\$19,789	-\$2,789	-14.1%	\$17,370	\$3,733	-74.7%	5.4%	2.5%	-\$9.39	\$1.86	3.4%	€49.98	€34.85	-5.8
2011	20,184	613	3.0	16,043	3,023	20.3	4.5	2.2	2.60	1.86	3.5	53.74	29.25	20.5
2010	18,825	970	5.2	16,441	2,830	34.3	3.6	2.3	4.13	1.80	3.3	47.70	37.18	13.2
2009	17,864	366	2.1	14,777	1,102	33.3	3.8	2.4	1.56	1.74	3.7	46.52	26.01	30.0
DSM														
2012	\$11,741	\$370	3.2%	\$11,795	\$3,962	9.3%	7.8%	4.2%	\$3.57	\$1.93	3.6%	€46.29	€36.33	14.9
2011	11,821	1,047	8.9	12,050	5,385	19.4	4.6	4.1	6.20	1.86	3.7	46.82	30.54	8.0
2010	11,637	652	5.6	12,100	5,795	11.2	4.1	3.7	3.87	1.74	3.7	42.85	30.43	12.2
2009	10,701	433	4.0	11,008	5,089	8.5	4.6	3.7	2.58	1.54	4.6	34.84	16.93	12.9
SWITZERLA	AND													
Clariant ^e	AND													
2012	\$6,439	\$254	3.9%	\$8,469	\$1,553	16.3%	5.2%	2.9%	\$0.75	\$0.35	3.0%	CHF 13.48	CHF 8.62	15.8
2012	7,860	242	3.1	7,805	1,348	18.0	5.0	2.4	0.84	0.32	223.8	19.93	6.88	17.0
2010	7,500	192	2.5	6,028	1,639	11.7	3.1	1.9	0.78	ne	ne	19.73	10.85	20.9
2009	7,053	-220	-3.1	6,183	1,708	-12.9	2.0	2.3	-0.97	ne	ne	12.22	3.71	def
2003	7,000	LLU	0.1	0,100	1,700	12.5	2.0	2.0	0.57	110	110	12.22	0.71	401
Givaudan														
2012	\$4,540	\$438	9.7%	\$4,154	\$1,306	33.6%	5.4%	9.5%	\$48.15	\$38.39	4.0%	снг 975.00 с	HF 834.00	20.0
2011	4,175	269	6.4	4,429	994	27.0	4.8	7.5	29.38	23.46	2.6	1,016.00	703.50	31.2
2010	4,521	363	8.0	4,498	790	45.9	2.8	7.9	40.13	22.93	2.3	1,062.00	821.50	25.0
2009	4,222	212	5.0	4,339	-215	-98.5	2.4	8.2	26.63	21.97	2.9	878.50	567.00	28.9
Lonza ^f														
2012	\$4,186	\$194	4.6%	\$6,346	\$1,341	14.5%	7.9%	3.0%	\$3.73	\$2.29	4.7%	CHF 58.87	CHF 32.81	13.1
2011	2,871	164	5.7	5,287	314	52.4	9.2	3.5	3.17	2.29	3.3	81.70	46.89	21.6
2010	2,858	310	10.9	4,398	1,848	16.8	10.6	3.7	5.90	2.29	2.7	90.85	66.00	
2009	2,869	173	6.0	4,505	1,780	9.7	18.8	3.8	3.38	1.87	1.8	120.10	71.50	30.2
Syngenta					-									
2012	\$14,202	\$1,872	13.2%	\$15,900	\$5,244	35.7%	3.6%	8.8%	\$20.32	\$9.95	2.7%	CHF 376.50 (CHE 275 00	17.1
2011	13,268	1,599	12.1	14,372	4,634	34.5	3.6	8.5	17.31	7.90	2.6	324.30	211.10	16.5
2010	11,641	1,397	12.0	14,198	4,362	32.0	3.4	8.9	14.99	6.77	2.3	305.50	222.00	
2010					.,					,				18.3

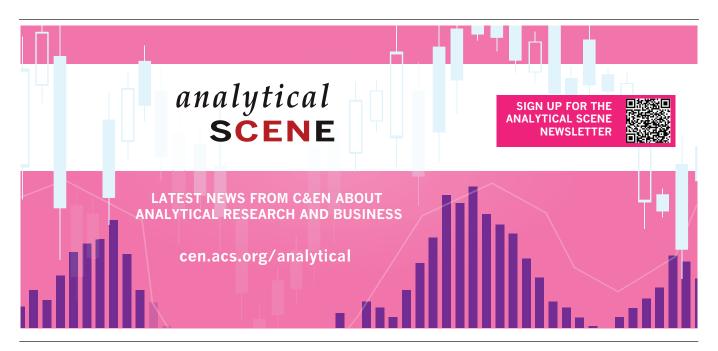
PHARMACEUTICALS

FRANCE														
Sanofi														
2012	\$44,936	\$6,387	14.2%	\$80,152	\$24,944	25.6%	3.9%	14.1%	\$4.81	\$3.56	4.4%	€72.38	€53.20	16.8
2011	42,933	7,320	17.1	128,797	72,507	10.1	5.3	14.4	5.52	3.41	5.3	56.82	42.85	11.6
2010	39,069	7,030	18.0	109,636	68,520	10.3	5.2	14.5	5.37	3.21	4.9	58.90	44.01	12.3
2009	37,683	6,770	18.0	102,930	62,294	10.9	6.1	15.6	5.18	3.09	5.0	56.78	38.43	11.8

NOTE: Monetary statistics, except stock prices, for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 0.7777 euros, 0.9377 Swiss francs, and 0.6308 pounds sterling. **d** Purchased Millipore in 2008. **e** Purchased Súd-Chemie in 2011. **f** Purchased Arch Chemicals in 2011. **def** = deficit. **ne** = nonexistent.

FINANCES

	NET		PROFIT	TOTAL	STOCK- HOLD- ERS'	RETURN ON	CAPITAL SPEND- ING, % OF	R&D SPEND- ING, % OF		DIVIDEND, \$ PER	DIVIDEND YIELD, %	STOCK PRIC	JADE	PRICE/ EARNINGS
YEAR	SALES	EARNINGS	MARGIN	ASSETS	EQUITY	EQUITY	SALES	SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary	figures, excep	t per-share a	mounts, are	n millions of	dollars)									
SWITZER	RLAND													
Novartis														
2012	\$56,673	\$9,618	17.0%	\$93,126	\$38,129	25.2%	4.8%	16.5%	\$3.93	\$2.45	4.0%	CHF 59.00	CHF 48.80	14.6
2011	58,566	9,113	15.6	117,496	65,940	13.8	3.7	16.4	3.78	2.40	4.4	55.80	39.99	
2010	50,624	9,794	19.3	123,318	69,769	14.0	3.3	17.9	4.26	2.35	3.7	60.25	50.55	13.9
2009	44,267	8,400	19.0	95,505	57,462	14.6	4.3	16.9	3.69	2.24	4.1	56.90	39.64	14.0
Roche														
2012	\$48,522	\$10,173	21.0%	\$61,134	\$9,862	103.1%	4.8%	18.6%	\$11.90	\$7.84	4.2%	CHF 191.70	CHF 157.10	15.6
2011	45,357	9,964	22.0	65,667	15,444	64.5	4.6	19.6	11.71	7.25	4.7	167.00	123.80	13.2
2010	50,627	9,242	18.3	65,074	12,437	74.3	5.6	21.1	10.78	7.04	4.0	191.70	134.30	16.1
2009	52,310	8,301	15.9	79,519	10,039	82.7	6.1	20.1	9.62	6.40	3.8	182.10	130.30	17.3
UNITED I	KINGDOM													
AstraZen	eca													
2012	\$27,973	\$6,297	22.5%	\$43,636	\$14,054	44.8%	2.4%	18.7%	\$4.98	\$4.44	3.9%	£49.33	£41.07	14.4
2011	33,591	9,983	29.7	52,830	23,472	42.5	2.5	16.4	7.30	2.79	3.9	31.94	25.44	
2010	33,269		24.2	56,127	23,410	34.4	2.4	16.0	5.57	2.56	3.3	33.85	27.32	
2009	32,804	7,521	22.9	54,920	20,821	36.1	2.9	13.4	5.19	2.24	3.5	29.47	21.47	7 7.8
GlaxoSm	ithKline													
2012	\$41,901	\$7,237	17.3%	\$58,840	\$3,786	191.2%	4.0%	15.0%	\$1.44	\$1.17	5.2%	£15.08	£13.18	15.5
2011	43,416	9,098	21.0	65,124	13,993	65.0	3.4	14.3	1.63	1.19	5.8	14.74	11.28	12.6
2010	45,010	4,347	9.7	66,947	15,449	28.1	3.6	14.0	0.51	1.03	5.3	13.40	10.95	38.0
2009	44,971	9,742	21.7	67,949	17,029	57.2	5.0	13.9	1.71	0.97	5.3	13.34	9.87	7 10.7



JAPAN COMPANY RESULTS

Sumitomo and Teijin reported large losses in their latest fiscal year

YEAR (Monetary figures		EARNINGS		TOTAL ASSETS	STOCK- HOLD- ERS' EQUITY	RETURN ON EQUITY	CAPITAL SPEND- ING, % OF SALES	R&D SPEND- ING, % OF SALES			, DIVIDEND YIELD, % OF PRICE		PRICE ER SHARE LOW	PRICE/ EARNINGS RATIO
ACALII KACEI														
ASAHI KASEI	\$20.000	ф.C72	2.20/	¢22.ΕΕ2	ΦΩ 1ΩF	7.20/	C 20/	4.20/	<u> </u>	↑ ∩ 10	2.70/	V/C27	V202	12.4
2012	\$20,880	\$673	3.2%	\$22,553	\$9,195	7.3%	6.2%	4.3%	\$0.48	\$0.18	2.7%	¥637	¥393	13.4
2011	19,710	699	3.5	17,672	8,730	8.0	4.9	4.2	0.50	0.18	2.8	565	438	12.6
2010	20,025	755	3.8	17,864	8,261	9.1	4.1	3.9	0.54	0.14	2.2	590	415	11.7
2009	17,960	317	1.8	17,150	7,678	4.1	5.9	4.4	0.23	0.13	2.3	513	355	24.0
DICa														
2012	\$8,817	\$239	2.7%	\$8,682	\$3,101	7.7%	3.7%	1.2%	\$0.26	\$0.08	3.5%	¥213	¥127	8.2
2011	9,199	227	2.5	8,457	2,922	7.8	3.6	1.2	0.25	0.05	2.5	207	118	8.2
2010	9,759	197	2.0	8,817	2,740	7.2	2.7	1.5	0.22	0.05	2.2	222	135	10.1
2009	9,494	32	0.3	9,394	1,539	2.1	3.1	1.6	0.04	0.05	2.5	205	118	50.3
JSR CORP.														
2012	\$4,654	\$379	8.2%	\$6,050	\$3,766	10.1%	7.4%	5.3%	\$1.58	\$0.43	2.2%	¥1,912	¥1,240	12.5
2011	4,384	331	7.5	5,396	3,562	9.3	5.6	5.0	1.37	0.40	2.2	1,734	1,231	13.5
2010	4,268	345	8.1	4,893	3,327	10.4	3.5	5.0	1.42	0.40	2.0	1,975	1,208	14.1
2009	3,886	171	4.4	4,680	3,134	5.5	5.7	5.9	0.70	0.33	1.7	1,966	1,145	27.8
					-, -							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
KANEKA		****												
2012	\$5,969	\$117	2.0%	\$6,069	\$3,236	3.6%	6.3%	4.5%	\$0.35	\$0.20	3.4%	¥555	¥376	16.8
2011	5,879	68	1.2	5,852	3,191	2.1	7.1	4.3	0.20	0.20	3.2	593	398	31.0
2010	5,686	146	2.6	5,702	3,202	4.5	6.4	4.0	0.43	0.20	3.0	617	465	15.8
2009	5,168	105	2.0	5,423	3,126	3.4	5.9	3.9	0.31	0.20	2.7	706	484	24.0
MITSUBISHI C	HEMICAL	HOLDINGS	b											
2012	\$38,694	\$233	0.6%	\$41,440	\$10,217	2.3%	4.3%	4.4%	\$0.16	\$0.15	3.2%	¥476	¥281	30.0
2011	40,193	445	1.1	39,764	9,656	4.6	3.6	4.3	0.30	0.13	1.9	612	414	21.3
2010	39,674	1,047	2.6	41,268	9,499	11.0	3.7	4.1	0.74	0.13	1.9	641	398	8.8
2009	31,509	161	0.5	42,033	8,439	1.9	4.7	5.4	0.12	0.10	2.1	481	294	41.6
MITSUI CHEMI	ICALC													
2012	\$17,617	-\$102	def	\$16,763	\$4,790	def	4.0%	2.3%	-\$0.10	\$0.08	3.1%	¥243	¥146	def
2012	18,216	-9102	def	15,739	4,967	def	3.1	2.3%	-0.01	0.08	2.3	306	227	def
2010	17,436	311	1.8%	16,232	5,056	6.2%	3.2	2.6	0.31	0.08	2.2	332	208	10.9
2009	15,131	-351	def	15,511	4,821	def	4.1	3.2	-0.41	0.08	1.0	382	202	def
					.,									
SHIN-ETSU CH														
2012	\$12,847	\$1,324	10.3%	\$24,065	\$19,746	6.7%	8.1%	3.7%	\$3.12	\$1.25	1.9%	¥6,430	¥3,960	20.9
2011	13,126	1,261	9.6	22,674	18,208	6.9	8.3	3.4	2.97	1.25	2.4	4,870	3,495	17.6
2010	13,258	1,254	9.5	22,352	17,875	7.0	10.8	3.5	2.95	1.25	2.2	5,700	3,540	19.6
2009	11,486	1,051	9.1	22,164	17,930	5.9	13.2	3.7	2.47	1.25	2.0	6,000	4,200	25.8
SHOWA DENK	0													
2012	\$9,268	\$117	1.3%	\$11,691	\$3,205	3.7%	5.7%	2.8%	\$0.08	\$0.04	2.0%	¥187	¥113	24.0
2011	10,701	213	2.0	11,793	3,151	6.8	4.5	2.5	0.14	0.04	1.8	193	139	14.6
2010	9,987	159	1.6	11,582	3,001	5.3	7.3	2.6	0.11	0.04	1.8	208	132	20.0
2009	8,497	-476	def	12,006	3,592	def	5.7	3.1	-0.37	0.04	1.8	217	109	def
SUMITOMO CH	HEMICAL													
2012	\$24,461	-\$640	def	\$30,971	\$9,365	def	5.9%	6.4%	-\$0.39	\$0.08	2.3%	¥338	¥191	def
2011	24,403	70	0.3%	29,278	9,032	0.8%	8.0	6.3	0.04	0.11	2.6	437	261	102.0
2010	24.836	306	1.2	29,658	9,507	3.2	5.0	7.0	0.19	0.11	2.2	483	332	27.4
2009	20,307	184	0.9	29,866	10,291	1.8	6.4	7.2	0.11	0.08	1.5	484	325	45.3
2003	20,507	104	0.5	23,000	10,231	1.0	0.4	1.2	0.11	0.00	1.0	-10-1	323	70.0

NOTE: Monetary statistics, except share prices, for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 79.82 yen. Statistics were prepared on the basis of consolidated results. The fiscal year ends on March 31 of the following calendar year, except for Showa Denko's, which ends on Dec. 31. **a** Formerly Dainippon Ink & Chemicals. **b** Holding firm made up of Mitsubishi Chemical, Mitsubishi Rayon, Mitsubishi Tanabe Pharma, and Mitsubishi Plastics. **def** = deficit.

	NET		PROFIT	TOTAL	STOCK- HOLD- ERS'	RETURN ON	CAPITAL SPEND- ING, % OF	R&D SPEND- ING, % OF		\$ PER	, DIVIDEND YIELD, %		R SHARE	
YEAR	SALES	EARNINGS	MARGIN	ASSETS	EQUITY	EQUITY	SALES	SALES	SHARE	SHARE	OF PRICE	HIGH	LOW	RATIO
(Monetary figi	ıres, except per	-share amou	nts, are in mi	llions of dolla	rs)									
TEIJIN														
2012	\$9,342	-\$365	def	\$9,551	\$3,411	def	4.7%	4.5%	-\$0.37	\$0.05	1.8%	¥273	¥165	def
2011	10,704	150	1.4%	9,548	3,659	4.1%	3.6	3.7	0.15	0.08	2.0	399	216	25.3
2010	10,219	315	3.1	9,541	3,561	8.9	3.6	3.9	0.32	0.06	1.5	423	254	13.2
2009	9,595	-447	def	10,312	3,399	def	4.7	4.4	-0.45	0.03	0.7	335	213	def
TORAY INDI	JSTRIES													
2012	\$19,948	\$607	3.0%	\$21,697	\$9,083	6.7%	6.2%	3.3%	\$0.37	\$0.13	1.9%	¥636	¥426	17.8
2011	19,897	805	4.0	19,813	7,857	10.2	6.2	3.2	0.49	0.13	1.7	630	513	14.5
2010	19,290	726	3.8	19,638	7,428	9.8	3.6	3.4	0.46	0.09	1.4	633	423	14.5
2009	17,034	-177	def	19,504	5,902	def	4.2	3.4	-0.13	0.06	1.0	568	395	def
TOSOH														
2012	\$8,375	\$211	2.5%	\$9,209	\$2,365	8.9%	3.9%	1.8%	\$0.35	\$0.08	2.3%	¥285	¥230	9.1
2011	8,609	118	1.4	8,879	2,143	5.5	2.8	1.9	0.20	0.08	2.2	350	205	17.7
2010	8,574	125	1.5	9,094	2,064	6.1	3.6	2.0	0.21	0.08	2.3	304	210	15.4
2009	7.877	86	1.1	9.267	2.036	4.2	4.8	2.2	0.14	0.08	2.4	316	186	21.8

NOTE: Monetary statistics, except share prices, for all years were converted at the 2012 exchange rate of \$1.00 U.S. = 79.82 yen. Statistics were prepared on the basis of consolidated results. The fiscal year ends on March 31 of the following calendar year, except for Showa Denko's, which ends on Dec. 31. def = deficit.

U.S. CAPITAL SPENDING

Company investments grew in 2012, but at a slower pace than in 2011

\$ MILLIONS	2002	2010	2011	2012
Air Products & Chemicals ^a	\$628	\$1,298	\$1,352	\$1,521
Albemarle	38	76	191	281
Cabot ^a	146	108	230	281
Cytec Industries	62	116	117	145
Dow Chemical ^b	1,623	2,130	2,687	2,614
DuPont ^c	1,280	1,501	1,843	1,793
Eastman Chemical ^d	427	243	457	465
FMC Corp.	84	142	190	207
H.B. Fuller ^e	36	36	36	36
W.R. Grace	91	113	142	139
NewMarket Corp.	13	34	54	39
PPG Industries	238	341	390	411
Praxair	498	1,388	1,797	2,180
Quaker Chemical	11	9	12	13
Stepan	36	74	83	83
TOTAL ^f	\$5,211	\$7,609	\$9,581	\$10,208

NOTE: Prior years are not restated to reflect company revisions. **a** Fiscal year ends on Sept 30. **b** Acquired Rohm and Haas in 2009. **c** Acquired Danisco in 2011. **d** Acquired Solutia in 2012. **e** Fiscal year ends on Dec. 1. **f** For companies reporting.

Increase in capital spending by European firms in 2012:

\$6,999 _{millio}

EUROPE CAPITAL SPENDING

Spending surged despite the recession

\$ MILLIONS	2002	2010	2011	2012
Air Liquide (France)	\$1,170	\$1,450	\$1,755	\$2,582
AkzoNobel (Netherlands) ^a	886	534	708	1,062
Arkema (France) ^b	ne	315	424	563
BASF (Germany) ^c	3,442	2,548	3,410	5,163
Bayer (Germany)	3,064	1,514	1,615	2,587
Clariant (Switzerland) ^d	362	224	370	332
DSM (Netherlands)	647	370	423	919
Givaudan (Switzerland)	98	120	187	243
Kemira (Finland) ^e	312	75	98	172
Lanxess (Germany) ^f	ne	501	679	895
Linde (Germany)	1,115	1,302	1,367	2,510
Lonza (Switzerland) ^g	371	285	248	331
Merck (Germany) ^h	485	396	366	423
Solvay (Belgium) ⁱ	804	286	602	1,009
Syngenta (Switzerland)	165	396	479	508
Wacker (Germany) ^j	ne	617	781	1,212
TOTAL ^k	\$12,921	\$10,934	\$13,513	\$20,512

NOTE: Monetary statistics for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 0.7777 euros and 0.9377 Swiss francs. a Divested pharmaceuticals in 2007 and purchased ICI in 2008. b Spun off from Total in 2006. c Purchased Ciba in 2009. d Purchased Süd-Chemie in 2011. e Spun off Tikkurila in 2010. f Spun off from Bayer in January 2005. g Purchased Arch Chemicals in 2011. h Purchased Millipore in 2010. i Sold its pharmaceuticals unit and changed its accounting procedures in 2010; bought Rhodia in 2011. j Became a publicly traded company in 2005. k For companies reporting. ne = nonexistent.

JAPAN CAPITAL SPENDING

Postrecession capital investment grew for the third straight year

\$ MILLIONS	2002	2010	2011	2012
Asahi Kasei	\$1,177	\$827	\$972	\$1,299
DICa	540	261	333	328
JSR Corp.	201	148	247	346
Kaneka	223	366	415	375
Mitsubishi Chemical Holdings ^b	1,069	1,476	1,455	1,656
Mitsui Chemicals	862	565	561	710
Shin-Etsu Chemical	821	1,427	1,092	1,040
Showa Denko	356	727	486	532
Sumitomo Chemical	1,904	1,237	1,943	1,455
Teijin	879	366	385	438
Toray	717	701	1,233	1,242
Tosoh	152	310	242	328
TOTAL ^c	\$8,904	\$8,410	\$9,364	\$9,749

NOTE: Monetary statistics for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 79.82 yen. Fiscal year ends on March 31 of the following calendar year, except Showa Denko's, which ends on Dec. 31. a Formerly Dainippon Ink & Chemicals. b Holding firm made up of Mitsubishi Chemical, Mitsubishi Rayon, Mitsubishi Tanabe Pharma, and Mitsubishi Plastics. c For companies reporting.

U.S. R&D SPENDING

Chemical firms raised spending on research, but in pharma, Merck & Co. and Pfizer continued cuts

CHEMICALS

\$ MILLIONS	2002	2010	2011	2012
Air Products & Chemicals ^a	\$121	\$115	\$119	\$126
Albemarle	17	58	77	79
Cabot ^a	48	70	66	73
Cytec Industries	34	73	85	53
Dow Chemical ^b	1,066	1,660	1,646	1,708
DuPont ^c	1,264	1,651	1,956	2,067
Eastman Chemical ^d	159	152	158	198
FMC Corp.	82	101	105	118
H.B. Fuller ^e	18	19	21	21
W.R. Grace	52	60	69	65
NewMarket Corp.	30	91	105	118
PPG Industries	289	408	430	455
Praxair	69	79	90	98
Quaker Chemical	9	16	19	20
Stepan	15	38	41	28
TOTALf	\$3,273	\$4,591	\$4,987	\$5,227

PHARMACEUTICALS

\$ MILLIONS	2002	2010	2011	2012
Abbott Laboratories	\$1,562	\$3,724	\$4,129	\$4,322
Bristol-Myers Squibb	2,218	3,566	3,839	3,904
Eli Lilly & Co.	2,235	4,884	5,021	5,278
Johnson & Johnson	2,957	6,844	7,548	7,665
Merck & Co.g	2,677	10,991	8,467	8,168
Pfizer ^h	5,176	9,413	9,112	7,870
TOTAL ^f	\$16,825	\$39,422	\$38,116	\$37,207

NOTE: Prior years are not restated to reflect company revisions. a Fiscal year ends on Sept. 30. b Acquired Rohm and Haas in 2009. c Acquired Danisco in 2011. d Acquired Solutia in 2012. e Fiscal year ends on Dec. 1. f For companies reporting. g Acquired Schering-Plough in 2009. h Purchased Pharmacia in 2003 and Wyeth in 2009.

EUROPE R&D SPENDING

Investments edged up at most firms in 2012

\$ MILLIONS	2002	2010	2011	2012
Air Liquide (France)	\$118	\$224	\$239	\$330
AkzoNobel (Netherlands) ^a	1,159	429	458	498
Arkema (France) ^b	ne	179	170	189
BASF (Germany) ^c	1,459	1,918	2,064	2,227
Bayer (Germany)	3,314	3,926	3,770	3,874
Clariant (Switzerland) ^d	375	144	188	187
DSM (Netherlands)	348	435	490	490
Givaudan (Switzerland)	220	358	314	431
Kemira (Finland) ^e	59	54	51	54
Lanxess (Germany) ^f	ne	149	185	247
Linde (Germany)	220	121	126	130
Lonza (Switzerland) ^g	109	106	100	124
Merck (Germany) ^h	782	1,796	1,951	1,947
Solvay (Belgium) ⁱ	510	161	201	336
Syngenta (Switzerland)	697	1,032	1,127	1,253
Wacker (Germany) ^j	ne	212	222	224
TOTAL ^k	\$9,371	\$11,244	\$11,655	\$12,540

NOTE: Monetary statistics for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 0.7777 euros and 0.9377 Swiss francs. a Divested pharmaceuticals in 2007 and purchased ICl in 2008. b Spun off from Total in 2006. c Purchased Ciba in 2009. d Purchased Süd-Chemie in 2011. e Spun off Tikkurila in 2010. f Spun off from Bayer in January 2005. g Purchased Arch Chemicals in 2011. h Purchased Millipore in 2010. I Sold its pharmaceuticals unit and changed its accounting procedures in 2010; bought Rhodia in 2011. J Became a publicly traded company in 2005. k For companies reporting. ne = nonexistent.

JAPAN R&D SPENDING

Overall, expenditures have remained stable for past three years

\$ MILLIONS	2002	2010	2011	2012
Asahi Kasei	\$618	\$781	\$831	\$891
DICa	162	148	114	110
JSR Corp.	176	215	220	247
Kaneka	175	229	251	268
Mitsubishi Chemical Holdings ^b	1,141	1,639	1,736	1,688
Mitsui Chemicals	465	454	416	401
Shin-Etsu Chemical	342	468	447	472
Showa Denko	193	258	271	258
Sumitomo Chemical	912	1,730	1,532	1,566
Teijin	374	395	398	416
Toray	447	651	645	668
Tosoh	130	168	162	153
TOTAL°	\$5,134	\$7,135	\$7,022	\$7,138

NOTE: Monetary statistics for all years were converted at the 2012 average exchange rate of \$1.00 U.S. = 79.82 yen. Fiscal year ends on March 31 of the following calendar year, except Showa Denko's, which ends on Dec. 31. **a** Formerly Dainippon Ink & Chemicals. **b** Holding firm made up of Mitsubishi Chemical, Mitsubishi Rayon, Mitsubishi Tanabe Pharma, and Mitsubishi Plastics. **c** For companies reporting.

Increase in spending at Japan's chemical firms since 2002 in research and development:

39%